

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: STREETWORKS

Report Number: P454285

Luminaire Tested: **GLAN-SA5B-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17144 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 204  
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

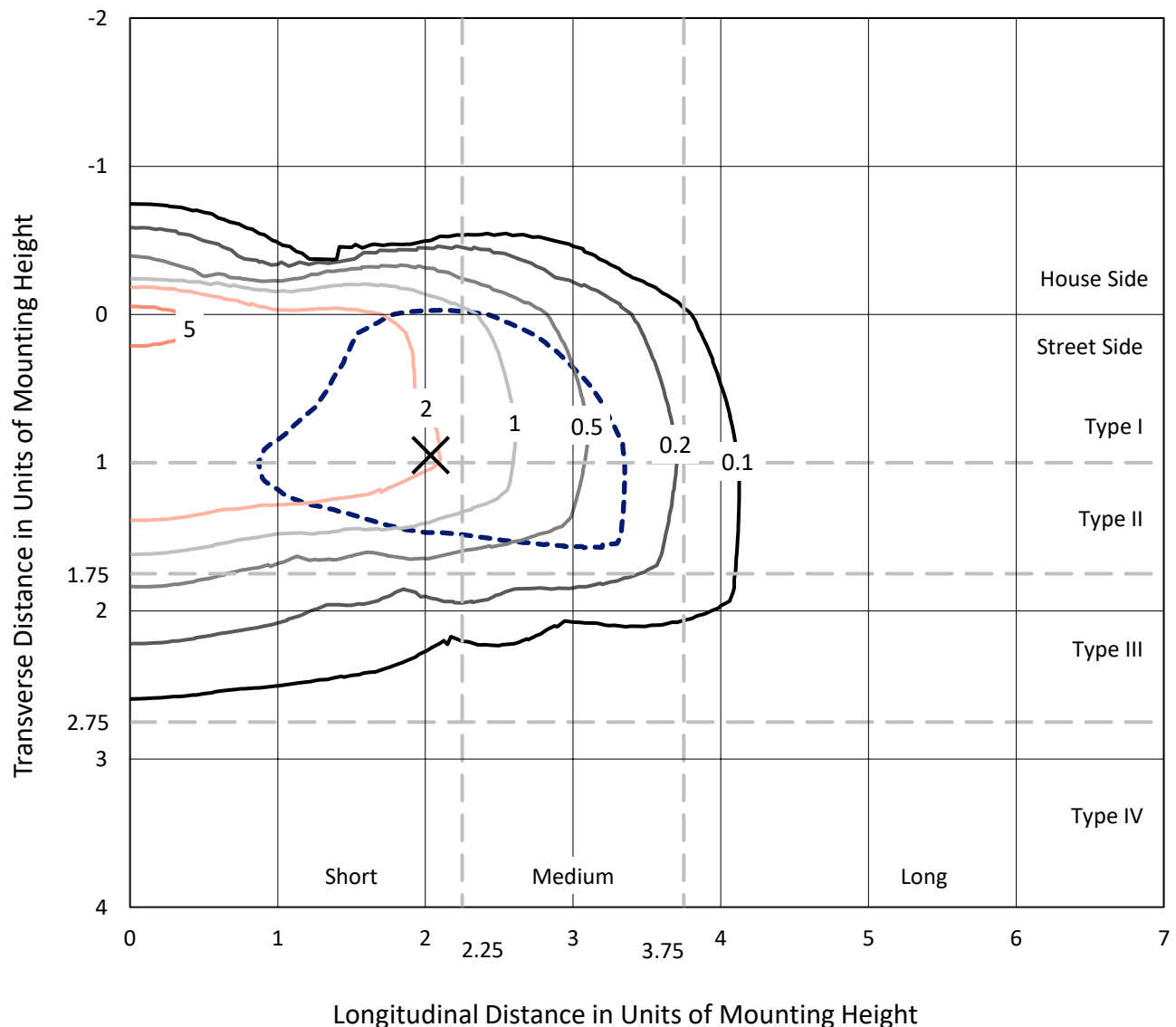


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## Iso-Footcandle Lines of Horizontal Illumination

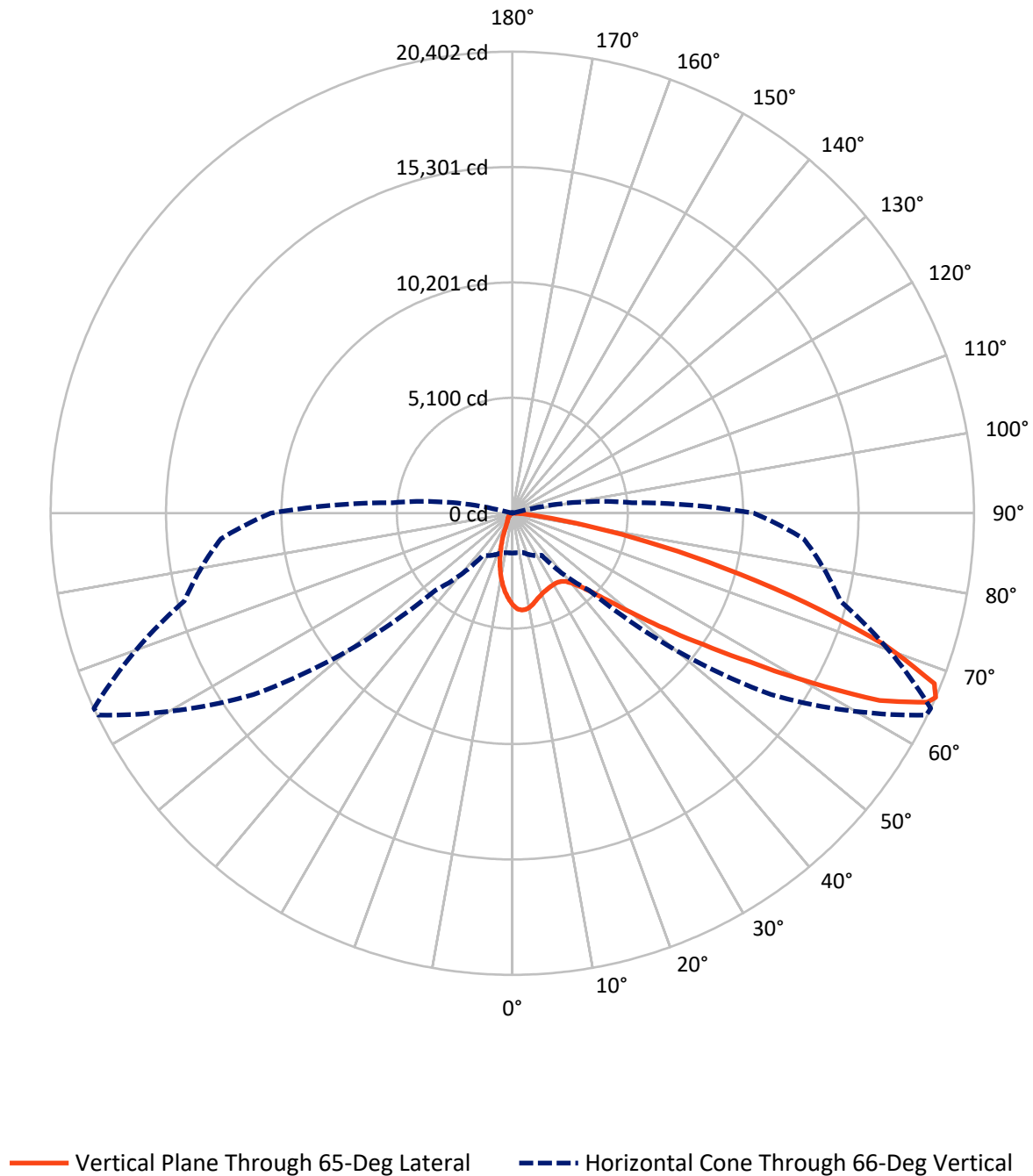
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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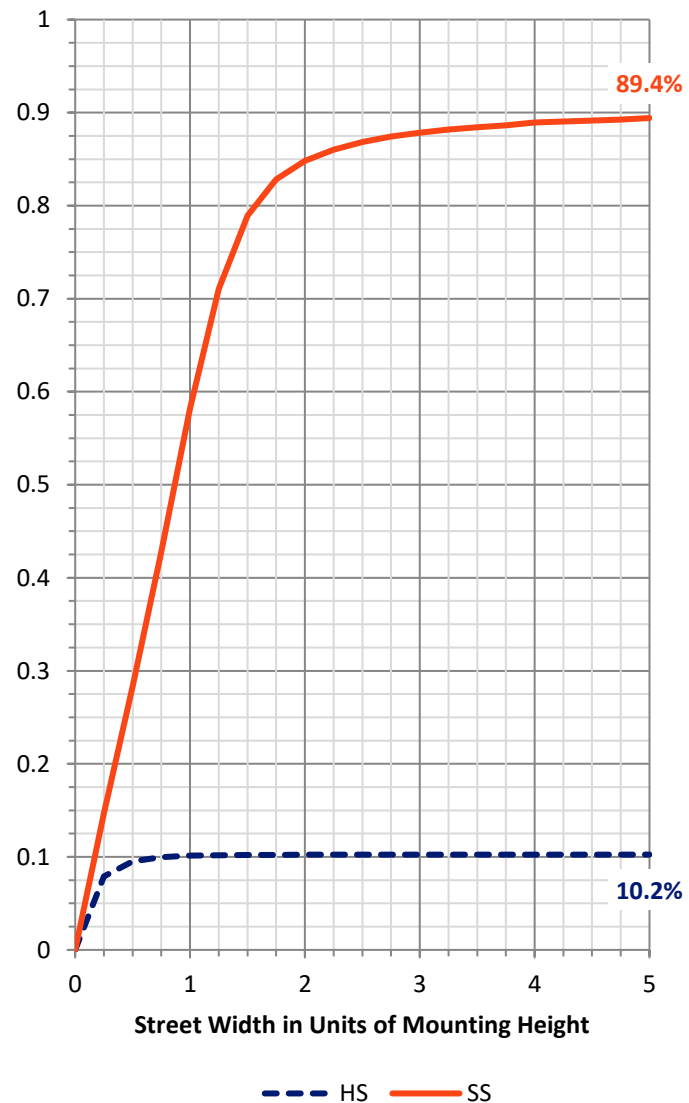
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1772.9   | 0.0    | 1772.9  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 15371.1  | 0.0    | 15371.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 17144.0  | 0.0    | 17144.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 332.5   | 1.9       |
| 10°-20°   | 724.5   | 4.2       |
| 20°-30°   | 1037.8  | 6.1       |
| 30°-40°   | 1515.8  | 8.8       |
| 40°-50°   | 2541.7  | 14.8      |
| 50°-60°   | 4241.7  | 24.7      |
| 60°-70°   | 4502.4  | 26.3      |
| 70°-80°   | 2039.1  | 11.9      |
| 80°-90°   | 208.6   | 1.2       |
| 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°    | 17144.0 | 100.0     |
| 0°-180°   | 17144.0 | 100.0     |

**Coefficient of Utilization**



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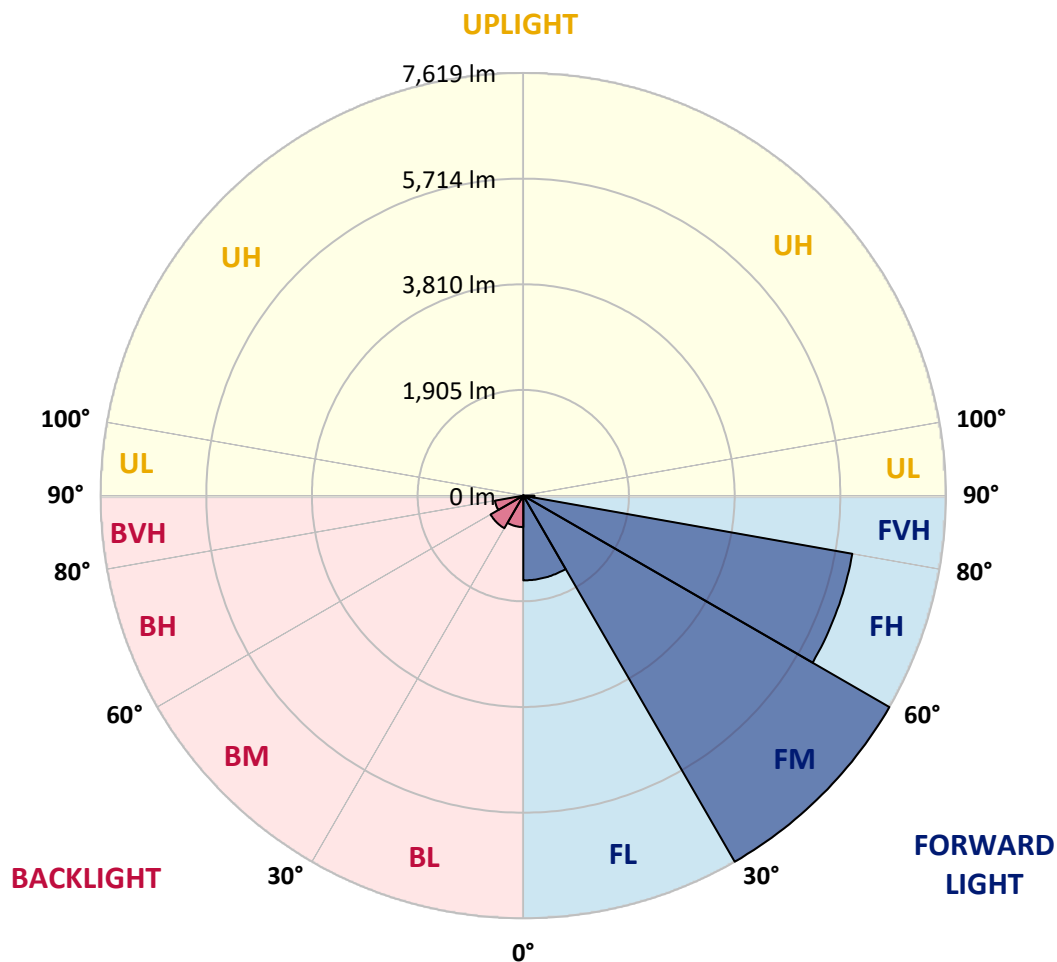
