

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: P383167

Luminaire Tested: **GLEON-SA5A-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5A-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21699.5 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

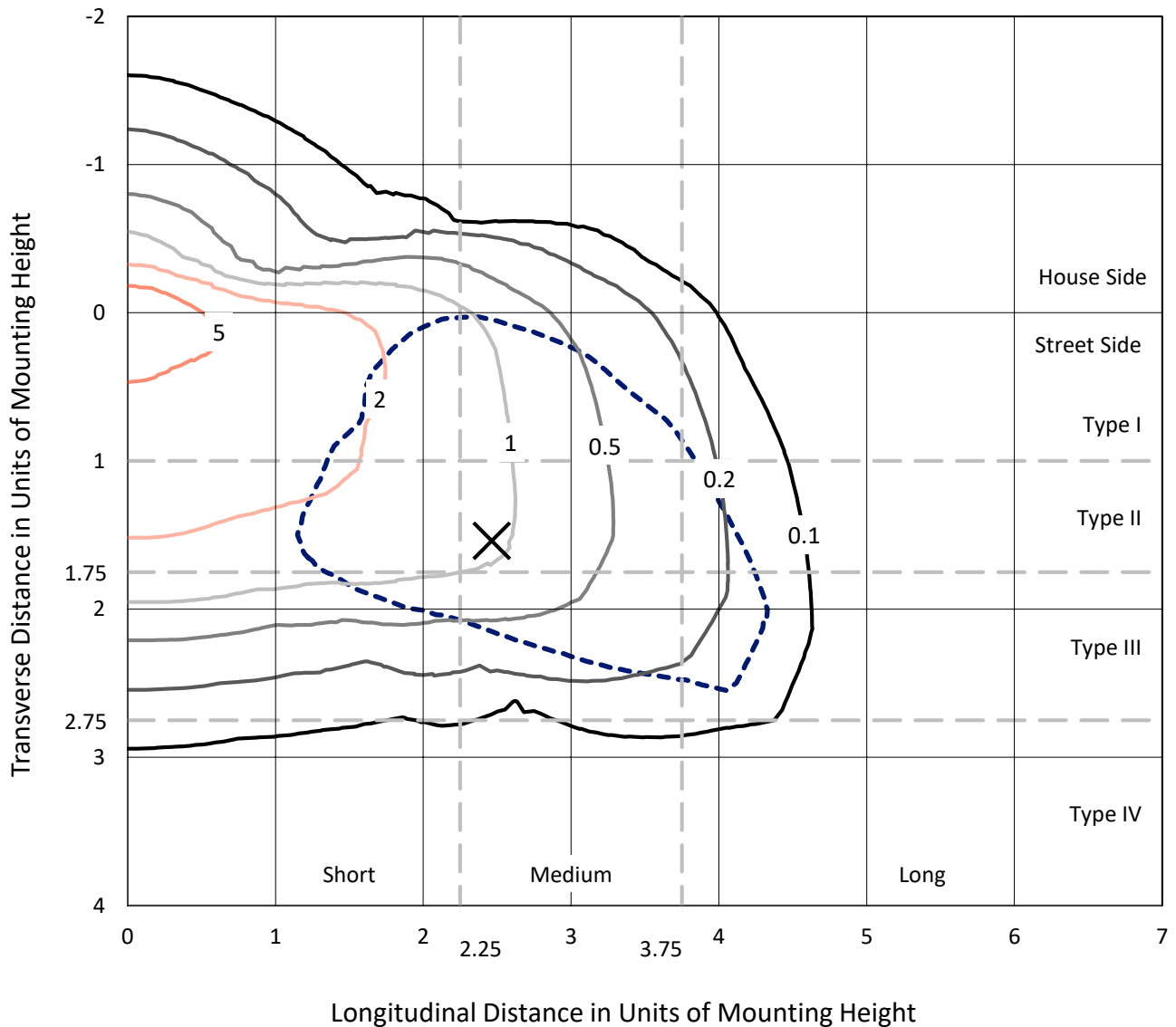
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

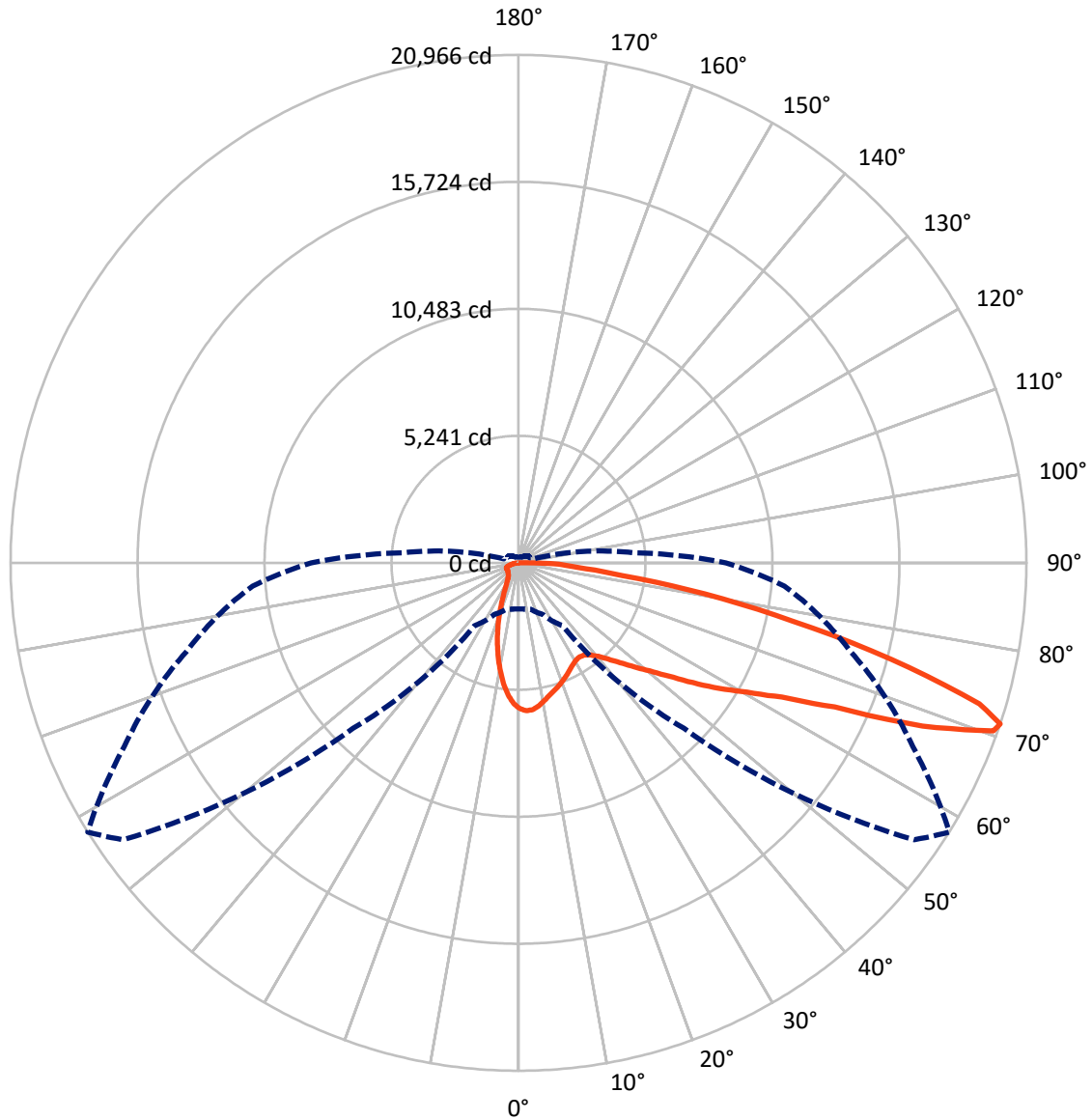
✕ Max cd  
 - - - 1/2 Max cd



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 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3244.2   | 0.0    | 3244.2  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 18455.3  | 0.0    | 18455.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 21699.5  | 0.0    | 21699.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 518.7   | 2.4       |
| 10°-20°   | 1153.3  | 5.3       |
| 20°-30°   | 1465.8  | 6.8       |
| 30°-40°   | 1867.1  | 8.6       |
| 40°-50°   | 2647.6  | 12.2      |
| 50°-60°   | 4097.3  | 18.9      |
| 60°-70°   | 5578.0  | 25.7      |
| 70°-80°   | 3721.1  | 17.1      |
| 80°-90°   | 650.6   | 3.0       |
| 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°    | 21699.5 | 100.0     |
| 0°-180°   | 21699.5 | 100.0     |

**Coefficient of Utilization**

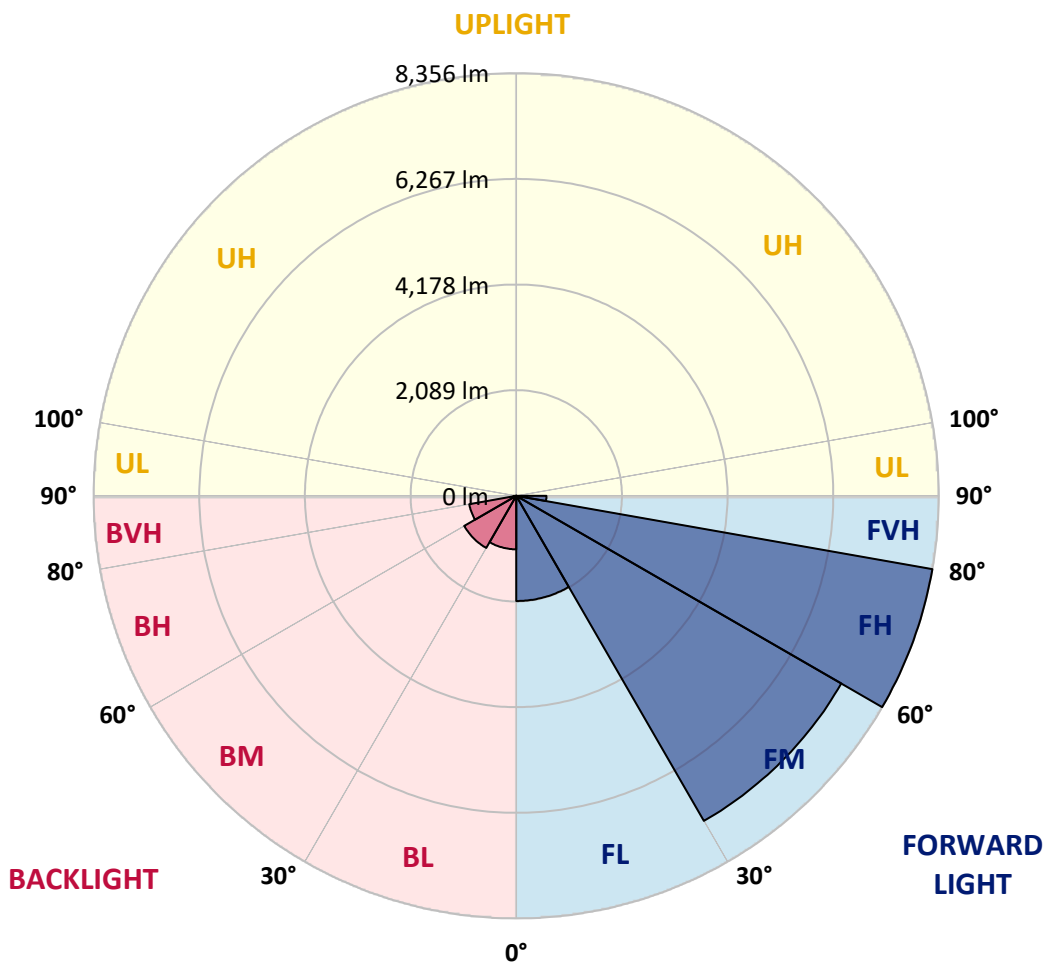


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2080.2 | 9.6       |                         |      |          |
| FM (30°-60°)   | 7422.3 | 34.2      |                         |      |          |
