

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: P531847

Luminaire Tested: **GALN-SA7A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P531847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-830-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14802 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

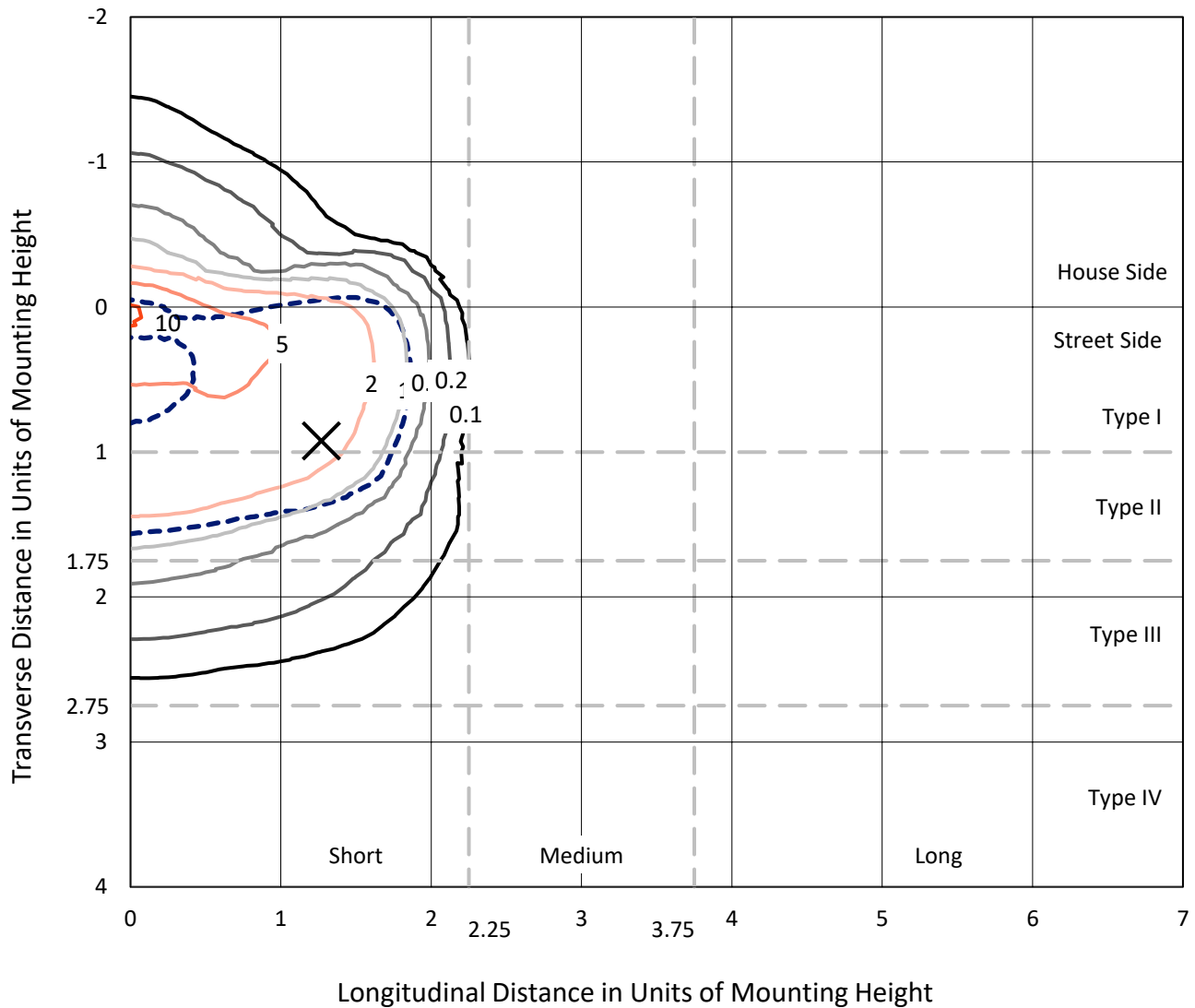
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

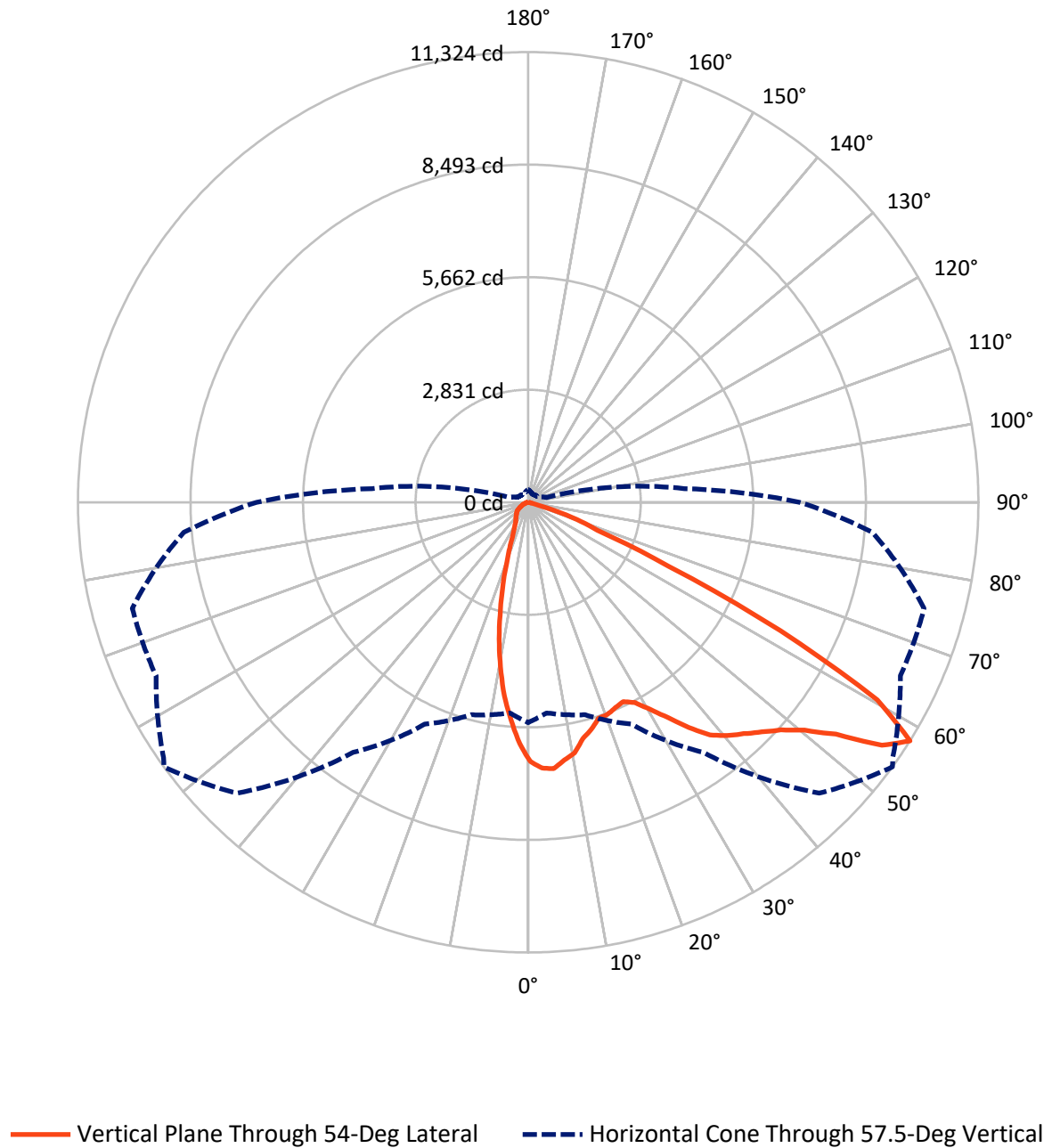


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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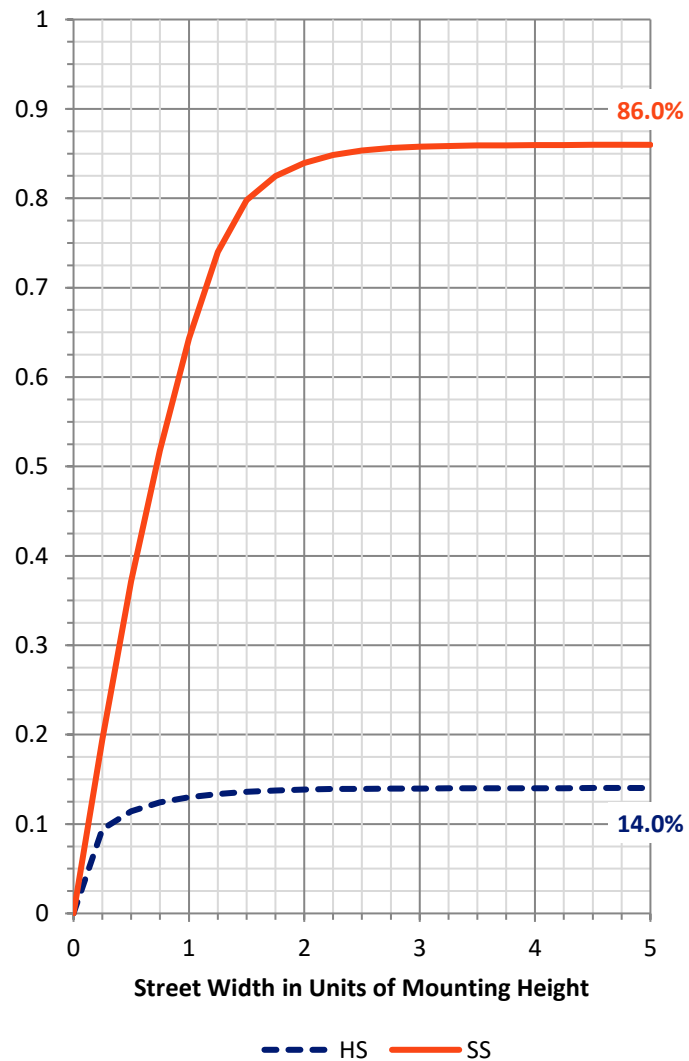
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2091.8   | 0.0    | 2091.8  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 12710.2  | 0.0    | 12710.2 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 14802.0  | 0.0    | 14802.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 545.6   | 3.7       |
| 10°-20°   | 1164.9  | 7.9       |
| 20°-30°   | 1543.8  | 10.4      |
| 30°-40°   | 2243.6  | 15.2      |
| 40°-50°   | 3326.9  | 22.5      |
| 50°-60°   | 4160.1  | 28.1      |
| 60°-70°   | 1641.0  | 11.1      |
| 70°-80°   | 163.4   | 1.1       |
| 80°-90°   | 12.7    | 0.1       |
| 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°    | 14802.0 | 100.0     |
| 0°-180°   | 14802.0 | 100.0     |

**Coefficient of Utilization**



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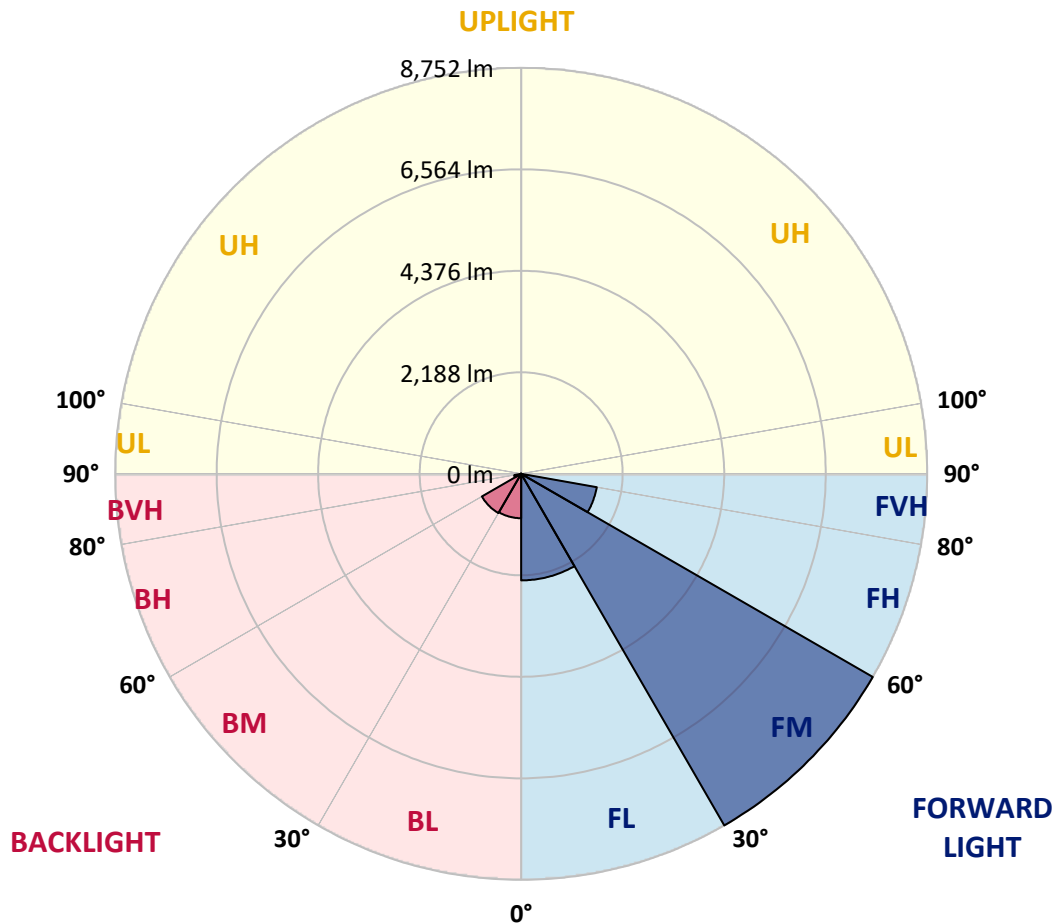
