

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: P950566

Luminaire Tested: **GALN-SB5A-727-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5A-727-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

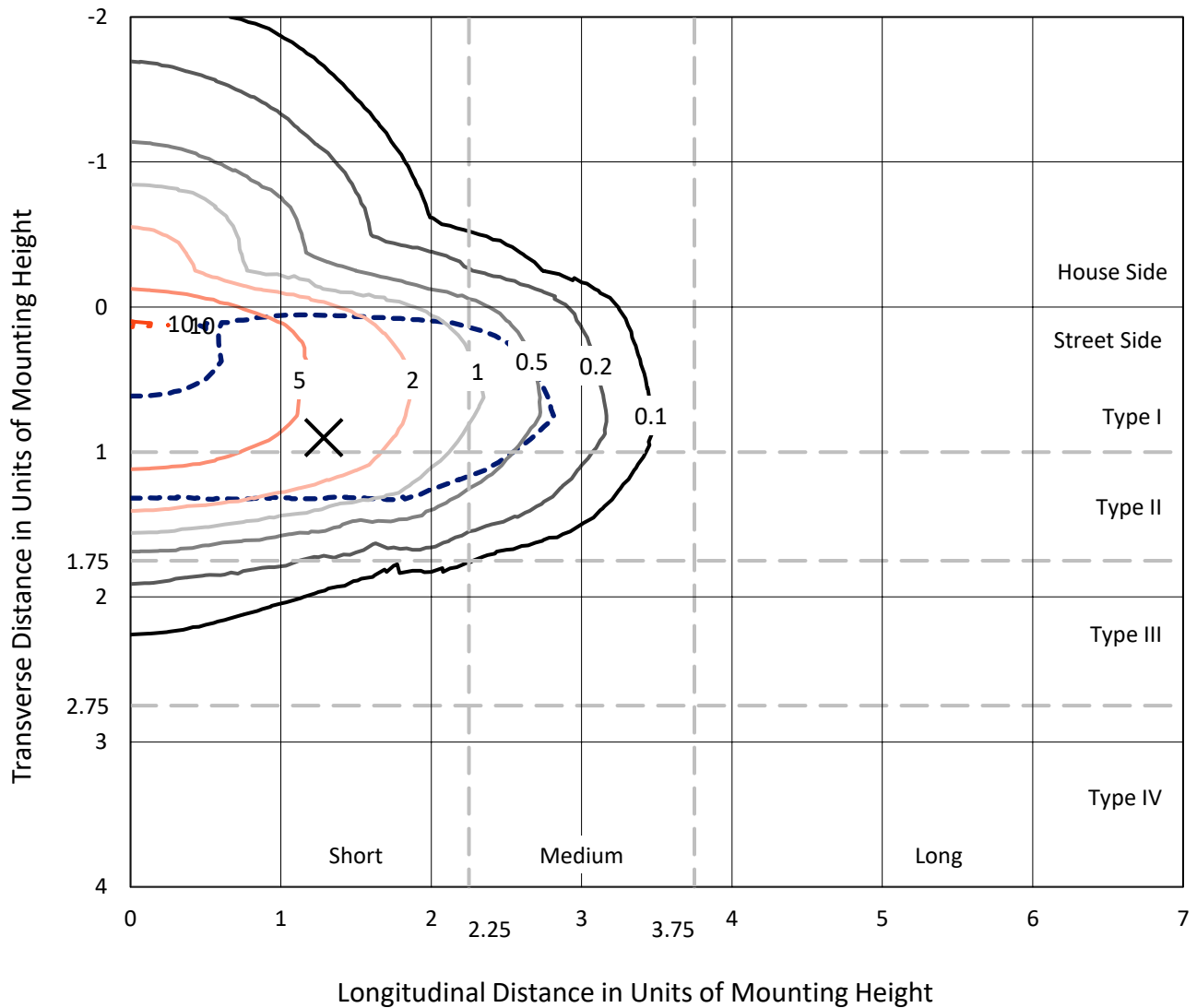
Lumens per Lamp: N/A  
Luminaire Lumens: 21375 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

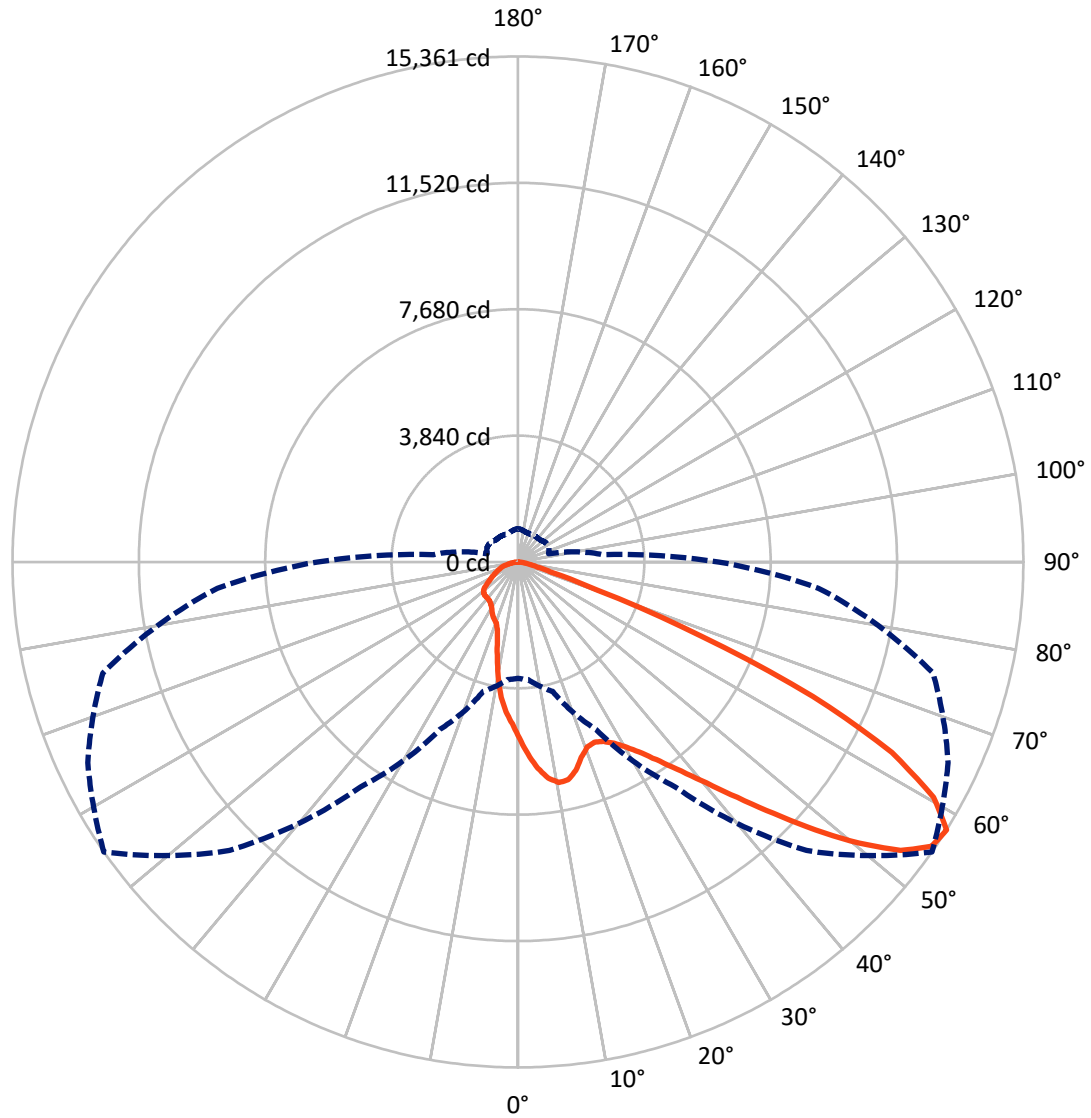
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3867.7   | 0.0    | 3867.7  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 17507.3  | 0.0    | 17507.3 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 21375.0  | 0.0    | 21375.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 497.0   | 2.3       |
| 10°-20°   | 1254.4  | 5.9       |
| 20°-30°   | 2001.7  | 9.4       |
| 30°-40°   | 3169.2  | 14.8      |
| 40°-50°   | 4850.8  | 22.7      |
| 50°-60°   | 5195.7  | 24.3      |
| 60°-70°   | 3268.6  | 15.3      |
| 70°-80°   | 966.6   | 4.5       |
| 80°-90°   | 170.9   | 0.8       |
| 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°    | 21375.0 | 100.0     |
| 0°-180°   | 21375.0 | 100.0     |



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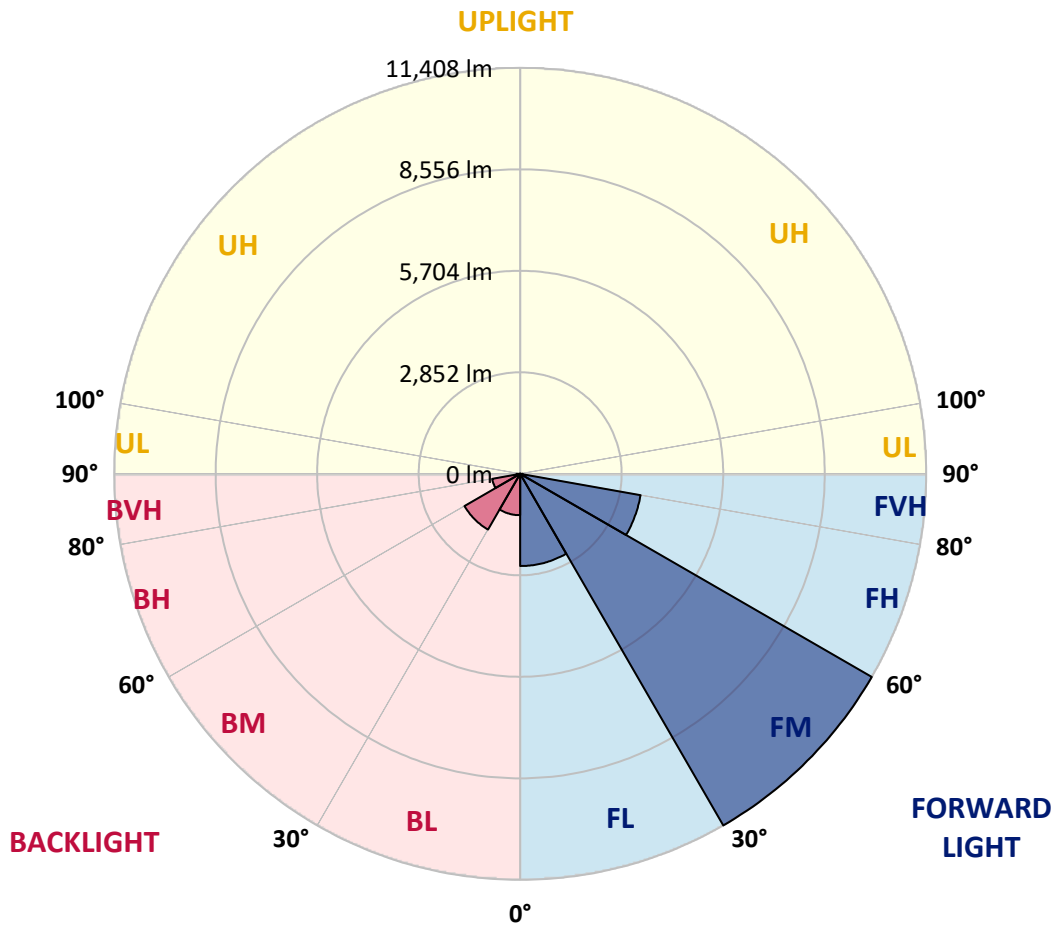
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2590.6  | 12.1      |                         |      |         |
| FM (30°-60°)   | 11408.0 | 53.4      |                         |      |         |