| FH (60°-80°)   | 8356.2 | 38.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 596.5  | 2.7       |                         |      | G4/750   |
| BL (0°-30°)    | 1057.5 | 4.9       | B3/2500                 |      |          |
| BM (30°-60°)   | 1189.7 | 5.5       | B2/2500                 |      |          |
| BH (60°-80°)   | 942.9  | 4.3       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 54.1   | 0.2       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type III Medium





REPORT NUMBER: P383167

CATALOG NUMBER: GLEON-SA5A-735-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2  | 6012.2  | 6012.2  | 6012.2  | 6012.2  | 6012.2  | 6012.2  |
| 2.5°  | 6171.7 | 6163.4 | 6166.4 | 6160.3 | 6146.0  | 6131.6  | 6110.5  | 6114.2  | 6084.8  | 6040.9  | 5986.5  |
| 5°    | 6055.2 | 6052.3 | 6074.9 | 6087.8 | 6098.4  | 6090.1  | 6084.0  | 6091.6  | 6048.4  | 5988.0  | 5893.5  |
| 7.5°  | 5811.2 | 5777.9 | 5806.6 | 5849.7 | 5890.5  | 5921.5  | 5962.3  | 5967.6  | 5940.4  | 5876.9  | 5753.0  |
| 10°   | 5464.2 | 5432.4 | 5474.8 | 5542.1 | 5623.7  | 5697.7  | 5780.2  | 5795.3  | 5800.6  | 5743.1  | 5592.7  |
| 12.5° | 5104.4 | 5080.2 | 5122.6 | 5217.0 | 5352.3  | 5466.5  | 5597.9  | 5620.7  | 5667.5  | 5629.0  | 5444.5  |
| 15°   | 4782.4 | 4773.3 | 4824.8 | 4917.7 | 5073.4  | 5248.1  | 5437.7  | 5479.3  | 5558.6  | 5545.9  | 5328.9  |
| 17.5° | 4504.2 | 4502.0 | 4541.3 | 4638.8 | 4811.2  | 5031.8  | 5278.2  | 5348.6  | 5466.5  | 5481.6  | 5233.6  |
