

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P382890

Luminaire Tested: **GLEON-SA2C-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9994.6 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

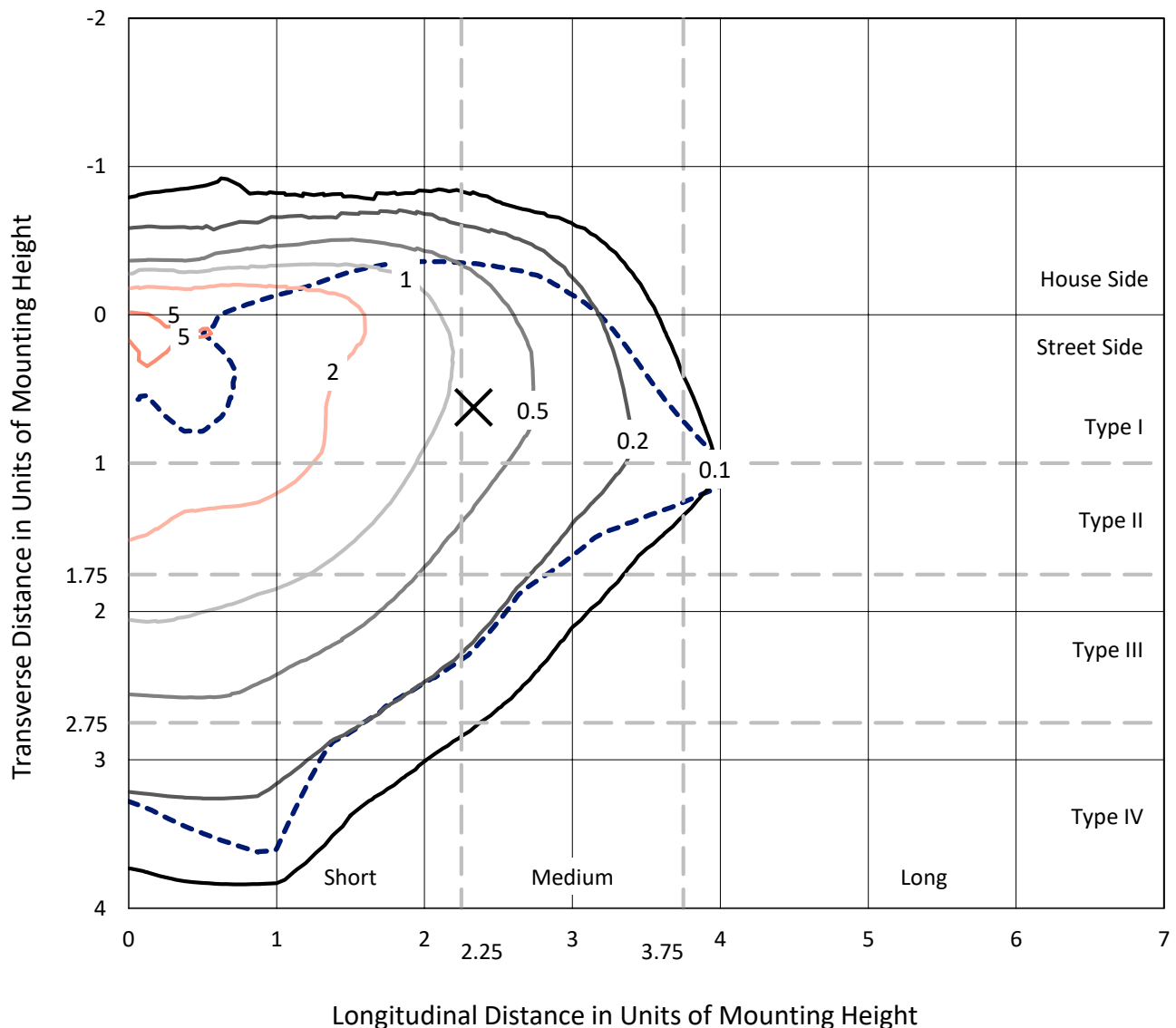
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

