

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: P383142

Luminaire Tested: **GLEON-SA4D-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383142  
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-SA4D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA 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: 21614.7 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

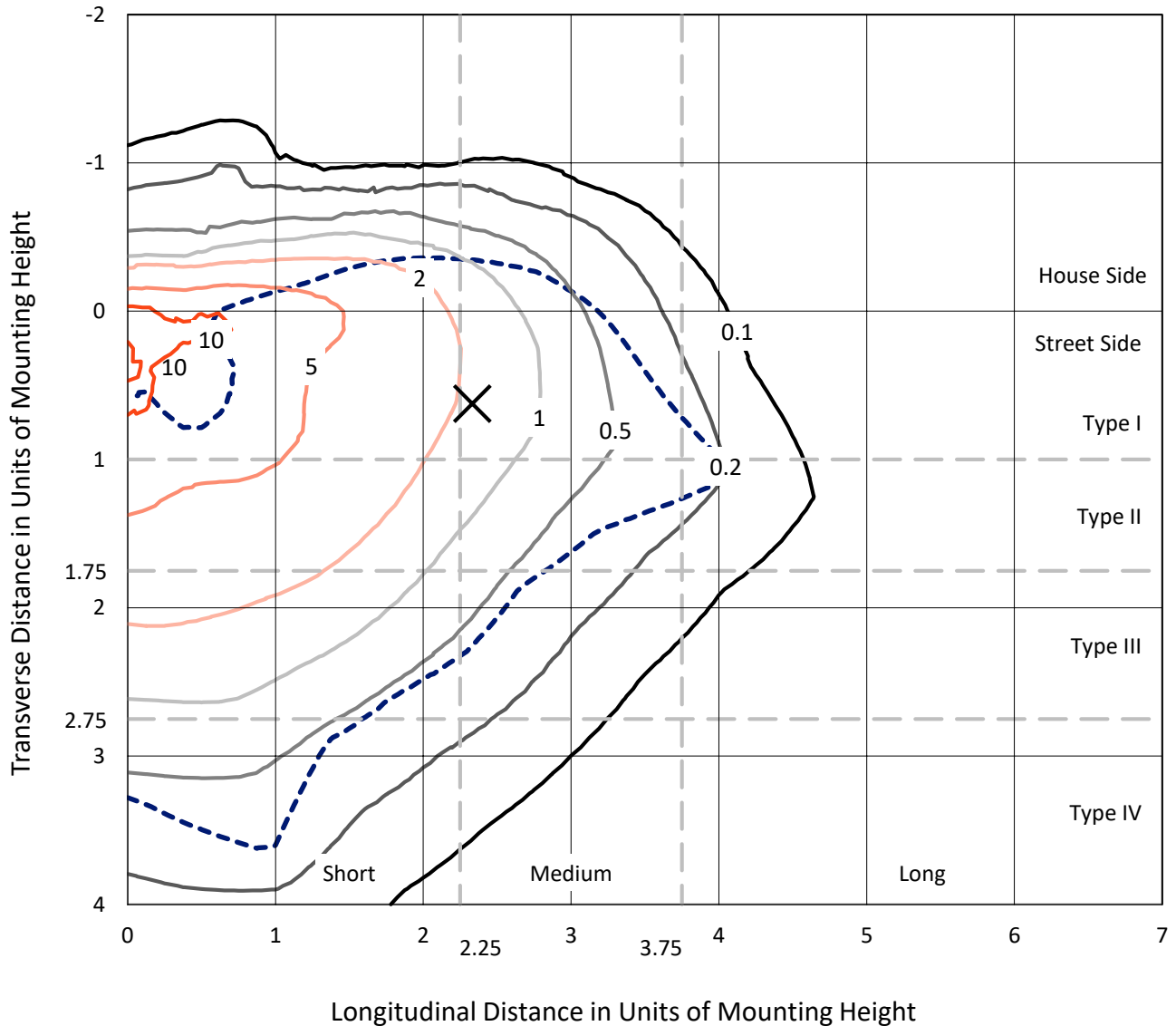
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

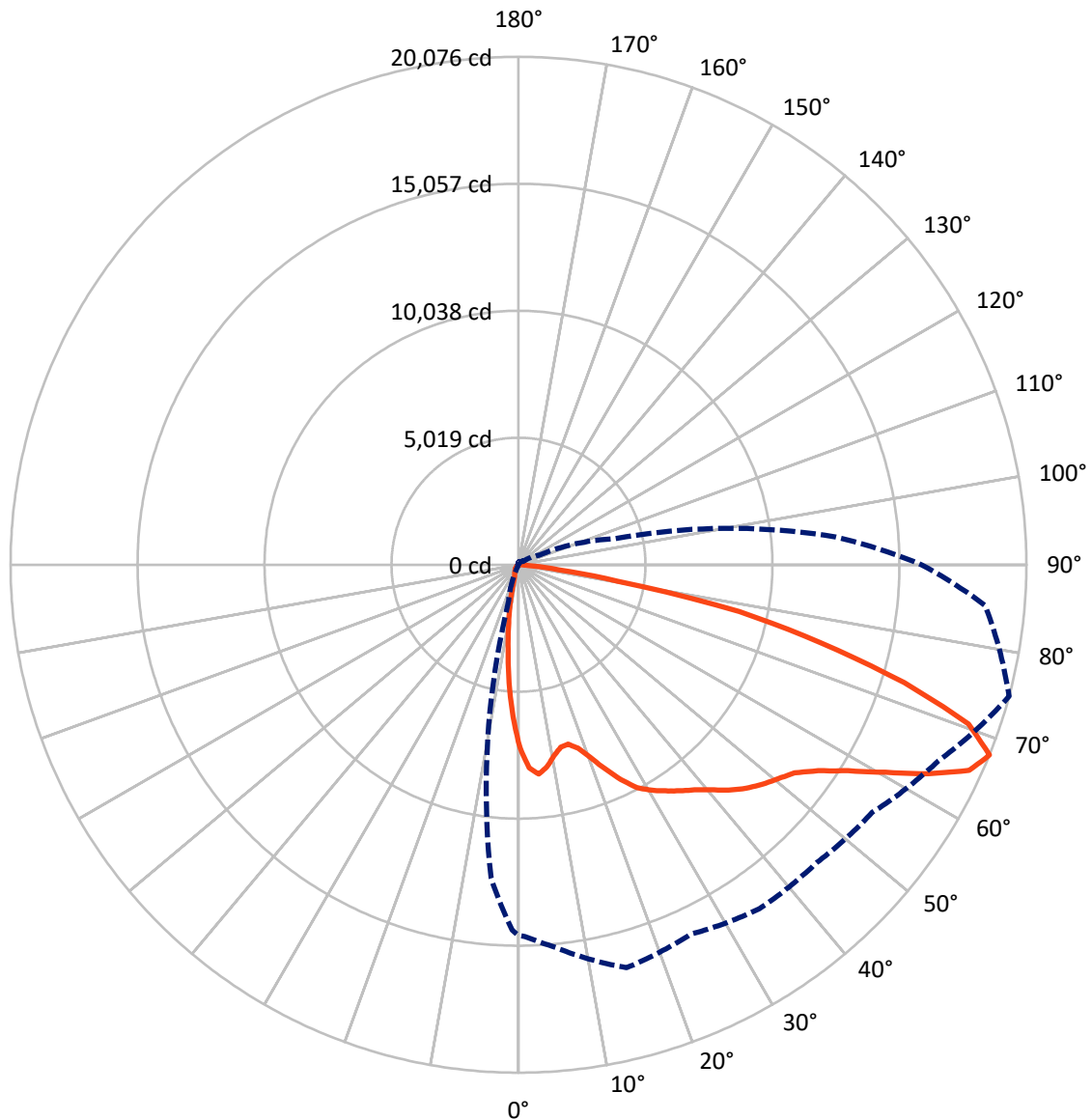
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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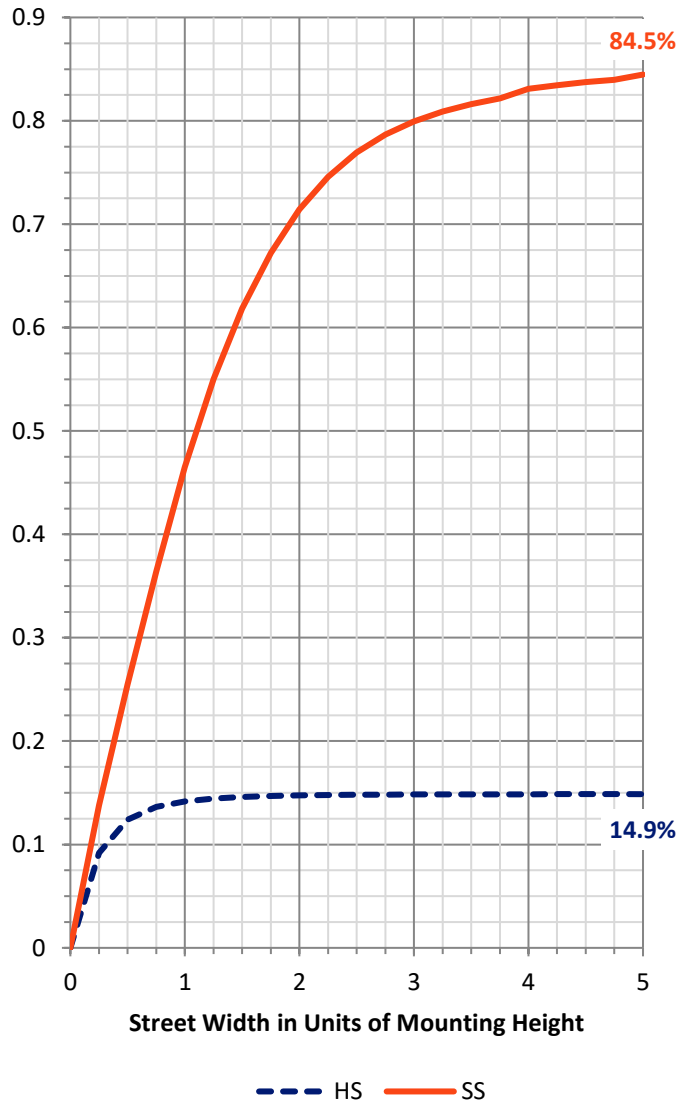
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3243.5   | 0.0    | 3243.5  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 18371.2  | 0.0    | 18371.2 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 21614.7  | 0.0    | 21614.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 550.0   | 2.5       |
| 10°-20°   | 1083.1  | 5.0       |
| 20°-30°   | 1532.2  | 7.1       |
| 30°-40°   | 2252.8  | 10.4      |
| 40°-50°   | 3238.0  | 15.0      |
| 50°-60°   | 4558.2  | 21.1      |
| 60°-70°   | 5323.6  | 24.6      |
| 70°-80°   | 2715.9  | 12.6      |
| 80°-90°   | 360.8   | 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°    | 21614.7 | 100.0     |
| 0°-180°   | 21614.7 | 100.0     |

**Coefficient of Utilization**

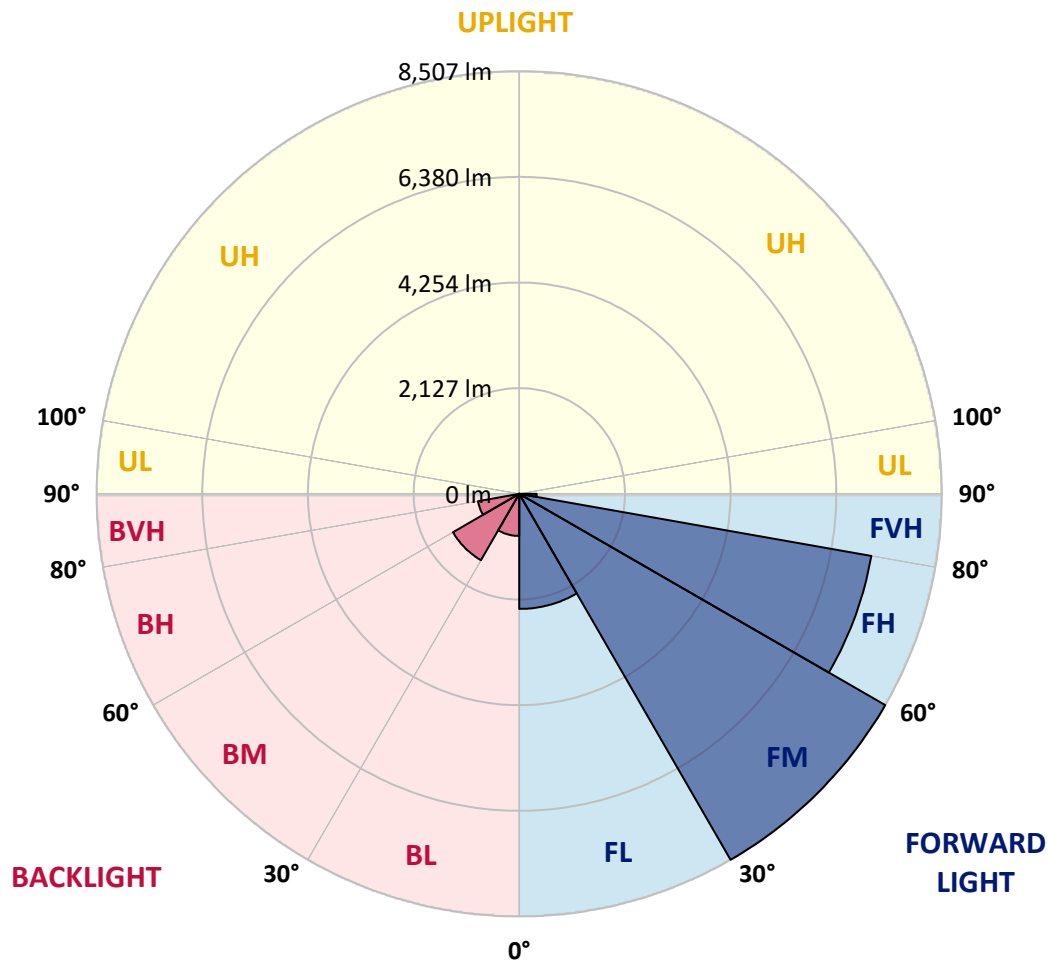


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2317.1 | 10.7      |                         |      |         |
| FM (30°-60°)   | 8507.2 | 39.4      |                         |      |         |
| FH (60°-80°)   | 7197.1 | 33.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 349.9  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 848.2  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1541.9 | 7.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 842.5  | 3.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 10.9   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  | 7251.4  |
| 2.5°  | 7860.6  | 7872.9  | 7936.3  | 8083.8  | 8244.6  | 8256.9  | 8365.4  | 8253.8  | 8215.9  | 8035.7  | 7849.3  |
