

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: P532324

Luminaire Tested: **GALN-SA7C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P532324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 34194 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 377  
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



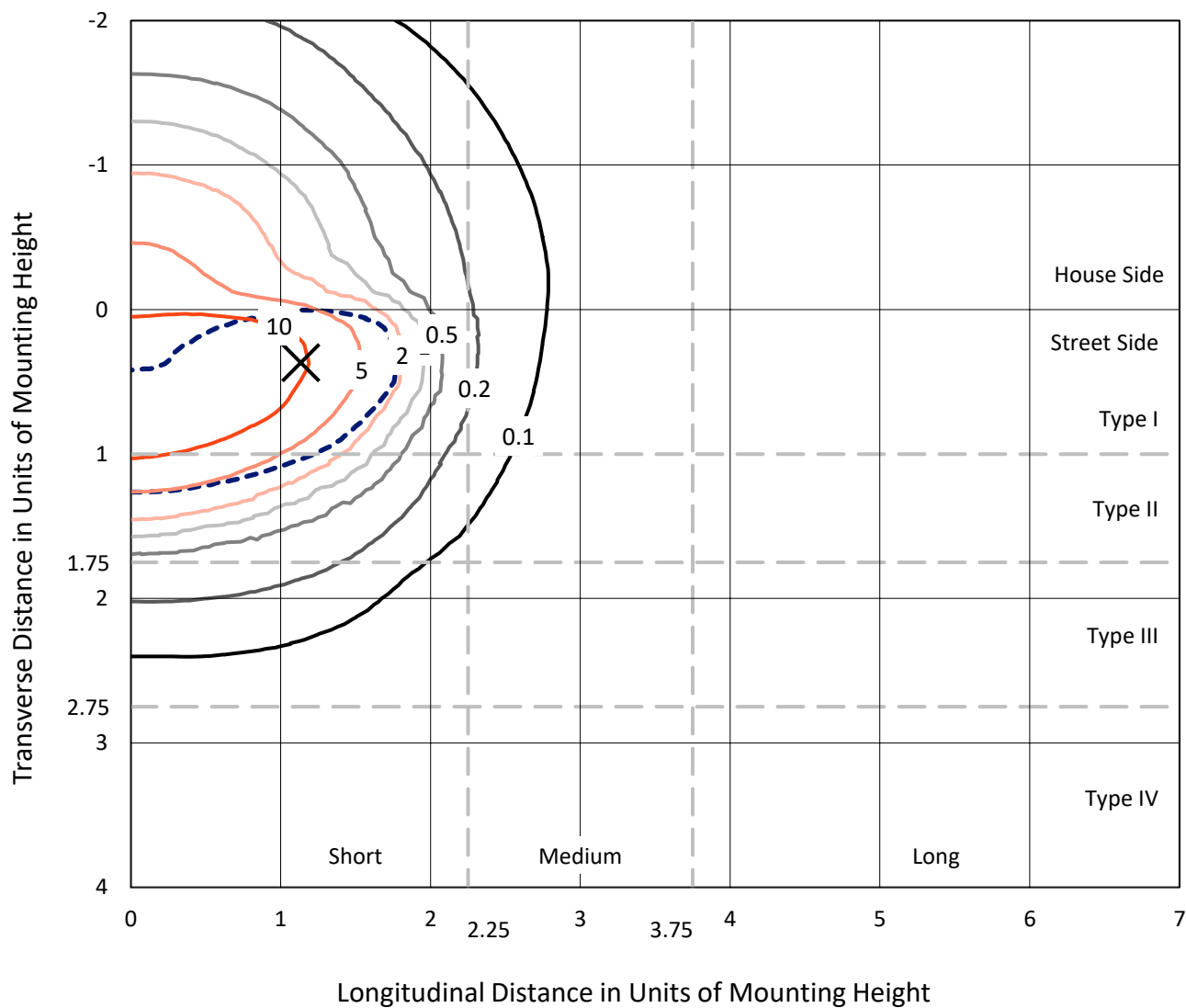
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

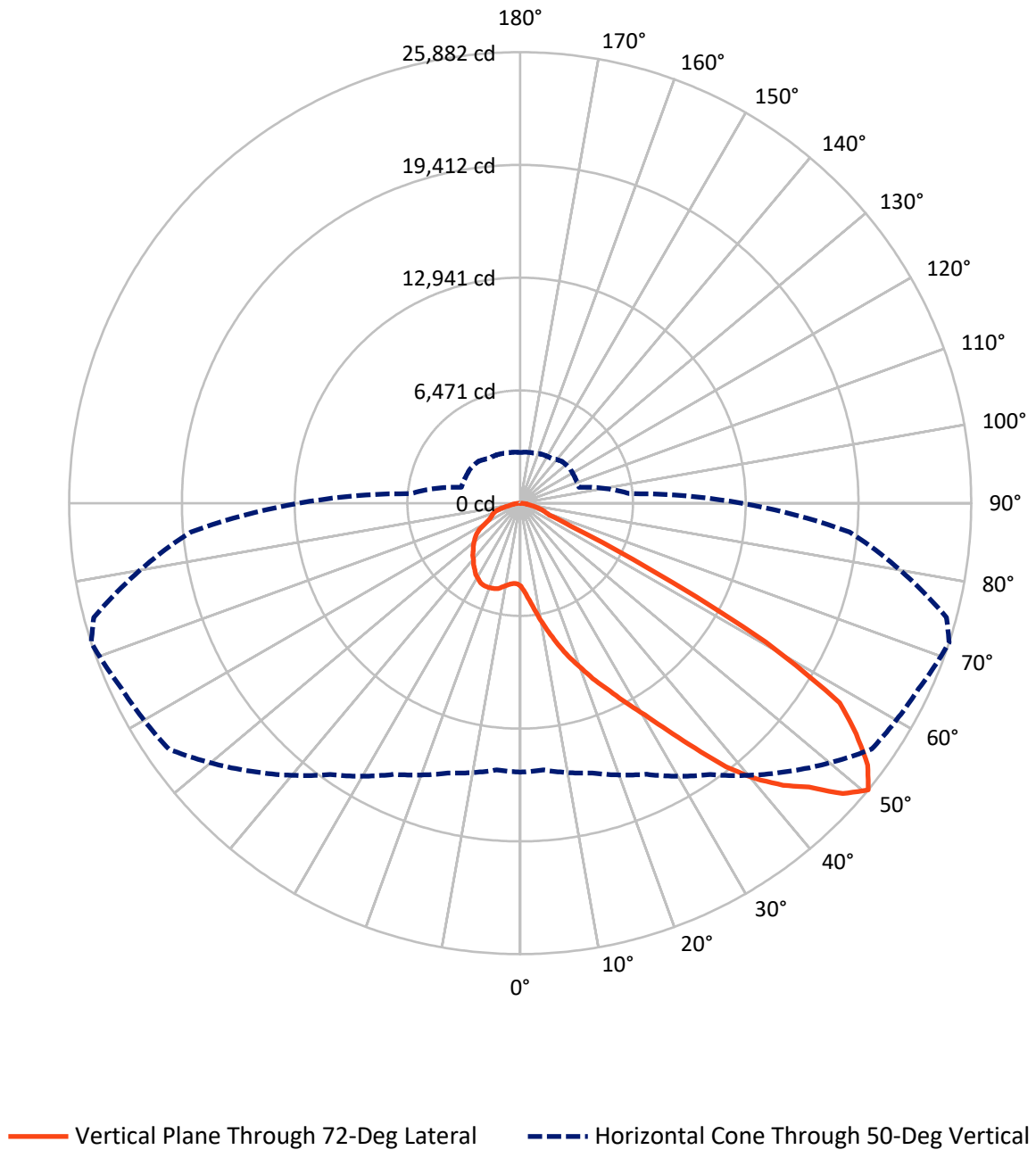
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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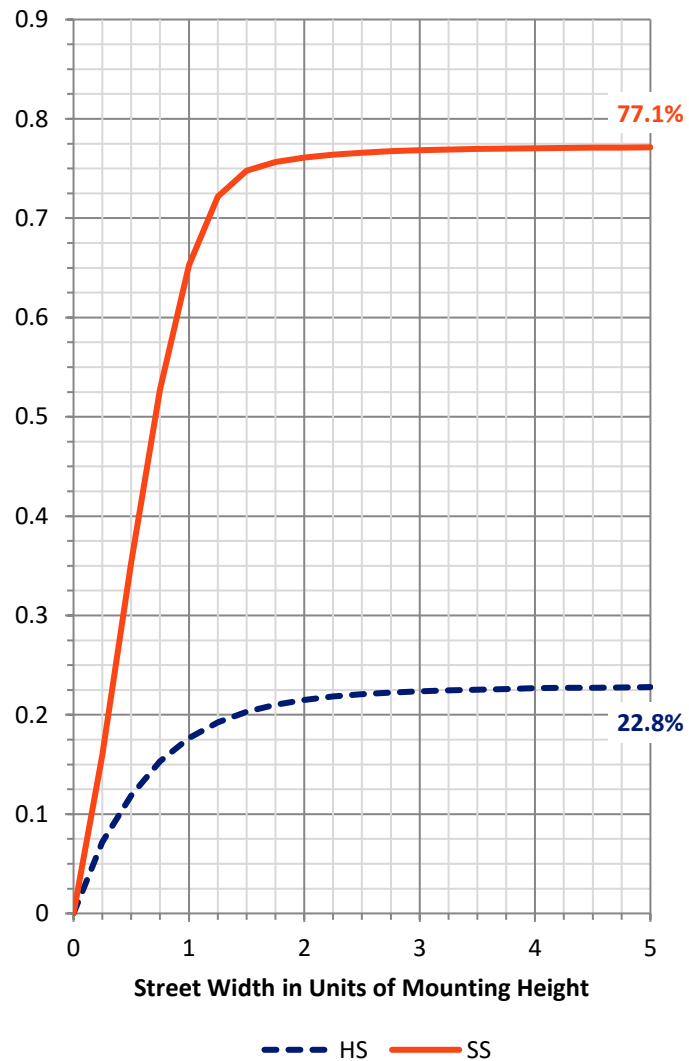
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7834.0   | 0.0    | 7834.0  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 26360.0  | 0.0    | 26360.0 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 34194.0  | 0.0    | 34194.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 559.9   | 1.6       |
| 10°-20°   | 2093.1  | 6.1       |
| 20°-30°   | 4058.4  | 11.9      |
| 30°-40°   | 6723.4  | 19.7      |
| 40°-50°   | 9407.5  | 27.5      |
| 50°-60°   | 7936.4  | 23.2      |
| 60°-70°   | 2419.0  | 7.1       |
| 70°-80°   | 848.7   | 2.5       |
| 80°-90°   | 147.5   | 0.4       |
| 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°    | 34194.0 | 100.0     |
| 0°-180°   | 34194.0 | 100.0     |

**Coefficient of Utilization**



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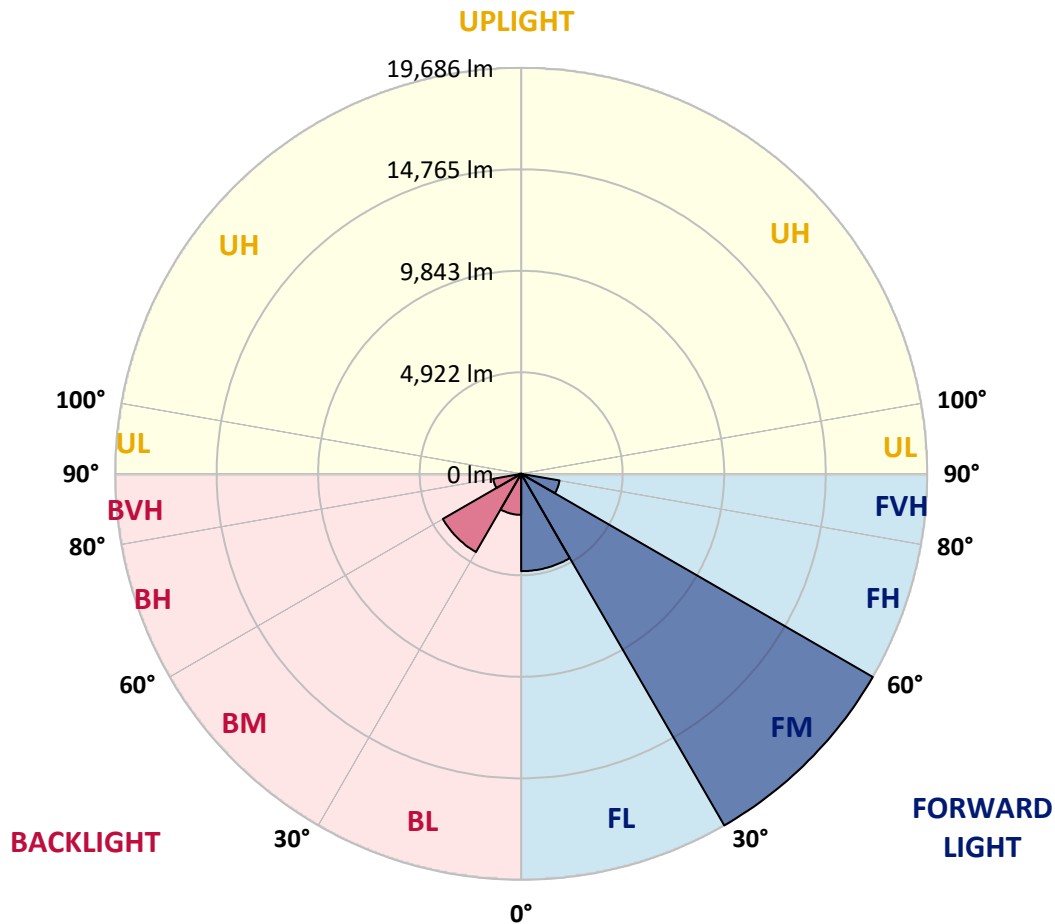
