

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: P949211

Luminaire Tested: **GALN-SB4A-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

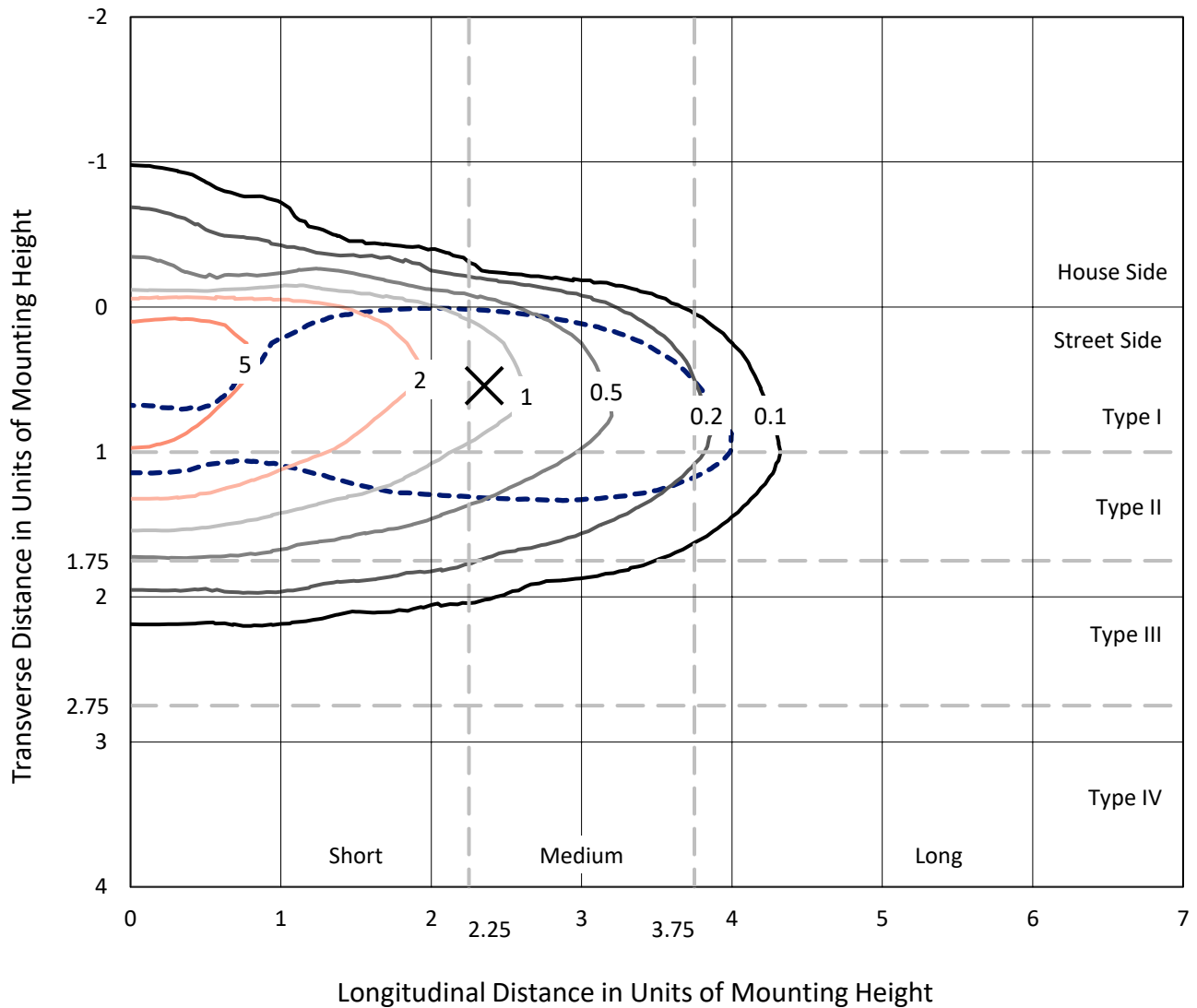
Lumens per Lamp: N/A  
Luminaire Lumens: 16104 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

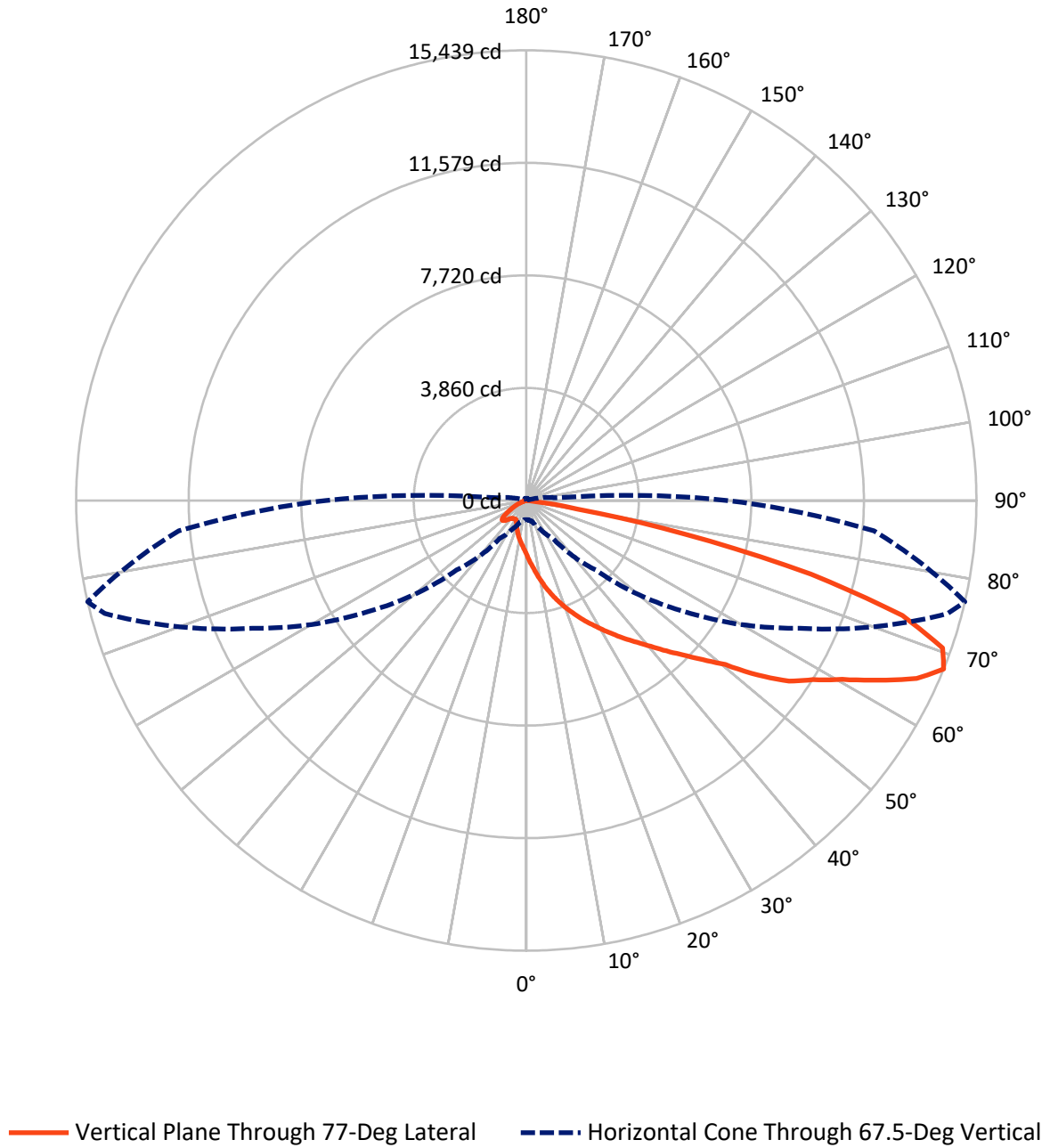
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - 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    | 1184.8   | 0.0    | 1184.8  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 14919.2  | 0.0    | 14919.2 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 16104.0  | 0.0    | 16104.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 189.5   | 1.2       |
| 10°-20°   | 663.7   | 4.1       |
| 20°-30°   | 1280.9  | 8.0       |
| 30°-40°   | 2223.6  | 13.8      |
| 40°-50°   | 3228.6  | 20.0      |
| 50°-60°   | 3707.6  | 23.0      |
| 60°-70°   | 3218.9  | 20.0      |
| 70°-80°   | 1516.1  | 9.4       |
| 80°-90°   | 75.0    | 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°    | 16104.0 | 100.0     |
| 0°-180°   | 16104.0 | 100.0     |

**Coefficient of Utilization**



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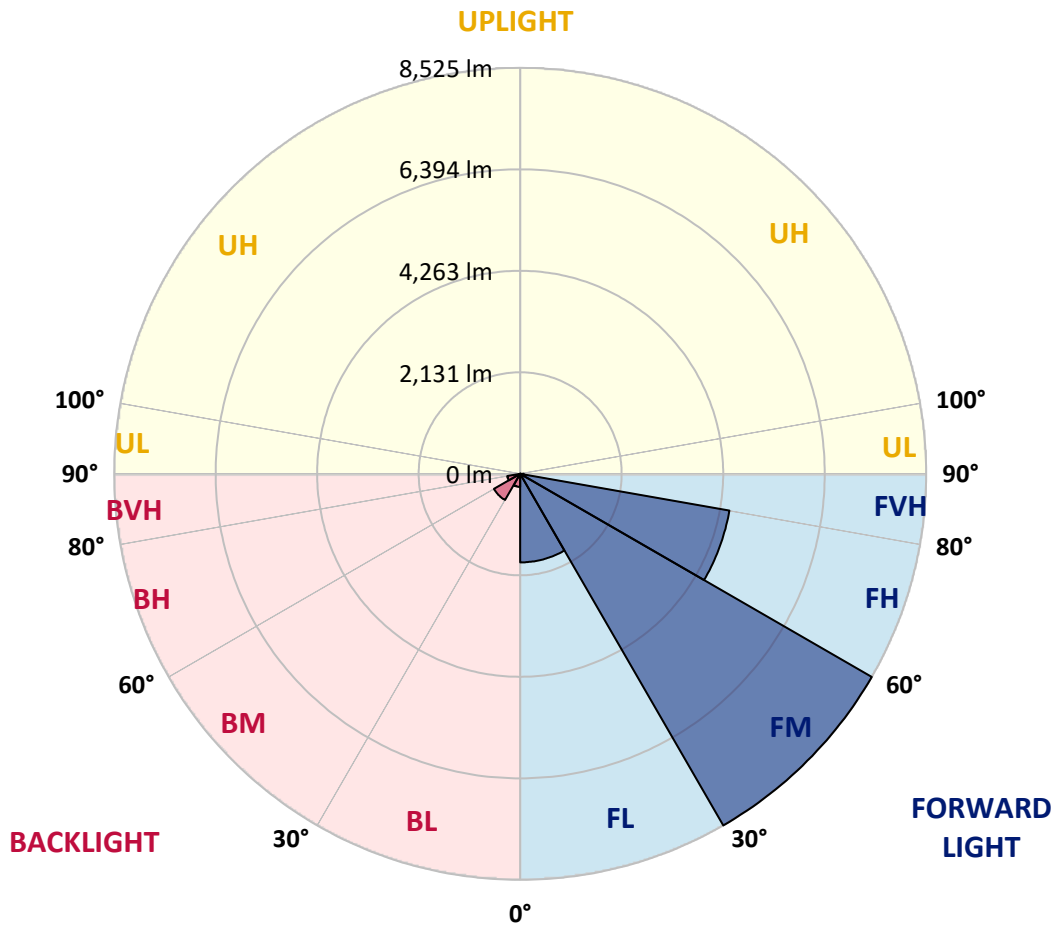
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1859.8 | 11.5      |                         |      |         |
| FM (30°-60°)   | 8525.0 | 52.9      |                         |      |         |
| FH (60°-80°)   | 4460.8 | 27.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 73.6   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 274.3  | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 634.8  | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 274.3  | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.4    | 0.0       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0  | 1857.0  | 1857.0  |
