

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: STREETWORKS

Report Number: P459509

Luminaire Tested: **GLAN-SA9C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48838 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

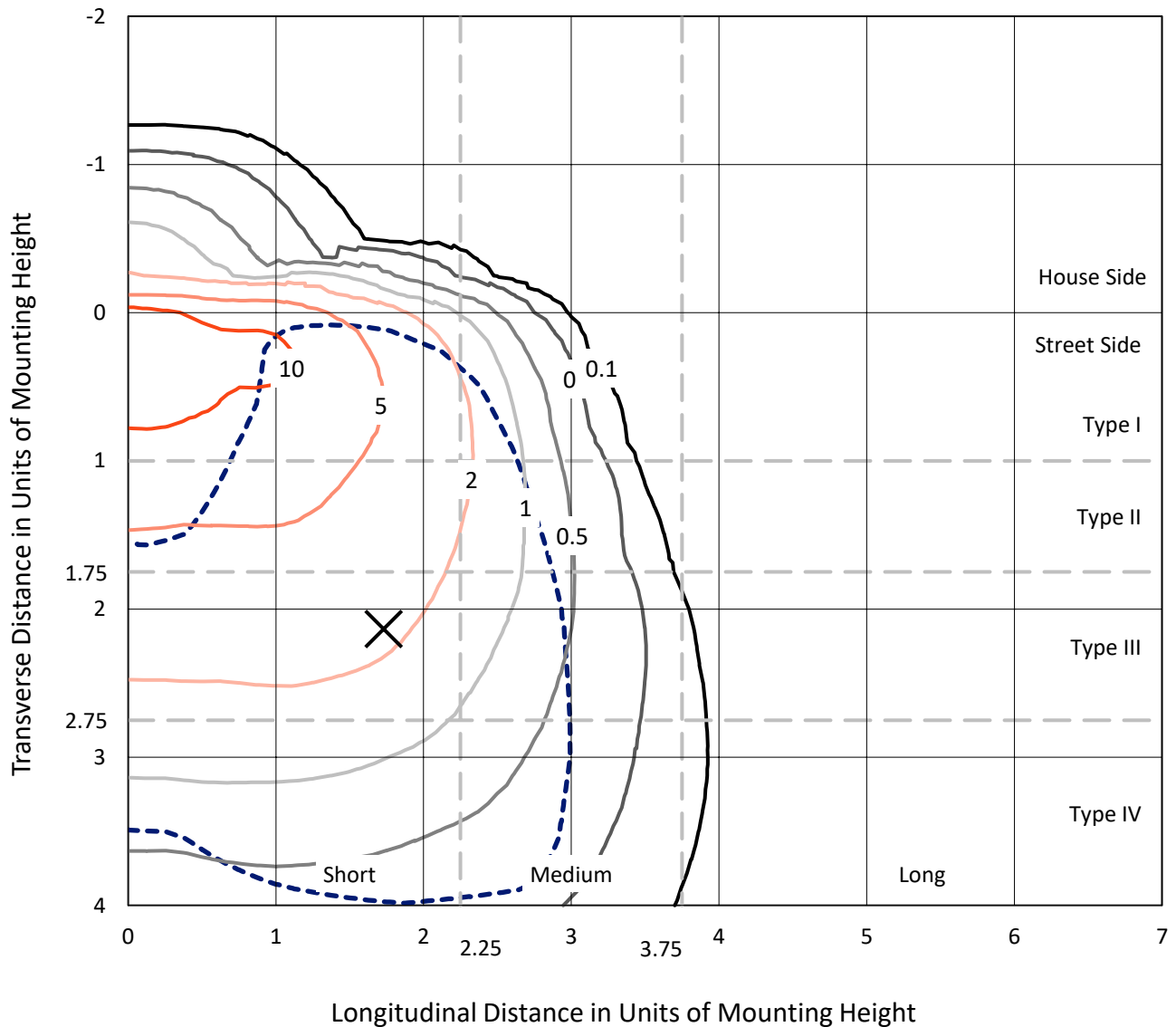
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