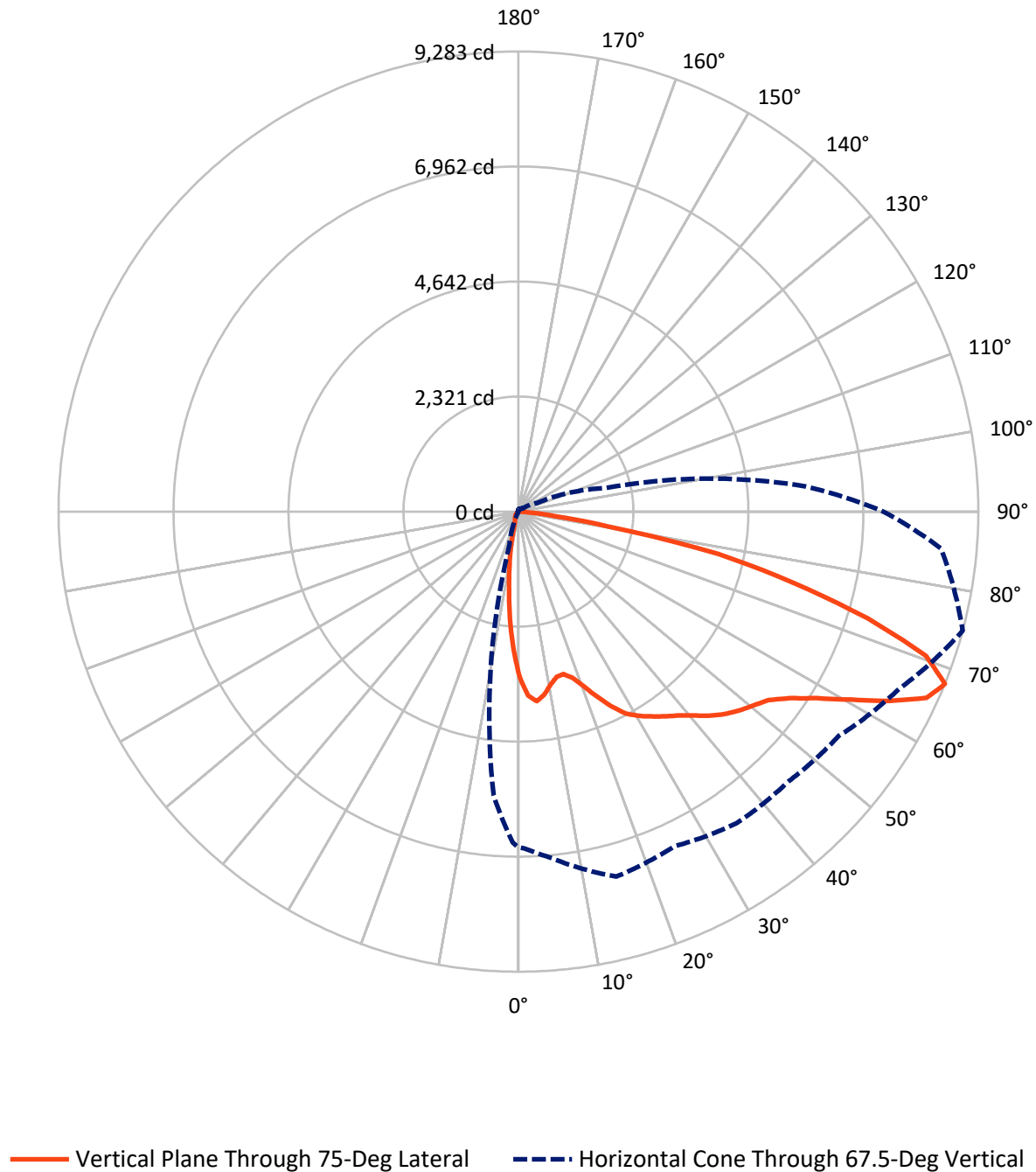
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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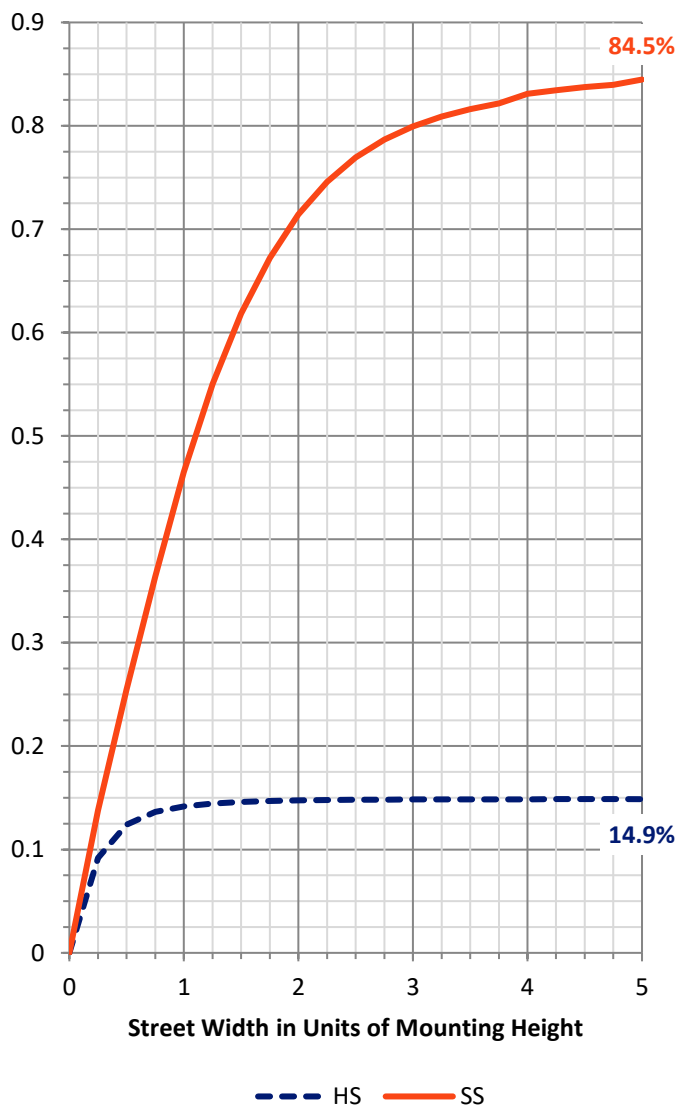
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1499.8   | 0.0    | 1499.8 |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 8494.8   | 0.0    | 8494.8 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 9994.6   | 0.0    | 9994.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 254.3  | 2.5       |
| 10°-20°   | 500.8  | 5.0       |
| 20°-30°   | 708.5  | 7.1       |
| 30°-40°   | 1041.7 | 10.4      |
| 40°-50°   | 1497.2 | 15.0      |
| 50°-60°   | 2107.7 | 21.1      |
| 60°-70°   | 2461.6 | 24.6      |
| 70°-80°   | 1255.8 | 12.6      |
| 80°-90°   | 166.8  | 1.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 9994.6 | 100.0     |
| 0°-180°   | 9994.6 | 100.0     |