| 2.5°  | 2571.0 | 2587.0 | 2564.0 | 2520.0 | 2454.0 | 2411.0 | 2306.0 | 2207.0  | 2097.0  | 2062.0  |
| 5°    | 3134.0 | 3148.0 | 3122.0 | 3074.0 | 2986.0 | 2902.0 | 2764.0 | 2557.0  | 2342.0  | 2273.0  |
| 7.5°  | 3551.1 | 3559.1 | 3549.1 | 3505.1 | 3421.1 | 3326.1 | 3172.0 | 2927.0  | 2608.0  | 2532.0  |
| 10°   | 3851.1 | 3877.1 | 3874.1 | 3857.1 | 3801.1 | 3724.1 | 3560.1 | 3281.0  | 2906.0  | 2808.0  |
| 12.5° | 4050.1 | 4079.1 | 4096.1 | 4134.1 | 4131.1 | 4082.1 | 3938.1 | 3643.1  | 3203.0  | 3088.0  |
| 15°   | 4108.1 | 4139.1 | 4204.1 | 4292.1 | 4370.1 | 4395.1 | 4294.1 | 3998.1  | 3530.1  | 3383.1  |
| 17.5° | 4075.1 | 4123.1 | 4201.1 | 4340.1 | 4511.1 | 4624.1 | 4613.1 | 4341.1  | 3827.1  | 3659.1  |
| 20°   | 4148.1 | 4194.1 | 4255.1 | 4372.1 | 4571.1 | 4776.1 | 4858.1 | 4669.1  | 4122.1  | 3946.1  |
| 22.5° | 4552.1 | 4544.1 | 4550.1 | 4569.1 | 4688.1 | 4891.1 | 5060.1 | 4967.1  | 4414.1  | 4234.1  |
| 25°   | 5192.1 | 5156.1 | 5095.1 | 4992.1 | 4962.1 | 5060.1 | 5236.1 | 5231.1  | 4722.1  | 4529.1  |
| 27.5° | 5926.1 | 5920.1 | 5777.1 | 5529.1 | 5389.1 | 5351.1 | 5435.1 | 5488.1  | 5027.1  | 4821.1  |
| 30°   | 6629.1 | 6645.1 | 6452.1 | 6176.1 | 5919.1 | 5770.1 | 5694.1 | 5732.1  | 5337.1  | 5136.1  |
| 32.5° | 7241.1 | 7258.1 | 7048.1 | 6725.1 | 6407.1 | 6227.1 | 6067.1 | 5973.1  | 5675.1  | 5456.1  |
| 35°   | 7758.1 | 7775.1 | 7534.1 | 7177.1 | 6838.1 | 6675.1 | 6494.1 | 6237.1  | 6015.1  | 5811.1  |
| 37.5° | 8220.1 | 8215.1 | 7892.1 | 7532.1 | 7199.1 | 7070.1 | 6975.1 | 6562.1  | 6365.1  | 6168.1  |
