

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: P383193

Luminaire Tested: **GLEON-SA5B-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26064.7 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

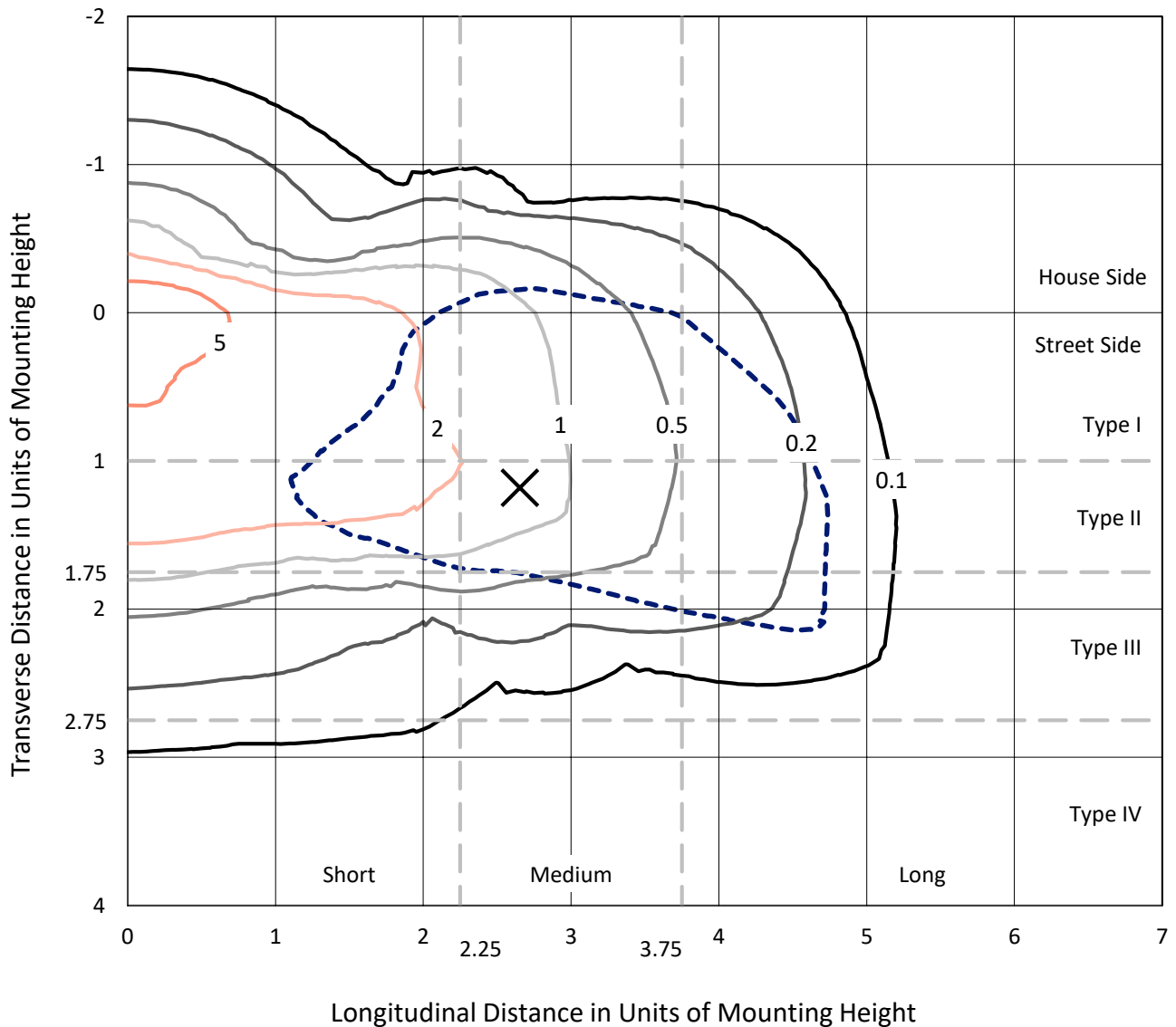
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

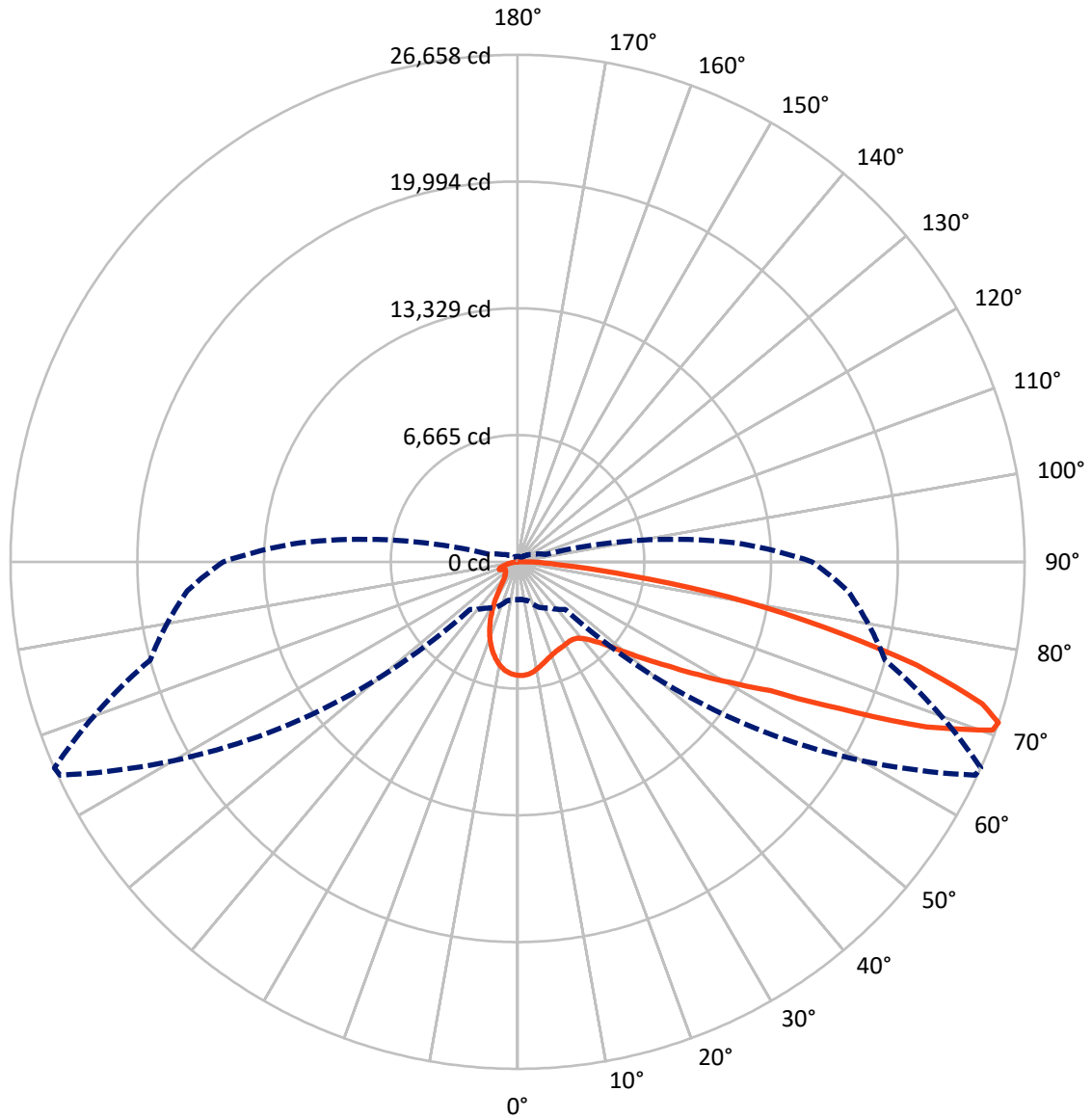
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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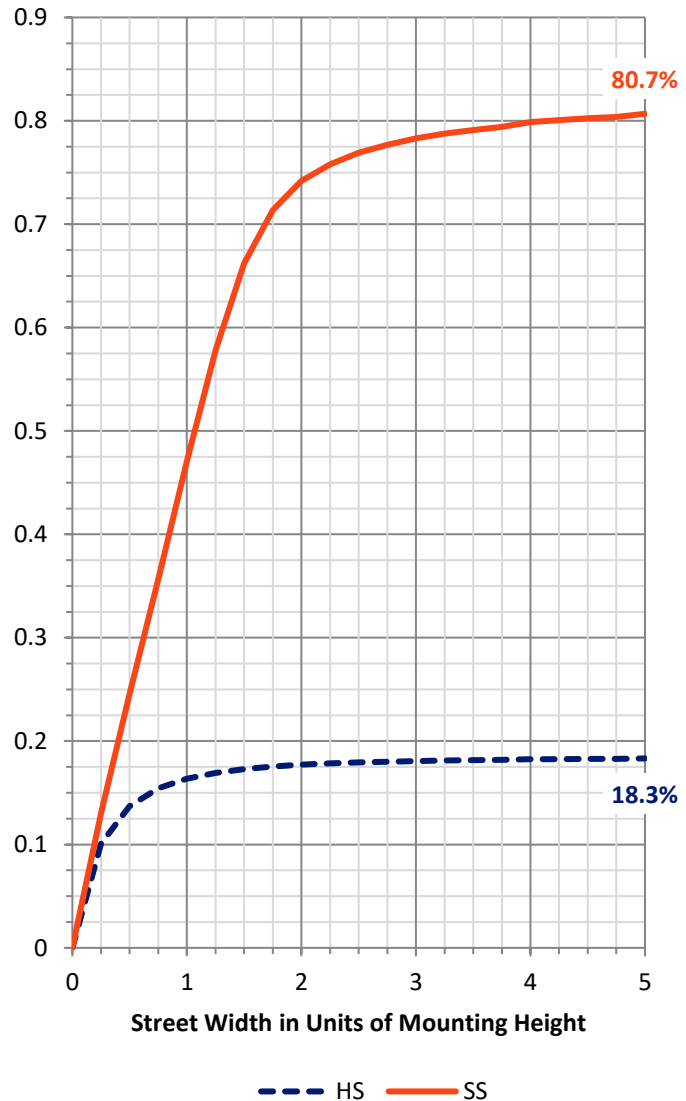
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4830.5   | 0.0    | 4830.5  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 21234.2  | 0.0    | 21234.2 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 26064.7  | 0.0    | 26064.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 525.6   | 2.0       |
| 10°-20°   | 1260.6  | 4.8       |
| 20°-30°   | 1693.3  | 6.5       |
| 30°-40°   | 2227.5  | 8.5       |
| 40°-50°   | 3240.4  | 12.4      |
| 50°-60°   | 5061.8  | 19.4      |
| 60°-70°   | 6340.8  | 24.3      |
| 70°-80°   | 4836.6  | 18.6      |
| 80°-90°   | 878.3   | 3.4       |
| 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°    | 26064.7 | 100.0     |
| 0°-180°   | 26064.7 | 100.0     |

**Coefficient of Utilization**

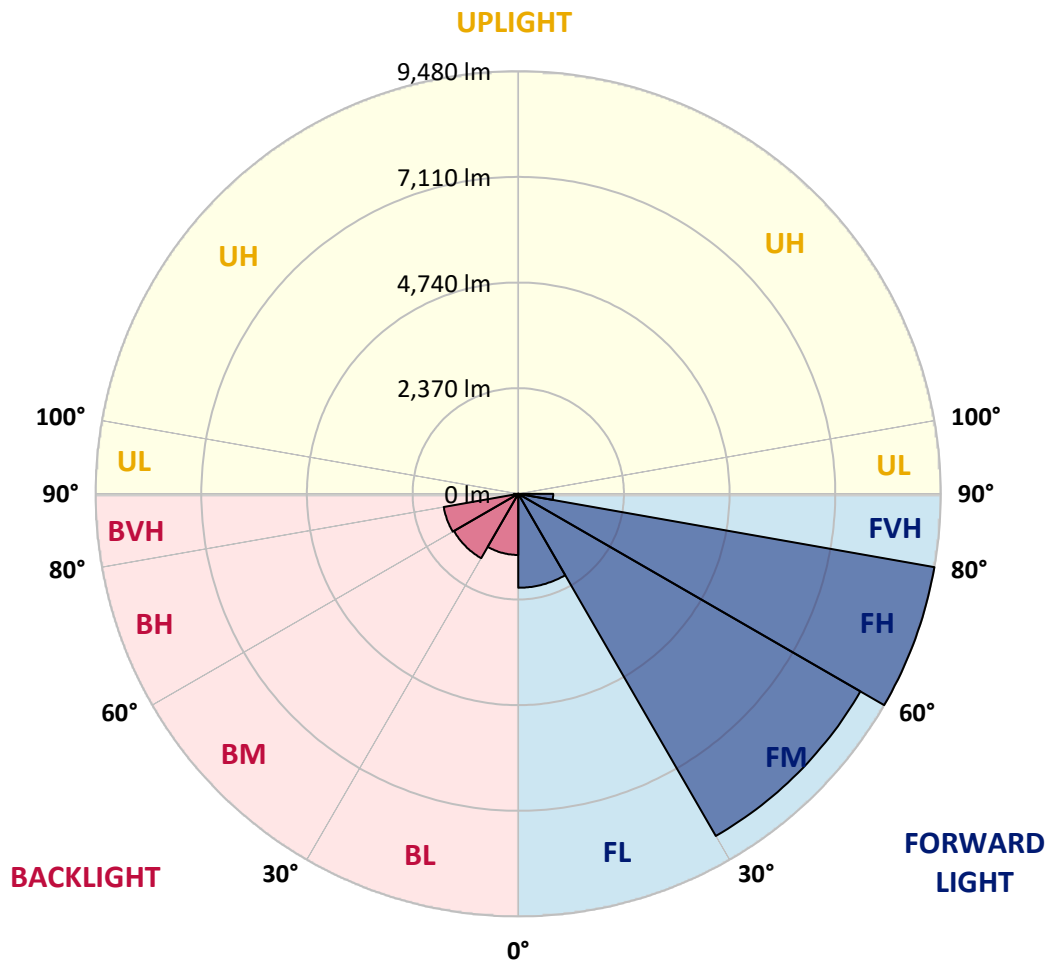


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2107.7 | 8.1       |                         |      |          |
| FM (30°-60°)   | 8863.3 | 34.0      |                         |      |          |
