

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: P948088

Luminaire Tested: **GALN-SB3B-730-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948088  
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-SB3B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17183 lumens  
Efficiency: N/A  
Efficacy: 157.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
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

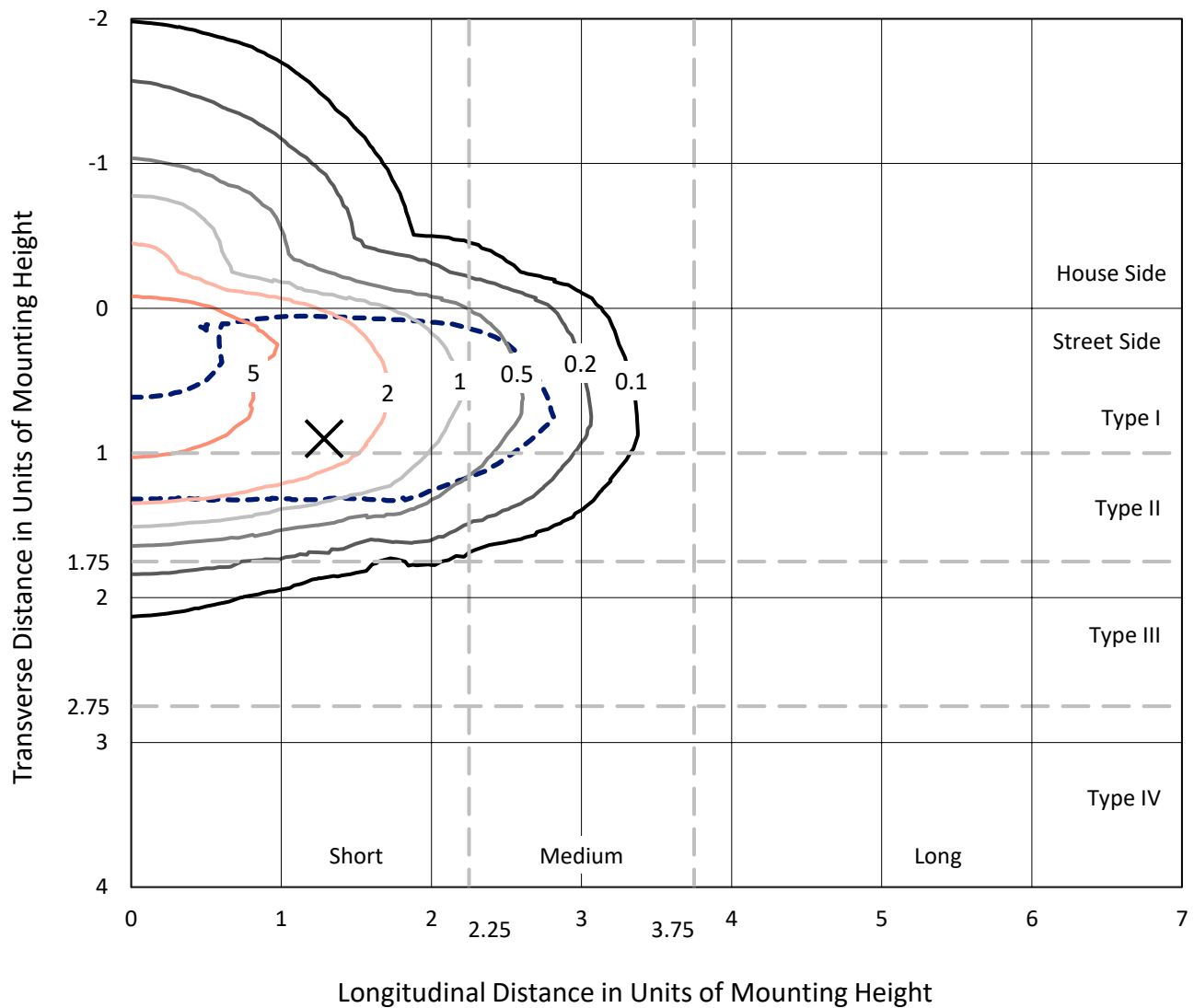


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

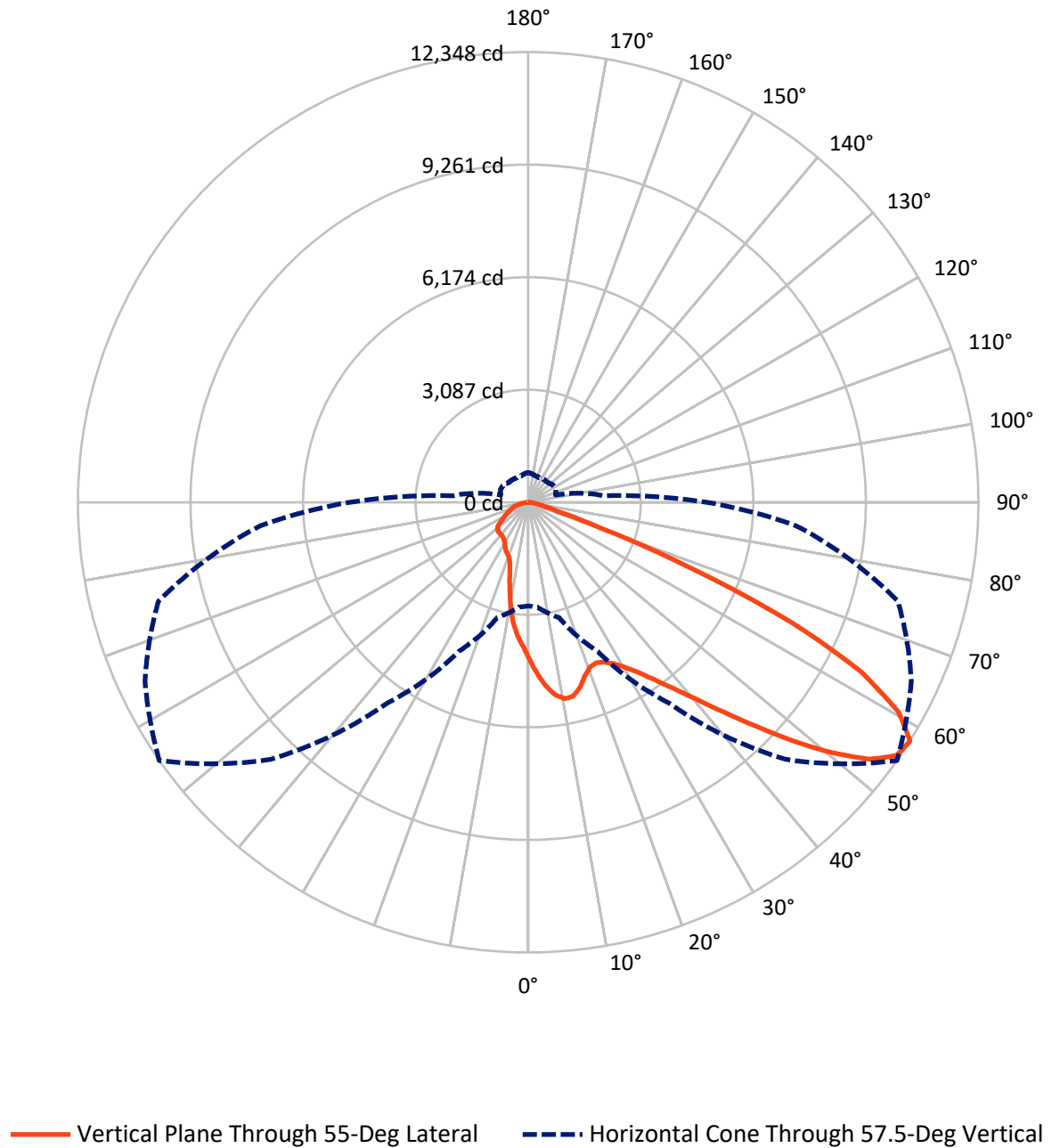


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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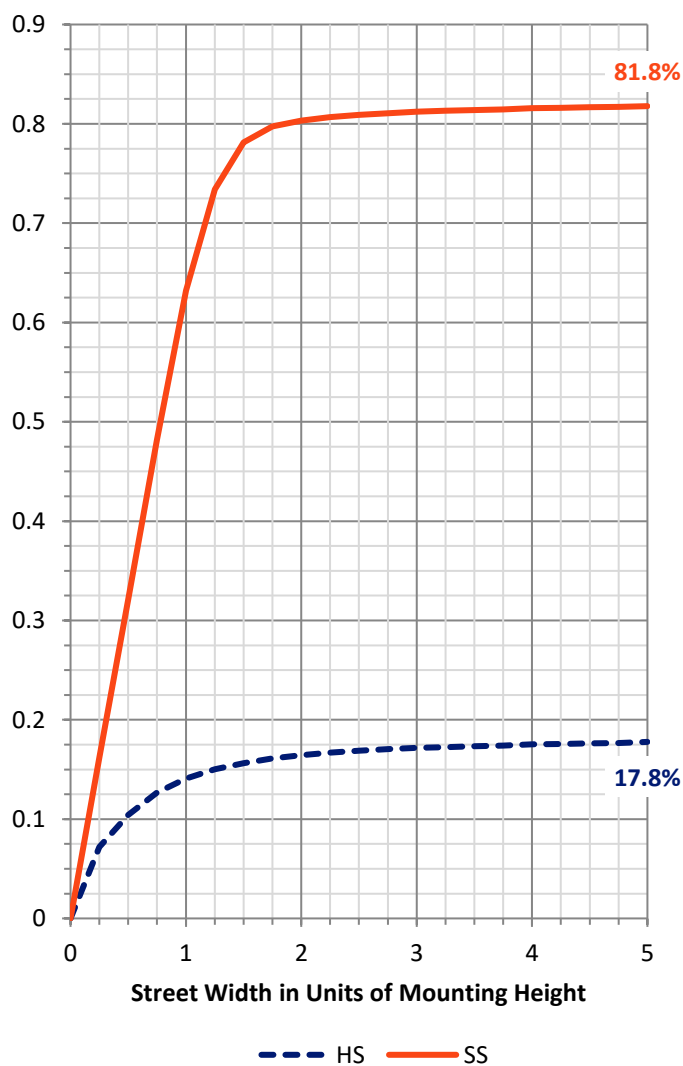
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3109.2   | 0.0    | 3109.2  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 14073.8  | 0.0    | 14073.8 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 17183.0  | 0.0    | 17183.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.5   | 2.3       |
| 10°-20°   | 1008.4  | 5.9       |
| 20°-30°   | 1609.2  | 9.4       |
| 30°-40°   | 2547.7  | 14.8      |
| 40°-50°   | 3899.5  | 22.7      |
| 50°-60°   | 4176.7  | 24.3      |
| 60°-70°   | 2627.6  | 15.3      |
| 70°-80°   | 777.0   | 4.5       |
| 80°-90°   | 137.4   | 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°    | 17183.0 | 100.0     |