**Coefficient of Utilization**



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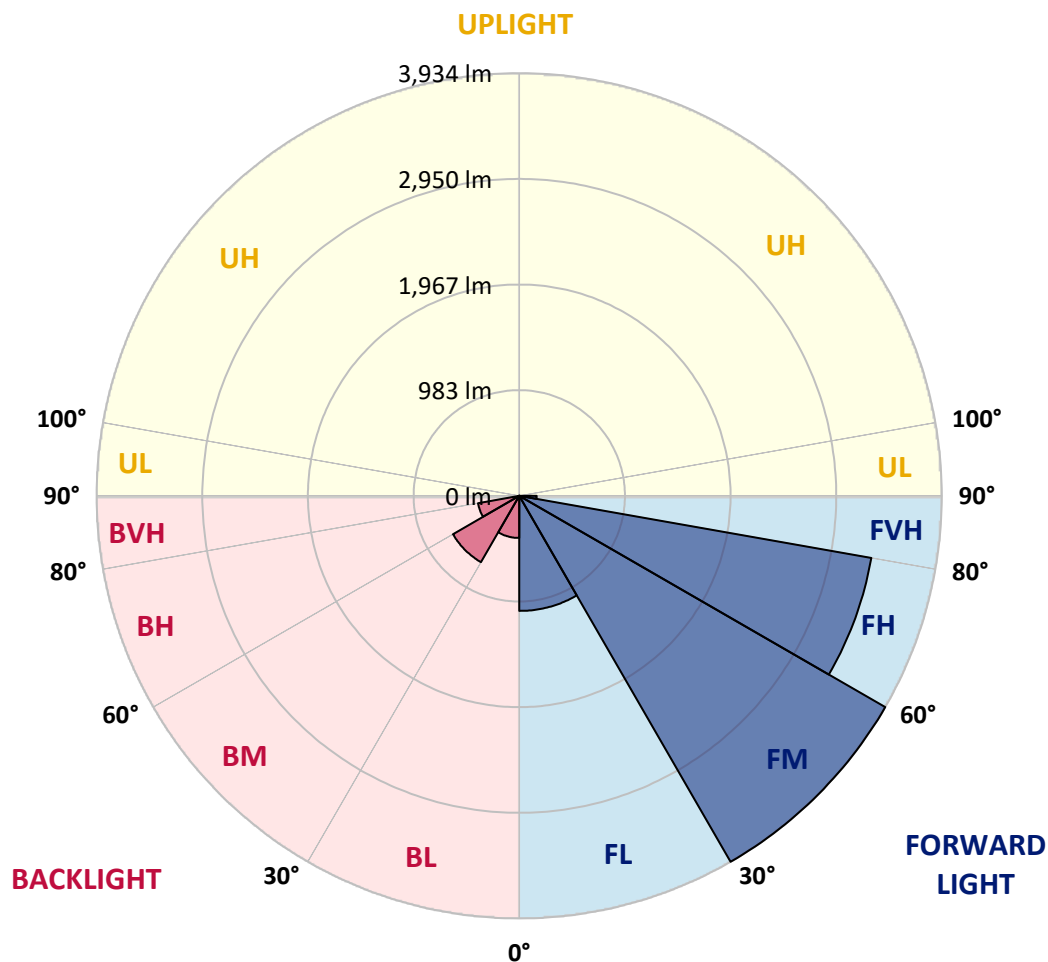
CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1071.4 | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 3933.7 | 39.4      |                         |      |         |
| FH   | (60°-80°)   | 3327.9 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 161.8  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 392.2  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 713.0  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 389.6  | 3.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.1    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 |
| 2.5°  | 3634.7 | 3640.4 | 3669.7 | 3737.9 | 3812.3 | 3817.9 | 3868.2 | 3816.6 | 3799.0 | 3715.7 | 3629.5 |
| 5°    | 3662.2 | 3684.0 | 3784.8 | 3985.1 | 4158.8 | 4214.7 | 4254.5 | 4153.1 | 4046.6 | 3843.0 | 3625.7 |
| 7.5°  | 3441.0 | 3477.6 | 3636.1 | 4012.1 | 4322.7 | 4460.0 | 4486.0 | 4327.4 | 4066.5 | 3731.3 | 3404.6 |
| 10°   | 3157.9 | 3199.6 | 3390.9 | 3853.0 | 4279.5 | 4514.8 | 4550.9 | 4343.0 | 3968.0 | 3550.4 | 3165.5 |
| 12.5° | 2928.8 | 2977.6 | 3173.1 | 3674.0 | 4131.4 | 4391.8 | 4462.8 | 4290.4 | 3882.8 | 3422.1 | 3002.2 |
| 15°   | 2823.2 | 2879.0 | 3084.5 | 3558.5 | 3967.1 | 4172.1 | 4230.8 | 4156.5 | 3835.5 | 3401.7 | 2964.3 |
| 17.5° | 2883.8 | 2944.4 | 3156.5 | 3568.4 | 3812.7 | 3900.3 | 3947.7 | 3978.0 | 3835.5 | 3524.4 | 3075.1 |
| 20°   | 3132.4 | 3197.7 | 3422.1 | 3669.3 | 3684.9 | 3652.2 | 3702.9 | 3809.4 | 3880.0 | 3757.3 | 3341.2 |
| 22.5° | 3476.1 | 3552.8 | 3806.1 | 3842.1 | 3622.4 | 3498.8 | 3505.5 | 3672.6 | 3960.9 | 4052.8 | 3710.4 |
| 25°   | 3895.1 | 3988.9 | 4246.5 | 4099.6 | 3648.4 | 3407.4 | 3405.1 | 3559.9 | 4040.0 | 4348.7 | 4121.9 |
| 27.5° | 4311.3 | 4414.5 | 4640.8 | 4414.0 | 3755.9 | 3390.9 | 3386.2 | 3525.8 | 4117.2 | 4611.9 | 4571.2 |
| 30°   | 4660.3 | 4760.6 | 4955.6 | 4641.7 | 3871.9 | 3429.7 | 3406.9 | 3562.2 | 4163.1 | 4782.8 | 4898.8 |
| 32.5° | 4944.3 | 5024.8 | 5182.5 | 4798.5 | 3996.0 | 3504.9 | 3455.8 | 3659.8 | 4241.2 | 4927.2 | 5200.0 |
| 35°   | 5256.8 | 5341.5 | 5404.5 | 4947.6 | 4135.1 | 3613.4 | 3542.9 | 3814.6 | 4361.5 | 5074.0 | 5529.9 |
| 37.5° | 5613.3 | 5697.5 | 5690.0 | 5083.9 | 4311.8 | 3792.9 | 3747.9 | 4059.9 | 4548.5 | 5219.4 | 5898.3 |
| 40°   | 5962.2 | 6048.4 | 5986.9 | 5233.1 | 4519.1 | 4088.7 | 4055.6 | 4428.2 | 4799.0 | 5405.4 | 6330.1 |
| 42.5° | 6288.9 | 6382.2 | 6250.6 | 5374.2 | 4766.3 | 4461.8 | 4518.7 | 4902.6 | 5112.3 | 5634.6 | 6702.2 |
| 45°   | 6552.1 | 6647.3 | 6471.6 | 5511.5 | 5026.6 | 4914.5 | 5085.4 | 5428.1 | 5489.2 | 5828.2 | 6953.6 |
| 47.5° | 6743.4 | 6833.4 | 6625.1 | 5648.8 | 5359.9 | 5467.9 | 5765.7 | 5979.2 | 5829.6 | 5996.3 | 7132.1 |
| 50°   | 6865.6 | 6935.7 | 6670.1 | 5820.7 | 5797.5 | 6113.7 | 6474.5 | 6578.7 | 6150.2 | 6147.8 | 7349.0 |