| FH (60°-80°)   | 3436.4  | 16.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 72.2    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1162.5  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1807.7  | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 798.8   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 98.7    | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9  | 5355.9 | 5355.9 |
| 2.5°  | 6144.8  | 6140.4  | 6164.7  | 6081.9  | 6025.5  | 5949.3  | 5848.7  | 5720.5  | 5582.4  | 5436.5 | 5373.6 |
| 5°    | 6698.4  | 6659.8  | 6685.2  | 6623.3  | 6561.4  | 6446.5  | 6297.3  | 6088.5  | 5833.2  | 5542.6 | 5387.9 |
| 7.5°  | 6611.1  | 6584.6  | 6649.8  | 6705.1  | 6751.5  | 6737.1  | 6627.7  | 6408.9  | 6079.6  | 5657.5 | 5433.2 |
| 10°   | 5907.3  | 5877.4  | 5969.2  | 6160.3  | 6441.0  | 6685.2  | 6817.8  | 6681.9  | 6331.6  | 5783.5 | 5477.4 |
| 12.5° | 5286.3  | 5271.9  | 5332.7  | 5487.4  | 5799.0  | 6267.5  | 6793.5  | 6920.5  | 6593.5  | 5932.7 | 5537.1 |
| 15°   | 5021.1  | 5003.4  | 5042.1  | 5120.5  | 5319.4  | 5755.9  | 6572.5  | 7084.1  | 6850.9  | 6105.1 | 5632.1 |
| 17.5° | 4962.5  | 4942.6  | 4959.2  | 5000.1  | 5128.3  | 5460.9  | 6238.8  | 7164.7  | 7119.4  | 6297.3 | 5711.7 |
| 20°   | 5070.8  | 5054.2  | 5056.4  | 5054.2  | 5143.7  | 5407.8  | 6006.7  | 7133.8  | 7353.7  | 6474.1 | 5789.0 |
| 22.5° | 5332.7  | 5305.1  | 5306.2  | 5247.6  | 5296.2  | 5500.6  | 5945.9  | 7050.9  | 7562.5  | 6628.8 | 5847.6 |
| 25°   | 5759.2  | 5709.5  | 5719.4  | 5570.2  | 5557.0  | 5708.4  | 6041.0  | 6986.8  | 7770.3  | 6752.6 | 5858.7 |
| 27.5° | 6342.6  | 6286.3  | 6256.4  | 6034.3  | 5928.3  | 6003.4  | 6234.3  | 7008.9  | 7967.0  | 6859.8 | 5831.0 |
