

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: P530424

Luminaire Tested: **GLAN-SA5C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P530424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21709 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 269  
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

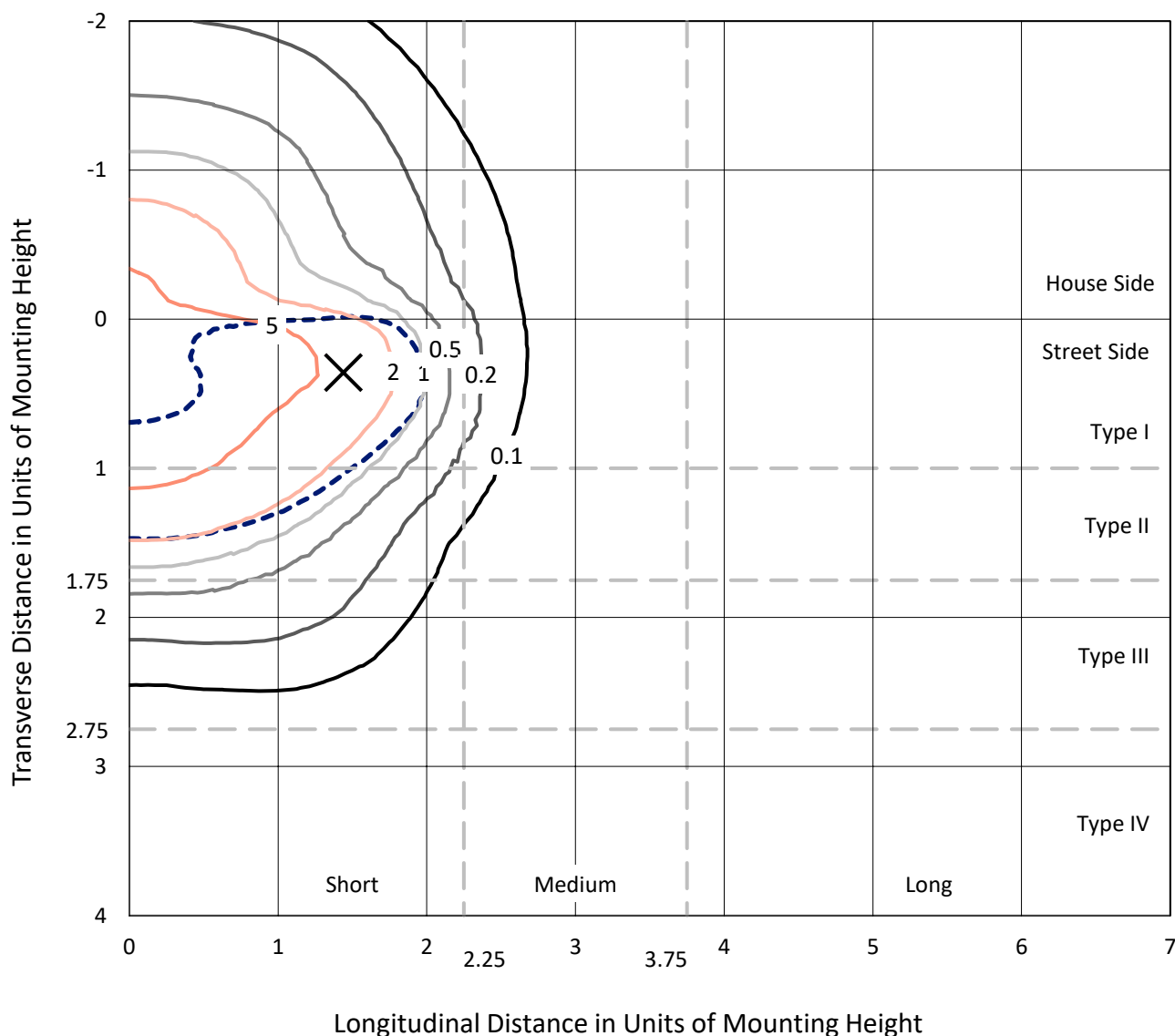


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

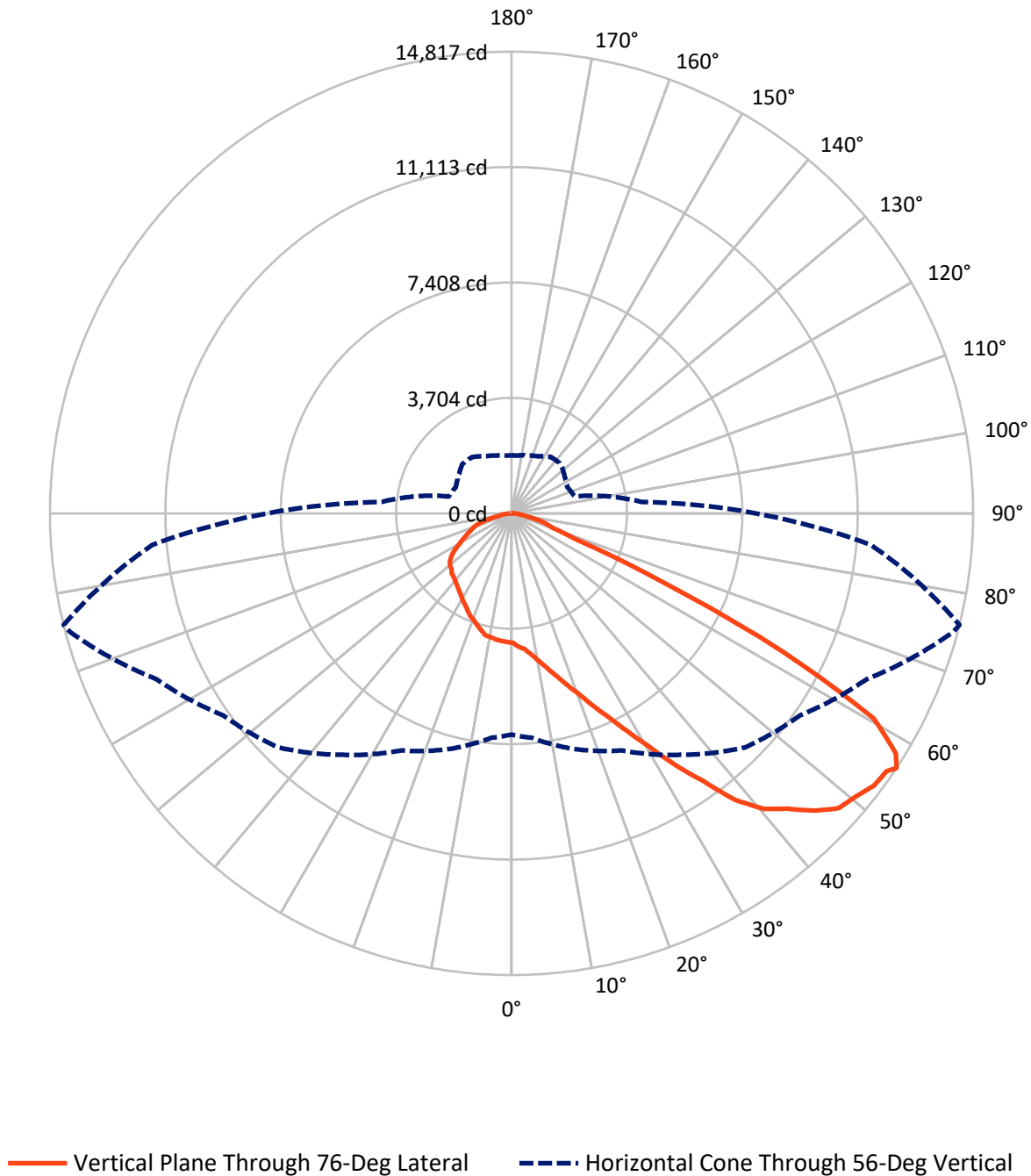
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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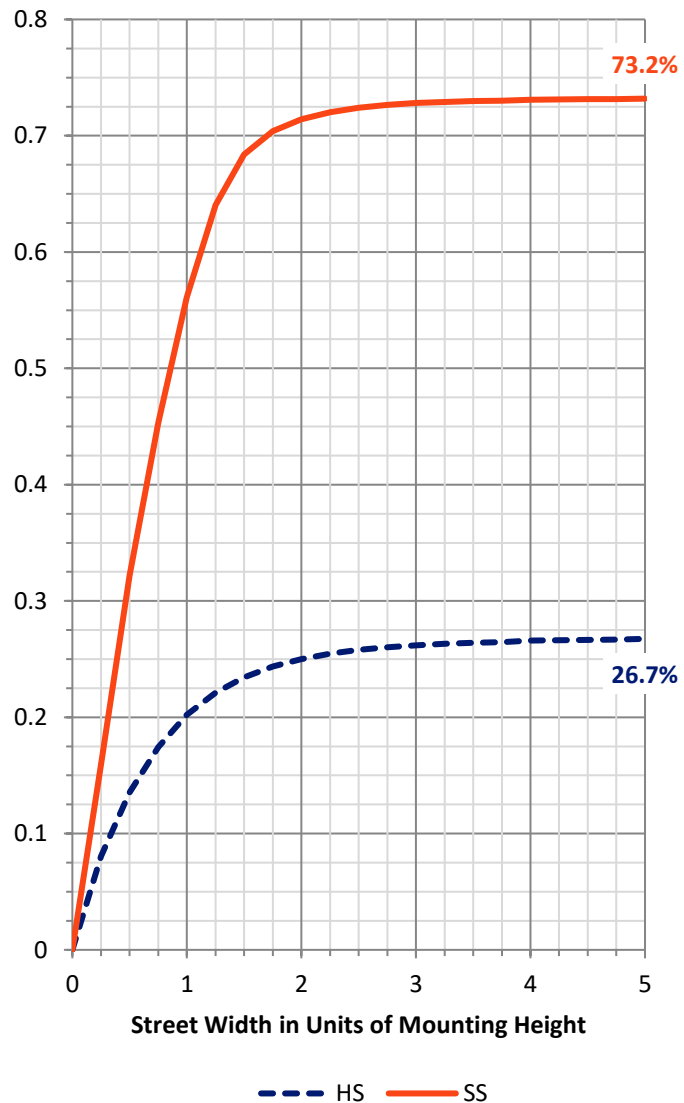
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5836.9   | 0.0    | 5836.9  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 15872.1  | 0.0    | 15872.1 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 21709.0  | 0.0    | 21709.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 411.9   | 1.9       |
| 10°-20°   | 1294.0  | 6.0       |
| 20°-30°   | 2263.0  | 10.4      |
| 30°-40°   | 3543.2  | 16.3      |
| 40°-50°   | 5154.4  | 23.7      |
| 50°-60°   | 5665.0  | 26.1      |
| 60°-70°   | 2528.6  | 11.6      |
| 70°-80°   | 730.4   | 3.4       |
| 80°-90°   | 118.5   | 0.5       |
| 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°    | 21709.0 | 100.0     |
| 0°-180°   | 21709.0 | 100.0     |

**Coefficient of Utilization**



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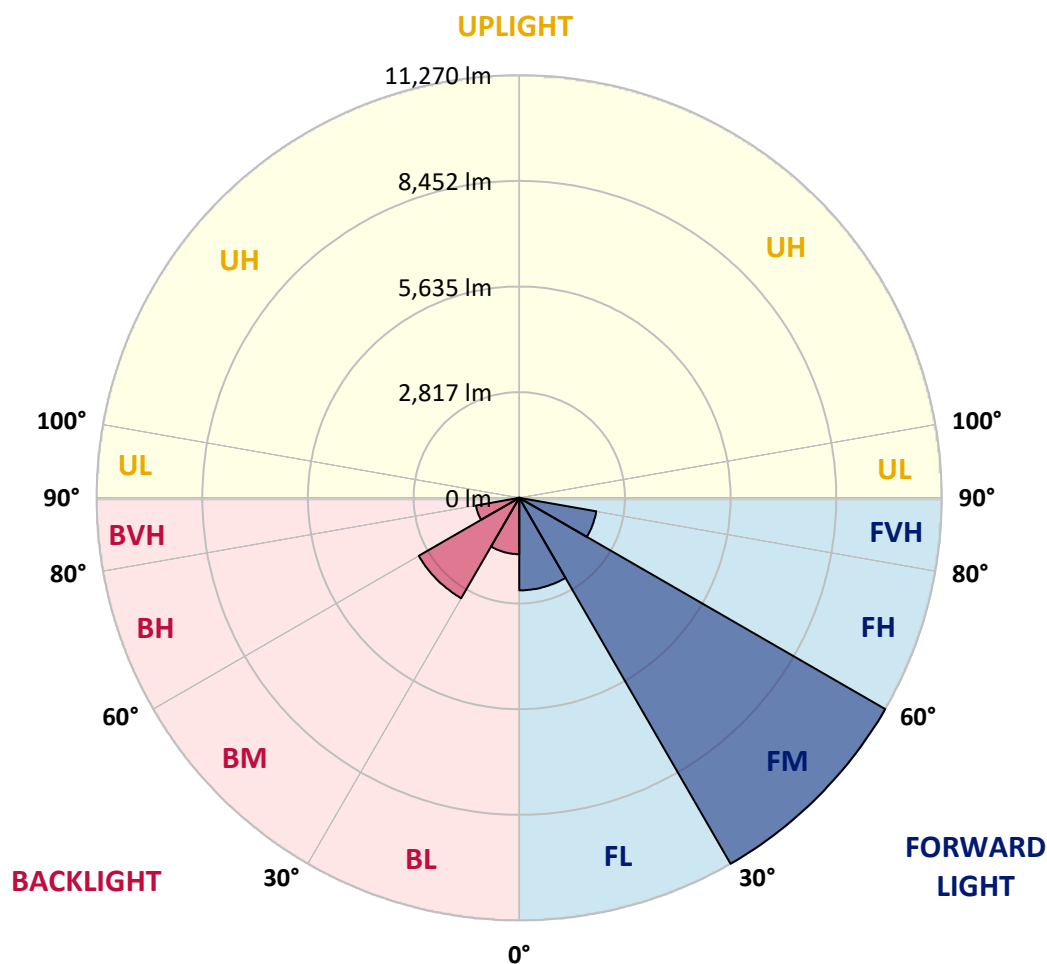