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1527.6 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 7619.2 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 6022.3 | 35.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 202.0  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 567.1  | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 679.9  | 4.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 519.2  | 3.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 6.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5  | 4065.5  | 4065.5  | 4065.5  | 4065.5  | 4065.5  |
| 2.5°  | 4284.3 | 4289.0 | 4294.7 | 4302.8 | 4308.6 | 4291.3  | 4267.0  | 4239.2  | 4233.4  | 4174.3  | 4102.5  |
| 5°    | 4055.1 | 4062.0 | 4112.9 | 4140.7 | 4203.3 | 4260.0  | 4295.9  | 4300.5  | 4298.2  | 4242.6  | 4128.0  |
| 7.5°  | 3728.5 | 3748.2 | 3798.0 | 3846.6 | 3963.6 | 4071.3  | 4198.6  | 4287.8  | 4293.6  | 4278.5  | 4136.1  |
| 10°   | 3463.4 | 3476.1 | 3501.6 | 3597.7 | 3694.9 | 3859.4  | 4037.7  | 4205.6  | 4219.5  | 4279.7  | 4129.2  |
| 12.5° | 3256.1 | 3274.6 | 3305.9 | 3380.0 | 3496.9 | 3652.1  | 3854.7  | 4080.5  | 4109.5  | 4257.7  | 4109.5  |
| 15°   | 3111.3 | 3120.6 | 3151.9 | 3224.8 | 3338.3 | 3481.9  | 3686.8  | 3949.7  | 3975.2  | 4228.7  | 4106.0  |
| 17.5° | 3043.0 | 3053.4 | 3075.4 | 3133.3 | 3227.1 | 3360.3  | 3560.6  | 3844.3  | 3876.7  | 4210.2  | 4118.7  |
| 20°   | 3061.6 | 3070.8 | 3072.0 | 3102.1 | 3165.8 | 3278.1  | 3468.0  | 3745.9  | 3787.6  | 4198.6  | 4139.6  |