| 30°   | 7071.9  | 7003.4  | 6942.6  | 6627.7  | 6435.5  | 6407.8  | 6534.9  | 7154.8  | 8199.0  | 6972.5 | 5783.5 |
| 32.5° | 7965.9  | 7886.3  | 7775.8  | 7358.1  | 7087.4  | 6942.6  | 6923.9  | 7414.5  | 8470.8  | 7116.1 | 5759.2 |
| 35°   | 9030.0  | 8926.1  | 8769.2  | 8228.9  | 7886.3  | 7590.2  | 7436.6  | 7789.1  | 8843.2  | 7332.7 | 5786.8 |
| 37.5° | 10126.1 | 10009.0 | 9865.3  | 9222.2  | 8801.2  | 8364.8  | 8062.0  | 8297.4  | 9339.4  | 7626.6 | 5859.8 |
| 40°   | 11137.2 | 11005.7 | 10872.0 | 10299.6 | 9847.7  | 9321.7  | 8827.8  | 8940.5  | 9946.0  | 7978.0 | 5983.5 |
| 42.5° | 11733.9 | 11636.6 | 11585.8 | 11276.4 | 10927.2 | 10393.5 | 9780.3  | 9702.9  | 10627.8 | 8382.4 | 6125.0 |
| 45°   | 11707.4 | 11667.6 | 11824.5 | 11952.7 | 11869.8 | 11573.7 | 10896.3 | 10546.0 | 11311.8 | 8732.7 | 6255.3 |
| 47.5° | 11081.9 | 11108.5 | 11458.7 | 12179.2 | 12496.3 | 12651.0 | 12167.0 | 11373.7 | 11906.3 | 8994.6 | 6313.9 |
| 50°   | 9380.3  | 9402.4  | 10213.4 | 11767.0 | 12657.6 | 13529.5 | 13427.8 | 12181.4 | 12367.0 | 9154.8 | 6300.6 |
| 52.5° | 8033.3  | 8047.6  | 8395.7  | 10544.9 | 12125.0 | 13971.5 | 14563.8 | 12942.7 | 12704.1 | 9199.0 | 6226.6 |
| 55°   | 6050.9  | 6100.6  | 6490.7  | 8273.1  | 10739.4 | 13621.2 | 15255.5 | 13727.3 | 12917.3 | 9203.5 | 6149.3 |
| 57.5° | 3534.9  | 3589.0  | 4070.8  | 5615.6  | 8347.1  | 12400.2 | 15360.5 | 14423.4 | 13062.1 | 9168.1 | 6102.9 |
| 60°   | 1731.5  | 1754.7  | 1964.7  | 2951.4  | 5147.0  | 10047.7 | 14516.2 | 14760.4 | 13142.7 | 9149.3 | 6100.6 |
| 62.5° | 1166.9  | 1163.6  | 1172.4  | 1456.4  | 2535.9  | 6455.3  | 12757.1 | 14170.4 | 13099.6 | 9077.5 | 6078.5 |
