

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: P947374

Luminaire Tested: **GALN-SB2D-730-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947374  
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-SB2D-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20697 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 147.6  
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



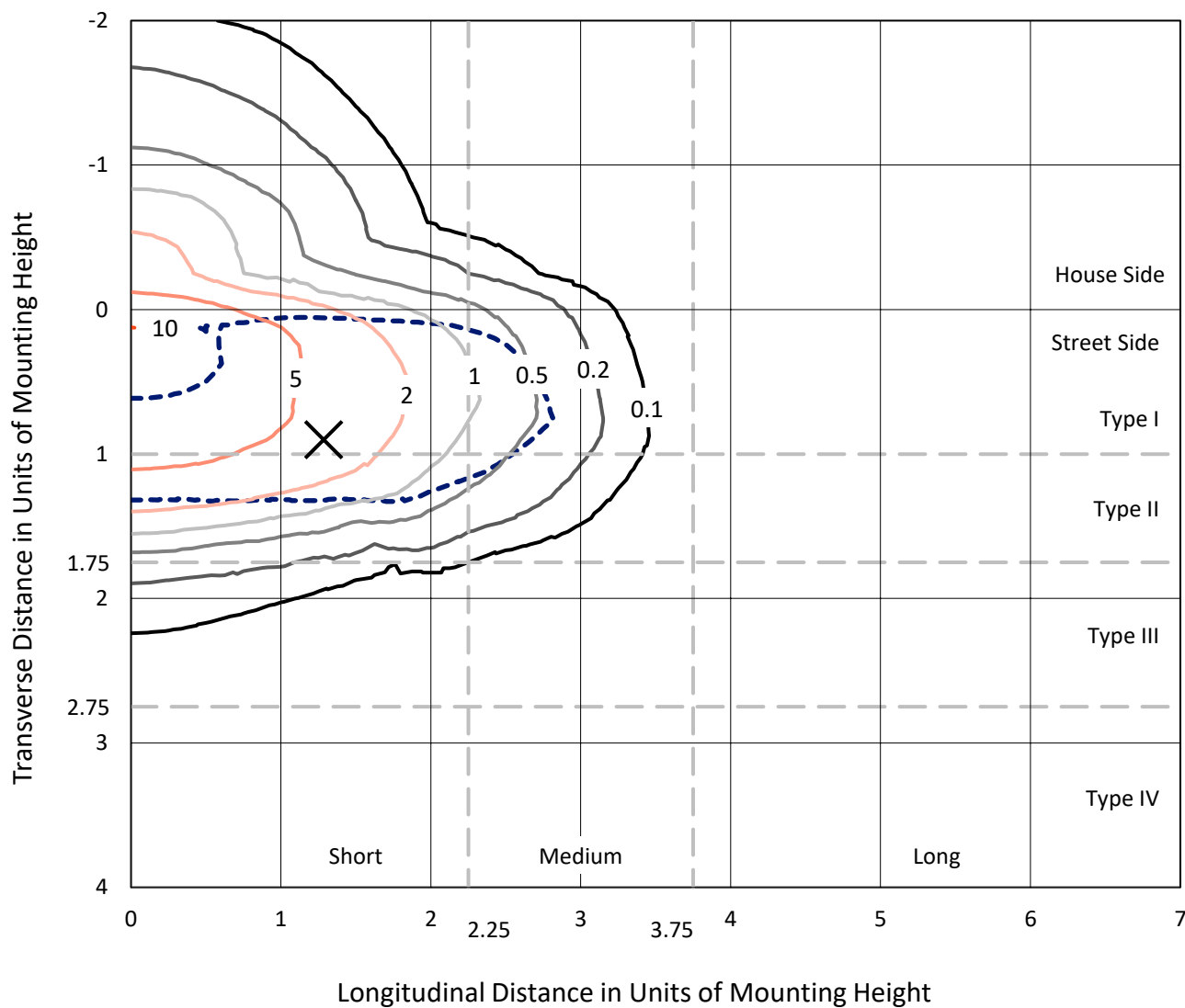
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

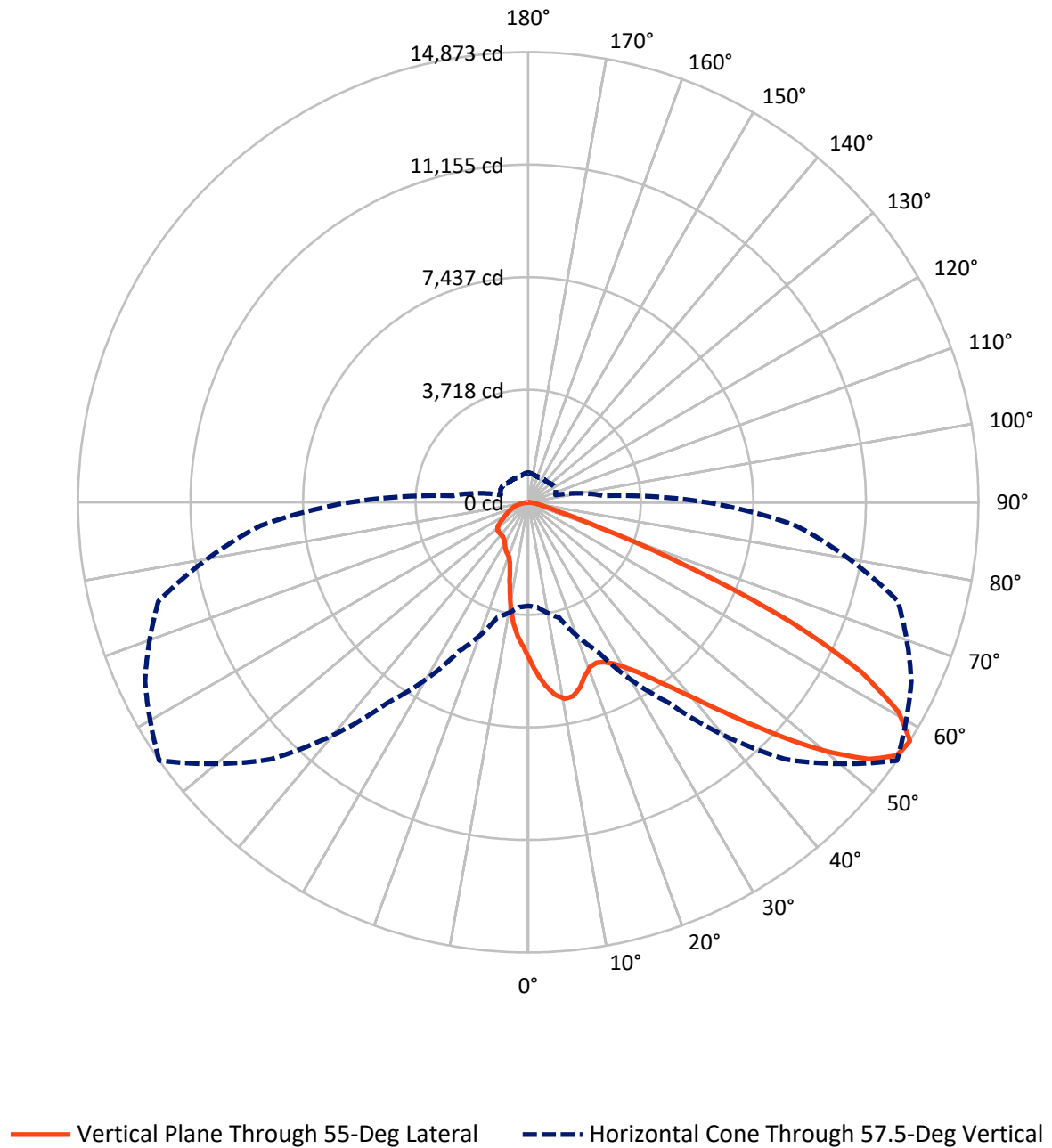


Based on 25 foot mounting height. Maximum calculated value = 10 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3745.0   | 0.0    | 3745.0  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 16952.0  | 0.0    | 16952.0 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 20697.0  | 0.0    | 20697.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 481.2   | 2.3       |
| 10°-20°   | 1214.6  | 5.9       |
| 20°-30°   | 1938.2  | 9.4       |
| 30°-40°   | 3068.7  | 14.8      |
| 40°-50°   | 4697.0  | 22.7      |
| 50°-60°   | 5030.9  | 24.3      |
| 60°-70°   | 3165.0  | 15.3      |
| 70°-80°   | 935.9   | 4.5       |
| 80°-90°   | 165.5   | 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°    | 20697.0 | 100.0     |
| 0°-180°   | 20697.0 | 100.0     |

**Coefficient of Utilization**



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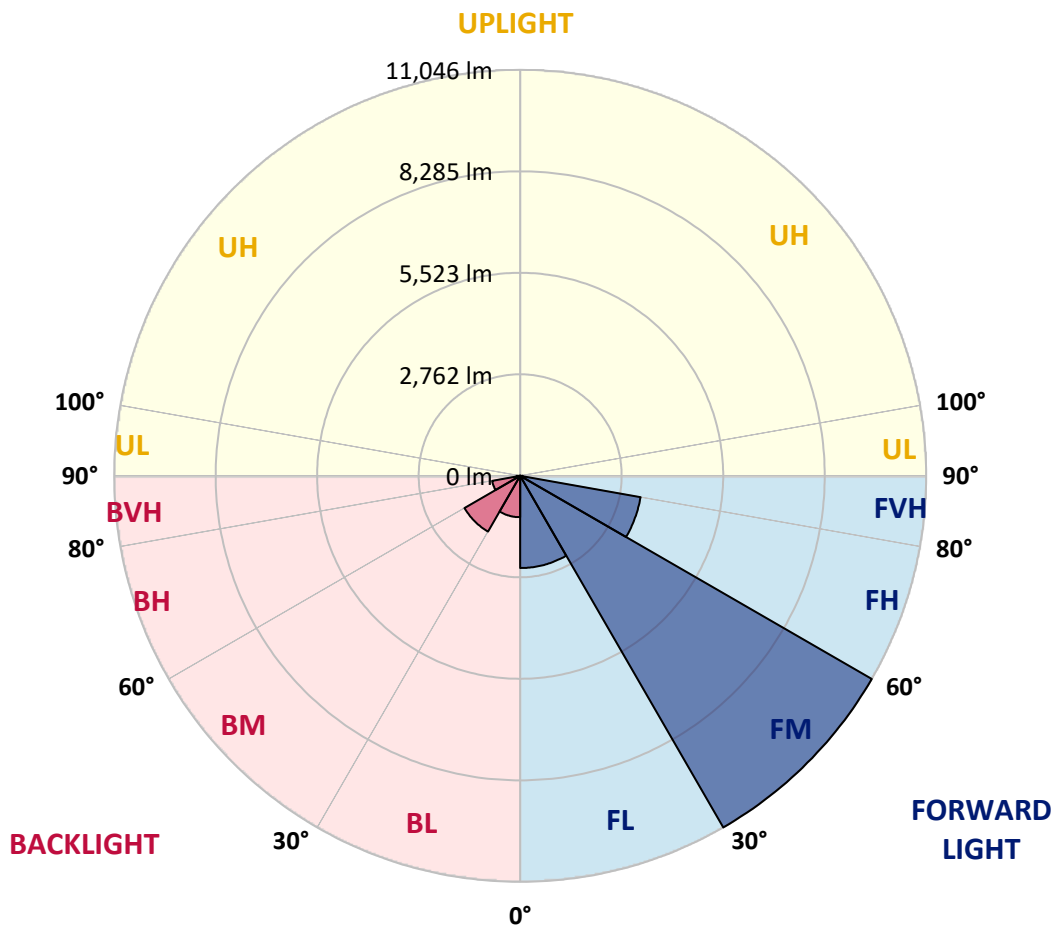