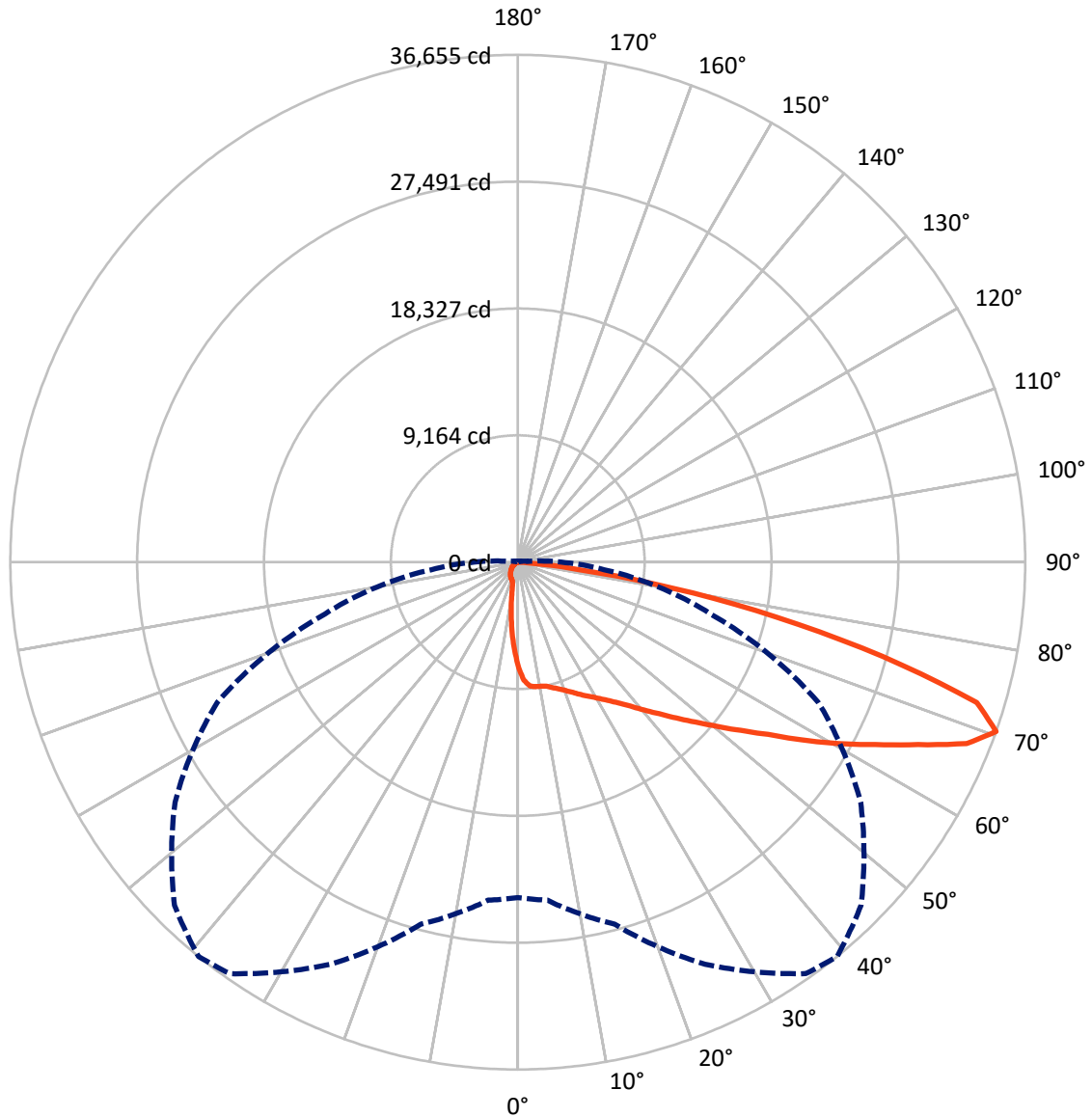
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3184.5   | 0.0    | 3184.5  |
|                    | % Fixture | 6.5      | 0.0    | 6.5     |
| <b>Street Side</b> | Lumens    | 45653.5  | 0.0    | 45653.5 |
|                    | % Fixture | 93.5     | 0.0    | 93.5    |
| <b>Total</b>       | Lumens    | 48838.0  | 0.0    | 48838.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 650.0   | 1.3       |
| 10°-20°   | 1689.1  | 3.5       |
| 20°-30°   | 2829.7  | 5.8       |
| 30°-40°   | 4388.5  | 9.0       |
| 40°-50°   | 6954.4  | 14.2      |
| 50°-60°   | 10194.1 | 20.9      |
| 60°-70°   | 13066.4 | 26.8      |
| 70°-80°   | 8210.5  | 16.8      |
| 80°-90°   | 855.3   | 1.8       |
| 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°    | 48838.0 | 100.0     |
| 0°-180°   | 48838.0 | 100.0     |