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4720.0  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 19686.4 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 1887.5  | 5.5       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 66.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1991.4  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4380.9  | 12.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1380.2  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 81.5    | 0.2       |                         |      | 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°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  | 4760.1  |
| 2.5°  | 6122.5  | 6084.5  | 5970.2  | 5932.1  | 5796.7  | 5551.3  | 5466.7  | 5217.1  | 5111.3  | 5014.0  | 4899.7  |
| 5°    | 7743.1  | 7565.4  | 7552.7  | 7336.9  | 7023.8  | 6841.8  | 6300.3  | 5936.4  | 5602.1  | 5432.9  | 5119.7  |
| 7.5°  | 8775.5  | 8779.7  | 8779.7  | 8602.0  | 8352.4  | 7891.2  | 7404.6  | 6748.8  | 6245.2  | 5995.6  | 5462.5  |
| 10°   | 9757.1  | 9672.5  | 9626.0  | 9609.0  | 9439.8  | 8991.3  | 8470.9  | 7658.5  | 6968.8  | 6676.8  | 5720.6  |
| 12.5° | 10451.1 | 10379.1 | 10484.9 | 10429.9 | 10307.2 | 10015.2 | 9524.4  | 8597.8  | 7734.6  | 7341.1  | 6135.2  |
| 15°   | 10781.1 | 10831.9 | 10916.5 | 11068.8 | 11013.8 | 10903.8 | 10362.2 | 9562.5  | 8559.7  | 8115.4  | 6503.3  |
| 17.5° | 11288.8 | 11149.2 | 11250.8 | 11441.2 | 11593.5 | 11542.7 | 11233.8 | 10260.7 | 9376.3  | 8830.5  | 6998.4  |