| FH (60°-80°)   | 9480.0 | 36.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 783.2  | 3.0       |                         |      | G5       |
| BL (0°-30°)    | 1371.7 | 5.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 1666.4 | 6.4       | B2/2500                 |      |          |
| BH (60°-80°)   | 1697.3 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 95.1   | 0.4       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9  | 5970.9  | 5970.9  | 5970.9  | 5970.9  | 5970.9  | 5970.9  |
| 2.5°  | 5860.3 | 5851.2 | 5878.3 | 5906.1 | 5916.9  | 5934.9  | 5961.9  | 5977.2  | 5976.3  | 5979.0  | 5970.0  |
| 5°    | 5471.4 | 5459.8 | 5513.7 | 5557.9 | 5642.5  | 5737.9  | 5853.9  | 5936.8  | 5938.5  | 5985.3  | 5998.0  |
| 7.5°  | 5103.4 | 5095.3 | 5157.4 | 5228.5 | 5326.6  | 5472.4  | 5660.5  | 5838.7  | 5849.5  | 5976.3  | 6020.4  |
| 10°   | 4808.3 | 4806.4 | 4866.7 | 4944.1 | 5058.4  | 5221.3  | 5437.3  | 5698.3  | 5714.5  | 5933.1  | 6024.0  |
| 12.5° | 4577.8 | 4581.4 | 4633.6 | 4721.8 | 4842.5  | 5012.5  | 5246.5  | 5540.8  | 5566.8  | 5864.7  | 6003.4  |
| 15°   | 4407.8 | 4422.1 | 4464.4 | 4553.6 | 4672.4  | 4845.2  | 5085.4  | 5395.0  | 5434.6  | 5788.3  | 5991.6  |
| 17.5° | 4310.6 | 4326.8 | 4356.5 | 4430.3 | 4541.9  | 4708.3  | 4936.0  | 5275.3  | 5311.3  | 5729.8  | 5992.6  |
| 20°   | 4281.8 | 4295.3 | 4312.4 | 4357.4 | 4451.9  | 4603.1  | 4818.2  | 5167.3  | 5206.0  | 5682.9  | 6001.5  |