| 22.5° | 3166.9 | 3168.1 | 3154.2 | 3140.3 | 3162.3 | 3243.3  | 3411.2  | 3683.4  | 3726.2  | 4196.3  | 4163.9  |
| 25°   | 3324.4 | 3327.9 | 3304.7 | 3256.1 | 3212.1 | 3253.8  | 3398.5  | 3642.8  | 3681.0  | 4190.5  | 4179.0  |
| 27.5° | 3542.1 | 3540.9 | 3534.0 | 3452.9 | 3327.9 | 3300.1  | 3408.9  | 3620.8  | 3653.3  | 4174.3  | 4184.7  |
| 30°   | 3846.6 | 3837.4 | 3822.3 | 3730.8 | 3539.8 | 3412.4  | 3452.9  | 3606.9  | 3637.0  | 4151.2  | 4169.7  |
| 32.5° | 4146.5 | 4181.3 | 4179.0 | 4092.1 | 3853.6 | 3612.7  | 3544.4  | 3625.5  | 3647.5  | 4136.1  | 4147.7  |
| 35°   | 4496.2 | 4495.1 | 4584.2 | 4551.8 | 4272.7 | 3868.6  | 3700.7  | 3686.8  | 3704.2  | 4146.5  | 4137.3  |
| 37.5° | 4820.4 | 4850.5 | 4989.5 | 5023.1 | 4768.3 | 4229.9  | 3921.9  | 3818.8  | 3824.6  | 4217.2  | 4162.7  |
| 40°   | 5224.6 | 5282.5 | 5489.7 | 5602.0 | 5377.4 | 4766.0  | 4248.4  | 4060.8  | 4062.0  | 4390.9  | 4258.8  |
| 42.5° | 5745.6 | 5837.1 | 6030.5 | 6218.1 | 6097.6 | 5400.6  | 4738.2  | 4444.1  | 4441.8  | 4696.5  | 4478.9  |
| 45°   | 6379.0 | 6442.7 | 6662.7 | 6960.3 | 6883.9 | 6286.4  | 5451.5  | 5038.1  | 5008.0  | 5197.9  | 4869.1  |
| 47.5° | 6925.5 | 7012.4 | 7235.9 | 7575.1 | 7922.5 | 7367.9  | 6303.7  | 5854.5  | 5834.8  | 5995.7  | 5538.4  |
| 50°   | 7164.1 | 7240.5 | 7475.6 | 7951.5 | 8793.3 | 8787.5  | 7572.8  | 7046.0  | 7012.4  | 7099.2  | 6573.5  |