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2467.0  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 11269.5 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2084.6  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 51.0    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1501.9  | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3093.1  | 14.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1174.4  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 67.5    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  | 4153.7  |
| 2.5°  | 4575.9  | 4502.7  | 4497.1  | 4477.4  | 4488.6  | 4438.0  | 4384.5  | 4314.1  | 4241.0  | 4286.0  | 4179.1  |
| 5°    | 4896.7  | 4798.2  | 4837.6  | 4770.0  | 4778.5  | 4710.9  | 4601.2  | 4519.6  | 4429.5  | 4376.1  | 4300.1  |
| 7.5°  | 5009.3  | 5017.7  | 5045.8  | 5034.6  | 4978.3  | 4978.3  | 4905.1  | 4761.6  | 4604.0  | 4573.1  | 4446.4  |
| 10°   | 5161.2  | 5164.0  | 5133.1  | 5141.5  | 5220.3  | 5183.7  | 5119.0  | 5057.1  | 4854.5  | 4817.9  | 4592.8  |
| 12.5° | 5214.7  | 5164.0  | 5214.7  | 5259.7  | 5352.6  | 5403.2  | 5389.2  | 5344.1  | 5127.4  | 5102.1  | 4772.9  |
| 15°   | 5223.1  | 5192.2  | 5234.4  | 5335.7  | 5417.3  | 5631.2  | 5738.1  | 5707.2  | 5420.1  | 5422.9  | 4975.5  |
| 17.5° | 5183.7  | 5225.9  | 5242.8  | 5330.1  | 5518.6  | 5718.4  | 6028.0  | 6070.2  | 5833.8  | 5797.2  | 5231.6  |
| 20°   | 5237.2  | 5206.2  | 5228.8  | 5307.6  | 5558.0  | 5870.4  | 6275.6  | 6554.2  | 6222.2  | 6196.8  | 5496.1  |