| 20°   | 4297.1 | 4292.6 | 4319.8 | 4391.6 | 4569.2  | 4819.5  | 5105.9  | 5202.7  | 5372.7  | 5425.6  | 5135.4  |
| 22.5° | 4186.0 | 4185.3 | 4186.0 | 4220.0 | 4365.1  | 4597.9  | 4938.1  | 5056.1  | 5281.3  | 5381.1  | 5026.5  |
| 25°   | 4167.1 | 4164.9 | 4148.2 | 4144.5 | 4226.8  | 4412.7  | 4771.9  | 4901.8  | 5194.3  | 5350.1  | 4922.9  |
| 27.5° | 4216.3 | 4219.3 | 4197.4 | 4161.9 | 4178.5  | 4291.1  | 4627.5  | 4766.5  | 5124.8  | 5344.0  | 4851.2  |
| 30°   | 4318.3 | 4316.8 | 4297.9 | 4260.8 | 4228.4  | 4245.7  | 4524.6  | 4663.7  | 5078.0  | 5370.5  | 4802.0  |
| 32.5° | 4430.9 | 4439.2 | 4435.5 | 4415.1 | 4366.6  | 4297.1  | 4493.7  | 4629.7  | 5064.4  | 5434.0  | 4780.9  |
| 35°   | 4566.3 | 4575.3 | 4602.5 | 4618.3 | 4561.7  | 4449.8  | 4560.2  | 4678.0  | 5103.7  | 5553.4  | 4814.9  |
| 37.5° | 4694.7 | 4718.2 | 4794.5 | 4861.7 | 4813.4  | 4688.7  | 4737.0  | 4820.9  | 5225.3  | 5741.6  | 4906.4  |
| 40°   | 4842.8 | 4863.2 | 4988.0 | 5130.9 | 5123.3  | 4994.0  | 5022.0  | 5078.0  | 5440.1  | 6011.5  | 5071.9  |
| 42.5° | 4988.7 | 5029.6 | 5210.2 | 5412.8 | 5471.0  | 5356.9  | 5401.5  | 5430.9  | 5742.3  | 6369.0  | 5360.7  |
| 45°   | 5183.0 | 5226.8 | 5477.8 | 5721.9 | 5858.0  | 5793.8  | 5864.8  | 5876.1  | 6122.6  | 6855.7  | 5780.2  |
| 47.5° | 5477.0 | 5527.0 | 5819.5 | 6075.7 | 6283.6  | 6290.4  | 6407.6  | 6403.0  | 6597.2  | 7412.8  | 6308.5  |
| 50°   | 5935.1 | 6006.9 | 6246.5 | 6486.2 | 6738.6  | 6879.2  | 7035.7  | 7013.7  | 7166.4  | 8006.2  | 6917.0  |