| 65°   | 1003.3  | 991.2   | 958.0   | 1022.1  | 1313.8  | 2952.5  | 9856.5  | 12409.0 | 12771.5 | 8897.4 | 5927.2 |
| 67.5° | 867.4   | 868.5   | 869.6   | 849.7   | 938.1   | 1362.5  | 6023.3  | 9774.7  | 11593.5 | 8044.3 | 5343.7 |
| 70°   | 718.2   | 728.2   | 732.6   | 732.6   | 764.7   | 893.9   | 2571.3  | 6699.5  | 9144.9  | 6307.3 | 4303.9 |
| 72.5° | 654.2   | 633.2   | 635.4   | 624.3   | 624.3   | 680.7   | 1035.4  | 3797.8  | 5761.4  | 3548.1 | 2626.6 |
| 75°   | 533.7   | 547.0   | 549.2   | 541.4   | 516.0   | 519.3   | 614.4   | 1593.4  | 2465.2  | 1471.8 | 1298.4 |
| 77.5° | 460.8   | 460.8   | 465.2   | 459.7   | 439.8   | 389.0   | 410.0   | 617.7   | 838.7   | 603.3  | 648.6  |
| 80°   | 370.2   | 369.1   | 387.9   | 398.9   | 368.0   | 287.3   | 261.9   | 341.4   | 372.4   | 265.2  | 337.0  |
| 82.5° | 180.1   | 191.2   | 266.3   | 303.9   | 279.6   | 207.7   | 160.2   | 212.2   | 198.9   | 117.1  | 151.4  |
| 85°   | 105.0   | 99.4    | 119.3   | 169.1   | 160.2   | 114.9   | 77.3    | 110.5   | 103.9   | 59.7   | 60.8   |
| 87.5° | 33.1    | 30.9    | 24.3    | 57.5    | 46.4    | 32.0    | 21.0    | 32.0    | 28.7    | 13.3   | 13.3   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 | 5355.9 |
| 2.5°  | 5295.1 | 5164.7 | 5035.4 | 4917.2 | 4845.4 | 4799.0 | 4752.6 | 4700.6 | 4680.7 | 4650.9 |
| 5°    | 5242.1 | 4990.1 | 4765.8 | 4572.4 | 4396.8 | 4258.6 | 4119.4 | 4006.7 | 3955.9 | 3990.1 |
| 7.5°  | 5211.1 | 4846.5 | 4500.6 | 4145.9 | 3804.5 | 3531.5 | 3294.0 | 3127.1 | 3052.0 | 3070.8 |
| 10°   | 5183.5 | 4684.0 | 4157.0 | 3596.7 | 3106.1 | 2768.0 | 2524.9 | 2397.8 | 2350.3 | 2360.3 |