| 5°    | 7920.0  | 7967.1  | 8185.1  | 8618.3  | 8994.1  | 9114.9  | 9200.9  | 8981.8  | 8751.4  | 8311.1  | 7841.1  |
| 7.5°  | 7441.9  | 7520.7  | 7863.7  | 8676.6  | 9348.4  | 9645.2  | 9701.6  | 9358.6  | 8794.4  | 8069.4  | 7363.0  |
| 10°   | 6829.5  | 6919.6  | 7333.2  | 8332.6  | 9255.2  | 9764.0  | 9841.9  | 9392.3  | 8581.4  | 7678.4  | 6845.9  |
| 12.5° | 6334.0  | 6439.4  | 6862.2  | 7945.5  | 8934.7  | 9497.9  | 9651.4  | 9278.7  | 8397.2  | 7400.9  | 6492.6  |
| 15°   | 6105.6  | 6226.5  | 6670.8  | 7695.7  | 8579.4  | 9022.7  | 9149.7  | 8989.0  | 8294.7  | 7356.8  | 6410.7  |
| 17.5° | 6236.6  | 6367.7  | 6826.5  | 7717.2  | 8245.6  | 8435.0  | 8537.4  | 8602.9  | 8294.7  | 7622.0  | 6650.3  |
| 20°   | 6774.2  | 6915.5  | 7400.9  | 7935.3  | 7969.1  | 7898.5  | 8008.0  | 8238.4  | 8391.0  | 8125.8  | 7225.7  |
| 22.5° | 7517.6  | 7683.5  | 8231.2  | 8309.0  | 7833.9  | 7566.7  | 7581.0  | 7942.5  | 8566.0  | 8764.7  | 8024.4  |
| 25°   | 8423.7  | 8626.5  | 9183.5  | 8866.1  | 7890.3  | 7369.1  | 7364.0  | 7698.8  | 8737.1  | 9404.6  | 8914.2  |
| 27.5° | 9323.8  | 9547.0  | 10036.4 | 9545.9  | 8122.7  | 7333.2  | 7323.1  | 7625.1  | 8903.9  | 9974.0  | 9885.9  |
| 30°   | 10078.4 | 10295.5 | 10717.3 | 10038.5 | 8373.6  | 7417.3  | 7368.1  | 7703.9  | 9003.3  | 10343.6 | 10594.4 |
| 32.5° | 10692.8 | 10866.8 | 11207.7 | 10377.3 | 8641.9  | 7580.0  | 7473.5  | 7914.9  | 9172.2  | 10655.9 | 11245.6 |
| 35°   | 11368.5 | 11551.8 | 11687.9 | 10699.9 | 8942.9  | 7814.5  | 7662.0  | 8249.7  | 9432.3  | 10973.3 | 11959.3 |
| 37.5° | 12139.6 | 12321.8 | 12305.4 | 10994.8 | 9324.8  | 8202.6  | 8105.3  | 8780.0  | 9836.8  | 11287.7 | 12756.0 |
| 40°   | 12894.1 | 13080.5 | 12947.4 | 11317.4 | 9773.2  | 8842.5  | 8770.9  | 9576.7  | 10378.4 | 11690.0 | 13689.7 |
| 42.5° | 13600.7 | 13802.4 | 13517.7 | 11622.5 | 10307.8 | 9649.3  | 9772.2  | 10602.6 | 11056.3 | 12185.6 | 14494.5 |
| 45°   | 14170.0 | 14375.7 | 13995.9 | 11919.4 | 10870.9 | 10628.2 | 10997.9 | 11739.2 | 11871.3 | 12604.4 | 15038.3 |
| 47.5° | 14583.7 | 14778.2 | 14327.7 | 12216.3 | 11591.7 | 11825.2 | 12469.2 | 12931.0 | 12607.5 | 12967.9 | 15424.3 |