| 22.5° | 4338.5 | 4348.4 | 4350.1 | 4346.6 | 4404.2  | 4527.4  | 4732.6  | 5088.1  | 5129.5  | 5652.4  | 6007.8  |
| 25°   | 4460.0 | 4473.5 | 4463.6 | 4430.3 | 4411.3  | 4487.0  | 4688.6  | 5035.9  | 5077.3  | 5629.8  | 5995.3  |
| 27.5° | 4642.6 | 4644.4 | 4636.3 | 4593.2 | 4504.0  | 4491.5  | 4675.1  | 5005.3  | 5044.9  | 5603.7  | 5969.1  |
| 30°   | 4891.0 | 4902.7 | 4888.3 | 4829.8 | 4684.0  | 4563.5  | 4691.3  | 4975.6  | 5011.6  | 5570.5  | 5926.8  |
| 32.5° | 5181.7 | 5210.5 | 5209.6 | 5148.4 | 4939.6  | 4724.5  | 4757.9  | 4957.6  | 4985.5  | 5535.3  | 5875.6  |
| 35°   | 5483.2 | 5522.8 | 5596.6 | 5570.5 | 5312.2  | 4979.2  | 4885.6  | 4986.4  | 5005.3  | 5530.9  | 5839.5  |
| 37.5° | 5796.4 | 5836.0 | 5988.0 | 6058.2 | 5755.8  | 5343.6  | 5087.2  | 5088.1  | 5097.1  | 5585.7  | 5836.8  |
| 40°   | 6123.9 | 6166.2 | 6394.8 | 6577.5 | 6330.9  | 5805.3  | 5412.1  | 5300.5  | 5290.5  | 5720.7  | 5889.9  |
| 42.5° | 6582.9 | 6620.7 | 6895.1 | 7128.2 | 6968.9  | 6396.6  | 5861.1  | 5628.0  | 5607.4  | 5985.3  | 6060.0  |
| 45°   | 7163.3 | 7195.7 | 7487.3 | 7736.5 | 7654.6  | 7071.5  | 6425.3  | 6078.9  | 6075.3  | 6426.3  | 6404.7  |
| 47.5° | 7853.5 | 7878.8 | 8140.6 | 8381.8 | 8411.5  | 7848.1  | 7134.5  | 6774.6  | 6716.1  | 7031.0  | 6938.4  |
| 50°   | 8572.6 | 8600.4 | 8778.6 | 9037.8 | 9258.3  | 8887.5  | 8047.0  | 7626.8  | 7548.4  | 7829.2  | 7694.2  |
| 52.5° | 9048.6 | 9085.5 | 9240.3 | 9568.8 | 10210.4 | 10026.8 | 9126.0  | 8659.9  | 8541.1  | 8796.6  | 8693.1  |