| 12.5° | 5158.1 | 4501.7 | 3742.6 | 3005.6 | 2484.0 | 2260.8 | 2191.2 | 2192.3 | 2201.1 | 2207.8 |
| 15°   | 5153.7 | 4281.8 | 3279.6 | 2488.4 | 2148.1 | 2133.7 | 2208.9 | 2256.4 | 2281.8 | 2289.5 |
| 17.5° | 5147.0 | 4018.8 | 2807.8 | 2135.9 | 2066.3 | 2163.6 | 2233.2 | 2264.1 | 2284.0 | 2285.1 |
| 20°   | 5120.5 | 3685.1 | 2372.4 | 1968.0 | 2048.6 | 2132.6 | 2175.7 | 2200.0 | 2216.6 | 2222.1 |
| 22.5° | 5038.7 | 3313.9 | 2033.2 | 1892.8 | 1977.9 | 2045.3 | 2096.2 | 2123.8 | 2133.7 | 2140.4 |
| 25°   | 4891.8 | 2898.4 | 1798.9 | 1821.0 | 1879.6 | 1964.7 | 2005.6 | 2011.1 | 2007.8 | 2017.7 |
| 27.5° | 4699.5 | 2453.1 | 1653.1 | 1723.8 | 1798.9 | 1871.9 | 1894.0 | 1890.6 | 1884.0 | 1895.1 |
| 30°   | 4467.5 | 2053.1 | 1560.2 | 1614.4 | 1717.2 | 1783.5 | 1803.3 | 1795.6 | 1782.3 | 1794.5 |
| 32.5° | 4222.2 | 1726.0 | 1484.0 | 1538.1 | 1649.7 | 1714.9 | 1734.8 | 1727.1 | 1717.2 | 1727.1 |
| 35°   | 3993.4 | 1497.3 | 1413.3 | 1487.3 | 1596.7 | 1660.8 | 1686.2 | 1687.3 | 1687.3 | 1699.5 |
| 37.5° | 3783.5 | 1363.6 | 1354.7 | 1455.3 | 1560.2 | 1617.7 | 1654.2 | 1656.4 | 1608.9 | 1612.2 |
| 40°   | 3589.0 | 1307.2 | 1328.2 | 1434.3 | 1524.9 | 1580.1 | 1582.3 | 1458.6 | 1371.3 | 1369.1 |
| 42.5° | 3429.9 | 1296.2 | 1335.9 | 1432.1 | 1499.5 | 1501.7 | 1345.9 | 1249.7 | 1225.4 | 1226.5 |
| 45°   | 3280.7 | 1292.8 | 1353.6 | 1432.1 | 1461.9 | 1297.3 | 1192.3 | 1166.9 | 1169.1 | 1177.9 |
| 47.5° | 3113.9 | 1279.6 | 1356.9 | 1412.2 | 1353.6 | 1153.6 | 1122.7 | 1111.6 | 1107.2 | 1109.4 |
| 50°   | 2931.5 | 1232.1 | 1314.9 | 1372.4 | 1168.0 | 1091.7 | 1053.1 | 1049.7 | 1055.3 | 1058.6 |