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2508.5  | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 11046.1 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 3327.5  | 16.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 69.9    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1125.6  | 5.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1750.4  | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 773.4   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 95.6    | 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°    | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0  | 5186.0 | 5186.0 |
| 2.5°  | 5949.9  | 5945.7  | 5969.2  | 5888.9  | 5834.4  | 5760.6  | 5663.2  | 5539.1  | 5405.3  | 5264.1 | 5203.1 |
| 5°    | 6486.0  | 6448.5  | 6473.1  | 6413.2  | 6353.3  | 6242.0  | 6097.6  | 5895.4  | 5648.2  | 5366.8 | 5217.0 |
| 7.5°  | 6401.4  | 6375.8  | 6438.9  | 6492.4  | 6537.3  | 6523.4  | 6417.5  | 6205.6  | 5886.8  | 5478.1 | 5260.9 |
| 10°   | 5719.9  | 5691.0  | 5779.8  | 5964.9  | 6236.7  | 6473.1  | 6601.5  | 6469.9  | 6130.8  | 5600.1 | 5303.7 |
| 12.5° | 5118.6  | 5104.7  | 5163.5  | 5313.3  | 5615.0  | 6068.7  | 6578.0  | 6701.0  | 6384.3  | 5744.5 | 5361.5 |
| 15°   | 4861.8  | 4844.7  | 4882.1  | 4958.1  | 5150.7  | 5573.3  | 6364.0  | 6859.4  | 6633.6  | 5911.4 | 5453.5 |
| 17.5° | 4805.1  | 4785.8  | 4801.9  | 4841.5  | 4965.6  | 5287.6  | 6040.9  | 6937.5  | 6893.6  | 6097.6 | 5530.5 |
| 20°   | 4910.0  | 4893.9  | 4896.0  | 4893.9  | 4980.6  | 5236.3  | 5816.2  | 6907.5  | 7120.4  | 6268.8 | 5605.4 |
| 22.5° | 5163.5  | 5136.8  | 5137.8  | 5081.1  | 5128.2  | 5326.2  | 5757.3  | 6827.3  | 7322.7  | 6418.6 | 5662.1 |
| 25°   | 5576.5  | 5528.4  | 5538.0  | 5393.6  | 5380.7  | 5527.3  | 5849.4  | 6765.2  | 7523.8  | 6538.4 | 5672.8 |