| 52.5° | 6535.3 | 6568.5 | 6746.2 | 6923.1 | 7236.7  | 7551.9  | 7776.4  | 7756.7  | 7812.0  | 8616.2  | 7607.9  |
| 55°   | 7157.4 | 7182.3 | 7255.6 | 7352.3 | 7774.1  | 8288.2  | 8762.8  | 8731.9  | 8592.0  | 9249.6  | 8290.4  |
| 57.5° | 7716.7 | 7767.3 | 7818.0 | 7858.1 | 8315.4  | 9057.6  | 9771.9  | 9774.2  | 9438.5  | 9932.9  | 8995.7  |
| 60°   | 7803.6 | 7848.2 | 8183.1 | 8499.1 | 9241.3  | 10084.1 | 10852.1 | 10829.3 | 10314.7 | 10674.4 | 9781.7  |
| 62.5° | 6898.1 | 6998.6 | 7557.9 | 8398.5 | 10133.2 | 11961.6 | 12230.0 | 12202.1 | 11362.3 | 11588.3 | 10697.1 |
| 65°   | 4943.4 | 5057.6 | 5732.6 | 6995.5 | 9700.9  | 14030.5 | 14716.9 | 14340.4 | 12790.9 | 12712.3 | 11768.9 |
| 67.5° | 2851.9 | 2879.1 | 3171.6 | 4186.0 | 7386.3  | 14138.6 | 18510.5 | 17983.7 | 15009.4 | 13987.4 | 12293.5 |
| 70°   | 2108.8 | 2108.1 | 2177.7 | 2576.0 | 3997.1  | 11539.2 | 20314.8 | 20787.2 | 17345.0 | 14406.9 | 11552.0 |
| 71°   | 1907.1 | 1909.3 | 1987.2 | 2344.7 | 3165.6  | 9658.6  | 19931.6 | 20965.6 | 17960.2 | 14199.8 | 11015.4 |
| 72.5° | 1631.1 | 1638.7 | 1746.8 | 2102.9 | 2662.9  | 6660.8  | 18280.8 | 19895.3 | 18252.0 | 13688.8 | 10175.6 |
| 75°   | 1237.4 | 1254.7 | 1404.4 | 1772.5 | 2433.9  | 3378.0  | 13416.7 | 15886.9 | 16214.2 | 12078.8 | 7561.0  |
| 77.5° | 882.8  | 902.5  | 1071.8 | 1490.6 | 2313.7  | 2545.7  | 8985.1  | 11588.3 | 11932.2 | 7740.9  | 3410.5  |
| 80°   | 557.8  | 581.3  | 709.0  | 1186.0 | 2173.9  | 2417.3  | 5646.4  | 7789.2  | 6506.6  | 2477.0  | 867.7   |