| 52.5° | 6902.4 | 6974.2 | 7211.6 | 7804.4 | 9203.2 | 10517.4 | 9411.6  | 8540.9  | 8500.3  | 8389.2  | 7810.2  |
| 55°   | 6006.2 | 6065.2 | 6416.1 | 7096.9 | 9045.7 | 11670.7 | 11945.2 | 10387.7 | 10230.3 | 9798.4  | 9210.1  |
| 57.5° | 4782.2 | 4752.1 | 4969.8 | 5760.7 | 8121.7 | 12057.5 | 14545.9 | 12688.5 | 12407.2 | 11016.5 | 10394.7 |
| 60°   | 3314.0 | 3406.6 | 3494.6 | 4015.7 | 6106.9 | 11387.0 | 16163.5 | 15581.0 | 15210.5 | 12215.0 | 11529.5 |
| 62.5° | 2436.3 | 2497.6 | 2555.5 | 2796.4 | 3839.7 | 9092.0  | 16449.5 | 18552.3 | 18223.4 | 13487.5 | 12612.1 |
| 65°   | 1926.8 | 1931.4 | 1954.6 | 2192.0 | 2530.1 | 5912.4  | 15075.0 | 20227.8 | 20143.3 | 14712.6 | 13051.0 |
| 66°   | 1755.4 | 1756.6 | 1792.5 | 2047.2 | 2270.7 | 4814.7  | 13973.8 | 20355.2 | 20401.5 | 15006.7 | 12922.4 |
| 67.5° | 1534.3 | 1529.6 | 1581.7 | 1839.9 | 2068.1 | 3471.5  | 12003.1 | 19838.7 | 20113.2 | 15232.5 | 12460.4 |
| 70°   | 1189.2 | 1183.4 | 1247.1 | 1543.5 | 1904.8 | 2315.9  | 7978.1  | 17034.2 | 17476.6 | 14770.5 | 11024.6 |
| 72.5° | 792.0  | 796.7  | 905.5  | 1218.1 | 1817.9 | 2039.1  | 4799.6  | 12958.3 | 13583.6 | 12197.6 | 8672.9  |
| 75°   | 462.0  | 470.1  | 594.0  | 905.5  | 1578.3 | 1944.2  | 2716.5  | 9240.2  | 9639.7  | 8422.7  | 5402.9  |
| 77.5° | 242.0  | 245.5  | 332.3  | 597.5  | 1210.0 | 1805.2  | 1809.8  | 5903.1  | 6090.7  | 4093.3  | 2138.7  |
| 80°   | 128.5  | 125.1  | 178.3  | 360.1  | 832.5  | 1585.2  | 1468.2  | 3125.2  | 3249.1  | 1215.8  | 540.8   |