| 27.5° | 6141.5  | 6086.9  | 6058.0  | 5842.9  | 5740.2  | 5813.0  | 6036.6  | 6786.6  | 7714.3  | 6642.2 | 5646.1 |
| 30°   | 6847.6  | 6781.3  | 6722.4  | 6417.5  | 6231.3  | 6204.6  | 6327.6  | 6927.9  | 7939.0  | 6751.3 | 5600.1 |
| 32.5° | 7713.2  | 7636.2  | 7529.2  | 7124.7  | 6862.6  | 6722.4  | 6704.2  | 7179.3  | 8202.2  | 6890.4 | 5576.5 |
| 35°   | 8743.5  | 8643.0  | 8491.0  | 7967.8  | 7636.2  | 7349.4  | 7200.7  | 7542.0  | 8562.7  | 7100.1 | 5603.3 |
| 37.5° | 9804.9  | 9691.5  | 9552.4  | 8929.7  | 8522.1  | 8099.4  | 7806.3  | 8034.2  | 9043.1  | 7384.7 | 5673.9 |
| 40°   | 10783.9 | 10656.6 | 10527.1 | 9972.9  | 9535.3  | 9026.0  | 8547.7  | 8656.9  | 9630.5  | 7725.0 | 5793.7 |
| 42.5° | 11361.7 | 11267.5 | 11218.3 | 10918.7 | 10580.6 | 10063.9 | 9470.0  | 9395.1  | 10290.7 | 8116.6 | 5930.7 |
| 45°   | 11336.0 | 11297.5 | 11449.4 | 11573.5 | 11493.3 | 11206.5 | 10550.7 | 10211.5 | 10953.0 | 8455.7 | 6056.9 |
| 47.5° | 10730.4 | 10756.1 | 11095.3 | 11792.9 | 12099.9 | 12249.7 | 11781.1 | 11012.9 | 11528.6 | 8709.3 | 6113.6 |
| 50°   | 9082.7  | 9104.1  | 9889.5  | 11393.8 | 12256.2 | 13100.3 | 13001.9 | 11795.0 | 11974.8 | 8864.4 | 6100.8 |
| 52.5° | 7778.5  | 7792.4  | 8129.4  | 10210.4 | 11740.4 | 13528.3 | 14101.8 | 12532.2 | 12301.1 | 8907.2 | 6029.1 |
| 55°   | 5859.0  | 5907.1  | 6284.8  | 8010.6  | 10398.7 | 13189.1 | 14771.6 | 13291.9 | 12507.6 | 8911.5 | 5954.2 |
| 57.5° | 3422.7  | 3475.2  | 3941.7  | 5437.4  | 8082.3  | 12006.9 | 14873.2 | 13965.9 | 12647.8 | 8877.3 | 5909.3 |
| 60°   | 1676.6  | 1699.1  | 1902.4  | 2857.8  | 4983.8  | 9729.0  | 14055.8 | 14292.3 | 12725.9 | 8859.1 | 5907.1 |