| 50°   | 14847.8 | 14999.3 | 14424.9 | 12588.0 | 12537.8 | 13221.8 | 14002.0 | 14227.2 | 13300.6 | 13295.5 | 15893.2 |
| 52.5° | 15015.7 | 15084.3 | 14496.6 | 12976.1 | 13524.9 | 14742.3 | 15503.1 | 15573.7 | 14014.3 | 13655.9 | 16524.9 |
| 55°   | 15594.2 | 15649.5 | 15004.4 | 13446.1 | 14341.0 | 16074.4 | 16860.8 | 16795.2 | 14822.2 | 14361.4 | 17270.3 |
| 57.5° | 16581.3 | 16639.7 | 16053.9 | 14121.8 | 15001.4 | 16897.6 | 17844.8 | 17962.6 | 15769.3 | 15352.6 | 18069.0 |
| 60°   | 17076.9 | 17185.4 | 16976.5 | 14977.8 | 15641.3 | 17423.9 | 18515.4 | 18891.2 | 16953.0 | 16659.1 | 18843.1 |
| 62.5° | 16627.4 | 16785.0 | 17088.1 | 15926.9 | 16277.2 | 17713.8 | 18724.3 | 19224.0 | 18165.3 | 18181.7 | 19320.2 |
| 65°   | 15730.4 | 15856.3 | 16370.4 | 16447.1 | 16645.7 | 17677.9 | 18208.3 | 18759.1 | 18907.6 | 19580.3 | 19294.7 |
| 67.5° | 14647.1 | 14694.2 | 15130.4 | 16488.1 | 16111.3 | 16600.7 | 16658.0 | 17065.6 | 18320.9 | 20075.9 | 18519.5 |
| 70°   | 13087.7 | 13113.3 | 13494.2 | 15117.1 | 13845.4 | 13952.9 | 13867.9 | 13950.9 | 15750.9 | 18868.7 | 16562.8 |
| 72.5° | 10533.0 | 10597.5 | 11139.2 | 12554.2 | 10086.6 | 9776.3  | 10444.0 | 10407.1 | 12130.3 | 15941.3 | 12301.3 |
| 75°   | 7755.1  | 7866.7  | 8684.8  | 10112.1 | 7079.4  | 6403.6  | 6890.9  | 7021.0  | 8623.4  | 12331.0 | 7692.6  |
| 77.5° | 5429.8  | 5512.7  | 6305.3  | 7433.7  | 5123.7  | 4578.9  | 4402.9  | 4557.4  | 5691.9  | 8920.3  | 3875.5  |
| 80°   | 3128.0  | 3158.8  | 3664.6  | 4292.3  | 3452.6  | 3950.2  | 3578.5  | 3685.1  | 3410.7  | 3968.7  | 1666.9  |
| 82.5° | 2046.8  | 2051.9  | 2249.5  | 2554.7  | 2150.2  | 2498.3  | 1849.2  | 2364.2  | 2098.0  | 1594.3  | 542.7   |
| 85°   | 1105.8  | 1112.0  | 1304.4  | 1813.4  | 1217.4  | 688.0   | 404.5   | 830.4   | 1297.3  | 365.5   | 148.5   |
| 87.5° | 121.8   | 111.6   | 393.2   | 659.4   | 337.9   | 62.4    | 21.5    | 93.2    | 207.8   | 23.6    | 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°    | 7251.4  | 7251.4  | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 |
| 2.5°  | 7754.1  | 7669.2  | 7457.1 | 7232.9 | 7052.7 | 6883.8 | 6713.8 | 6505.9 | 6345.2 | 6312.4 | 6259.2 |