| 22.5° | 5442.6  | 5400.4  | 5394.8  | 5445.4  | 5625.6  | 5949.2  | 6537.4  | 7038.3  | 6694.9  | 6709.0  | 5825.4  |
| 25°   | 5603.0  | 5625.6  | 5605.9  | 5603.0  | 5715.6  | 6067.4  | 6883.5  | 7615.2  | 7336.6  | 7255.0  | 6213.7  |
| 27.5° | 5878.8  | 5932.3  | 5892.9  | 5946.4  | 5921.0  | 6244.7  | 7131.1  | 8254.0  | 8028.9  | 7919.1  | 6565.5  |
| 30°   | 6261.6  | 6289.7  | 6253.1  | 6253.1  | 6177.1  | 6492.3  | 7356.3  | 8921.0  | 8828.1  | 8678.9  | 6979.2  |
| 32.5° | 6765.3  | 6807.5  | 6734.3  | 6692.1  | 6680.9  | 6861.0  | 7761.5  | 9579.5  | 9737.1  | 9610.4  | 7527.9  |
| 35°   | 7432.3  | 7406.9  | 7319.7  | 7280.3  | 7128.3  | 7426.6  | 8363.8  | 10336.5 | 10750.2 | 10525.1 | 8192.1  |
| 37.5° | 8020.4  | 7981.0  | 7975.4  | 7755.9  | 7792.5  | 8037.3  | 8875.9  | 10910.6 | 11732.3 | 11667.6 | 8892.8  |
| 40°   | 8569.2  | 8605.8  | 8664.9  | 8541.1  | 8484.8  | 8754.9  | 9472.5  | 11349.6 | 12495.0 | 12469.7 | 9433.2  |
| 42.5° | 9157.4  | 9123.6  | 9227.7  | 9123.6  | 9039.2  | 9421.9  | 10119.8 | 11653.5 | 13164.8 | 12956.5 | 9998.8  |
| 45°   | 10010.1 | 9903.1  | 9939.7  | 9948.1  | 9886.2  | 10026.9 | 10387.2 | 11873.1 | 13634.7 | 13612.2 | 10412.5 |
| 47.5° | 10722.0 | 10724.9 | 10663.0 | 10615.1 | 10426.6 | 10567.3 | 10685.5 | 12010.9 | 14175.1 | 14138.5 | 10572.9 |
| 50°   | 10986.6 | 10950.0 | 11130.1 | 11234.2 | 11245.5 | 10958.4 | 10919.0 | 12086.9 | 14459.3 | 14298.9 | 10733.3 |