| 40°   | 8493.1 | 8514.1 | 8238.1 | 7841.1 | 7518.1 | 7424.1 | 7418.1 | 6965.1  | 6769.1  | 6578.1  |
| 42.5° | 8573.1 | 8610.1 | 8410.1 | 8084.1 | 7791.1 | 7689.1 | 7846.1 | 7401.1  | 7239.1  | 7053.1  |
| 45°   | 8429.1 | 8465.1 | 8374.1 | 8148.1 | 7977.1 | 7911.1 | 8214.1 | 7853.1  | 7741.1  | 7557.1  |
| 47.5° | 8009.1 | 8054.1 | 8076.1 | 8028.1 | 8026.1 | 8093.1 | 8544.1 | 8329.1  | 8337.1  | 8149.1  |
| 50°   | 7196.1 | 7272.1 | 7474.1 | 7644.1 | 7907.1 | 8237.1 | 8865.1 | 8845.1  | 9009.1  | 8847.1  |
| 52.5° | 5718.1 | 5826.1 | 6522.1 | 6987.1 | 7578.1 | 8210.1 | 9218.1 | 9673.1  | 10188.2 | 9951.1  |
| 55°   | 4595.1 | 4595.1 | 5161.1 | 6031.1 | 6936.1 | 8032.1 | 9372.1 | 10211.2 | 10991.2 | 10935.2 |
| 57.5° | 3746.1 | 3791.1 | 4152.1 | 4921.1 | 6007.1 | 7608.1 | 9467.1 | 10549.2 | 11638.2 | 11597.2 |
| 60°   | 2312.0 | 2409.0 | 3091.0 | 3850.1 | 4950.1 | 6853.1 | 9407.1 | 10891.2 | 12423.2 | 12456.2 |
| 62.5° | 1302.0 | 1338.0 | 1642.0 | 2770.0 | 3849.1 | 5838.1 | 8948.1 | 11082.2 | 13427.2 | 13567.2 |
| 65°   | 899.0  | 917.0  | 1034.0 | 1724.0 | 2668.0 | 4648.1 | 8051.1 | 10963.2 | 14433.2 | 14716.2 |
| 67.5° | 653.0  | 662.0  | 735.0  | 1053.0 | 1583.0 | 3370.1 | 6645.1 | 10363.2 | 14966.2 | 15439.2 |
| 70°   | 502.0  | 508.0  | 561.0  | 692.0  | 935.0  | 2080.0 | 4826.1 | 9170.1  | 14580.2 | 15145.2 |
| 72.5° | 408.0  | 414.0  | 455.0  | 512.0  | 620.0  | 1230.0 | 2925.0 | 7447.1  | 12876.2 | 13486.2 |
| 75°   | 344.0  | 352.0  | 389.0  | 426.0  | 486.0  | 790.0  | 1372.0 | 5186.1  | 9683.1  | 10083.2 |
| 77.5° | 191.0  | 176.0  | 316.0  | 353.0  | 410.0  | 500.0  | 642.0  | 3052.0  | 5423.1  | 5534.1  |