| 5°    | 7588.2  | 7319.0  | 6874.5 | 6428.1 | 6068.8 | 5615.2 | 5327.4 | 5103.2 | 4884.1 | 4870.8 | 4826.7 |
| 7.5°  | 7008.7  | 6654.4  | 6028.8 | 5411.4 | 4905.5 | 4473.5 | 4037.3 | 3745.5 | 3516.1 | 3435.3 | 3387.1 |
| 10°   | 6451.7  | 6053.4  | 5272.1 | 4567.7 | 4116.1 | 3734.2 | 3427.1 | 3121.9 | 2845.4 | 2655.0 | 2569.0 |
| 12.5° | 6062.6  | 5622.4  | 4761.2 | 4154.1 | 3830.4 | 3468.0 | 3093.2 | 2712.4 | 2393.9 | 2164.5 | 2024.3 |
| 15°   | 5912.1  | 5442.1  | 4590.2 | 3990.2 | 3590.8 | 3132.1 | 2653.0 | 2217.8 | 1864.6 | 1656.7 | 1530.7 |
| 17.5° | 6091.3  | 5544.5  | 4576.9 | 3790.6 | 3232.5 | 2662.2 | 2132.8 | 1618.8 | 1286.0 | 1128.4 | 1047.4 |
| 20°   | 6545.9  | 5870.1  | 4571.8 | 3545.8 | 2806.6 | 2105.2 | 1444.7 | 1064.9 | 863.2  | 775.1  | 737.2  |
| 22.5° | 7188.9  | 6285.8  | 4612.7 | 3304.2 | 2363.1 | 1504.2 | 997.3  | 782.3  | 678.8  | 631.8  | 610.3  |
| 25°   | 8016.2  | 6869.4  | 4728.4 | 3085.1 | 1946.5 | 1122.2 | 777.2  | 655.3  | 582.6  | 545.7  | 530.4  |
| 27.5° | 8897.8  | 7541.2  | 4908.6 | 2894.6 | 1607.6 | 894.9  | 665.6  | 561.1  | 508.9  | 483.3  | 468.9  |
| 30°   | 9624.7  | 8319.3  | 5090.9 | 2682.7 | 1361.8 | 780.3  | 609.2  | 512.0  | 451.5  | 435.1  | 421.9  |
| 32.5° | 10260.6 | 8908.0  | 5219.9 | 2491.1 | 1201.0 | 693.2  | 550.8  | 457.7  | 416.8  | 385.0  | 370.7  |
| 35°   | 10919.0 | 9398.5  | 5215.8 | 2357.1 | 1090.5 | 627.7  | 501.7  | 409.6  | 360.4  | 323.5  | 312.3  |
| 37.5° | 11631.7 | 9952.5  | 5126.8 | 2242.3 | 1042.3 | 575.4  | 474.1  | 384.0  | 334.8  | 298.0  | 283.7  |
| 40°   | 12466.2 | 10534.0 | 5035.6 | 2134.8 | 1029.0 | 533.5  | 454.6  | 363.5  | 311.2  | 275.5  | 261.1  |
| 42.5° | 13279.1 | 11058.3 | 4955.7 | 2055.0 | 971.7  | 532.5  | 437.2  | 348.1  | 292.9  | 258.0  | 241.6  |
| 45°   | 13929.3 | 11546.7 | 4940.4 | 2006.8 | 911.2  | 550.8  | 428.0  | 337.9  | 278.5  | 243.7  | 228.3  |
| 47.5° | 14469.9 | 12077.0 | 5038.6 | 1973.1 | 853.9  | 502.8  | 450.5  | 330.7  | 265.2  | 231.4  | 214.0  |
| 50°   | 15113.0 | 12728.3 | 5270.0 | 1917.8 | 793.5  | 452.5  | 516.1  | 332.7  | 253.9  | 219.1  | 200.7  |
| 52.5° | 16009.9 | 13629.3 | 5610.1 | 1824.6 | 710.6  | 406.5  | 507.9  | 334.8  | 241.6  | 205.8  | 187.3  |
