

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: P530755

Luminaire Tested: **GALN-SA6A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530755  
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-SA6A-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 14443 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

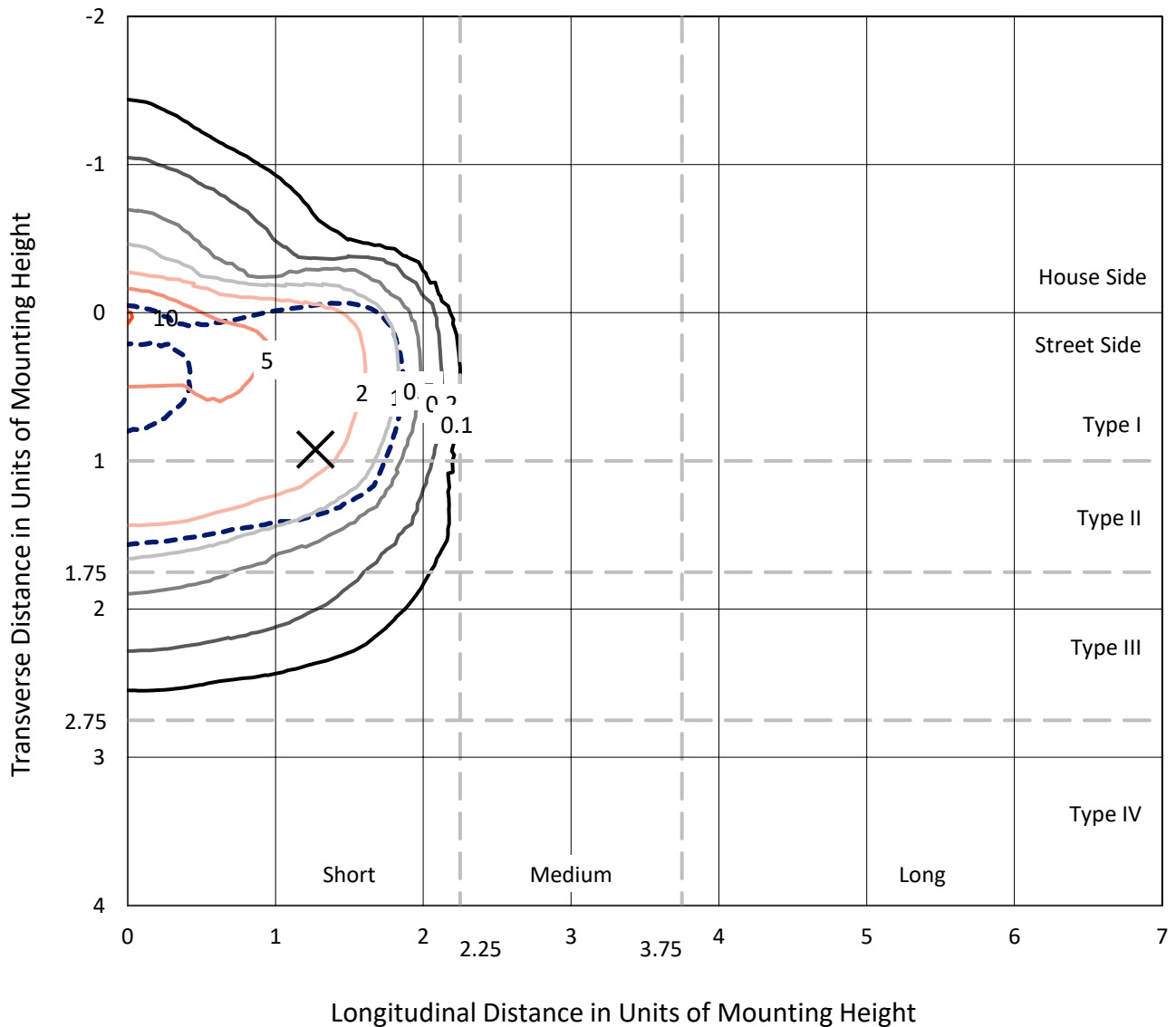
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

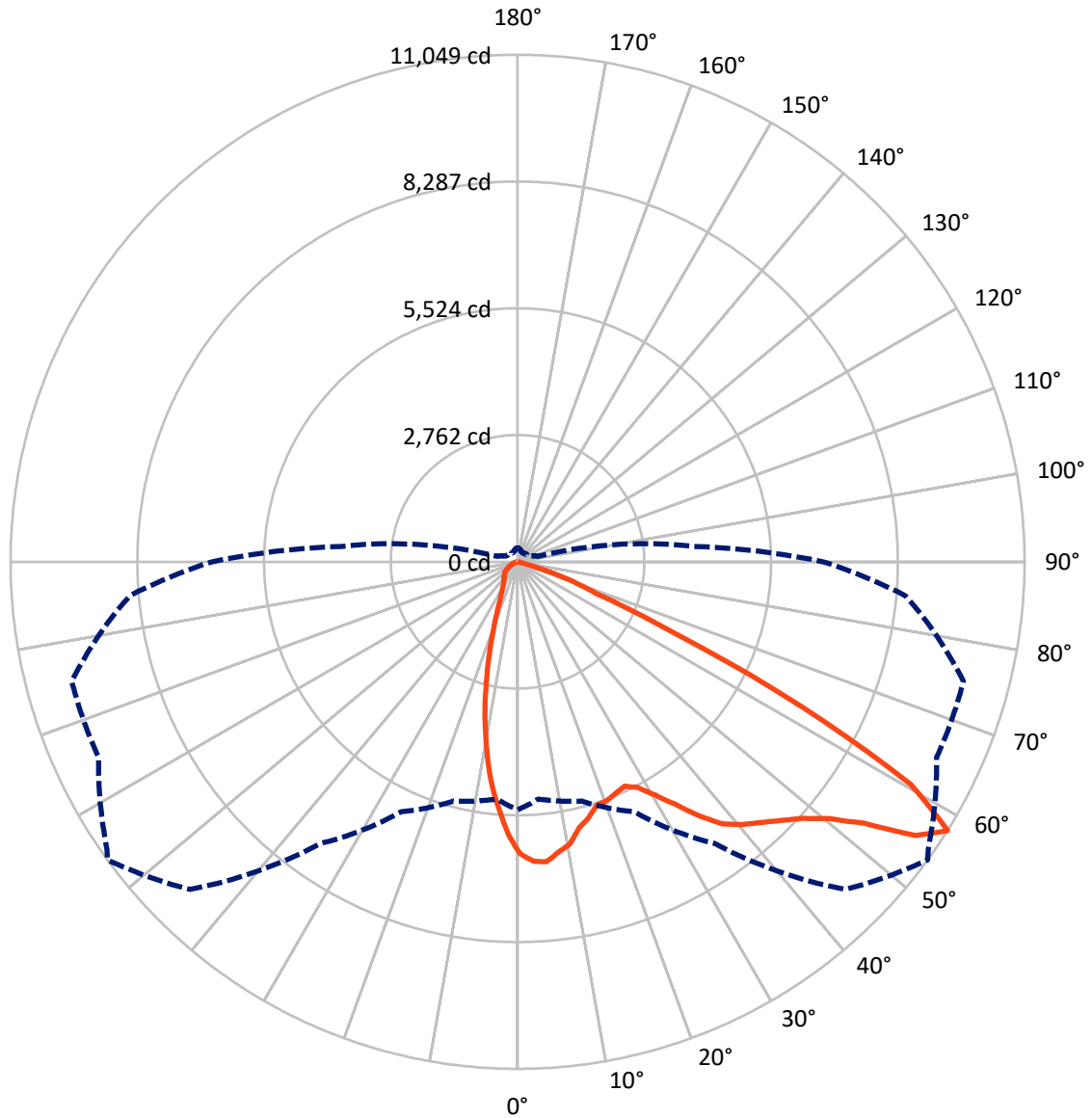
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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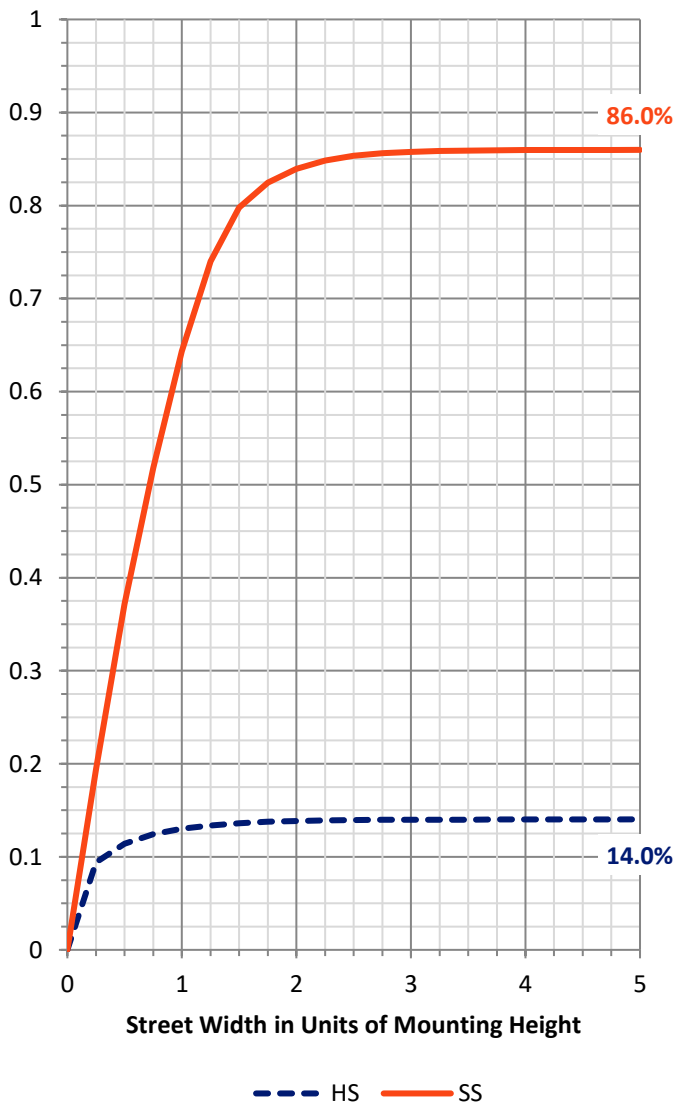
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2041.0   | 0.0    | 2041.0  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 12402.0  | 0.0    | 12402.0 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 14443.0  | 0.0    | 14443.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 532.4   | 3.7       |
| 10°-20°   | 1136.7  | 7.9       |
| 20°-30°   | 1506.3  | 10.4      |
| 30°-40°   | 2189.1  | 15.2      |
| 40°-50°   | 3246.2  | 22.5      |
| 50°-60°   | 4059.2  | 28.1      |
| 60°-70°   | 1601.2  | 11.1      |
| 70°-80°   | 159.4   | 1.1       |
| 80°-90°   | 12.4    | 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°    | 14443.0 | 100.0     |
| 0°-180°   | 14443.0 | 100.0     |

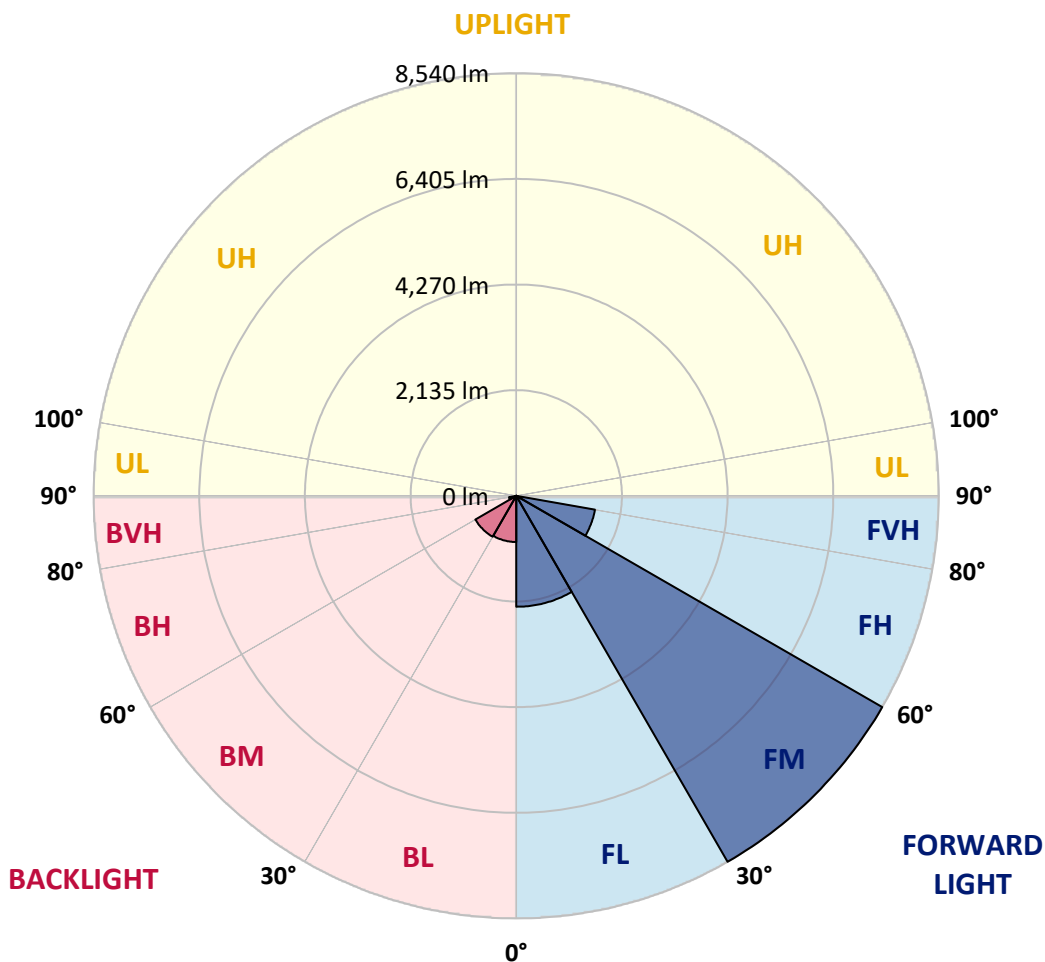