| 20°   | 11644.3 | 11563.9 | 11614.6 | 11834.7 | 11948.9 | 12236.6 | 12075.8 | 11174.6 | 10159.1 | 9583.7  | 7582.3  |
| 22.5° | 12659.7 | 12541.3 | 12376.3 | 12410.1 | 12452.4 | 12655.5 | 12693.6 | 12177.4 | 11068.8 | 10459.5 | 8136.6  |
| 25°   | 13912.2 | 13802.2 | 13607.5 | 13408.7 | 13286.0 | 13247.9 | 13379.0 | 12964.4 | 11940.4 | 11310.0 | 8733.2  |
| 27.5° | 15291.5 | 15105.4 | 14982.7 | 14572.2 | 14242.2 | 14191.4 | 14128.0 | 13903.7 | 12972.8 | 12291.6 | 9406.0  |
| 30°   | 16632.8 | 16484.7 | 16319.7 | 15663.9 | 15321.2 | 15266.2 | 14953.0 | 15016.5 | 14094.1 | 13336.7 | 10167.6 |
| 32.5° | 17648.3 | 17661.0 | 17284.4 | 16789.4 | 16467.8 | 16175.9 | 16061.6 | 16243.6 | 15532.7 | 14923.4 | 11018.0 |
| 35°   | 18469.2 | 18507.3 | 18147.6 | 17699.1 | 17352.1 | 17555.2 | 17504.5 | 17589.1 | 17250.6 | 16505.9 | 12008.1 |
| 37.5° | 19268.9 | 19078.5 | 18693.4 | 18477.6 | 18295.7 | 18630.0 | 19061.5 | 19133.5 | 19196.9 | 18321.1 | 13159.0 |
| 40°   | 19400.0 | 19417.0 | 19192.7 | 19345.0 | 19116.5 | 19620.1 | 20622.9 | 20529.8 | 20787.9 | 20022.0 | 14407.2 |
| 42.5° | 19213.9 | 19251.9 | 19340.8 | 19556.6 | 20106.6 | 20711.7 | 22201.1 | 21820.3 | 22133.4 | 21452.2 | 15621.6 |
| 45°   | 18909.2 | 18752.7 | 18862.7 | 19683.5 | 20635.5 | 21981.1 | 23643.9 | 23347.7 | 23246.2 | 22675.0 | 17068.6 |
| 47.5° | 17453.7 | 17614.5 | 17957.2 | 18968.5 | 20398.6 | 22201.1 | 24667.9 | 24600.2 | 24904.8 | 24502.9 | 18384.6 |