| 52.5° | 10035.4 | 10069.2 | 10353.4 | 10972.5 | 11329.9 | 11360.9 | 11192.0 | 12244.5 | 14574.7 | 14540.9 | 10862.8 |
| 55°   | 8076.7  | 8239.9  | 8707.1  | 9421.9  | 10269.0 | 11200.5 | 11487.5 | 12407.7 | 14636.6 | 14608.4 | 11436.9 |
| 56°   | 7100.2  | 7226.8  | 7834.7  | 8394.7  | 9458.5  | 10617.9 | 11301.8 | 12582.2 | 14684.4 | 14816.7 | 11571.9 |
| 57.5° | 5715.6  | 5861.9  | 6298.1  | 6934.2  | 8189.3  | 9509.1  | 10789.6 | 12368.3 | 14498.7 | 14549.3 | 11670.4 |
| 60°   | 3574.0  | 3588.1  | 4111.5  | 4530.8  | 5414.5  | 6703.4  | 8234.3  | 10761.4 | 13418.0 | 13344.9 | 10482.8 |
| 62.5° | 2344.2  | 2347.0  | 2822.6  | 3166.0  | 3568.4  | 3863.9  | 4846.0  | 7136.8  | 9900.3  | 9770.9  | 7463.2  |
| 65°   | 1646.3  | 1682.9  | 2051.5  | 2510.3  | 2673.5  | 2518.7  | 2487.7  | 3762.6  | 5529.9  | 5344.1  | 4010.2  |
| 67.5° | 1204.5  | 1207.3  | 1533.7  | 2026.2  | 2262.6  | 1916.5  | 1556.2  | 1837.7  | 2189.4  | 2183.8  | 1857.4  |
| 70°   | 796.4   | 830.2   | 1080.6  | 1514.0  | 1784.2  | 1539.4  | 1272.0  | 1314.2  | 1393.0  | 1393.0  | 1381.8  |
| 72.5° | 464.3   | 495.3   | 661.3   | 959.6   | 1001.9  | 962.5   | 1007.5  | 1125.7  | 1176.3  | 1173.5  | 1159.4  |
| 75°   | 264.5   | 278.6   | 315.2   | 399.6   | 498.1   | 588.2   | 740.1   | 852.7   | 903.4   | 934.3   | 897.7   |
| 77.5° | 154.8   | 163.2   | 185.7   | 227.9   | 258.9   | 318.0   | 402.4   | 481.2   | 548.8   | 540.3   | 546.0   |
| 80°   | 81.6    | 81.6    | 104.1   | 135.1   | 180.1   | 225.1   | 267.3   | 312.4   | 349.0   | 357.4   | 365.8   |