| 52.5° | 6943.2 | 6975.0 | 6703.1 | 6000.1 | 6253.9 | 6816.8 | 7168.5 | 7201.2 | 6480.2 | 6314.5 | 7641.1 |
| 55°   | 7210.7 | 7236.3 | 6938.0 | 6217.4 | 6631.2 | 7432.7 | 7796.4 | 7766.1 | 6853.8 | 6640.7 | 7985.8 |
| 57.5° | 7667.1 | 7694.1 | 7423.3 | 6529.9 | 6936.6 | 7813.4 | 8251.4 | 8305.9 | 7291.7 | 7099.0 | 8355.1 |
| 60°   | 7896.3 | 7946.5 | 7849.9 | 6925.7 | 7232.5 | 8056.8 | 8561.5 | 8735.2 | 7839.0 | 7703.2 | 8713.0 |
| 62.5° | 7688.4 | 7761.4 | 7901.5 | 7364.6 | 7526.5 | 8190.8 | 8658.1 | 8889.1 | 8399.6 | 8407.1 | 8933.6 |
| 65°   | 7273.7 | 7331.9 | 7569.6 | 7605.2 | 7697.0 | 8174.2 | 8419.4 | 8674.2 | 8742.9 | 9053.9 | 8921.8 |
| 67.5° | 6772.8 | 6794.5 | 6996.2 | 7624.1 | 7449.8 | 7676.1 | 7702.6 | 7891.0 | 8471.5 | 9283.1 | 8563.3 |
| 70°   | 6051.7 | 6063.5 | 6239.7 | 6990.1 | 6402.1 | 6451.8 | 6412.5 | 6450.8 | 7283.1 | 8724.9 | 7658.6 |
| 72.5° | 4870.4 | 4900.2 | 5150.7 | 5805.0 | 4664.0 | 4520.5 | 4829.2 | 4812.2 | 5609.0 | 7371.2 | 5688.1 |
| 75°   | 3586.0 | 3637.6 | 4015.8 | 4675.8 | 3273.5 | 2961.0 | 3186.4 | 3246.4 | 3987.4 | 5701.8 | 3557.0 |
| 77.5° | 2510.7 | 2549.1 | 2915.6 | 3437.3 | 2369.2 | 2117.3 | 2035.9 | 2107.3 | 2631.9 | 4124.7 | 1792.0 |
| 80°   | 1446.4 | 1460.6 | 1694.5 | 1984.8 | 1596.5 | 1826.6 | 1654.7 | 1704.0 | 1577.1 | 1835.1 | 770.8  |
| 82.5° | 946.5  | 948.8  | 1040.2 | 1181.3 | 994.2  | 1155.2 | 855.1  | 1093.2 | 970.1  | 737.1  | 251.0  |
| 85°   | 511.3  | 514.2  | 603.2  | 838.5  | 562.9  | 318.1  | 187.1  | 384.0  | 599.8  | 169.0  | 68.7   |
| 87.5° | 56.4   | 51.6   | 181.8  | 304.9  | 156.2  | 28.9   | 10.0   | 43.1   | 96.1   | 10.9   | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 |
| 2.5°  | 3585.4 | 3546.2 | 3448.2 | 3344.4 | 3261.2 | 3183.0 | 3104.5 | 3008.3 | 2934.0 | 2918.8 | 2894.2 |
| 5°    | 3508.8 | 3384.2 | 3178.8 | 2972.4 | 2806.2 | 2596.4 | 2463.4 | 2359.7 | 2258.4 | 2252.2 | 2231.9 |
| 7.5°  | 3240.8 | 3077.0 | 2787.7 | 2502.2 | 2268.3 | 2068.5 | 1866.8 | 1731.9 | 1625.8 | 1588.5 | 1566.2 |
| 10°   | 2983.3 | 2799.0 | 2437.9 | 2112.1 | 1903.2 | 1726.7 | 1584.7 | 1443.5 | 1315.7 | 1227.7 | 1187.9 |
| 12.5° | 2803.3 | 2599.8 | 2201.5 | 1920.9 | 1771.2 | 1603.6 | 1430.3 | 1254.1 | 1107.0 | 1000.9 | 936.0  |
| 15°   | 2733.7 | 2516.4 | 2122.5 | 1845.0 | 1660.4 | 1448.3 | 1226.8 | 1025.5 | 862.1  | 766.0  | 707.8  |
| 17.5° | 2816.6 | 2563.8 | 2116.4 | 1752.7 | 1494.7 | 1230.9 | 986.2  | 748.5  | 594.7  | 521.8  | 484.3  |
| 20°   | 3026.8 | 2714.3 | 2114.0 | 1639.6 | 1297.7 | 973.5  | 668.0  | 492.4  | 399.2  | 358.4  | 340.9  |
| 22.5° | 3324.1 | 2906.5 | 2132.9 | 1527.8 | 1092.7 | 695.5  | 461.1  | 361.7  | 313.9  | 292.1  | 282.2  |
| 25°   | 3706.7 | 3176.4 | 2186.4 | 1426.5 | 900.1  | 518.9  | 359.4  | 303.0  | 269.4  | 252.4  | 245.3  |
| 27.5° | 4114.4 | 3487.0 | 2269.7 | 1338.4 | 743.3  | 413.8  | 307.8  | 259.4  | 235.3  | 223.5  | 216.9  |
| 30°   | 4450.5 | 3846.8 | 2354.0 | 1240.4 | 629.7  | 360.8  | 281.7  | 236.7  | 208.8  | 201.2  | 195.1  |