| 62.5° | 1129.9  | 1126.6  | 1135.2  | 1410.2  | 2455.5  | 6250.6  | 12352.5 | 13720.9 | 12684.1 | 8789.6 | 5885.7 |
| 65°   | 971.5   | 959.7   | 927.6   | 989.7   | 1272.2  | 2858.9  | 9543.9  | 12015.4 | 12366.4 | 8615.2 | 5739.2 |
| 67.5° | 839.9   | 841.0   | 842.0   | 822.8   | 908.4   | 1319.2  | 5832.2  | 9464.7  | 11225.8 | 7789.2 | 5174.2 |
| 70°   | 695.5   | 705.1   | 709.4   | 709.4   | 740.4   | 865.6   | 2489.7  | 6487.0  | 8854.8  | 6107.2 | 4167.4 |
| 72.5° | 633.4   | 613.1   | 615.2   | 604.5   | 604.5   | 659.1   | 1002.5  | 3677.4  | 5578.7  | 3435.6 | 2543.2 |
| 75°   | 516.8   | 529.6   | 531.8   | 524.3   | 499.7   | 502.9   | 594.9   | 1542.9  | 2387.0  | 1425.2 | 1257.2 |
| 77.5° | 446.2   | 446.2   | 450.4   | 445.1   | 425.8   | 376.6   | 396.9   | 598.1   | 812.1   | 584.2  | 628.1  |
| 80°   | 358.4   | 357.4   | 375.5   | 386.2   | 356.3   | 278.2   | 253.6   | 330.6   | 360.6   | 256.8  | 326.3  |
| 82.5° | 174.4   | 185.1   | 257.9   | 294.2   | 270.7   | 201.1   | 155.1   | 205.4   | 192.6   | 113.4  | 146.6  |
| 85°   | 101.6   | 96.3    | 115.6   | 163.7   | 155.1   | 111.3   | 74.9    | 107.0   | 100.6   | 57.8   | 58.8   |
| 87.5° | 32.1    | 30.0    | 23.5    | 55.6    | 44.9    | 31.0    | 20.3    | 31.0    | 27.8    | 12.8   | 12.8   |
| 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°    | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 | 5186.0 |
| 2.5°  | 5127.1 | 5000.9 | 4875.7 | 4761.2 | 4691.7 | 4646.7 | 4601.8 | 4551.5 | 4532.3 | 4503.4 |
| 5°    | 5075.8 | 4831.8 | 4614.6 | 4427.4 | 4257.3 | 4123.5 | 3988.7 | 3879.6 | 3830.4 | 3863.6 |
| 7.5°  | 5045.8 | 4692.8 | 4357.9 | 4014.4 | 3683.8 | 3419.5 | 3189.5 | 3027.9 | 2955.2 | 2973.4 |