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2242.0 | 15.5      |                         |      |         |
| FM (30°-60°)   | 8540.1 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1614.2 | 11.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 5.6    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 933.5  | 6.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 954.4  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 146.4  | 1.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 6.8    | 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°    | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3  | 6362.3  | 6362.3  | 6362.3  | 6362.3  | 6362.3 |
| 2.5°  | 6733.0 | 6663.1 | 6668.5 | 6644.3 | 6612.1 | 6636.3  | 6531.5  | 6555.7  | 6553.0  | 6410.7  | 6316.7 |
| 5°    | 6563.8 | 6639.0 | 6561.1 | 6625.5 | 6563.8 | 6630.9  | 6566.4  | 6518.1  | 6440.2  | 6335.5  | 6160.9 |
| 7.5°  | 6276.4 | 6203.9 | 6225.4 | 6305.9 | 6319.4 | 6469.8  | 6389.2  | 6451.0  | 6418.7  | 6211.9  | 5972.9 |
| 10°   | 5699.0 | 5682.9 | 5790.3 | 5897.7 | 6029.3 | 6190.5  | 6252.2  | 6217.3  | 6193.1  | 6115.3  | 5795.7 |
| 12.5° | 5255.8 | 5301.5 | 5298.8 | 5476.1 | 5699.0 | 5790.3  | 5951.4  | 5946.1  | 6080.3  | 5935.3  | 5629.1 |
| 15°   | 4834.2 | 4858.4 | 4971.2 | 5081.3 | 5328.4 | 5588.9  | 5787.6  | 5814.5  | 5975.6  | 5873.5  | 5500.2 |