| 32.5° | 4744.5 | 4119.0 | 2413.6 | 1152.0 | 555.4  | 320.5  | 254.7  | 211.6  | 192.7  | 178.0  | 171.4  |
| 35°   | 5048.9 | 4345.9 | 2411.8 | 1089.9 | 504.2  | 290.3  | 232.0  | 189.4  | 166.7  | 149.6  | 144.4  |
| 37.5° | 5378.5 | 4601.9 | 2370.6 | 1036.9 | 482.0  | 266.0  | 219.2  | 177.6  | 154.8  | 137.8  | 131.2  |
| 40°   | 5764.3 | 4870.9 | 2328.5 | 987.2  | 475.8  | 246.7  | 210.3  | 168.1  | 143.9  | 127.3  | 120.7  |
| 42.5° | 6140.2 | 5113.4 | 2291.5 | 950.2  | 449.3  | 246.2  | 202.1  | 161.0  | 135.4  | 119.3  | 111.7  |
| 45°   | 6440.9 | 5339.2 | 2284.4 | 928.0  | 421.3  | 254.7  | 197.9  | 156.2  | 128.7  | 112.7  | 105.5  |
| 47.5° | 6690.8 | 5584.4 | 2329.9 | 912.4  | 394.9  | 232.4  | 208.3  | 153.0  | 122.6  | 107.0  | 98.9   |
| 50°   | 6988.2 | 5885.5 | 2436.8 | 886.7  | 366.9  | 209.2  | 238.7  | 153.9  | 117.4  | 101.4  | 92.8   |
| 52.5° | 7402.9 | 6302.2 | 2594.1 | 843.7  | 328.6  | 188.0  | 234.8  | 154.8  | 111.7  | 95.2   | 86.6   |
| 55°   | 7867.9 | 6822.5 | 2763.1 | 772.2  | 275.1  | 160.0  | 201.2  | 148.2  | 100.9  | 88.5   | 80.5   |
| 57.5° | 8356.4 | 7294.5 | 2863.5 | 687.0  | 218.7  | 138.2  | 161.0  | 135.0  | 89.1   | 79.6   | 74.3   |
| 60°   | 8433.2 | 7474.0 | 2817.6 | 582.3  | 173.7  | 120.3  | 119.3  | 137.3  | 79.6   | 70.1   | 66.3   |
| 62.5° | 8242.3 | 7248.6 | 2595.5 | 489.1  | 145.3  | 105.5  | 98.0   | 119.8  | 72.0   | 62.5   | 58.7   |
| 65°   | 7875.5 | 6639.2 | 2235.6 | 440.8  | 135.0  | 90.5   | 81.4   | 84.3   | 63.0   | 54.4   | 51.1   |
| 67.5° | 7365.1 | 5825.9 | 1835.6 | 413.3  | 133.5  | 77.7   | 69.6   | 63.9   | 54.4   | 47.3   | 44.5   |
| 70°   | 6321.6 | 4853.4 | 1464.4 | 398.1  | 129.8  | 65.3   | 58.7   | 52.1   | 45.5   | 40.2   | 37.9   |
| 72.5° | 4652.6 | 3439.2 | 1139.1 | 381.6  | 130.7  | 52.1   | 51.1   | 43.1   | 36.4   | 31.2   | 30.3   |
| 75°   | 2688.3 | 1964.8 | 747.1  | 309.2  | 124.5  | 40.2   | 42.6   | 30.3   | 25.5   | 21.8   | 21.8   |
| 77.5° | 1432.7 | 1198.3 | 284.6  | 128.7  | 45.5   | 25.5   | 24.1   | 18.0   | 16.1   | 13.2   | 12.8   |
| 80°   | 624.5  | 527.4  | 85.7   | 36.0   | 25.1   | 13.7   | 9.0    | 8.0    | 7.1    | 5.7    | 5.2    |
| 82.5° | 221.1  | 190.8  | 27.9   | 17.5   | 10.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 50.2   | 36.0   | 0.0    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 |
| 2.5°  | 2844.0 | 2833.7 | 2772.1 | 2774.4 | 2785.3 | 2801.0 | 2764.0 | 2781.0 | 2827.0 | 2871.0 | 2887.6 |
| 5°    | 2199.2 | 2201.5 | 2164.2 | 2187.4 | 2208.2 | 2222.4 | 2162.8 | 2163.7 | 2200.1 | 2249.9 | 2275.9 |
| 7.5°  | 1549.6 | 1545.8 | 1547.8 | 1603.1 | 1642.4 | 1614.0 | 1636.3 | 1559.1 | 1563.8 | 1599.4 | 1572.8 |
| 10°   | 1152.0 | 1099.9 | 1070.4 | 1112.2 | 1155.2 | 1139.6 | 1101.3 | 1076.1 | 1093.6 | 1132.9 | 1130.2 |
| 12.5° | 905.3  | 830.5  | 786.4  | 756.6  | 792.1  | 762.8  | 761.8  | 740.0  | 716.4  | 720.6  | 783.5  |