| 10°   | 5019.1 | 4535.5 | 4025.1 | 3482.7 | 3007.6 | 2680.2 | 2444.8 | 2321.8 | 2275.8 | 2285.4 |
| 12.5° | 4994.5 | 4358.9 | 3623.9 | 2910.2 | 2405.2 | 2189.1 | 2121.7 | 2122.8 | 2131.3 | 2137.7 |
| 15°   | 4990.2 | 4146.0 | 3175.6 | 2409.5 | 2080.0 | 2066.1 | 2138.8 | 2184.8 | 2209.4 | 2216.9 |
| 17.5° | 4983.8 | 3891.4 | 2718.7 | 2068.2 | 2000.8 | 2094.9 | 2162.3 | 2192.3 | 2211.6 | 2212.6 |
| 20°   | 4958.1 | 3568.2 | 2297.2 | 1905.6 | 1983.7 | 2065.0 | 2106.7 | 2130.2 | 2146.3 | 2151.6 |
| 22.5° | 4878.9 | 3208.7 | 1968.7 | 1832.8 | 1915.2 | 1980.5 | 2029.7 | 2056.4 | 2066.1 | 2072.5 |
| 25°   | 4736.6 | 2806.5 | 1741.9 | 1763.3 | 1820.0 | 1902.4 | 1941.9 | 1947.3 | 1944.1 | 1953.7 |
| 27.5° | 4550.5 | 2375.3 | 1600.6 | 1669.1 | 1741.9 | 1812.5 | 1833.9 | 1830.7 | 1824.2 | 1834.9 |
| 30°   | 4325.8 | 1987.9 | 1510.8 | 1563.2 | 1662.7 | 1726.9 | 1746.1 | 1738.7 | 1725.8 | 1737.6 |
| 32.5° | 4088.2 | 1671.2 | 1436.9 | 1489.4 | 1597.4 | 1660.5 | 1679.8 | 1672.3 | 1662.7 | 1672.3 |
| 35°   | 3866.8 | 1449.8 | 1368.5 | 1440.1 | 1546.1 | 1608.1 | 1632.7 | 1633.8 | 1633.8 | 1645.6 |
| 37.5° | 3663.5 | 1320.3 | 1311.7 | 1409.1 | 1510.8 | 1566.4 | 1601.7 | 1603.8 | 1557.8 | 1561.0 |
| 40°   | 3475.2 | 1265.7 | 1286.1 | 1388.8 | 1476.5 | 1530.0 | 1532.2 | 1412.3 | 1327.8 | 1325.7 |
| 42.5° | 3321.1 | 1255.0 | 1293.6 | 1386.6 | 1451.9 | 1454.0 | 1303.2 | 1210.1 | 1186.6 | 1187.6 |
| 45°   | 3176.7 | 1251.8 | 1310.7 | 1386.6 | 1415.5 | 1256.1 | 1154.5 | 1129.9 | 1132.0 | 1140.6 |
| 47.5° | 3015.1 | 1239.0 | 1313.9 | 1367.4 | 1310.7 | 1117.0 | 1087.1 | 1076.4 | 1072.1 | 1074.2 |