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2297.7 | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 8752.4 | 59.1      |                         |      |         |
| FH   | (60°-80°)   | 1654.4 | 11.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 5.8    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 956.7  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 978.2  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 150.0  | 1.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.9    | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 54°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5  | 6520.5  | 6520.5  | 6520.5  | 6520.5  | 6520.5 |
| 2.5°  | 6900.3 | 6828.8 | 6834.3 | 6809.5 | 6776.5 | 6801.2  | 6693.9  | 6718.7  | 6715.9  | 6570.0  | 6473.7 |
| 5°    | 6726.9 | 6804.0 | 6724.2 | 6790.2 | 6726.9 | 6795.7  | 6729.7  | 6680.1  | 6600.3  | 6493.0  | 6314.0 |
| 7.5°  | 6432.4 | 6358.1 | 6380.1 | 6462.7 | 6476.4 | 6630.6  | 6548.0  | 6611.3  | 6578.3  | 6366.3  | 6121.4 |
| 10°   | 5840.6 | 5824.1 | 5934.2 | 6044.3 | 6179.2 | 6344.3  | 6407.6  | 6371.8  | 6347.1  | 6267.3  | 5939.7 |
| 12.5° | 5386.5 | 5433.3 | 5430.5 | 5612.2 | 5840.6 | 5934.2  | 6099.4  | 6093.9  | 6231.5  | 6082.8  | 5769.1 |
| 15°   | 4954.4 | 4979.1 | 5094.7 | 5207.6 | 5460.8 | 5727.8  | 5931.5  | 5959.0  | 6124.1  | 6019.5  | 5637.0 |