| 82.5° | 48.6   | 53.3   | 94.9   | 236.2  | 492.1  | 1138.2  | 1264.5  | 1381.4  | 1338.6  | 267.5   | 227.0   |
| 85°   | 9.3    | 11.6   | 40.5   | 140.1  | 247.8  | 475.9   | 932.1   | 677.4   | 627.6   | 100.7   | 130.8   |
| 87.5° | 1.2    | 2.3    | 11.6   | 33.6   | 35.9   | 161.0   | 275.6   | 187.6   | 162.1   | 37.1    | 54.4    |
| 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°    | 4065.5  | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 | 4065.5 |
| 2.5°  | 4067.8  | 4036.5 | 3932.3 | 3829.3 | 3723.9 | 3628.9 | 3564.1 | 3458.7 | 3432.1 | 3393.9 | 3371.9 |
| 5°    | 4059.7  | 3986.7 | 3786.4 | 3567.6 | 3363.8 | 3143.8 | 2975.9 | 2813.8 | 2726.9 | 2682.9 | 2666.7 |
| 7.5°  | 4036.5  | 3920.7 | 3608.1 | 3265.3 | 2938.8 | 2610.0 | 2324.0 | 2106.3 | 1966.2 | 1870.0 | 1805.2 |
| 10°   | 3990.2  | 3830.4 | 3400.8 | 2929.6 | 2436.3 | 2002.1 | 1639.6 | 1364.0 | 1151.0 | 1083.8 | 1086.1 |
| 12.5° | 3942.7  | 3729.7 | 3169.2 | 2556.7 | 1945.3 | 1397.6 | 1013.2 | 795.5  | 693.6  | 660.0  | 653.1  |
| 15°   | 3898.7  | 3633.6 | 2942.3 | 2195.4 | 1448.6 | 905.5  | 653.1  | 576.6  | 548.9  | 543.1  | 541.9  |
| 17.5° | 3875.6  | 3544.4 | 2700.3 | 1782.0 | 1010.9 | 614.9  | 523.4  | 502.5  | 494.4  | 488.6  | 486.3  |
| 20°   | 3855.9  | 3466.8 | 2468.7 | 1395.3 | 691.3  | 503.7  | 469.0  | 449.3  | 435.4  | 429.6  | 426.1  |
| 22.5° | 3842.0  | 3386.9 | 2229.0 | 1080.3 | 529.2  | 447.0  | 415.7  | 390.2  | 370.5  | 363.6  | 359.0  |
| 25°   | 3821.2  | 3298.9 | 1987.0 | 789.7  | 445.8  | 397.2  | 361.3  | 331.2  | 305.7  | 293.0  | 290.6  |