| 55°   | 8836.2 | 8919.0 | 9155.7 | 9682.1 | 10971.8 | 11767.2 | 10457.0 | 9864.8  | 9730.8  | 9943.2  | 9882.0  |
| 57.5° | 7870.6 | 7984.0 | 8307.1 | 9119.8 | 11078.8 | 13300.7 | 12469.2 | 11284.0 | 11189.5 | 11128.4 | 11156.2 |
| 60°   | 6105.9 | 6214.8 | 6615.3 | 7674.5 | 10332.8 | 14420.2 | 15497.4 | 13033.5 | 12896.6 | 12318.0 | 12343.2 |
| 62.5° | 4321.4 | 4266.5 | 4540.9 | 5315.8 | 8396.2  | 14551.6 | 18943.1 | 15373.2 | 14923.2 | 13574.2 | 13463.6 |
| 65°   | 3295.4 | 3282.9 | 3406.2 | 3652.8 | 5085.4  | 12979.4 | 20995.9 | 19305.9 | 18603.0 | 15051.9 | 14790.9 |
| 67.5° | 2707.8 | 2685.4 | 2806.8 | 3165.9 | 3274.8  | 8373.7  | 21040.9 | 23868.4 | 23178.1 | 16891.4 | 16326.2 |
| 70°   | 2226.4 | 2201.2 | 2314.6 | 2778.1 | 3026.4  | 4246.6  | 17708.4 | 26540.3 | 26503.3 | 19220.3 | 17485.3 |
| 71°   | 1996.0 | 1978.0 | 2113.9 | 2628.6 | 2973.3  | 3539.3  | 15289.5 | 26547.4 | 26658.1 | 20008.6 | 17416.9 |
| 72.5° | 1625.3 | 1631.5 | 1775.5 | 2339.8 | 2933.7  | 3125.4  | 11237.2 | 25310.1 | 25544.0 | 20760.1 | 16795.1 |
| 75°   | 1079.8 | 1085.3 | 1274.3 | 1799.8 | 2844.7  | 3057.9  | 6176.1  | 21237.9 | 21668.1 | 20310.2 | 15325.5 |
| 77.5° | 725.3  | 723.5  | 852.2  | 1234.7 | 2478.4  | 3057.9  | 3621.2  | 15884.4 | 16356.8 | 16160.6 | 11814.9 |
| 80°   | 499.5  | 495.9  | 586.8  | 852.2  | 1876.3  | 3094.8  | 2799.7  | 11131.9 | 11275.0 | 8727.4  | 4801.9  |
| 82.5° | 306.0  | 308.7  | 383.3  | 602.1  | 1277.0  | 2785.2  | 2643.1  | 6069.9  | 5914.2  | 2447.7  | 1199.6  |