| 17.5° | 4690.1 | 4654.3 | 4745.2 | 4880.0 | 5138.8 | 5488.3  | 5714.0  | 5780.1  | 6005.8  | 5983.8  | 5485.6 |
| 20°   | 4428.6 | 4428.6 | 4503.0 | 4662.6 | 4899.3 | 5292.9  | 5694.8  | 5675.5  | 6005.8  | 5942.5  | 5323.2 |
| 22.5° | 4340.6 | 4384.6 | 4403.9 | 4525.0 | 4805.7 | 5144.3  | 5612.2  | 5648.0  | 6052.6  | 5923.2  | 5251.6 |
| 25°   | 4461.7 | 4403.9 | 4409.4 | 4505.7 | 4769.9 | 5072.7  | 5551.6  | 5631.4  | 6137.9  | 6019.5  | 5193.8 |
| 27.5° | 4480.9 | 4538.7 | 4555.3 | 4621.3 | 4797.5 | 5094.7  | 5703.0  | 5865.4  | 6349.8  | 6245.2  | 5210.3 |
| 30°   | 4648.8 | 4706.6 | 4703.9 | 4816.7 | 4937.8 | 5273.6  | 6041.6  | 6074.6  | 6787.5  | 6528.7  | 5312.2 |
| 32.5° | 4852.5 | 4913.1 | 4932.3 | 5064.5 | 5160.8 | 5601.2  | 6454.4  | 6539.7  | 7208.6  | 6974.6  | 5579.2 |
| 35°   | 5105.7 | 5083.7 | 5171.8 | 5303.9 | 5510.3 | 6080.1  | 6958.1  | 7101.2  | 7662.7  | 7552.6  | 5854.4 |
| 37.5° | 5422.3 | 5394.7 | 5480.1 | 5694.8 | 5975.5 | 6647.1  | 7423.3  | 7516.9  | 7993.0  | 8089.4  | 6363.6 |
| 40°   | 5645.2 | 5656.2 | 5914.9 | 6204.0 | 6501.2 | 7186.6  | 7717.8  | 7808.6  | 8224.2  | 8590.3  | 6748.9 |
| 42.5° | 6016.8 | 6085.6 | 6396.6 | 6748.9 | 7060.0 | 7591.2  | 7957.2  | 8045.3  | 8331.6  | 8992.2  | 7269.1 |
| 45°   | 6556.3 | 6526.0 | 6870.0 | 7263.6 | 7607.7 | 8012.3  | 8240.7  | 8210.5  | 8394.9  | 9391.3  | 7596.7 |