| 50°   | 15435.4 | 15371.9 | 16032.0 | 17170.2 | 19015.0 | 21769.5 | 24612.9 | 25226.4 | 25882.2 | 25323.7 | 18972.7 |
| 52.5° | 11559.6 | 11898.1 | 12465.1 | 13878.3 | 16510.1 | 19417.0 | 23411.2 | 24435.2 | 24968.3 | 24849.8 | 18498.8 |
| 55°   | 7307.3  | 7408.8  | 7751.6  | 9431.3  | 11800.8 | 15583.5 | 20068.6 | 22442.3 | 23394.3 | 23838.6 | 18063.0 |
| 57.5° | 3550.0  | 3359.6  | 3778.5  | 5128.2  | 6816.5  | 10480.7 | 15477.7 | 19548.1 | 21617.2 | 22421.1 | 17115.2 |
| 60°   | 1853.3  | 1925.2  | 2090.2  | 2572.6  | 3524.6  | 5441.3  | 9647.1  | 13027.9 | 16188.6 | 17424.1 | 12972.8 |
| 62.5° | 1535.9  | 1561.3  | 1671.3  | 1912.5  | 2344.1  | 3131.1  | 4925.1  | 6351.0  | 8255.1  | 9367.9  | 7379.2  |
| 65°   | 1303.2  | 1315.9  | 1434.4  | 1595.2  | 1870.2  | 2204.5  | 2534.5  | 2653.0  | 3211.5  | 3296.1  | 2623.3  |
| 67.5° | 1087.4  | 1100.1  | 1227.0  | 1379.4  | 1557.1  | 1645.9  | 1730.6  | 1722.1  | 1785.6  | 1760.2  | 1755.9  |
| 70°   | 837.8   | 850.5   | 981.6   | 1142.4  | 1231.3  | 1180.5  | 1442.8  | 1502.1  | 1527.5  | 1548.6  | 1582.5  |
| 72.5° | 605.1   | 630.4   | 732.0   | 846.2   | 799.7   | 918.2   | 1189.0  | 1277.8  | 1311.7  | 1324.4  | 1366.7  |
| 75°   | 440.0   | 448.5   | 473.9   | 440.0   | 507.7   | 638.9   | 837.8   | 947.8   | 990.1   | 1002.8  | 1066.3  |
| 77.5° | 194.6   | 198.9   | 203.1   | 253.9   | 325.8   | 397.7   | 499.3   | 588.1   | 647.4   | 664.3   | 681.2   |
| 80°   | 101.5   | 105.8   | 131.2   | 173.5   | 232.7   | 292.0   | 363.9   | 414.7   | 452.7   | 457.0   | 473.9   |