| 17.5° | 4576.4 | 4541.5 | 4630.1 | 4761.7 | 5014.1 | 5355.2  | 5575.4  | 5639.9  | 5860.1  | 5838.6  | 5352.5 |
| 20°   | 4321.2 | 4321.2 | 4393.7 | 4549.5 | 4780.5 | 5164.5  | 5556.6  | 5537.8  | 5860.1  | 5798.3  | 5194.1 |
| 22.5° | 4235.3 | 4278.3 | 4297.1 | 4415.2 | 4689.2 | 5019.5  | 5476.1  | 5511.0  | 5905.8  | 5779.5  | 5124.2 |
| 25°   | 4353.5 | 4297.1 | 4302.4 | 4396.4 | 4654.3 | 4949.7  | 5417.0  | 5494.9  | 5989.0  | 5873.5  | 5067.8 |
| 27.5° | 4372.3 | 4428.7 | 4444.8 | 4509.2 | 4681.1 | 4971.2  | 5564.7  | 5723.1  | 6195.8  | 6093.8  | 5084.0 |
| 30°   | 4536.1 | 4592.5 | 4589.8 | 4699.9 | 4818.1 | 5145.7  | 5895.0  | 5927.3  | 6622.8  | 6370.4  | 5183.3 |
| 32.5° | 4734.8 | 4793.9 | 4812.7 | 4941.6 | 5035.6 | 5465.3  | 6297.9  | 6381.1  | 7033.8  | 6805.5  | 5443.8 |
| 35°   | 4981.9 | 4960.4 | 5046.4 | 5175.3 | 5376.7 | 5932.6  | 6789.4  | 6929.0  | 7476.9  | 7369.5  | 5712.4 |
| 37.5° | 5290.8 | 5263.9 | 5347.2 | 5556.6 | 5830.6 | 6485.9  | 7243.2  | 7334.5  | 7799.2  | 7893.2  | 6209.3 |
| 40°   | 5508.3 | 5519.0 | 5771.5 | 6053.5 | 6343.5 | 7012.3  | 7530.6  | 7619.2  | 8024.8  | 8382.0  | 6585.2 |
| 42.5° | 5870.9 | 5938.0 | 6241.5 | 6585.2 | 6888.7 | 7407.1  | 7764.3  | 7850.2  | 8129.5  | 8774.1  | 7092.8 |
| 45°   | 6397.2 | 6367.7 | 6703.4 | 7087.5 | 7423.2 | 7818.0  | 8040.9  | 8011.3  | 8191.3  | 9163.5  | 7412.4 |
| 47.5° | 7074.0 | 7079.4 | 7302.3 | 7630.0 | 7979.1 | 8175.2  | 8349.7  | 8245.0  | 8320.2  | 9574.4  | 7839.5 |