| 82.5° | 47.8    | 50.7    | 67.5    | 98.5    | 129.5   | 160.4   | 205.4   | 236.4   | 270.2   | 273.0   | 278.6   |
| 85°   | 25.3    | 28.1    | 42.2    | 64.7    | 87.2    | 98.5    | 101.3   | 95.7    | 104.1   | 98.5    | 112.6   |
| 87.5° | 8.4     | 8.4     | 14.1    | 11.3    | 11.3    | 14.1    | 16.9    | 16.9    | 22.5    | 22.5    | 22.5    |
| 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°    | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 | 4153.7 |
| 2.5°  | 4176.3 | 4176.3 | 4128.4 | 4038.4 | 4024.3 | 3987.7 | 3953.9 | 3951.1 | 3925.8 | 3903.3 | 3892.0 |
| 5°    | 4255.0 | 4167.8 | 4097.5 | 4015.8 | 3920.2 | 3875.1 | 3824.5 | 3768.2 | 3745.7 | 3768.2 | 3765.4 |
| 7.5°  | 4345.1 | 4271.9 | 4060.9 | 3908.9 | 3799.2 | 3754.1 | 3697.8 | 3638.7 | 3644.4 | 3644.4 | 3605.0 |
| 10°   | 4432.3 | 4333.8 | 3996.1 | 3802.0 | 3641.6 | 3607.8 | 3576.8 | 3599.3 | 3627.5 | 3633.1 | 3607.8 |
| 12.5° | 4578.7 | 4356.4 | 3965.2 | 3695.0 | 3593.7 | 3520.5 | 3540.2 | 3602.2 | 3661.3 | 3644.4 | 3664.1 |
| 15°   | 4688.4 | 4376.1 | 3824.5 | 3585.3 | 3458.6 | 3492.4 | 3562.8 | 3605.0 | 3703.5 | 3692.2 | 3711.9 |
| 17.5° | 4795.4 | 4387.3 | 3686.6 | 3438.9 | 3385.5 | 3478.3 | 3531.8 | 3652.8 | 3683.8 | 3751.3 | 3776.6 |
| 20°   | 5014.9 | 4409.8 | 3545.9 | 3348.9 | 3332.0 | 3438.9 | 3531.8 | 3588.1 | 3655.6 | 3714.7 | 3714.7 |
| 22.5° | 5127.4 | 4398.6 | 3453.0 | 3230.7 | 3284.2 | 3351.7 | 3436.1 | 3531.8 | 3531.8 | 3588.1 | 3590.9 |