| 52.5° | 2739.3 | 1154.7 | 1243.1 | 1300.6 | 1082.9 | 1037.6 | 994.5  | 1002.2 | 1026.5 | 1034.3 |
| 55°   | 2613.3 | 1064.1 | 1148.1 | 1156.9 | 1023.2 | 986.8  | 950.3  | 968.0  | 1013.3 | 1027.6 |
| 57.5° | 2580.1 | 968.0  | 1039.8 | 1029.8 | 947.0  | 942.6  | 920.5  | 935.9  | 993.4  | 1014.4 |
| 60°   | 2570.2 | 881.8  | 933.7  | 926.0  | 872.9  | 893.9  | 888.4  | 896.1  | 916.0  | 922.7  |
| 62.5° | 2492.9 | 813.3  | 838.7  | 827.6  | 806.6  | 843.1  | 856.4  | 839.8  | 855.3  | 863.0  |
| 65°   | 2296.2 | 758.0  | 745.9  | 738.1  | 747.0  | 780.1  | 806.6  | 773.5  | 787.9  | 810.0  |
| 67.5° | 1971.3 | 682.9  | 649.7  | 658.6  | 686.2  | 703.9  | 738.1  | 700.6  | 712.7  | 750.3  |
| 70°   | 1594.5 | 587.9  | 558.0  | 583.4  | 610.0  | 646.4  | 651.9  | 626.5  | 655.3  | 697.2  |
| 72.5° | 1128.2 | 491.7  | 470.7  | 522.7  | 531.5  | 579.0  | 566.9  | 554.7  | 594.5  | 608.8  |
| 75°   | 782.3  | 396.7  | 384.5  | 424.3  | 456.4  | 497.2  | 488.4  | 502.8  | 586.7  | 593.4  |
| 77.5° | 495.0  | 308.3  | 300.6  | 326.0  | 370.2  | 415.5  | 429.8  | 593.4  | 1002.2 | 1042.0 |
| 80°   | 287.3  | 229.8  | 221.0  | 240.9  | 279.6  | 321.6  | 414.4  | 728.2  | 660.8  | 653.0  |
| 82.5° | 160.2  | 158.0  | 147.0  | 152.5  | 186.7  | 232.0  | 585.6  | 512.7  | 416.6  | 429.8  |
| 85°   | 75.1   | 92.8   | 79.6   | 76.2   | 105.0  | 271.8  | 391.2  | 292.8  | 194.5  | 190.1  |
| 87.5° | 19.9   | 17.7   | 17.7   | 19.9   | 44.2   | 234.3  | 155.8  | 124.9  | 74.0   | 71.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)