| 0°-180°   | 17183.0 | 100.0     |

**Coefficient of Utilization**



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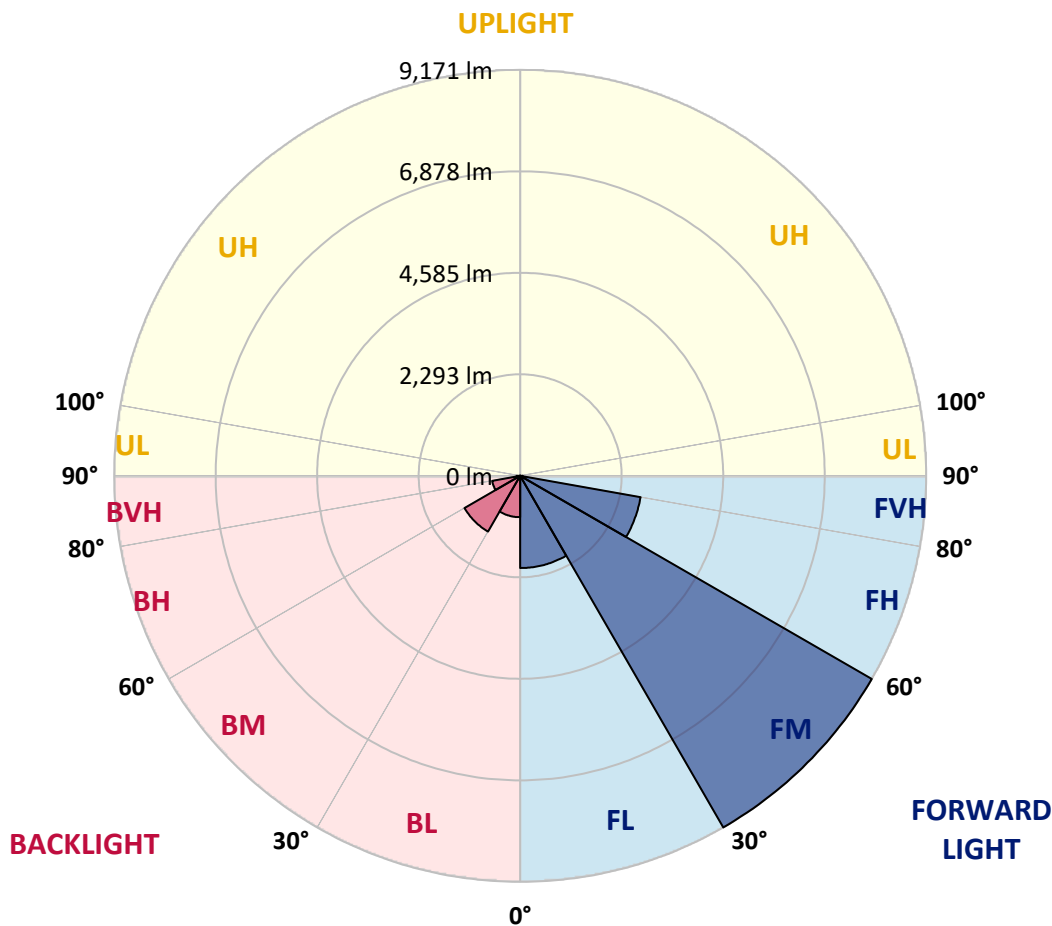
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2082.6 | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 9170.7 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 2762.5 | 16.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 58.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 934.5  | 5.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1453.2 | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 642.1  | 3.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 79.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5  | 4305.5  | 4305.5  | 4305.5  | 4305.5  | 4305.5 | 4305.5 |
| 2.5°  | 4939.7 | 4936.2 | 4955.7 | 4889.1 | 4843.8  | 4782.5  | 4701.7  | 4598.6  | 4487.6  | 4370.3 | 4319.7 |
| 5°    | 5384.8 | 5353.7 | 5374.1 | 5324.4 | 5274.6  | 5182.2  | 5062.3  | 4894.4  | 4689.2  | 4455.6 | 4331.3 |
| 7.5°  | 5314.6 | 5293.3 | 5345.7 | 5390.1 | 5427.4  | 5415.9  | 5327.9  | 5152.0  | 4887.3  | 4548.0 | 4367.7 |
| 10°   | 4748.8 | 4724.8 | 4798.5 | 4952.2 | 5177.8  | 5374.1  | 5480.7  | 5371.4  | 5089.9  | 4649.3 | 4403.2 |
| 12.5° | 4249.5 | 4238.0 | 4286.8 | 4411.2 | 4661.7  | 5038.3  | 5461.2  | 5563.3  | 5300.4  | 4769.2 | 4451.2 |
| 15°   | 4036.4 | 4022.1 | 4053.2 | 4116.3 | 4276.2  | 4627.1  | 5283.5  | 5694.8  | 5507.3  | 4907.8 | 4527.6 |