| 80°   | 119.0  | 123.0  | 251.0  | 284.0  | 315.0  | 252.0  | 294.0  | 1175.0  | 1880.0  | 1786.0  |
| 82.5° | 7.0    | 16.0   | 193.0  | 205.0  | 216.0  | 108.0  | 111.0  | 399.0   | 453.0   | 416.0   |
| 85°   | 0.0    | 0.0    | 88.0   | 71.0   | 75.0   | 31.0   | 32.0   | 93.0    | 61.0    | 66.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.0    | 0.0    | 3.0    | 6.0    | 8.0     | 3.0     | 4.0     |
| 90°   | 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):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1857.0  | 0°    | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 | 1857.0 |
| 1952.0  | 2.5°  | 1882.0 | 1812.0 | 1670.0 | 1531.0 | 1418.0 | 1313.0 | 1238.0 | 1167.0 | 1131.0 | 1129.0 |
| 2078.0  | 5°    | 1939.0 | 1792.0 | 1508.0 | 1257.0 | 1055.0 | 893.0  | 788.0  | 713.0  | 675.0  | 662.0  |
| 2233.0  | 7.5°  | 2019.0 | 1798.0 | 1366.0 | 1017.0 | 779.0  | 640.0  | 580.0  | 556.0  | 548.0  | 539.0  |
| 2408.0  | 10°   | 2120.0 | 1812.0 | 1239.0 | 819.0  | 614.0  | 544.0  | 520.0  | 510.0  | 504.0  | 498.0  |
| 2605.0  | 12.5° | 2233.0 | 1825.0 | 1113.0 | 680.0  | 540.0  | 504.0  | 487.0  | 475.0  | 467.0  | 460.0  |
| 2807.0  | 15°   | 2343.0 | 1833.0 | 982.0  | 583.0  | 502.0  | 473.0  | 455.0  | 442.0  | 431.0  | 423.0  |
| 3005.0  | 17.5° | 2452.0 | 1844.0 | 859.0  | 525.0  | 471.0  | 442.0  | 424.0  | 408.0  | 399.0  | 390.0  |
| 3213.0  | 20°   | 2573.0 | 1842.0 | 743.0  | 484.0  | 440.0  | 411.0  | 392.0  | 377.0  | 368.0  | 358.0  |
| 3433.1  | 22.5° | 2685.0 | 1832.0 | 641.0  | 449.0  | 408.0  | 380.0  | 359.0  | 344.0  | 335.0  | 327.0  |
| 3658.1  | 25°   | 2814.0 | 1824.0 | 556.0  | 417.0  | 378.0  | 350.0  | 327.0  | 313.0  | 303.0  | 296.0  |