| 47.5° | 7249.9 | 7255.4 | 7483.8 | 7819.6 | 8177.4 | 8378.4  | 8557.3  | 8449.9  | 8527.0  | 9812.4  | 8034.3 |
| 50°   | 7723.3 | 7764.6 | 7949.0 | 8293.0 | 8471.9 | 8780.2  | 9008.7  | 8942.6  | 8917.8  | 10065.6 | 8309.6 |
| 52.5° | 7844.4 | 7968.3 | 8067.3 | 8496.7 | 8915.1 | 9402.3  | 9694.0  | 9834.4  | 9394.0  | 10150.9 | 8659.1 |
| 55°   | 6930.6 | 7040.7 | 7390.2 | 7979.3 | 9083.0 | 10387.6 | 10789.5 | 10792.2 | 10016.1 | 10530.8 | 8904.1 |
| 57.5° | 5540.6 | 5317.7 | 5532.4 | 6157.2 | 7679.2 | 10346.3 | 11323.5 | 11194.1 | 10327.1 | 10307.8 | 8692.1 |
| 60°   | 3831.4 | 3776.3 | 3790.1 | 4037.8 | 5314.9 | 8229.7  | 10090.4 | 10258.3 | 9509.6  | 8934.4  | 6881.0 |
| 62.5° | 3035.9 | 2989.1 | 2928.6 | 2901.0 | 3300.2 | 5127.8  | 7117.8  | 7354.5  | 6649.8  | 5793.8  | 4079.1 |
| 65°   | 2378.1 | 2350.6 | 2358.8 | 2468.9 | 2466.2 | 2909.3  | 3891.9  | 3795.6  | 3038.7  | 2246.0  | 1282.6 |
| 67.5° | 1604.7 | 1645.9 | 1679.0 | 2012.0 | 2182.7 | 2025.8  | 1879.9  | 1824.9  | 988.1   | 415.6   | 283.5  |
| 70°   | 902.8  | 908.3  | 944.1  | 1257.9 | 1657.0 | 1571.6  | 1296.4  | 1296.4  | 492.7   | 151.4   | 162.4  |
| 72.5° | 492.7  | 476.2  | 443.1  | 542.2  | 737.6  | 748.7   | 578.0   | 503.7   | 145.9   | 99.1    | 90.8   |
| 75°   | 239.5  | 236.7  | 203.7  | 167.9  | 159.6  | 132.1   | 101.8   | 93.6    | 66.1    | 63.3    | 55.0   |
| 77.5° | 49.5   | 46.8   | 24.8   | 24.8   | 27.5   | 30.3    | 38.5    | 38.5    | 46.8    | 46.8    | 38.5   |