| 17.5° | 3989.3 | 3973.3 | 3986.6 | 4019.5 | 4122.5  | 4389.9  | 5015.2  | 5759.6  | 5723.2  | 5062.3 | 4591.5 |
| 20°   | 4076.3 | 4063.0 | 4064.8 | 4063.0 | 4135.0  | 4347.3  | 4828.7  | 5734.7  | 5911.5  | 5204.4 | 4653.7 |
| 22.5° | 4286.8 | 4264.6 | 4265.5 | 4218.5 | 4257.5  | 4421.9  | 4779.8  | 5668.1  | 6079.4  | 5328.8 | 4700.8 |
| 25°   | 4629.7 | 4589.8 | 4597.7 | 4477.8 | 4467.2  | 4588.9  | 4856.2  | 5616.6  | 6246.4  | 5428.3 | 4709.7 |
| 27.5° | 5098.7 | 5053.4 | 5029.5 | 4850.9 | 4765.6  | 4826.0  | 5011.7  | 5634.4  | 6404.5  | 5514.5 | 4687.5 |
| 30°   | 5685.0 | 5629.9 | 5581.1 | 5327.9 | 5173.4  | 5151.1  | 5253.3  | 5751.6  | 6591.1  | 5605.1 | 4649.3 |
| 32.5° | 6403.6 | 6339.7 | 6250.8 | 5915.1 | 5697.4  | 5581.1  | 5566.0  | 5960.4  | 6809.6  | 5720.5 | 4629.7 |
| 35°   | 7259.0 | 7175.5 | 7049.4 | 6615.0 | 6339.7  | 6101.6  | 5978.1  | 6261.5  | 7108.9  | 5894.6 | 4651.9 |
| 37.5° | 8140.2 | 8046.1 | 7930.6 | 7413.6 | 7075.2  | 6724.3  | 6480.9  | 6670.1  | 7507.8  | 6130.9 | 4710.6 |
| 40°   | 8953.0 | 8847.3 | 8739.8 | 8279.7 | 7916.4  | 7493.5  | 7096.5  | 7187.1  | 7995.4  | 6413.4 | 4810.0 |
| 42.5° | 9432.7 | 9354.5 | 9313.6 | 9064.9 | 8784.2  | 8355.2  | 7862.2  | 7800.0  | 8543.5  | 6738.5 | 4923.7 |
| 45°   | 9411.3 | 9379.4 | 9505.5 | 9608.5 | 9541.9  | 9303.9  | 8759.3  | 8477.8  | 9093.3  | 7020.1 | 5028.6 |