| 50°   | 7536.0 | 7576.3 | 7756.2 | 8091.9 | 8266.5 | 8567.3  | 8790.2  | 8725.7  | 8701.5  | 9821.5  | 8108.0 |
| 52.5° | 7654.1 | 7775.0 | 7871.7 | 8290.6 | 8698.9 | 9174.2  | 9458.9  | 9595.9  | 9166.2  | 9904.7  | 8449.1 |
| 55°   | 6762.5 | 6869.9 | 7211.0 | 7785.7 | 8862.7 | 10135.7 | 10527.8 | 10530.5 | 9773.1  | 10275.3 | 8688.1 |
| 57.5° | 5406.2 | 5188.7 | 5398.2 | 6007.8 | 7493.0 | 10095.4 | 11048.8 | 10922.6 | 10076.6 | 10057.8 | 8481.3 |
| 60°   | 3738.4 | 3684.7 | 3698.2 | 3939.9 | 5186.0 | 8030.1  | 9845.6  | 10009.5 | 9279.0  | 8717.7  | 6714.2 |
| 62.5° | 2962.3 | 2916.6 | 2857.5 | 2830.7 | 3220.1 | 5003.4  | 6945.1  | 7176.1  | 6488.6  | 5653.3  | 3980.2 |
| 65°   | 2320.4 | 2293.6 | 2301.6 | 2409.0 | 2406.4 | 2838.7  | 3797.5  | 3703.5  | 2965.0  | 2191.5  | 1251.5 |
| 67.5° | 1565.7 | 1606.0 | 1638.3 | 1963.2 | 2129.7 | 1976.6  | 1834.3  | 1780.6  | 964.2   | 405.5   | 276.6  |
| 70°   | 880.9  | 886.3  | 921.2  | 1227.3 | 1616.8 | 1533.5  | 1264.9  | 1264.9  | 480.7   | 147.7   | 158.5  |
| 72.5° | 480.7  | 464.6  | 432.4  | 529.1  | 719.8  | 730.5   | 564.0   | 491.5   | 142.3   | 96.7    | 88.6   |
| 75°   | 233.7  | 231.0  | 198.7  | 163.8  | 155.8  | 128.9   | 99.4    | 91.3    | 64.5    | 61.8    | 53.7   |
| 77.5° | 48.3   | 45.7   | 24.2   | 24.2   | 26.9   | 29.5    | 37.6    | 37.6    | 45.7    | 45.7    | 37.6   |