| 85°   | 175.5  | 174.6  | 244.8  | 407.6  | 819.9   | 2350.6  | 2577.3  | 2612.4  | 2396.5  | 737.0   | 433.7   |
| 87.5° | 63.0   | 67.5   | 131.3  | 225.9  | 469.8   | 1636.9  | 2186.8  | 1358.8  | 1224.8  | 332.9   | 196.2   |
| 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°    | 5970.9  | 5970.9  | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9 | 5970.9 |
| 2.5°  | 5963.7  | 5969.1  | 5962.8 | 5926.8 | 5896.2 | 5846.8 | 5818.8 | 5780.2 | 5768.4 | 5763.0 | 5777.5 |
| 5°    | 5986.2  | 5988.0  | 5934.9 | 5840.4 | 5734.2 | 5609.1 | 5519.1 | 5408.5 | 5356.3 | 5333.8 | 5348.2 |
| 7.5°  | 6006.9  | 5998.8  | 5882.7 | 5701.8 | 5505.6 | 5287.9 | 5094.4 | 4917.1 | 4813.6 | 4771.3 | 4774.9 |
| 10°   | 6009.6  | 5975.4  | 5789.1 | 5509.3 | 5205.1 | 4885.6 | 4588.6 | 4315.1 | 4142.3 | 4029.8 | 4064.0 |
| 12.5° | 5981.7  | 5924.1  | 5651.4 | 5260.0 | 4837.9 | 4402.4 | 4001.0 | 3590.7 | 3344.1 | 3229.8 | 3233.4 |
| 15°   | 5960.1  | 5855.7  | 5482.3 | 4966.6 | 4399.7 | 3822.8 | 3274.8 | 2792.4 | 2529.6 | 2412.7 | 2357.7 |
| 17.5° | 5942.2  | 5781.9  | 5286.1 | 4636.3 | 3882.2 | 3150.6 | 2491.9 | 2061.7 | 1917.7 | 1883.5 | 1869.2 |
| 20°   | 5916.9  | 5703.7  | 5067.4 | 4253.9 | 3292.7 | 2398.3 | 1819.6 | 1607.2 | 1608.1 | 1647.7 | 1653.1 |
| 22.5° | 5881.8  | 5614.5  | 4834.4 | 3824.7 | 2660.1 | 1746.7 | 1426.4 | 1365.2 | 1427.2 | 1502.9 | 1516.4 |
| 25°   | 5829.6  | 5509.3  | 4575.1 | 3350.4 | 2028.4 | 1342.6 | 1218.5 | 1215.8 | 1291.4 | 1370.6 | 1382.2 |