| 47.5° | 8908.6 | 8929.9 | 9211.5 | 9790.6 | 10045.6 | 10169.9 | 9780.9  | 9143.1  | 9571.2  | 7230.6 | 5075.6 |
| 50°   | 7540.6 | 7558.4 | 8210.4 | 9459.3 | 10175.3 | 10876.1 | 10794.4 | 9792.4  | 9941.7  | 7359.4 | 5065.0 |
| 52.5° | 6457.8 | 6469.4 | 6749.2 | 8476.9 | 9747.1  | 11231.4 | 11707.6 | 10404.4 | 10212.6 | 7394.9 | 5005.5 |
| 55°   | 4864.2 | 4904.2 | 5217.8 | 6650.6 | 8633.2  | 10949.9 | 12263.6 | 11035.1 | 10384.0 | 7398.5 | 4943.3 |
| 57.5° | 2841.6 | 2885.1 | 3272.4 | 4514.2 | 6710.1  | 9968.3  | 12348.0 | 11594.7 | 10500.4 | 7370.1 | 4906.0 |
| 60°   | 1391.9 | 1410.6 | 1579.4 | 2372.6 | 4137.6  | 8077.1  | 11669.4 | 11865.7 | 10565.2 | 7355.0 | 4904.2 |
| 62.5° | 938.0  | 935.4  | 942.5  | 1170.8 | 2038.6  | 5189.3  | 10255.2 | 11391.3 | 10530.6 | 7297.2 | 4886.4 |
| 65°   | 806.6  | 796.8  | 770.1  | 821.7  | 1056.2  | 2373.5  | 7923.5  | 9975.4  | 10266.8 | 7152.4 | 4764.7 |
| 67.5° | 697.3  | 698.2  | 699.1  | 683.1  | 754.2   | 1095.3  | 4842.0  | 7857.7  | 9319.9  | 6466.7 | 4295.7 |
| 70°   | 577.4  | 585.4  | 588.9  | 588.9  | 614.7   | 718.6   | 2067.0  | 5385.7  | 7351.4  | 5070.3 | 3459.9 |
| 72.5° | 525.9  | 509.0  | 510.8  | 501.9  | 501.9   | 547.2   | 832.3   | 3053.0  | 4631.5  | 2852.3 | 2111.4 |
| 75°   | 429.0  | 439.7  | 441.5  | 435.3  | 414.8   | 417.5   | 493.9   | 1280.9  | 1981.8  | 1183.2 | 1043.7 |