| 80°   | 0.0    | 0.0    | 2.8    | 11.0   | 19.3   | 27.5    | 33.0    | 33.0    | 38.5    | 38.5    | 30.3   |
| 82.5° | 0.0    | 0.0    | 2.8    | 8.3    | 16.5   | 24.8    | 30.3    | 33.0    | 38.5    | 41.3    | 33.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 5.5    | 13.8   | 19.3    | 16.5    | 16.5    | 13.8    | 11.0    | 5.5    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 | 6520.5 |
| 2.5°  | 6424.1 | 6418.6 | 6292.0 | 6220.5 | 6091.1 | 5978.3 | 5887.4 | 5821.4 | 5821.4 | 5780.1 | 5741.5 |
| 5°    | 6242.5 | 6195.7 | 5926.0 | 5752.6 | 5507.6 | 5325.9 | 5202.1 | 5105.7 | 4954.4 | 4995.6 | 4833.2 |
| 7.5°  | 6016.8 | 5898.4 | 5540.6 | 5276.4 | 4937.8 | 4679.1 | 4414.9 | 4180.9 | 3955.2 | 3853.4 | 3908.4 |
| 10°   | 5774.6 | 5568.1 | 5086.5 | 4668.1 | 4247.0 | 3773.6 | 3465.3 | 3091.0 | 2859.8 | 2846.0 | 2785.4 |
| 12.5° | 5518.6 | 5284.6 | 4698.4 | 4120.4 | 3567.1 | 2997.4 | 2526.7 | 2177.2 | 2020.3 | 1846.9 | 1879.9 |
| 15°   | 5325.9 | 4979.1 | 4266.2 | 3569.9 | 2835.0 | 2259.7 | 1786.3 | 1516.6 | 1368.0 | 1326.7 | 1312.9 |
| 17.5° | 5116.7 | 4745.2 | 3825.9 | 2983.6 | 2224.0 | 1626.7 | 1285.4 | 1156.0 | 1098.2 | 1098.2 | 1090.0 |
| 20°   | 4899.3 | 4480.9 | 3388.2 | 2438.6 | 1668.0 | 1213.8 | 1029.4 | 988.1  | 985.4  | 982.6  | 982.6  |
| 22.5° | 4756.2 | 4178.2 | 2991.9 | 1937.7 | 1257.9 | 971.6  | 894.5  | 878.0  | 889.0  | 922.1  | 922.1  |