| 27.5° | 5755.8  | 5371.6  | 4287.2 | 2841.0 | 1494.8 | 1141.1 | 1091.6 | 1110.5 | 1166.3 | 1223.9 | 1228.3 |
| 30°   | 5656.8  | 5211.4  | 3969.5 | 2303.8 | 1171.7 | 1016.0 | 1010.6 | 1027.7 | 1061.9 | 1102.4 | 1106.0 |
| 32.5° | 5547.9  | 5048.5  | 3630.2 | 1783.6 | 1003.4 | 948.5  | 953.9  | 962.0  | 978.2  | 994.4  | 998.0  |
| 35°   | 5449.0  | 4882.1  | 3282.9 | 1355.3 | 923.3  | 904.4  | 900.8  | 899.0  | 900.8  | 895.4  | 896.3  |
| 37.5° | 5385.1  | 4744.4  | 2921.1 | 1079.0 | 877.4  | 865.7  | 854.9  | 841.4  | 826.1  | 817.2  | 818.9  |
| 40°   | 5361.7  | 4641.7  | 2554.9 | 932.3  | 839.6  | 831.5  | 810.8  | 782.0  | 764.1  | 758.7  | 758.7  |
| 42.5° | 5424.7  | 4588.6  | 2201.2 | 858.5  | 808.1  | 794.6  | 760.4  | 727.2  | 713.7  | 712.7  | 711.8  |
| 45°   | 5617.2  | 4610.2  | 1864.6 | 818.0  | 779.3  | 753.2  | 708.3  | 680.3  | 671.4  | 673.1  | 672.2  |
| 47.5° | 5962.8  | 4746.1  | 1576.6 | 791.0  | 750.5  | 716.4  | 666.0  | 643.4  | 632.6  | 632.6  | 633.5  |
| 50°   | 6550.5  | 5063.8  | 1347.2 | 768.5  | 726.2  | 682.2  | 635.3  | 607.5  | 593.0  | 592.2  | 592.2  |
| 52.5° | 7406.3  | 5632.5  | 1204.1 | 749.6  | 699.2  | 651.5  | 604.8  | 569.6  | 552.5  | 549.0  | 547.2  |
| 55°   | 8478.9  | 6447.9  | 1164.5 | 737.0  | 663.3  | 618.3  | 567.9  | 532.8  | 513.8  | 505.7  | 504.8  |
| 57.5° | 9678.6  | 7439.6  | 1242.8 | 721.8  | 626.4  | 578.7  | 527.3  | 494.1  | 474.3  | 464.4  | 463.4  |