| 77.5° | 370.4  | 370.4  | 374.0  | 369.5  | 353.5   | 312.7   | 329.6   | 496.5   | 674.2   | 485.0  | 521.4  |
| 80°   | 297.6  | 296.7  | 311.8  | 320.7  | 295.8   | 231.0   | 210.5   | 274.5   | 299.4   | 213.2  | 270.9  |
| 82.5° | 144.8  | 153.7  | 214.1  | 244.3  | 224.7   | 167.0   | 128.8   | 170.6   | 159.9   | 94.2   | 121.7  |
| 85°   | 84.4   | 79.9   | 95.9   | 135.9  | 128.8   | 92.4    | 62.2    | 88.8    | 83.5    | 48.0   | 48.9   |
| 87.5° | 26.6   | 24.9   | 19.5   | 46.2   | 37.3    | 25.8    | 16.9    | 25.8    | 23.1    | 10.7   | 10.7   |
| 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°    | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 | 4305.5 |
| 2.5°  | 4256.6 | 4151.8 | 4047.9 | 3952.9 | 3895.1 | 3857.8 | 3820.5 | 3778.8 | 3762.8 | 3738.8 |
| 5°    | 4214.0 | 4011.5 | 3831.2 | 3675.7 | 3534.5 | 3423.4 | 3311.5 | 3220.9 | 3180.0 | 3207.6 |
| 7.5°  | 4189.1 | 3896.0 | 3618.0 | 3332.8 | 3058.4 | 2838.9 | 2648.0 | 2513.8 | 2453.4 | 2468.5 |
| 10°   | 4166.9 | 3765.4 | 3341.7 | 2891.4 | 2497.0 | 2225.1 | 2029.7 | 1927.6 | 1889.4 | 1897.4 |
| 12.5° | 4146.5 | 3618.9 | 3008.6 | 2416.1 | 1996.9 | 1817.4 | 1761.5 | 1762.4 | 1769.5 | 1774.8 |
| 15°   | 4142.9 | 3442.1 | 2636.4 | 2000.4 | 1726.8 | 1715.3 | 1775.7 | 1813.9 | 1834.3 | 1840.5 |
| 17.5° | 4137.6 | 3230.7 | 2257.1 | 1717.0 | 1661.1 | 1739.3 | 1795.2 | 1820.1 | 1836.1 | 1837.0 |