**Coefficient of Utilization**



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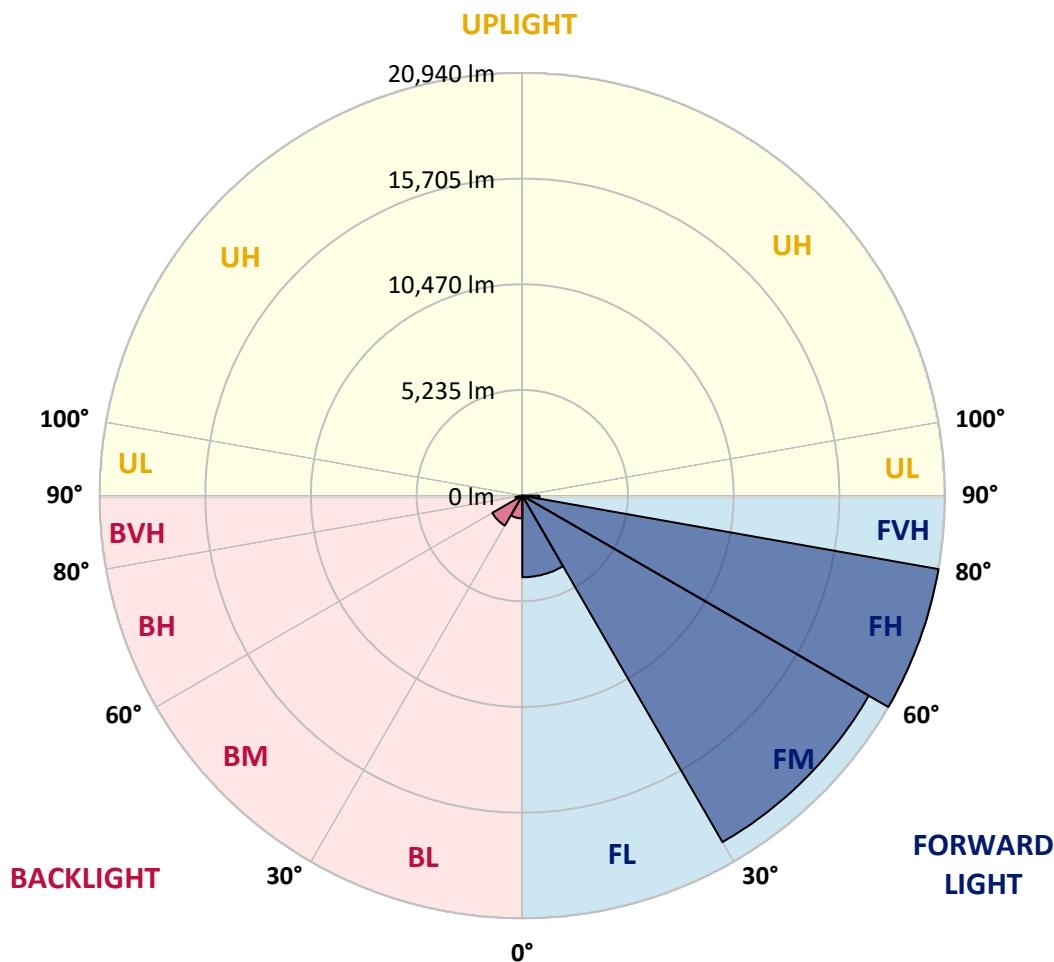
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4041.1  | 8.3       |                         |      |        |
| FM   | (30°-60°)   | 19823.2 | 40.6      |                         |      |        |
| FH   | (60°-80°)   | 20940.1 | 42.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 849.0   | 1.7       |                         |      | G5     |
| BL   | (0°-30°)    | 1127.6  | 2.3       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 1713.8  | 3.5       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 336.8   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 6.3     | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  | 7620.4  |
| 2.5°  | 8805.1  | 8775.6  | 8736.2  | 8690.3  | 8559.0  | 8536.0  | 8457.3  | 8289.9  | 8089.7  | 7925.6  | 7699.2  |
| 5°    | 9221.9  | 9238.3  | 9208.8  | 9126.8  | 9031.6  | 8975.8  | 8877.3  | 8618.1  | 8358.8  | 8027.3  | 7656.5  |
| 7.5°  | 9317.1  | 9349.9  | 9313.8  | 9235.1  | 9143.2  | 9084.1  | 9005.3  | 8782.2  | 8480.2  | 8102.8  | 7594.1  |
| 10°   | 9307.3  | 9346.6  | 9323.7  | 9251.5  | 9176.0  | 9120.2  | 9034.9  | 8857.7  | 8614.8  | 8217.7  | 7613.8  |
| 12.5° | 9290.9  | 9343.4  | 9340.1  | 9304.0  | 9241.6  | 9199.0  | 9146.5  | 8988.9  | 8762.5  | 8385.1  | 7722.1  |