| 27.5° | 3791.0  | 3199.3 | 1721.8 | 584.8  | 398.3  | 353.2  | 309.2  | 272.1  | 246.6  | 232.7  | 233.9  |
| 30°   | 3742.4  | 3095.1 | 1456.7 | 464.3  | 360.1  | 308.0  | 260.5  | 224.6  | 200.3  | 189.9  | 188.7  |
| 32.5° | 3684.5  | 2968.9 | 1213.5 | 398.3  | 325.4  | 267.5  | 217.7  | 186.4  | 167.9  | 159.8  | 158.6  |
| 35°   | 3630.1  | 2841.5 | 965.7  | 357.8  | 289.5  | 230.4  | 183.0  | 156.3  | 142.4  | 135.5  | 136.6  |
| 37.5° | 3600.0  | 2728.1 | 752.7  | 325.4  | 260.5  | 198.0  | 157.5  | 134.3  | 121.6  | 115.8  | 114.6  |
| 40°   | 3619.7  | 2635.4 | 598.6  | 296.4  | 228.1  | 170.2  | 135.5  | 115.8  | 103.1  | 94.9   | 94.9   |
| 42.5° | 3712.3  | 2594.9 | 482.9  | 268.6  | 198.0  | 147.1  | 118.1  | 99.6   | 85.7   | 77.6   | 78.7   |
| 45°   | 3994.8  | 2637.8 | 404.1  | 243.2  | 170.2  | 127.4  | 101.9  | 82.2   | 69.5   | 63.7   | 62.5   |
| 47.5° | 4463.8  | 2798.7 | 349.7  | 216.5  | 145.9  | 108.8  | 85.7   | 68.3   | 55.6   | 50.9   | 49.8   |
| 50°   | 5283.6  | 3131.0 | 309.2  | 189.9  | 123.9  | 92.6   | 70.6   | 54.4   | 44.0   | 39.4   | 39.4   |
| 52.5° | 6411.4  | 3855.9 | 280.2  | 159.8  | 104.2  | 78.7   | 57.9   | 44.0   | 34.7   | 31.3   | 30.1   |
| 55°   | 7590.2  | 4620.1 | 265.2  | 134.3  | 86.8   | 64.8   | 46.3   | 34.7   | 26.6   | 23.2   | 22.0   |
| 57.5° | 8723.8  | 5219.9 | 247.8  | 108.8  | 69.5   | 49.8   | 35.9   | 26.6   | 18.5   | 16.2   | 15.1   |