| 80°   | 0.0    | 0.0    | 2.7    | 10.7   | 18.8   | 26.9    | 32.2    | 32.2    | 37.6    | 37.6    | 29.5   |
| 82.5° | 0.0    | 0.0    | 2.7    | 8.1    | 16.1   | 24.2    | 29.5    | 32.2    | 37.6    | 40.3    | 32.2   |
| 85°   | 0.0    | 0.0    | 0.0    | 5.4    | 13.4   | 18.8    | 16.1    | 16.1    | 13.4    | 10.7    | 5.4    |
| 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°    | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 | 6362.3 |
| 2.5°  | 6268.3 | 6263.0 | 6139.4 | 6069.6 | 5943.4 | 5833.3 | 5744.6 | 5680.2 | 5680.2 | 5639.9 | 5602.3 |
| 5°    | 6091.1 | 6045.4 | 5782.2 | 5613.0 | 5374.0 | 5196.8 | 5075.9 | 4981.9 | 4834.2 | 4874.5 | 4716.0 |
| 7.5°  | 5870.9 | 5755.4 | 5406.2 | 5148.4 | 4818.1 | 4565.6 | 4307.8 | 4079.5 | 3859.3 | 3759.9 | 3813.6 |
| 10°   | 5634.5 | 5433.1 | 4963.1 | 4554.9 | 4144.0 | 3682.0 | 3381.2 | 3016.0 | 2790.4 | 2777.0 | 2717.9 |
| 12.5° | 5384.8 | 5156.5 | 4584.4 | 4020.4 | 3480.6 | 2924.7 | 2465.4 | 2124.4 | 1971.3 | 1802.1 | 1834.3 |
| 15°   | 5196.8 | 4858.4 | 4162.8 | 3483.3 | 2766.2 | 2204.9 | 1743.0 | 1479.8 | 1334.8 | 1294.5 | 1281.1 |
| 17.5° | 4992.6 | 4630.1 | 3733.1 | 2911.3 | 2170.0 | 1587.2 | 1254.2 | 1128.0 | 1071.6 | 1071.6 | 1063.5 |
| 20°   | 4780.5 | 4372.3 | 3306.1 | 2379.5 | 1627.5 | 1184.4 | 1004.4 | 964.2  | 961.5  | 958.8  | 958.8  |
| 22.5° | 4640.8 | 4076.8 | 2919.3 | 1890.7 | 1227.3 | 948.0  | 872.8  | 856.7  | 867.5  | 899.7  | 899.7  |