| 50°   | 2838.5 | 1193.0 | 1273.2 | 1328.9 | 1130.9 | 1057.1 | 1019.7 | 1016.4 | 1021.8 | 1025.0 |
| 52.5° | 2652.4 | 1118.1 | 1203.7 | 1259.3 | 1048.5 | 1004.7 | 962.9  | 970.4  | 994.0  | 1001.5 |
| 55°   | 2530.4 | 1030.4 | 1111.7 | 1120.2 | 990.8  | 955.5  | 920.1  | 937.3  | 981.1  | 995.0  |
| 57.5° | 2498.3 | 937.3  | 1006.8 | 997.2  | 916.9  | 912.7  | 891.3  | 906.2  | 961.9  | 982.2  |
| 60°   | 2488.7 | 853.8  | 904.1  | 896.6  | 845.3  | 865.6  | 860.2  | 867.7  | 887.0  | 893.4  |
| 62.5° | 2413.8 | 787.5  | 812.1  | 801.4  | 781.1  | 816.4  | 829.2  | 813.2  | 828.1  | 835.6  |
| 65°   | 2223.3 | 734.0  | 722.2  | 714.7  | 723.3  | 755.4  | 781.1  | 749.0  | 762.9  | 784.3  |
| 67.5° | 1908.8 | 661.2  | 629.1  | 637.7  | 664.4  | 681.6  | 714.7  | 678.3  | 690.1  | 726.5  |
| 70°   | 1543.9 | 569.2  | 540.3  | 564.9  | 590.6  | 625.9  | 631.3  | 606.7  | 634.5  | 675.1  |
| 72.5° | 1092.4 | 476.1  | 455.8  | 506.1  | 514.6  | 560.6  | 548.9  | 537.1  | 575.6  | 589.5  |
| 75°   | 757.5  | 384.1  | 372.3  | 410.9  | 441.9  | 481.5  | 472.9  | 486.8  | 568.1  | 574.6  |
| 77.5° | 479.3  | 298.5  | 291.0  | 315.6  | 358.4  | 402.3  | 416.2  | 574.6  | 970.4  | 1009.0 |
| 80°   | 278.2  | 222.5  | 214.0  | 233.2  | 270.7  | 311.4  | 401.2  | 705.1  | 639.8  | 632.3  |
| 82.5° | 155.1  | 153.0  | 142.3  | 147.7  | 180.8  | 224.7  | 567.1  | 496.5  | 403.4  | 416.2  |
| 85°   | 72.8   | 89.9   | 77.0   | 73.8   | 101.6  | 263.2  | 378.8  | 283.5  | 188.3  | 184.0  |
| 87.5° | 19.3   | 17.1   | 17.1   | 19.3   | 42.8   | 226.8  | 150.9  | 120.9  | 71.7   | 69.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)