| 82.5° | 63.5    | 67.7    | 93.1    | 122.7   | 165.0   | 215.8   | 266.6   | 308.9   | 338.5   | 342.7   | 347.0   |
| 85°   | 29.6    | 38.1    | 55.0    | 76.2    | 110.0   | 139.6   | 143.9   | 122.7   | 131.2   | 135.4   | 126.9   |
| 87.5° | 8.5     | 12.7    | 16.9    | 12.7    | 16.9    | 16.9    | 21.2    | 25.4    | 25.4    | 25.4    | 29.6    |
| 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°    | 4760.1  | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 | 4760.1 |
| 2.5°  | 4836.3  | 4798.2 | 4650.1 | 4595.1 | 4451.2 | 4476.6 | 4400.4 | 4396.2 | 4379.3 | 4375.1 | 4370.8 |
| 5°    | 4954.7  | 4836.3 | 4658.5 | 4523.1 | 4442.8 | 4434.3 | 4379.3 | 4379.3 | 4396.2 | 4408.9 | 4379.3 |
| 7.5°  | 5149.4  | 5014.0 | 4713.6 | 4586.6 | 4514.7 | 4502.0 | 4463.9 | 4434.3 | 4472.4 | 4459.7 | 4425.8 |
| 10°   | 5373.6  | 5136.7 | 4819.3 | 4709.3 | 4590.8 | 4561.2 | 4561.2 | 4573.9 | 4510.5 | 4531.6 | 4497.8 |
| 12.5° | 5623.3  | 5305.9 | 4954.7 | 4827.8 | 4688.2 | 4671.2 | 4662.8 | 4569.7 | 4603.5 | 4586.6 | 4502.0 |
| 15°   | 5940.6  | 5500.6 | 5128.2 | 4912.4 | 4793.9 | 4717.8 | 4607.8 | 4590.8 | 4569.7 | 4527.4 | 4489.3 |
| 17.5° | 6283.3  | 5712.1 | 5208.6 | 4937.8 | 4760.1 | 4705.1 | 4620.5 | 4531.6 | 4468.1 | 4476.6 | 4447.0 |
| 20°   | 6575.3  | 5906.8 | 5238.2 | 4963.2 | 4734.7 | 4628.9 | 4497.8 | 4442.8 | 4375.1 | 4370.8 | 4366.6 |
| 22.5° | 6922.2  | 6169.1 | 5280.5 | 4895.5 | 4658.5 | 4548.5 | 4459.7 | 4362.4 | 4315.8 | 4256.6 | 4286.2 |