| 25°   | 4493.1 | 3792.2 | 2492.3 | 1458.3 | 950.7  | 813.8  | 770.8  | 781.5  | 808.4  | 837.9  | 827.2  |
| 27.5° | 4342.7 | 3606.8 | 2089.4 | 1144.1 | 778.8  | 711.7  | 695.6  | 719.8  | 749.3  | 776.2  | 768.1  |
| 30°   | 4307.8 | 3408.1 | 1708.1 | 867.5  | 668.7  | 620.4  | 631.1  | 652.6  | 682.2  | 692.9  | 703.6  |
| 32.5° | 4361.5 | 3252.3 | 1399.2 | 711.7  | 582.8  | 569.4  | 569.4  | 580.1  | 598.9  | 623.1  | 615.0  |
| 35°   | 4514.6 | 3163.7 | 1106.5 | 617.7  | 534.4  | 521.0  | 518.3  | 529.1  | 539.8  | 547.9  | 539.8  |
| 37.5° | 4748.3 | 3093.9 | 905.1  | 547.9  | 502.2  | 480.7  | 475.4  | 472.7  | 483.4  | 486.1  | 491.5  |
| 40°   | 5046.4 | 3131.5 | 768.1  | 504.9  | 470.0  | 445.8  | 429.7  | 429.7  | 429.7  | 437.8  | 440.4  |
| 42.5° | 5368.6 | 3182.5 | 663.4  | 480.7  | 440.4  | 410.9  | 394.8  | 389.4  | 394.8  | 405.5  | 402.8  |
| 45°   | 5707.0 | 3281.9 | 596.2  | 443.1  | 413.6  | 376.0  | 354.5  | 349.1  | 362.6  | 384.0  | 381.4  |
| 47.5° | 6023.9 | 3424.2 | 545.2  | 419.0  | 386.7  | 351.8  | 325.0  | 319.6  | 343.8  | 373.3  | 376.0  |
| 50°   | 6340.9 | 3671.3 | 526.4  | 400.2  | 367.9  | 327.7  | 303.5  | 298.1  | 325.0  | 362.6  | 370.6  |
| 52.5° | 6706.1 | 3937.2 | 513.0  | 376.0  | 346.5  | 308.9  | 282.0  | 276.6  | 306.2  | 354.5  | 357.2  |