| 20°   | 4116.3 | 2962.4 | 1907.1 | 1582.0 | 1646.9 | 1714.4 | 1749.0 | 1768.6 | 1781.9 | 1786.3 |
| 22.5° | 4050.6 | 2664.0 | 1634.4 | 1521.6 | 1590.0 | 1644.2 | 1685.1 | 1707.3 | 1715.3 | 1720.6 |
| 25°   | 3932.4 | 2330.0 | 1446.1 | 1463.9 | 1511.0 | 1579.4 | 1612.2 | 1616.7 | 1614.0 | 1622.0 |
| 27.5° | 3777.9 | 1972.0 | 1328.9 | 1385.7 | 1446.1 | 1504.7 | 1522.5 | 1519.9 | 1514.5 | 1523.4 |
| 30°   | 3591.3 | 1650.4 | 1254.3 | 1297.8 | 1380.4 | 1433.7 | 1449.7 | 1443.5 | 1432.8 | 1442.6 |
| 32.5° | 3394.1 | 1387.5 | 1193.0 | 1236.5 | 1326.2 | 1378.6 | 1394.6 | 1388.4 | 1380.4 | 1388.4 |
| 35°   | 3210.3 | 1203.6 | 1136.1 | 1195.6 | 1283.6 | 1335.1 | 1355.5 | 1356.4 | 1356.4 | 1366.2 |
| 37.5° | 3041.5 | 1096.1 | 1089.0 | 1169.9 | 1254.3 | 1300.4 | 1329.8 | 1331.5 | 1293.3 | 1296.0 |
| 40°   | 2885.1 | 1050.8 | 1067.7 | 1153.0 | 1225.8 | 1270.2 | 1272.0 | 1172.5 | 1102.4 | 1100.6 |
| 42.5° | 2757.2 | 1042.0 | 1073.9 | 1151.2 | 1205.4 | 1207.2 | 1081.9 | 1004.6 | 985.1  | 986.0  |
| 45°   | 2637.3 | 1039.3 | 1088.1 | 1151.2 | 1175.2 | 1042.8 | 958.5  | 938.0  | 939.8  | 946.9  |
| 47.5° | 2503.2 | 1028.6 | 1090.8 | 1135.2 | 1088.1 | 927.4  | 902.5  | 893.6  | 890.1  | 891.8  |
| 50°   | 2356.6 | 990.4  | 1057.1 | 1103.2 | 938.9  | 877.6  | 846.5  | 843.9  | 848.3  | 851.0  |
| 52.5° | 2202.1 | 928.3  | 999.3  | 1045.5 | 870.5  | 834.1  | 799.5  | 805.7  | 825.2  | 831.4  |