| 82.5° | 327.3  | 345.4  | 439.9  | 774.8  | 1775.5  | 2328.1  | 3322.1  | 4317.5  | 2532.1  | 748.3   | 394.6   |
| 85°   | 189.8  | 198.0  | 274.3  | 493.6  | 1289.5  | 2197.3  | 2440.7  | 2413.5  | 1099.0  | 365.8   | 186.7   |
| 87.5° | 88.4   | 98.3   | 162.6  | 257.8  | 715.8   | 1592.7  | 1929.0  | 1666.7  | 683.3   | 171.6   | 87.7    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6012.2  | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 | 6012.2 |
| 2.5°  | 5960.0  | 5947.2 | 5893.5 | 5845.9 | 5796.0 | 5731.0 | 5659.2 | 5650.1 | 5606.3 | 5614.6 | 5599.5 |
| 5°    | 5842.1  | 5809.6 | 5680.4 | 5563.2 | 5424.9 | 5301.0 | 5166.4 | 5104.4 | 5015.2 | 5009.1 | 4986.5 |
| 7.5°  | 5673.6  | 5613.1 | 5412.8 | 5190.6 | 4968.3 | 4756.7 | 4547.3 | 4409.8 | 4269.2 | 4209.5 | 4204.2 |
| 10°   | 5483.8  | 5381.1 | 5086.2 | 4757.4 | 4437.0 | 4127.8 | 3828.5 | 3607.0 | 3407.5 | 3313.0 | 3309.2 |
| 12.5° | 5304.0  | 5152.0 | 4747.6 | 4300.1 | 3861.7 | 3461.2 | 3050.7 | 2759.7 | 2509.5 | 2425.6 | 2390.1 |
| 15°   | 5151.3  | 4937.4 | 4418.1 | 3845.9 | 3313.7 | 2757.4 | 2290.3 | 1984.2 | 1752.9 | 1672.8 | 1657.6 |
| 17.5° | 5003.2  | 4728.0 | 4080.2 | 3387.1 | 2743.8 | 2132.3 | 1664.4 | 1436.9 | 1313.7 | 1281.2 | 1280.4 |
| 20°   | 4855.7  | 4512.5 | 3727.2 | 2917.7 | 2192.8 | 1594.9 | 1279.7 | 1177.7 | 1136.1 | 1132.3 | 1126.2 |
| 22.5° | 4688.7  | 4284.3 | 3356.1 | 2446.8 | 1711.3 | 1254.0 | 1087.7 | 1046.9 | 1041.6 | 1055.2 | 1055.2 |