| 25°   | 7336.9  | 6270.6 | 5289.0 | 4857.4 | 4603.5 | 4408.9 | 4362.4 | 4256.6 | 4239.7 | 4155.0 | 4172.0 |
| 27.5° | 7637.3  | 6325.6 | 5221.3 | 4738.9 | 4476.6 | 4328.5 | 4243.9 | 4167.7 | 4138.1 | 4074.6 | 4057.7 |
| 30°   | 8039.3  | 6410.3 | 5077.4 | 4590.8 | 4349.7 | 4184.7 | 4133.9 | 4117.0 | 4032.3 | 3964.6 | 3956.2 |
| 32.5° | 8496.2  | 6465.3 | 4984.3 | 4438.5 | 4218.5 | 4091.6 | 4117.0 | 4036.6 | 3930.8 | 3871.5 | 3854.6 |
| 35°   | 8860.1  | 6486.4 | 4751.6 | 4265.0 | 4129.6 | 4049.3 | 4019.6 | 4002.7 | 3850.4 | 3795.4 | 3753.1 |
| 37.5° | 9414.4  | 6439.9 | 4557.0 | 4142.3 | 4032.3 | 4002.7 | 3977.3 | 3863.1 | 3689.6 | 3609.2 | 3550.0 |
| 40°   | 10061.8 | 6427.2 | 4307.4 | 3968.9 | 3939.2 | 3973.1 | 3896.9 | 3719.2 | 3478.0 | 3389.2 | 3346.9 |
| 42.5° | 10683.8 | 6516.0 | 4150.8 | 3875.8 | 3837.7 | 3850.4 | 3744.6 | 3478.0 | 3359.6 | 3308.8 | 3241.1 |
| 45°   | 11724.6 | 6702.2 | 3892.7 | 3731.9 | 3715.0 | 3706.5 | 3579.6 | 3300.3 | 3232.6 | 3169.2 | 3156.5 |
| 47.5° | 12664.0 | 6579.5 | 3727.7 | 3583.8 | 3600.7 | 3554.2 | 3283.4 | 3194.6 | 3118.4 | 3054.9 | 3033.8 |
| 50°   | 12719.0 | 6287.6 | 3495.0 | 3469.6 | 3473.8 | 3393.4 | 3135.3 | 3076.1 | 2978.8 | 2936.5 | 2906.8 |
| 52.5° | 12431.3 | 5809.4 | 3279.2 | 3287.6 | 3300.3 | 3169.2 | 2953.4 | 2911.1 | 2830.7 | 2771.4 | 2754.5 |
| 55°   | 11623.1 | 5064.7 | 3067.6 | 3101.5 | 3135.3 | 2885.7 | 2818.0 | 2712.2 | 2648.7 | 2564.1 | 2568.3 |