| 15°   | 680.9  | 626.4  | 574.3  | 526.5  | 525.6  | 515.6  | 464.9  | 408.1  | 403.4  | 406.2  | 438.9  |
| 17.5° | 468.3  | 449.8  | 428.5  | 387.2  | 376.4  | 334.7  | 285.5  | 262.8  | 251.4  | 256.6  | 267.5  |
| 20°   | 329.0  | 321.9  | 324.3  | 302.1  | 286.5  | 246.7  | 217.8  | 208.8  | 206.9  | 212.1  | 217.3  |
| 22.5° | 272.7  | 259.9  | 258.5  | 248.5  | 233.0  | 204.1  | 188.5  | 183.2  | 180.8  | 185.6  | 189.4  |
| 25°   | 238.7  | 225.8  | 220.6  | 214.4  | 197.9  | 178.0  | 168.5  | 163.9  | 161.4  | 164.3  | 166.7  |
| 27.5° | 210.3  | 198.4  | 193.7  | 189.4  | 173.3  | 159.1  | 151.5  | 147.3  | 145.3  | 146.3  | 148.7  |
| 30°   | 188.9  | 178.5  | 172.3  | 167.1  | 153.4  | 143.5  | 136.8  | 132.6  | 130.7  | 130.7  | 133.0  |
| 32.5° | 166.7  | 161.0  | 155.3  | 148.7  | 135.9  | 129.3  | 122.6  | 117.9  | 116.0  | 116.4  | 118.4  |
| 35°   | 138.7  | 136.8  | 138.2  | 132.1  | 121.2  | 115.5  | 108.9  | 103.7  | 102.3  | 102.7  | 104.6  |
| 37.5° | 123.1  | 114.6  | 119.8  | 116.4  | 110.3  | 102.7  | 94.2   | 89.5   | 87.1   | 88.5   | 89.5   |
| 40°   | 113.2  | 102.7  | 98.9   | 102.3  | 101.4  | 89.1   | 81.4   | 76.7   | 74.8   | 75.3   | 76.2   |
| 42.5° | 104.6  | 92.3   | 83.8   | 83.4   | 89.1   | 77.7   | 69.6   | 65.3   | 63.0   | 63.0   | 63.9   |
| 45°   | 96.6   | 83.4   | 72.9   | 64.8   | 74.8   | 65.8   | 58.2   | 54.4   | 51.6   | 51.6   | 52.1   |
| 47.5° | 90.5   | 75.7   | 63.4   | 53.0   | 56.4   | 53.9   | 47.8   | 44.1   | 41.2   | 41.2   | 41.6   |
| 50°   | 84.8   | 68.2   | 55.0   | 44.5   | 42.1   | 44.5   | 38.8   | 34.6   | 32.7   | 32.2   | 33.2   |
| 52.5° | 78.6   | 60.6   | 46.9   | 37.9   | 33.2   | 33.6   | 30.3   | 27.5   | 25.1   | 25.1   | 26.1   |
| 55°   | 72.5   | 54.4   | 40.7   | 32.2   | 27.5   | 25.1   | 24.1   | 22.3   | 20.4   | 20.4   | 21.3   |
| 57.5° | 66.3   | 47.8   | 34.6   | 26.5   | 21.8   | 19.8   | 19.8   | 18.4   | 17.0   | 17.0   | 18.0   |
| 60°   | 60.6   | 41.2   | 28.4   | 21.8   | 17.0   | 16.6   | 17.0   | 15.6   | 14.7   | 14.7   | 15.6   |
| 62.5° | 53.9   | 35.0   | 23.2   | 18.0   | 13.7   | 13.2   | 14.7   | 13.7   | 12.8   | 12.8   | 13.7   |
| 65°   | 45.9   | 29.8   | 18.4   | 13.7   | 10.4   | 10.4   | 12.3   | 11.4   | 10.4   | 10.4   | 11.4   |
| 67.5° | 38.8   | 25.1   | 14.2   | 10.0   | 7.5    | 8.0    | 10.4   | 9.5    | 9.0    | 9.0    | 10.0   |
| 70°   | 32.2   | 19.4   | 10.0   | 6.1    | 4.3    | 6.1    | 8.0    | 8.0    | 8.0    | 8.0    | 9.0    |
| 72.5° | 24.1   | 13.2   | 5.7    | 2.3    | 1.9    | 4.3    | 6.6    | 7.5    | 7.1    | 7.1    | 8.5    |
| 75°   | 15.6   | 7.5    | 1.9    | 0.0    | 0.0    | 2.3    | 5.2    | 6.1    | 6.1    | 5.7    | 7.1    |
| 77.5° | 9.0    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    | 2.8    | 2.3    | 1.9    | 3.4    |
| 80°   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P382890

CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 | 3353.0 |
| 2.5°  | 2954.4 | 3010.2 | 3088.8 | 3172.1 | 3300.5 | 3402.3 | 3502.2 | 3587.9 | 3621.0 | 3634.7 |
| 5°    | 2338.4 | 2420.3 | 2535.4 | 2683.0 | 2914.6 | 3122.9 | 3334.1 | 3546.7 | 3639.0 | 3662.2 |
| 7.5°  | 1677.9 | 1782.5 | 1928.9 | 2114.0 | 2385.2 | 2655.1 | 2950.1 | 3262.1 | 3405.1 | 3441.0 |
| 10°   | 1241.8 | 1369.7 | 1537.3 | 1732.4 | 1991.4 | 2268.8 | 2590.3 | 2946.8 | 3110.2 | 3157.9 |
| 12.5° | 881.1  | 1054.0 | 1278.4 | 1515.5 | 1739.9 | 1987.5 | 2312.8 | 2705.8 | 2877.2 | 2928.8 |
| 15°   | 517.5  | 684.6  | 950.2  | 1267.9 | 1555.3 | 1806.3 | 2136.7 | 2582.2 | 2771.2 | 2823.2 |
| 17.5° | 296.9  | 380.2  | 580.9  | 935.1  | 1325.2 | 1672.7 | 2081.3 | 2613.0 | 2835.5 | 2883.8 |
| 20°   | 226.7  | 253.3  | 334.7  | 602.2  | 1056.3 | 1541.5 | 2081.3 | 2787.2 | 3061.3 | 3132.4 |
| 22.5° | 198.4  | 217.8  | 251.0  | 359.4  | 777.4  | 1401.0 | 2105.5 | 3039.1 | 3397.5 | 3476.1 |
| 25°   | 176.2  | 193.7  | 222.1  | 270.3  | 530.2  | 1233.8 | 2162.8 | 3348.3 | 3793.4 | 3895.1 |
| 27.5° | 157.6  | 174.2  | 199.8  | 236.7  | 362.7  | 1032.2 | 2239.9 | 3710.9 | 4229.9 | 4311.3 |
| 30°   | 141.1  | 156.7  | 179.9  | 206.0  | 279.8  | 803.5  | 2305.8 | 4052.8 | 4572.6 | 4660.3 |
| 32.5° | 125.5  | 139.6  | 160.5  | 179.9  | 229.2  | 594.1  | 2312.8 | 4323.6 | 4857.2 | 4944.3 |
| 35°   | 110.8  | 123.6  | 142.5  | 157.6  | 189.8  | 469.2  | 2202.6 | 4558.4 | 5141.7 | 5256.8 |
| 37.5° | 96.6   | 108.9  | 125.5  | 136.8  | 167.1  | 382.6  | 2033.9 | 4820.2 | 5506.8 | 5613.3 |
| 40°   | 83.4   | 94.2   | 111.2  | 118.9  | 158.2  | 294.0  | 1850.7 | 5094.8 | 5864.7 | 5962.2 |
| 42.5° | 71.0   | 81.4   | 98.0   | 112.7  | 138.7  | 219.7  | 1652.8 | 5352.4 | 6186.6 | 6288.9 |
| 45°   | 59.2   | 70.1   | 86.6   | 119.3  | 115.0  | 164.3  | 1441.2 | 5523.3 | 6440.9 | 6552.1 |
| 47.5° | 47.8   | 60.1   | 82.8   | 113.6  | 91.9   | 120.7  | 1273.6 | 5685.2 | 6633.6 | 6743.4 |
| 50°   | 38.4   | 50.7   | 93.2   | 101.4  | 75.3   | 92.3   | 1203.6 | 5830.1 | 6760.0 | 6865.6 |
| 52.5° | 31.2   | 42.6   | 88.0   | 77.7   | 63.0   | 76.2   | 1241.4 | 6064.9 | 6877.0 | 6943.2 |
| 55°   | 26.1   | 33.6   | 53.0   | 53.9   | 53.5   | 64.8   | 1288.2 | 6402.1 | 7179.4 | 7210.7 |
| 57.5° | 22.7   | 27.0   | 36.9   | 41.6   | 45.0   | 57.8   | 1289.3 | 6885.9 | 7647.7 | 7667.1 |
| 60°   | 19.4   | 23.7   | 30.7   | 33.6   | 38.8   | 51.6   | 1242.3 | 7055.0 | 7831.9 | 7896.3 |
| 62.5° | 17.0   | 20.9   | 25.5   | 27.9   | 32.7   | 46.4   | 1132.5 | 6810.2 | 7579.1 | 7688.4 |
| 65°   | 15.2   | 18.9   | 21.3   | 23.7   | 28.9   | 41.6   | 951.7  | 6320.6 | 7159.6 | 7273.7 |
| 67.5° | 13.2   | 16.6   | 18.9   | 21.3   | 26.1   | 36.9   | 700.7  | 5752.0 | 6678.1 | 6772.8 |
| 70°   | 11.8   | 14.7   | 17.0   | 18.9   | 22.7   | 31.2   | 425.2  | 4880.8 | 6012.4 | 6051.7 |
| 72.5° | 11.4   | 13.2   | 15.6   | 17.0   | 19.8   | 27.5   | 215.5  | 3586.9 | 4806.5 | 4870.4 |
| 75°   | 10.0   | 11.8   | 14.2   | 15.2   | 17.5   | 23.7   | 87.6   | 2355.9 | 3483.2 | 3586.0 |
| 77.5° | 8.0    | 10.9   | 12.8   | 13.7   | 15.2   | 19.4   | 44.5   | 1505.6 | 2444.5 | 2510.7 |
| 80°   | 2.8    | 8.0    | 10.9   | 11.4   | 12.8   | 14.2   | 29.3   | 824.3  | 1418.0 | 1446.4 |
| 82.5° | 0.0    | 5.2    | 8.5    | 8.0    | 9.0    | 10.9   | 18.9   | 392.0  | 936.0  | 946.5  |
| 85°   | 0.0    | 2.3    | 6.6    | 5.2    | 3.8    | 7.5    | 6.6    | 85.7   | 491.0  | 511.3  |
| 87.5° | 0.0    | 0.0    | 0.5    | 2.3    | 1.9    | 2.8    | 0.9    | 0.5    | 44.5   | 56.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