| 3884.1  | 27.5° | 2938.0 | 1812.0 | 494.0  | 388.0  | 349.0  | 322.0  | 300.0  | 284.0  | 275.0  | 270.0  |
| 4117.1  | 30°   | 3060.0 | 1809.0 | 471.0  | 360.0  | 323.0  | 296.0  | 274.0  | 259.0  | 252.0  | 250.0  |
| 4373.1  | 32.5° | 3207.0 | 1817.0 | 481.0  | 350.0  | 299.0  | 272.0  | 251.0  | 240.0  | 233.0  | 233.0  |
| 4658.1  | 35°   | 3364.1 | 1815.0 | 496.0  | 359.0  | 283.0  | 248.0  | 232.0  | 225.0  | 218.0  | 218.0  |
| 4974.1  | 37.5° | 3561.1 | 1818.0 | 508.0  | 374.0  | 277.0  | 228.0  | 219.0  | 210.0  | 206.0  | 206.0  |
| 5320.1  | 40°   | 3855.1 | 1917.0 | 502.0  | 387.0  | 275.0  | 214.0  | 196.0  | 193.0  | 190.0  | 190.0  |
| 5711.1  | 42.5° | 4215.1 | 2132.0 | 510.0  | 388.0  | 274.0  | 204.0  | 180.0  | 186.0  | 179.0  | 178.0  |
| 6152.1  | 45°   | 4609.1 | 2367.0 | 561.0  | 367.0  | 273.0  | 199.0  | 172.0  | 179.0  | 168.0  | 168.0  |
| 6663.1  | 47.5° | 5000.1 | 2600.0 | 613.0  | 337.0  | 270.0  | 198.0  | 165.0  | 161.0  | 158.0  | 159.0  |
| 7329.1  | 50°   | 5539.1 | 2790.0 | 633.0  | 296.0  | 263.0  | 196.0  | 152.0  | 153.0  | 151.0  | 153.0  |
| 8268.1  | 52.5° | 6126.1 | 2830.0 | 609.0  | 250.0  | 243.0  | 190.0  | 143.0  | 147.0  | 146.0  | 148.0  |
| 8929.1  | 55°   | 6492.1 | 2787.0 | 503.0  | 208.0  | 212.0  | 166.0  | 134.0  | 142.0  | 142.0  | 142.0  |
| 9575.1  | 57.5° | 6870.1 | 2604.0 | 357.0  | 169.0  | 176.0  | 136.0  | 126.0  | 137.0  | 136.0  | 135.0  |
| 10353.2 | 60°   | 7142.1 | 2308.0 | 235.0  | 139.0  | 140.0  | 112.0  | 117.0  | 129.0  | 128.0  | 123.0  |
| 11155.2 | 62.5° | 7345.1 | 1981.0 | 151.0  | 118.0  | 107.0  | 101.0  | 107.0  | 117.0  | 113.0  | 102.0  |