| 55°   | 17015.4 | 14754.6 | 5975.6 | 1670.0 | 594.9  | 346.1  | 435.1  | 320.5  | 218.1  | 191.4  | 174.1  |
| 57.5° | 18072.1 | 15775.5 | 6192.6 | 1485.7 | 473.0  | 299.0  | 348.1  | 291.9  | 192.5  | 172.1  | 160.8  |
| 60°   | 18237.9 | 16163.5 | 6093.3 | 1259.5 | 375.8  | 260.1  | 258.0  | 297.0  | 172.1  | 151.6  | 143.4  |
| 62.5° | 17825.3 | 15676.1 | 5613.1 | 1057.7 | 314.3  | 228.3  | 211.9  | 259.1  | 155.7  | 135.2  | 127.0  |
| 65°   | 17031.8 | 14358.3 | 4834.9 | 953.3  | 291.9  | 195.5  | 176.2  | 182.2  | 136.2  | 117.7  | 110.6  |
| 67.5° | 15928.0 | 12599.3 | 3969.7 | 893.9  | 288.8  | 168.0  | 150.5  | 138.2  | 117.7  | 102.4  | 96.2   |
| 70°   | 13671.3 | 10496.1 | 3167.0 | 861.1  | 280.6  | 141.3  | 127.0  | 112.6  | 98.3   | 87.0   | 81.9   |
| 72.5° | 10062.0 | 7437.8  | 2463.6 | 825.3  | 282.6  | 112.6  | 110.6  | 93.2   | 78.8   | 67.5   | 65.5   |
| 75°   | 5813.8  | 4249.3  | 1615.8 | 668.6  | 269.3  | 87.0   | 92.1   | 65.5   | 55.3   | 47.1   | 47.1   |
| 77.5° | 3098.3  | 2591.6  | 615.4  | 278.5  | 98.3   | 55.3   | 52.3   | 38.9   | 34.8   | 28.7   | 27.7   |
| 80°   | 1350.6  | 1140.7  | 185.3  | 77.8   | 54.3   | 29.7   | 19.5   | 17.4   | 15.4   | 12.3   | 11.3   |
| 82.5° | 478.2   | 412.7   | 60.5   | 37.9   | 23.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 108.5   | 77.8    | 0.0    | 9.2    | 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°    | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 |
| 2.5°  | 6150.6 | 6128.1 | 5995.0 | 6000.1 | 6023.7 | 6057.5 | 5977.6 | 6014.4 | 6113.7 | 6209.0 | 6244.8 |
| 5°    | 4756.1 | 4761.2 | 4680.3 | 4730.5 | 4775.6 | 4806.2 | 4677.2 | 4679.3 | 4758.2 | 4865.7 | 4921.9 |
| 7.5°  | 3351.2 | 3343.0 | 3347.1 | 3466.9 | 3552.0 | 3490.5 | 3538.7 | 3371.7 | 3382.0 | 3458.7 | 3401.5 |
| 10°   | 2491.1 | 2378.5 | 2315.1 | 2405.2 | 2498.3 | 2464.6 | 2381.6 | 2327.4 | 2365.2 | 2450.2 | 2444.1 |
| 12.5° | 1957.7 | 1795.9 | 1700.7 | 1636.2 | 1713.0 | 1649.5 | 1647.4 | 1600.4 | 1549.2 | 1558.4 | 1694.6 |
| 15°   | 1472.4 | 1354.7 | 1242.0 | 1138.6 | 1136.6 | 1115.1 | 1005.5 | 882.6  | 872.4  | 878.5  | 949.2  |
| 17.5° | 1012.7 | 972.7  | 926.6  | 837.6  | 814.0  | 723.9  | 617.4  | 568.2  | 543.7  | 554.9  | 578.5  |