| 25°   | 4532.2  | 4057.5 | 2979.6 | 1985.7 | 1331.1 | 1046.1 | 971.3  | 962.9  | 977.4  | 1001.5 | 1003.8 |
| 27.5° | 4386.3  | 3839.1 | 2612.3 | 1576.0 | 1066.5 | 921.4  | 890.4  | 900.2  | 926.0  | 953.9  | 954.6  |
| 30°   | 4266.1  | 3632.8 | 2255.6 | 1241.9 | 901.0  | 828.4  | 823.1  | 842.8  | 870.8  | 892.7  | 898.0  |
| 32.5° | 4173.1  | 3456.6 | 1910.9 | 998.5  | 792.9  | 758.9  | 763.4  | 780.1  | 797.4  | 809.5  | 817.9  |
| 35°   | 4130.1  | 3305.4 | 1592.7 | 842.0  | 724.1  | 705.3  | 711.2  | 720.4  | 727.9  | 736.9  | 743.7  |
| 37.5° | 4137.7  | 3188.2 | 1308.5 | 744.5  | 678.0  | 668.2  | 668.2  | 668.2  | 668.2  | 672.8  | 673.5  |
| 40°   | 4207.9  | 3121.0 | 1077.1 | 682.5  | 647.1  | 636.4  | 628.1  | 620.6  | 614.5  | 617.5  | 616.0  |
| 42.5° | 4387.9  | 3114.9 | 907.8  | 643.2  | 622.1  | 604.7  | 588.1  | 577.5  | 569.9  | 573.0  | 574.5  |
| 45°   | 4693.2  | 3190.6 | 793.7  | 615.3  | 598.6  | 572.2  | 551.0  | 539.7  | 534.4  | 544.2  | 545.7  |
| 47.5° | 5088.5  | 3355.3 | 724.1  | 594.9  | 576.7  | 542.0  | 519.2  | 508.7  | 510.2  | 524.6  | 528.4  |
| 50°   | 5597.9  | 3622.9 | 690.8  | 582.0  | 561.6  | 516.3  | 492.8  | 483.8  | 488.3  | 508.7  | 513.3  |
| 52.5° | 6157.3  | 4008.4 | 694.7  | 578.2  | 551.8  | 497.4  | 472.4  | 461.9  | 469.4  | 488.3  | 492.0  |
| 55°   | 6802.8  | 4471.7 | 757.3  | 583.5  | 537.4  | 485.2  | 455.8  | 437.6  | 443.7  | 461.1  | 464.1  |
| 57.5° | 7520.2  | 5002.3 | 883.6  | 582.0  | 519.2  | 474.0  | 438.4  | 411.2  | 415.7  | 426.3  | 429.4  |