| 11835.2 | 65°   | 7322.1 | 1528.0 | 116.0  | 101.0  | 88.0   | 88.0   | 93.0   | 102.0  | 90.0   | 72.0   |
| 11965.2 | 67.5° | 6895.1 | 1034.0 | 96.0   | 85.0   | 74.0   | 73.0   | 77.0   | 85.0   | 77.0   | 61.0   |
| 11299.2 | 70°   | 6132.1 | 676.0  | 77.0   | 66.0   | 59.0   | 54.0   | 62.0   | 73.0   | 65.0   | 49.0   |
| 9619.1  | 72.5° | 4977.1 | 412.0  | 58.0   | 48.0   | 43.0   | 35.0   | 49.0   | 60.0   | 52.0   | 36.0   |
| 6689.1  | 75°   | 3220.0 | 210.0  | 40.0   | 31.0   | 23.0   | 21.0   | 36.0   | 45.0   | 36.0   | 22.0   |
| 2968.0  | 77.5° | 1232.0 | 88.0   | 22.0   | 14.0   | 12.0   | 10.0   | 20.0   | 27.0   | 15.0   | 5.0    |
| 575.0   | 80°   | 237.0  | 37.0   | 11.0   | 7.0    | 6.0    | 4.0    | 3.0    | 2.0    | 0.0    | 0.0    |
| 102.0   | 82.5° | 41.0   | 12.0   | 4.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20.0    | 85°   | 14.0   | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.0     | 87.5° | 5.0    | 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    |

(END O

|             |
|-------------|
| <u>180°</u> |
| 1857.0      |
| 1127.0      |
| 660.0       |
| 537.0       |
| 496.0       |
| 458.0       |
| 422.0       |
| 389.0       |
| 357.0       |
| 326.0       |
| 295.0       |
| 270.0       |
| 249.0       |
| 233.0       |
| 218.0       |
| 206.0       |
| 190.0       |
| 177.0       |
| 168.0       |
| 159.0       |
| 153.0       |
| 148.0       |
| 142.0       |
| 135.0       |
| 123.0       |
| 100.0       |
| 70.0        |
| 59.0        |
| 47.0        |
| 34.0        |
| 19.0        |
| 4.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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