| 20°   | 711.6  | 696.2  | 701.4  | 653.3  | 619.5  | 533.5  | 471.0  | 451.5  | 447.4  | 458.7  | 470.0  |
| 22.5° | 589.8  | 562.1  | 559.0  | 537.6  | 503.8  | 441.3  | 407.6  | 396.3  | 391.2  | 401.4  | 409.6  |
| 25°   | 516.1  | 488.4  | 477.1  | 463.8  | 428.0  | 385.0  | 364.5  | 354.3  | 349.1  | 355.3  | 360.4  |
| 27.5° | 454.6  | 429.0  | 418.8  | 409.6  | 374.8  | 344.0  | 327.6  | 318.4  | 314.3  | 316.4  | 321.5  |
| 30°   | 408.6  | 386.0  | 372.7  | 361.4  | 331.7  | 310.2  | 296.0  | 286.7  | 282.6  | 282.6  | 287.8  |
| 32.5° | 360.4  | 348.1  | 335.8  | 321.5  | 293.9  | 279.6  | 265.2  | 255.0  | 250.9  | 251.9  | 256.0  |
| 35°   | 300.1  | 296.0  | 299.0  | 285.7  | 262.1  | 249.8  | 235.5  | 224.2  | 221.1  | 222.2  | 226.3  |
| 37.5° | 266.2  | 247.8  | 259.1  | 251.9  | 238.6  | 222.2  | 203.7  | 193.5  | 188.4  | 191.4  | 193.5  |
| 40°   | 244.7  | 222.2  | 214.0  | 221.1  | 219.1  | 192.5  | 176.2  | 165.9  | 161.8  | 162.8  | 164.9  |
| 42.5° | 226.3  | 199.6  | 181.3  | 180.3  | 192.5  | 168.0  | 150.5  | 141.3  | 136.2  | 136.2  | 138.2  |
| 45°   | 208.9  | 180.3  | 157.7  | 140.3  | 161.8  | 142.3  | 125.9  | 117.7  | 111.6  | 111.6  | 112.6  |
| 47.5° | 195.5  | 163.9  | 137.2  | 114.7  | 121.8  | 116.7  | 103.4  | 95.2   | 89.1   | 89.1   | 90.1   |
| 50°   | 183.2  | 147.5  | 118.8  | 96.2   | 91.1   | 96.2   | 83.9   | 74.7   | 70.6   | 69.6   | 71.6   |
| 52.5° | 170.0  | 131.1  | 101.4  | 81.9   | 71.6   | 72.7   | 65.5   | 59.4   | 54.3   | 54.3   | 56.4   |
| 55°   | 156.7  | 117.7  | 88.0   | 69.6   | 59.4   | 54.3   | 52.3   | 48.2   | 44.1   | 44.1   | 46.1   |
| 57.5° | 143.4  | 103.4  | 74.7   | 57.4   | 47.1   | 43.0   | 43.0   | 40.0   | 36.9   | 36.9   | 38.9   |
| 60°   | 131.1  | 89.1   | 61.4   | 47.1   | 36.9   | 35.9   | 36.9   | 33.8   | 31.8   | 31.8   | 33.8   |
| 62.5° | 116.7  | 75.7   | 50.2   | 38.9   | 29.7   | 28.7   | 31.8   | 29.7   | 27.7   | 27.7   | 29.7   |
| 65°   | 99.3   | 64.5   | 40.0   | 29.7   | 22.5   | 22.5   | 26.6   | 24.6   | 22.5   | 22.5   | 24.6   |
| 67.5° | 83.9   | 54.3   | 30.7   | 21.5   | 16.4   | 17.4   | 22.5   | 20.5   | 19.5   | 19.5   | 21.5   |