| 55°   | 6945.1 | 4162.8 | 502.2  | 333.0  | 306.2  | 279.3  | 257.8  | 255.1  | 287.4  | 330.3  | 341.1  |
| 57.5° | 6665.8 | 3848.6 | 464.6  | 290.1  | 260.5  | 247.1  | 228.3  | 228.3  | 255.1  | 295.4  | 303.5  |
| 60°   | 5054.4 | 2532.6 | 330.3  | 233.7  | 220.2  | 212.2  | 204.1  | 204.1  | 225.6  | 255.1  | 257.8  |
| 62.5° | 2959.6 | 1364.3 | 212.2  | 188.0  | 188.0  | 179.9  | 166.5  | 166.5  | 188.0  | 204.1  | 206.8  |
| 65°   | 878.2  | 437.8  | 171.9  | 161.1  | 158.5  | 145.0  | 131.6  | 128.9  | 145.0  | 153.1  | 150.4  |
| 67.5° | 252.5  | 201.4  | 142.3  | 134.3  | 131.6  | 110.1  | 102.1  | 99.4   | 102.1  | 96.7   | 94.0   |
| 70°   | 150.4  | 137.0  | 110.1  | 112.8  | 99.4   | 80.6   | 72.5   | 69.8   | 64.5   | 56.4   | 51.0   |
| 72.5° | 83.3   | 83.3   | 80.6   | 85.9   | 69.8   | 53.7   | 45.7   | 37.6   | 29.5   | 24.2   | 21.5   |
| 75°   | 51.0   | 53.7   | 56.4   | 59.1   | 45.7   | 34.9   | 29.5   | 18.8   | 10.7   | 5.4    | 5.4    |
| 77.5° | 34.9   | 37.6   | 40.3   | 43.0   | 37.6   | 32.2   | 24.2   | 13.4   | 2.7    | 0.0    | 0.0    |
| 80°   | 26.9   | 29.5   | 34.9   | 37.6   | 40.3   | 43.0   | 32.2   | 13.4   | 2.7    | 0.0    | 0.0    |
| 82.5° | 29.5   | 32.2   | 40.3   | 37.6   | 37.6   | 37.6   | 29.5   | 13.4   | 2.7    | 0.0    | 0.0    |
| 85°   | 5.4    | 8.1    | 13.4   | 13.4   | 18.8   | 24.2   | 18.8   | 5.4    | 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)