| 55°   | 2100.8 | 855.4  | 922.9  | 930.0  | 822.5  | 793.2  | 763.9  | 778.1  | 814.6  | 826.1  |
| 57.5° | 2074.1 | 778.1  | 835.9  | 827.9  | 761.3  | 757.7  | 739.9  | 752.4  | 798.6  | 815.4  |
| 60°   | 2066.1 | 708.8  | 750.6  | 744.4  | 701.7  | 718.6  | 714.2  | 720.4  | 736.4  | 741.7  |
| 62.5° | 2004.0 | 653.8  | 674.2  | 665.3  | 648.4  | 677.8  | 688.4  | 675.1  | 687.5  | 693.7  |
| 65°   | 1845.8 | 609.4  | 599.6  | 593.4  | 600.5  | 627.1  | 648.4  | 621.8  | 633.3  | 651.1  |
| 67.5° | 1584.7 | 549.0  | 522.3  | 529.4  | 551.6  | 565.8  | 593.4  | 563.2  | 572.9  | 603.1  |
| 70°   | 1281.8 | 472.6  | 448.6  | 469.0  | 490.3  | 519.6  | 524.1  | 503.7  | 526.8  | 560.5  |
| 72.5° | 906.9  | 395.3  | 378.4  | 420.2  | 427.3  | 465.5  | 455.7  | 445.9  | 477.9  | 489.4  |
| 75°   | 628.9  | 318.9  | 309.1  | 341.1  | 366.9  | 399.7  | 392.6  | 404.2  | 471.7  | 477.0  |
| 77.5° | 398.0  | 247.8  | 241.6  | 262.0  | 297.6  | 334.0  | 345.5  | 477.0  | 805.7  | 837.6  |
| 80°   | 231.0  | 184.8  | 177.7  | 193.6  | 224.7  | 258.5  | 333.1  | 585.4  | 531.2  | 525.0  |
| 82.5° | 128.8  | 127.0  | 118.1  | 122.6  | 150.1  | 186.5  | 470.8  | 412.2  | 334.9  | 345.5  |
| 85°   | 60.4   | 74.6   | 64.0   | 61.3   | 84.4   | 218.5  | 314.5  | 235.4  | 156.3  | 152.8  |
| 87.5° | 16.0   | 14.2   | 14.2   | 16.0   | 35.5   | 188.3  | 125.2  | 100.4  | 59.5   | 57.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)