| 70°   | 69.6   | 42.0   | 21.5   | 13.3   | 9.2    | 13.3   | 17.4   | 17.4   | 17.4   | 17.4   | 19.5   |
| 72.5° | 52.3   | 28.7   | 12.3   | 5.1    | 4.1    | 9.2    | 14.3   | 16.4   | 15.4   | 15.4   | 18.4   |
| 75°   | 33.8   | 16.4   | 4.1    | 0.0    | 0.0    | 5.1    | 11.3   | 13.3   | 13.3   | 12.3   | 15.4   |
| 77.5° | 19.5   | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 7.2    | 6.1    | 5.1    | 4.1    | 7.2    |
| 80°   | 5.1    | 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    |



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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4 | 7251.4  | 7251.4  | 7251.4  |
| 2.5°  | 6389.2 | 6510.0 | 6680.0 | 6860.2 | 7137.7 | 7357.8 | 7573.9 | 7759.2  | 7830.9  | 7860.6  |
| 5°    | 5057.1 | 5234.3 | 5483.1 | 5802.5 | 6303.2 | 6753.7 | 7210.4 | 7670.2  | 7869.8  | 7920.0  |
| 7.5°  | 3628.8 | 3855.0 | 4171.5 | 4571.8 | 5158.4 | 5742.2 | 6380.0 | 7054.8  | 7364.0  | 7441.9  |
| 10°   | 2685.7 | 2962.2 | 3324.7 | 3746.5 | 4306.5 | 4906.6 | 5601.9 | 6372.8  | 6726.1  | 6829.5  |
| 12.5° | 1905.5 | 2279.2 | 2764.6 | 3277.6 | 3762.9 | 4298.3 | 5001.9 | 5851.7  | 6222.4  | 6334.0  |
| 15°   | 1119.2 | 1480.6 | 2055.0 | 2742.0 | 3363.5 | 3906.3 | 4620.9 | 5584.4  | 5992.9  | 6105.6  |
| 17.5° | 642.0  | 822.2  | 1256.4 | 2022.2 | 2865.9 | 3617.5 | 4501.1 | 5651.0  | 6132.2  | 6236.6  |
| 20°   | 490.5  | 547.7  | 723.9  | 1302.4 | 2284.3 | 3333.8 | 4501.1 | 6027.8  | 6620.6  | 6774.2  |
| 22.5° | 429.0  | 471.0  | 542.7  | 777.2  | 1681.3 | 3029.8 | 4553.3 | 6572.5  | 7347.6  | 7517.6  |
| 25°   | 380.9  | 418.8  | 480.2  | 584.6  | 1146.8 | 2668.3 | 4677.2 | 7241.1  | 8203.6  | 8423.7  |
| 27.5° | 340.9  | 376.8  | 432.1  | 512.0  | 784.4  | 2232.2 | 4844.1 | 8025.5  | 9147.6  | 9323.8  |
| 30°   | 305.1  | 338.9  | 389.1  | 445.4  | 605.1  | 1737.6 | 4986.5 | 8764.7  | 9888.9  | 10078.4 |
| 32.5° | 271.4  | 302.1  | 347.1  | 389.1  | 495.6  | 1285.0 | 5001.9 | 9350.4  | 10504.3 | 10692.8 |
| 35°   | 239.6  | 267.3  | 308.2  | 340.9  | 410.6  | 1014.7 | 4763.3 | 9858.3  | 11119.7 | 11368.5 |