| 60°   | 8266.9  | 5643.3 | 1079.4 | 586.6  | 511.0  | 460.4  | 415.0  | 381.0  | 379.4  | 388.5  | 390.0  |
| 62.5° | 9163.4  | 6384.8 | 1303.1 | 589.6  | 516.3  | 443.0  | 384.0  | 350.7  | 346.2  | 348.5  | 350.0  |
| 65°   | 10087.1 | 6921.5 | 1219.2 | 577.5  | 532.8  | 428.6  | 356.8  | 321.3  | 312.9  | 311.4  | 312.2  |
| 67.5° | 10115.9 | 6346.3 | 854.9  | 553.3  | 539.7  | 421.1  | 336.4  | 296.3  | 282.7  | 277.4  | 276.7  |
| 70°   | 9072.0  | 5155.8 | 666.0  | 527.6  | 512.4  | 408.9  | 317.5  | 275.9  | 255.5  | 247.1  | 246.4  |
| 71°   | 8562.5  | 4746.1 | 631.1  | 514.8  | 492.0  | 396.8  | 309.2  | 266.8  | 245.6  | 236.6  | 235.1  |
| 72.5° | 7763.5  | 4254.8 | 588.8  | 494.4  | 452.7  | 365.8  | 293.3  | 253.9  | 232.0  | 221.4  | 219.2  |
| 75°   | 5571.5  | 2782.3 | 505.6  | 440.7  | 374.9  | 291.8  | 257.0  | 228.2  | 209.4  | 196.6  | 195.0  |
| 77.5° | 2146.7  | 1107.3 | 382.5  | 366.6  | 287.2  | 228.2  | 211.6  | 197.3  | 183.7  | 170.8  | 170.1  |
| 80°   | 663.6   | 495.1  | 278.9  | 275.9  | 207.8  | 170.1  | 164.8  | 161.0  | 155.8  | 142.1  | 139.1  |
| 82.5° | 354.5   | 284.2  | 192.0  | 178.4  | 136.1  | 113.4  | 119.4  | 120.9  | 121.7  | 107.3  | 105.8  |
| 85°   | 169.4   | 150.4  | 108.1  | 101.3  | 79.4   | 63.5   | 73.3   | 79.4   | 80.1   | 65.8   | 61.2   |
| 87.5° | 80.9    | 78.6   | 50.7   | 38.6   | 29.4   | 21.1   | 25.7   | 31.8   | 34.7   | 25.0   | 21.9   |
| 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)