| 25°   | 4604.8 | 3886.4 | 2554.2 | 1494.6 | 974.4  | 834.0  | 789.9  | 801.0  | 828.5  | 858.8  | 847.7  |
| 27.5° | 4450.7 | 3696.5 | 2141.4 | 1172.5 | 798.2  | 729.4  | 712.9  | 737.6  | 767.9  | 795.4  | 787.2  |
| 30°   | 4414.9 | 3492.8 | 1750.5 | 889.0  | 685.4  | 635.8  | 646.8  | 668.8  | 699.1  | 710.1  | 721.1  |
| 32.5° | 4469.9 | 3333.2 | 1434.0 | 729.4  | 597.3  | 583.5  | 583.5  | 594.5  | 613.8  | 638.6  | 630.3  |
| 35°   | 4626.8 | 3242.3 | 1134.0 | 633.1  | 547.7  | 534.0  | 531.2  | 542.2  | 553.2  | 561.5  | 553.2  |
| 37.5° | 4866.3 | 3170.8 | 927.6  | 561.5  | 514.7  | 492.7  | 487.2  | 484.4  | 495.4  | 498.2  | 503.7  |
| 40°   | 5171.8 | 3209.3 | 787.2  | 517.5  | 481.7  | 456.9  | 440.4  | 440.4  | 440.4  | 448.6  | 451.4  |
| 42.5° | 5502.1 | 3261.6 | 679.8  | 492.7  | 451.4  | 421.1  | 404.6  | 399.1  | 404.6  | 415.6  | 412.9  |
| 45°   | 5848.9 | 3363.5 | 611.0  | 454.1  | 423.9  | 385.3  | 363.3  | 357.8  | 371.6  | 393.6  | 390.8  |
| 47.5° | 6173.7 | 3509.3 | 558.7  | 429.4  | 396.3  | 360.6  | 333.0  | 327.5  | 352.3  | 382.6  | 385.3  |
| 50°   | 6498.5 | 3762.6 | 539.5  | 410.1  | 377.1  | 335.8  | 311.0  | 305.5  | 333.0  | 371.6  | 379.8  |
| 52.5° | 6872.8 | 4035.0 | 525.7  | 385.3  | 355.1  | 316.5  | 289.0  | 283.5  | 313.8  | 363.3  | 366.1  |
| 55°   | 7117.8 | 4266.2 | 514.7  | 341.3  | 313.8  | 286.3  | 264.2  | 261.5  | 294.5  | 338.5  | 349.6  |