| 37.5° | 208.9  | 235.5  | 271.4  | 296.0  | 361.4  | 827.3  | 4398.8 | 10424.5 | 11909.2 | 12139.6 |
| 40°   | 180.3  | 203.7  | 240.6  | 257.0  | 342.0  | 635.9  | 4002.5 | 11018.3 | 12683.2 | 12894.1 |
| 42.5° | 153.6  | 176.2  | 211.9  | 243.7  | 300.1  | 475.1  | 3574.4 | 11575.3 | 13379.4 | 13600.7 |
| 45°   | 128.0  | 151.6  | 187.3  | 258.0  | 248.8  | 355.3  | 3116.8 | 11945.0 | 13929.3 | 14170.0 |
| 47.5° | 103.4  | 130.0  | 179.2  | 245.7  | 198.6  | 261.1  | 2754.3 | 12295.1 | 14346.0 | 14583.7 |
| 50°   | 82.9   | 109.5  | 201.7  | 219.1  | 162.8  | 199.6  | 2602.7 | 12608.5 | 14619.4 | 14847.8 |
| 52.5° | 67.5   | 92.1   | 190.4  | 168.0  | 136.2  | 164.9  | 2684.7 | 13116.4 | 14872.3 | 15015.7 |
| 55°   | 56.4   | 72.7   | 114.7  | 116.7  | 115.7  | 140.3  | 2786.1 | 13845.4 | 15526.7 | 15594.2 |
| 57.5° | 49.2   | 58.4   | 79.8   | 90.1   | 97.3   | 124.9  | 2788.1 | 14891.8 | 16539.3 | 16581.3 |
| 60°   | 42.0   | 51.2   | 66.5   | 72.7   | 83.9   | 111.6  | 2686.8 | 15257.4 | 16937.6 | 17076.9 |
| 62.5° | 36.9   | 45.1   | 55.3   | 60.5   | 70.6   | 100.3  | 2449.2 | 14728.0 | 16390.9 | 16627.4 |
| 65°   | 32.8   | 41.0   | 46.1   | 51.2   | 62.4   | 90.1   | 2058.1 | 13669.3 | 15483.6 | 15730.4 |
| 67.5° | 28.7   | 35.9   | 41.0   | 46.1   | 56.4   | 79.8   | 1515.3 | 12439.5 | 14442.3 | 14647.1 |
| 70°   | 25.6   | 31.8   | 36.9   | 41.0   | 49.2   | 67.5   | 919.4  | 10555.6 | 13002.7 | 13087.7 |
| 72.5° | 24.6   | 28.7   | 33.8   | 36.9   | 43.0   | 59.4   | 465.9  | 7757.2  | 10394.8 | 10533.0 |
| 75°   | 21.5   | 25.6   | 30.7   | 32.8   | 37.9   | 51.2   | 189.4  | 5095.0  | 7533.0  | 7755.1  |
| 77.5° | 17.4   | 23.6   | 27.7   | 29.7   | 32.8   | 42.0   | 96.2   | 3256.0  | 5286.4  | 5429.8  |
| 80°   | 6.1    | 17.4   | 23.6   | 24.6   | 27.7   | 30.7   | 63.4   | 1782.6  | 3066.7  | 3128.0  |
| 82.5° | 0.0    | 11.3   | 18.4   | 17.4   | 19.5   | 23.6   | 41.0   | 847.8   | 2024.3  | 2046.8  |
| 85°   | 0.0    | 5.1    | 14.3   | 11.3   | 8.2    | 16.4   | 14.3   | 185.3   | 1061.8  | 1105.8  |
| 87.5° | 0.0    | 0.0    | 1.0    | 5.1    | 4.1    | 6.1    | 2.0    | 1.0     | 96.2    | 121.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)