| 60°   | 10892.5 | 8522.2  | 1562.2 | 700.2  | 595.7  | 535.5  | 486.0  | 455.3  | 435.6  | 424.8  | 422.9  |
| 62.5° | 12108.3 | 9663.2  | 2214.7 | 698.3  | 574.1  | 494.1  | 443.7  | 417.5  | 398.7  | 387.0  | 384.3  |
| 65°   | 13479.8 | 10912.3 | 2956.2 | 746.0  | 566.9  | 456.3  | 400.5  | 379.8  | 363.6  | 352.8  | 351.8  |
| 67.5° | 15054.6 | 12322.5 | 2885.1 | 844.1  | 591.3  | 422.1  | 359.9  | 343.7  | 332.1  | 323.1  | 322.1  |
| 70°   | 15793.5 | 12102.0 | 1793.5 | 913.4  | 625.4  | 388.7  | 321.3  | 309.6  | 300.6  | 294.3  | 291.6  |
| 71°   | 15483.9 | 11491.0 | 1503.8 | 905.3  | 621.8  | 374.4  | 306.0  | 297.0  | 287.9  | 282.5  | 279.8  |
| 72.5° | 14639.7 | 10479.4 | 1254.5 | 842.3  | 581.4  | 348.3  | 286.2  | 277.1  | 269.0  | 262.8  | 261.0  |
| 75°   | 13137.0 | 9359.1  | 1004.3 | 673.1  | 463.4  | 294.3  | 251.1  | 241.2  | 234.8  | 231.3  | 227.7  |
| 77.5° | 9657.0  | 6679.1  | 776.6  | 531.8  | 341.0  | 240.2  | 214.2  | 207.0  | 200.7  | 195.3  | 192.6  |
| 80°   | 3699.5  | 2587.3  | 522.9  | 396.8  | 250.2  | 189.8  | 172.8  | 169.2  | 162.9  | 159.3  | 159.3  |
| 82.5° | 996.2   | 773.0   | 279.0  | 240.2  | 167.4  | 138.6  | 132.3  | 130.5  | 125.1  | 117.9  | 118.8  |
| 85°   | 403.2   | 341.0   | 156.6  | 132.3  | 102.6  | 81.9   | 89.1   | 90.0   | 83.7   | 74.7   | 75.5   |
| 87.5° | 177.3   | 144.9   | 87.3   | 58.5   | 45.0   | 31.5   | 40.5   | 40.5   | 36.9   | 30.6   | 27.9   |
| 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)