All Brands

Data applicable to all product families using SA light engines

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2101-121-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 03/04/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **IFLD-S-SA2A-735-U-T2**  
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3388   | CRI (Ra): | 73.1 |      |       |
| CIE u':                   | 0.2371 | R1:       | 68.9 | R9:  | -34.6 |
| CIE v':                   | 0.5177 | R2:       | 81.1 | R10: | 57.8  |
| Duv:                      | 0.0032 | R3:       | 93.1 | R11: | 68.6  |
| CIE x:                    | 0.4153 | R4:       | 71.6 | R12: | 53.9  |
| CIE y:                    | 0.4030 | R5:       | 69.4 | R13: | 70.9  |
| CIE z:                    | 0.1817 | R6:       | 75.0 | R14: | 96.2  |
| Peak Wavelength (nm):     | 590    | R7:       | 79.5 |      |       |
| Dominant Wavelength (nm): | 580    | R8:       | 46.4 |      |       |
| Purity:                   | 45.7   |           |      |      |       |
| Rf:                       | 76.9   |           |      |      |       |
| Rg:                       | 94.4   |           |      |      |       |



### Test Conditions

Stabilization Time: 81M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0/30%  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2101-121-7

**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-7

### Photopic Flux vs. Wavelength



#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 4.9              | 620       | 136720           | 35.6             | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 8.0              | 625       | 126308           | 27.9             | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 12.1             | 630       | 114625           | 20.7             | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 18.1             | 635       | 103216           | 15.5             | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 25.4             | 640       | 92605            | 11.1             | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 33.9             | 645       | 83234            | 8.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 43.0             | 650       | 73263            | 5.4              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 50.1             | 655       | 64627            | 3.7              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 57.9             | 660       | 56614            | 2.4              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 64.0             | 665       | 49537            | 1.6              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.0              | 540       | 107316           | 69.9             | 670       | 42866            | 0.9              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.0              | 545       | 113101           | 75.3             | 675       | 36708            | 0.6              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 0.0              | 550       | 120690           | 82.0             | 680       | 31814            | 0.4              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 0.1              | 555       | 128583           | 87.8             | 685       | 27485            | 0.2              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 0.3              | 560       | 137796           | 93.6             | 690       | 23698            | 0.1              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 0.8              | 565       | 146577           | 97.5             | 695       | 20309            | 0.1              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 1.6              | 570       | 154581           | 100.5            | 700       | 17890            | 0.1              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 2.4              | 575       | 162633           | 101.2            | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 2.5              | 580       | 168101           | 99.9             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 2.1              | 585       | 173145           | 96.2             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 1.8              | 590       | 174675           | 90.3             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 1.7              | 595       | 173724           | 82.3             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 1.5              | 600       | 171241           | 73.8             | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 1.7              | 605       | 165134           | 64.0             | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 2.2              | 610       | 156652           | 53.8             | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 3.3              | 615       | 147879           | 44.6             | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-7

### Scotopic Flux vs. Wavelength



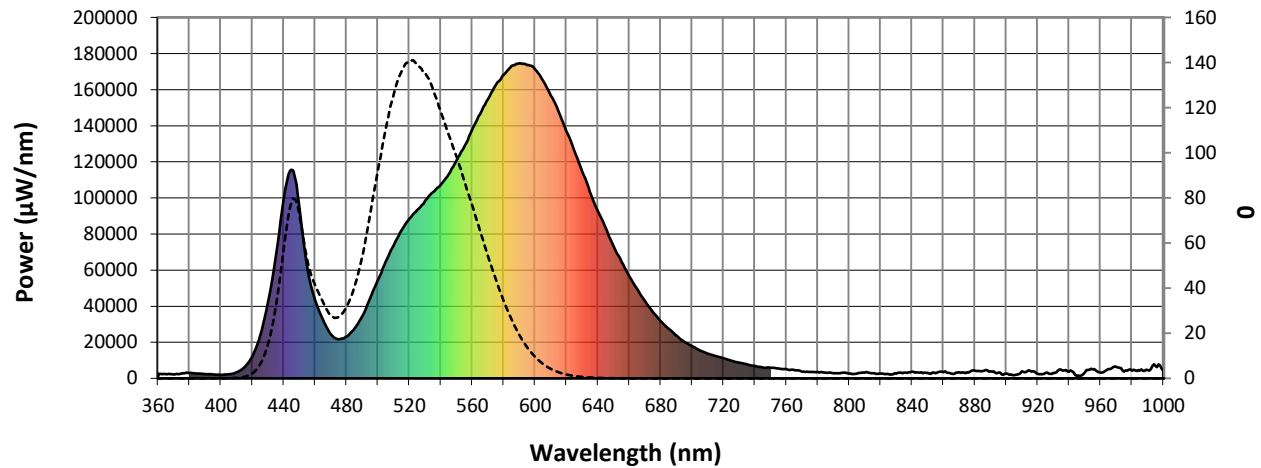
Scotopic Lumens: 12126

S/P: 1.36

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 53.2             | 620       | 136720           | 1.7              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 71.7             | 625       | 126308           | 1.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 91.4             | 630       | 114625           | 0.6              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 110.0            | 635       | 103216           | 0.4              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 125.1            | 640       | 92605            | 0.2              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 135.7            | 645       | 83234            | 0.1              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 140.8            | 650       | 73263            | 0.1              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 139.6            | 655       | 64627            | 0.1              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 135.7            | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.1              | 535       | 103269           | 128.7            | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.2              | 540       | 107316           | 118.6            | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.6              | 545       | 113101           | 108.4            | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 2.0              | 550       | 120690           | 98.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 5.9              | 555       | 128583           | 87.9             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 14.3             | 560       | 137796           | 77.0             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 30.5             | 565       | 146577           | 65.8             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 55.5             | 570       | 154581           | 54.6             | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 77.4             | 575       | 162633           | 44.3             | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 73.6             | 580       | 168101           | 34.6             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 53.7             | 585       | 173145           | 26.5             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 41.9             | 590       | 174675           | 19.5             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 34.3             | 595       | 173724           | 13.9             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 27.9             | 600       | 171241           | 9.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 27.1             | 605       | 165134           | 6.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 31.3             | 610       | 156652           | 4.2              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 40.0             | 615       | 147879           | 2.7              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: 4490.7**
**M/P: 0.5**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 28.8             | 620       | 136720           | 0.1              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 36.6             | 625       | 126308           | 0.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 43.9             | 630       | 114625           | 0.0              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 49.6             | 635       | 103216           | 0.0              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 53.0             | 640       | 92605            | 0.0              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 53.5             | 645       | 83234            | 0.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 51.6             | 650       | 73263            | 0.0              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 47.3             | 655       | 64627            | 0.0              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 42.5             | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 37.2             | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.1              | 540       | 107316           | 31.4             | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.4              | 545       | 113101           | 26.3             | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 1.4              | 550       | 120690           | 21.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 3.7              | 555       | 128583           | 17.3             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 8.9              | 560       | 137796           | 13.6             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 18.2             | 565       | 146577           | 10.3             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 33.2             | 570       | 154581           | 7.6              | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 45.6             | 575       | 162633           | 5.4              | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 43.8             | 580       | 168101           | 3.8              | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 32.2             | 585       | 173145           | 2.6              | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 25.6             | 590       | 174675           | 1.7              | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 21.2             | 595       | 173724           | 1.1              | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 17.4             | 600       | 171241           | 0.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 16.6             | 605       | 165134           | 0.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 18.6             | 610       | 156652           | 0.3              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 22.7             | 615       | 147879           | 0.2              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

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### Summary

$R_f = 76.9$   
 $R_g = 94.4$   
 CIE  $R_a = 73.1$   
 $R_g = -34.6$

### Spectral Power Distribution Comparison



### Color Vector Graphics



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 |            |



Color Rendition by Hue-Angle Bin



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**Measure Comparisons**



(END OF REPORT)