| 57.5° | 6831.5 | 3944.2 | 476.2  | 297.3  | 267.0  | 253.2  | 234.0  | 234.0  | 261.5  | 302.8  | 311.0  |
| 60°   | 5180.1 | 2595.5 | 338.5  | 239.5  | 225.7  | 217.4  | 209.2  | 209.2  | 231.2  | 261.5  | 264.2  |
| 62.5° | 3033.2 | 1398.2 | 217.4  | 192.7  | 192.7  | 184.4  | 170.6  | 170.6  | 192.7  | 209.2  | 211.9  |
| 65°   | 900.0  | 448.6  | 176.2  | 165.1  | 162.4  | 148.6  | 134.9  | 132.1  | 148.6  | 156.9  | 154.1  |
| 67.5° | 258.7  | 206.4  | 145.9  | 137.6  | 134.9  | 112.8  | 104.6  | 101.8  | 104.6  | 99.1   | 96.3   |
| 70°   | 154.1  | 140.4  | 112.8  | 115.6  | 101.8  | 82.6   | 74.3   | 71.6   | 66.1   | 57.8   | 52.3   |
| 72.5° | 85.3   | 85.3   | 82.6   | 88.1   | 71.6   | 55.0   | 46.8   | 38.5   | 30.3   | 24.8   | 22.0   |
| 75°   | 52.3   | 55.0   | 57.8   | 60.6   | 46.8   | 35.8   | 30.3   | 19.3   | 11.0   | 5.5    | 5.5    |
| 77.5° | 35.8   | 38.5   | 41.3   | 44.0   | 38.5   | 33.0   | 24.8   | 13.8   | 2.8    | 0.0    | 0.0    |
| 80°   | 27.5   | 30.3   | 35.8   | 38.5   | 41.3   | 44.0   | 33.0   | 13.8   | 2.8    | 0.0    | 0.0    |
| 82.5° | 30.3   | 33.0   | 41.3   | 38.5   | 38.5   | 38.5   | 30.3   | 13.8   | 2.8    | 0.0    | 0.0    |
| 85°   | 5.5    | 8.3    | 13.8   | 13.8   | 19.3   | 24.8   | 19.3   | 5.5    | 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    |

(END OF REPORT)