| 60°   | 9811.1  | 5705.1 | 210.7  | 86.8   | 54.4   | 35.9   | 26.6   | 18.5   | 12.7   | 10.4   | 10.4   |
| 62.5° | 10783.8 | 5987.6 | 165.6  | 69.5   | 41.7   | 25.5   | 17.4   | 13.9   | 9.3    | 6.9    | 6.9    |
| 65°   | 10897.2 | 5620.6 | 125.1  | 53.3   | 30.1   | 16.2   | 10.4   | 10.4   | 6.9    | 4.6    | 4.6    |
| 66°   | 10669.1 | 5309.1 | 110.0  | 48.6   | 26.6   | 13.9   | 9.3    | 8.1    | 5.8    | 3.5    | 3.5    |
| 67.5° | 10159.6 | 4777.6 | 94.9   | 41.7   | 22.0   | 10.4   | 6.9    | 6.9    | 4.6    | 2.3    | 2.3    |
| 70°   | 8778.2  | 3902.2 | 75.3   | 31.3   | 16.2   | 8.1    | 4.6    | 4.6    | 3.5    | 2.3    | 2.3    |
| 72.5° | 6690.5  | 2913.3 | 61.4   | 23.2   | 11.6   | 5.8    | 3.5    | 3.5    | 3.5    | 2.3    | 2.3    |
| 75°   | 4035.4  | 1569.0 | 47.5   | 17.4   | 10.4   | 4.6    | 2.3    | 3.5    | 4.6    | 3.5    | 2.3    |
| 77.5° | 1486.8  | 533.8  | 37.1   | 13.9   | 8.1    | 4.6    | 2.3    | 2.3    | 4.6    | 3.5    | 3.5    |
| 80°   | 364.7   | 139.0  | 26.6   | 11.6   | 8.1    | 4.6    | 2.3    | 2.3    | 4.6    | 4.6    | 4.6    |
| 82.5° | 169.1   | 59.1   | 18.5   | 10.4   | 8.1    | 4.6    | 2.3    | 2.3    | 3.5    | 4.6    | 4.6    |
| 85°   | 97.3    | 27.8   | 15.1   | 11.6   | 8.1    | 4.6    | 2.3    | 2.3    | 3.5    | 4.6    | 4.6    |
| 87.5° | 39.4    | 13.9   | 13.9   | 11.6   | 9.3    | 5.8    | 2.3    | 2.3    | 2.3    | 3.5    | 3.5    |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)