| 25°   | 5268.2 | 4353.5 | 3306.7 | 3174.4 | 3213.8 | 3278.5 | 3374.2 | 3340.4 | 3377.0 | 3377.0 | 3422.1 |
| 27.5° | 5428.6 | 4257.9 | 3180.0 | 3073.1 | 3151.9 | 3222.2 | 3236.3 | 3213.8 | 3171.6 | 3166.0 | 3149.1 |
| 30°   | 5558.0 | 4139.7 | 3087.2 | 3039.3 | 3104.0 | 3143.4 | 3098.4 | 3050.6 | 2977.4 | 2971.8 | 2932.4 |
| 32.5° | 5735.3 | 3993.3 | 2971.8 | 2954.9 | 3028.1 | 3030.9 | 3016.8 | 2943.6 | 2836.7 | 2791.7 | 2746.6 |
| 35°   | 6033.6 | 3908.9 | 2884.5 | 2909.9 | 2932.4 | 2923.9 | 2898.6 | 2819.8 | 2712.9 | 2693.2 | 2676.3 |
| 37.5° | 6253.1 | 3847.0 | 2794.5 | 2825.4 | 2845.1 | 2856.4 | 2780.4 | 2693.2 | 2696.0 | 2656.6 | 2645.3 |
| 40°   | 6500.8 | 3807.6 | 2721.3 | 2735.4 | 2738.2 | 2774.8 | 2681.9 | 2639.7 | 2659.4 | 2634.1 | 2651.0 |
| 42.5° | 6818.8 | 3818.9 | 2645.3 | 2634.1 | 2687.5 | 2673.5 | 2628.4 | 2572.2 | 2583.4 | 2507.4 | 2518.7 |
| 45°   | 6987.6 | 3894.8 | 2600.3 | 2549.7 | 2608.8 | 2605.9 | 2546.8 | 2493.4 | 2425.8 | 2279.5 | 2285.1 |
| 47.5° | 7100.2 | 3914.5 | 2493.4 | 2459.6 | 2521.5 | 2558.1 | 2490.6 | 2366.7 | 2271.0 | 2166.9 | 2141.6 |
| 50°   | 7215.6 | 3951.1 | 2442.7 | 2372.4 | 2397.7 | 2484.9 | 2400.5 | 2282.3 | 2189.4 | 2096.6 | 2110.6 |
| 52.5° | 7316.9 | 4021.5 | 2344.2 | 2240.1 | 2285.1 | 2380.8 | 2335.8 | 2192.3 | 2090.9 | 2015.0 | 1992.4 |
| 55°   | 7767.2 | 4179.1 | 2178.2 | 2043.1 | 2150.0 | 2271.0 | 2245.7 | 2071.2 | 1961.5 | 1922.1 | 1916.5 |
| 56°   | 7837.5 | 4184.7 | 2090.9 | 1975.6 | 2074.1 | 2234.5 | 2203.5 | 2017.8 | 1919.3 | 1857.4 | 1860.2 |