| 57.5° | 10239.5 | 4078.9 | 2771.4 | 2826.4 | 2898.4 | 2623.3 | 2572.6 | 2441.4 | 2348.3 | 2280.6 | 2272.2 |
| 60°   | 6863.0  | 2902.6 | 2327.2 | 2348.3 | 2509.1 | 2399.1 | 2394.9 | 2263.7 | 2136.8 | 2077.5 | 2043.7 |
| 62.5° | 4049.3  | 2217.1 | 2009.8 | 1988.7 | 1984.4 | 2047.9 | 2153.7 | 2107.1 | 1942.1 | 1827.9 | 1861.7 |
| 65°   | 2119.8  | 1916.7 | 1870.2 | 1798.3 | 1755.9 | 1739.0 | 1819.4 | 1840.6 | 1730.6 | 1607.9 | 1599.4 |
| 67.5° | 1781.3  | 1781.3 | 1743.3 | 1717.9 | 1658.6 | 1586.7 | 1535.9 | 1468.2 | 1451.3 | 1417.5 | 1375.1 |
| 70°   | 1620.5  | 1662.9 | 1650.2 | 1590.9 | 1540.2 | 1459.8 | 1328.6 | 1218.6 | 1112.8 | 1074.7 | 1100.1 |
| 72.5° | 1413.2  | 1455.5 | 1455.5 | 1425.9 | 1358.2 | 1235.5 | 1108.6 | 981.6  | 892.8  | 825.1  | 816.6  |
| 75°   | 1087.4  | 1108.6 | 1159.3 | 1125.5 | 1036.6 | 960.5  | 829.3  | 698.1  | 613.5  | 550.1  | 537.4  |
| 77.5° | 693.9   | 727.8  | 727.8  | 723.5  | 660.1  | 588.1  | 503.5  | 410.4  | 347.0  | 300.4  | 287.7  |
| 80°   | 461.2   | 482.4  | 499.3  | 482.4  | 440.0  | 385.0  | 321.6  | 258.1  | 211.6  | 173.5  | 165.0  |
| 82.5° | 338.5   | 363.9  | 376.6  | 359.7  | 317.3  | 275.0  | 228.5  | 181.9  | 135.4  | 105.8  | 97.3   |
| 85°   | 131.2   | 135.4  | 152.3  | 181.9  | 177.7  | 173.5  | 139.6  | 101.5  | 76.2   | 55.0   | 50.8   |
| 87.5° | 33.8    | 29.6   | 33.8   | 33.8   | 29.6   | 25.4   | 25.4   | 25.4   | 25.4   | 12.7   | 16.9   |
| 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)