| 57.5° | 7848.8 | 4117.2 | 1967.1 | 1913.6 | 1998.1 | 2181.0 | 2141.6 | 1975.6 | 1840.5 | 1784.2 | 1767.3 |
| 60°   | 6906.0 | 3213.8 | 1812.3 | 1778.6 | 1877.1 | 2017.8 | 2003.7 | 1860.2 | 1708.2 | 1643.5 | 1674.4 |
| 62.5° | 4708.1 | 2355.5 | 1691.3 | 1685.7 | 1736.4 | 1874.2 | 1837.7 | 1708.2 | 1581.6 | 1539.4 | 1519.7 |
| 65°   | 2741.0 | 1787.0 | 1573.1 | 1550.6 | 1592.8 | 1666.0 | 1691.3 | 1556.2 | 1424.0 | 1395.8 | 1387.4 |
| 67.5° | 1618.2 | 1477.4 | 1421.2 | 1384.6 | 1370.5 | 1415.5 | 1435.2 | 1356.4 | 1224.2 | 1184.8 | 1218.5 |
| 70°   | 1353.6 | 1314.2 | 1317.0 | 1255.1 | 1221.4 | 1190.4 | 1173.5 | 1103.2 | 993.4  | 942.8  | 928.7  |
| 72.5° | 1167.9 | 1151.0 | 1139.7 | 1083.5 | 1052.5 | 982.2  | 909.0  | 838.6  | 757.0  | 714.8  | 717.6  |
| 75°   | 892.1  | 886.5  | 892.1  | 864.0  | 810.5  | 754.2  | 686.7  | 596.6  | 534.7  | 481.2  | 492.5  |
| 77.5° | 531.9  | 548.8  | 557.2  | 546.0  | 523.4  | 472.8  | 430.6  | 371.5  | 312.4  | 270.2  | 264.5  |
| 80°   | 365.8  | 379.9  | 394.0  | 379.9  | 357.4  | 320.8  | 275.8  | 230.8  | 188.6  | 166.0  | 160.4  |
| 82.5° | 278.6  | 292.7  | 301.1  | 287.0  | 258.9  | 219.5  | 188.6  | 157.6  | 123.8  | 101.3  | 95.7   |
| 85°   | 101.3  | 115.4  | 112.6  | 135.1  | 146.3  | 140.7  | 121.0  | 92.9   | 70.4   | 50.7   | 47.8   |
| 87.5° | 28.1   | 25.3   | 28.1   | 28.1   | 28.1   | 25.3   | 22.5   | 22.5   | 22.5   | 14.1   | 11.3   |
| 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)