| 15°   | 9244.9  | 9310.5  | 9369.6  | 9399.2  | 9402.4  | 9402.4  | 9336.8  | 9169.4  | 8952.8  | 8605.0  | 7863.3  |
| 17.5° | 9264.6  | 9340.1  | 9487.8  | 9573.1  | 9632.2  | 9625.6  | 9556.7  | 9376.2  | 9136.6  | 8831.4  | 8010.9  |
| 20°   | 9386.0  | 9487.8  | 9694.5  | 9865.2  | 9924.2  | 9904.6  | 9812.7  | 9602.6  | 9330.2  | 9025.0  | 8155.3  |
| 22.5° | 9684.7  | 9776.6  | 10035.8 | 10236.0 | 10278.7 | 10226.2 | 10094.9 | 9809.4  | 9563.2  | 9235.1  | 8329.3  |
| 25°   | 10131.0 | 10239.3 | 10478.9 | 10629.8 | 10629.8 | 10600.3 | 10416.5 | 10081.8 | 9825.8  | 9527.1  | 8555.7  |
| 27.5° | 10672.5 | 10764.4 | 11000.7 | 11135.2 | 11056.5 | 10971.1 | 10787.4 | 10383.7 | 10137.6 | 9894.7  | 8828.1  |
| 30°   | 11220.6 | 11279.6 | 11529.1 | 11588.1 | 11506.1 | 11397.8 | 11200.9 | 10797.2 | 10580.6 | 10393.5 | 9221.9  |
| 32.5° | 11739.1 | 11867.1 | 12073.8 | 12060.7 | 11949.1 | 11896.6 | 11716.1 | 11286.2 | 11164.8 | 11145.1 | 9773.3  |
| 35°   | 12257.6 | 12356.1 | 12539.9 | 12585.8 | 12487.4 | 12477.5 | 12346.2 | 12027.9 | 12031.2 | 12159.2 | 10633.1 |
| 37.5° | 12704.0 | 12792.6 | 13009.2 | 13110.9 | 13130.6 | 13179.8 | 13127.3 | 12917.3 | 13215.9 | 13567.1 | 11771.9 |
| 40°   | 13078.1 | 13202.8 | 13478.5 | 13655.7 | 13859.2 | 14039.7 | 14049.5 | 14095.4 | 14696.0 | 15299.9 | 13258.6 |
| 42.5° | 13370.2 | 13544.1 | 13944.5 | 14272.7 | 14738.7 | 14968.4 | 15152.2 | 15404.9 | 16415.7 | 17318.2 | 15011.1 |
| 45°   | 13750.9 | 13951.0 | 14449.9 | 14965.1 | 15693.7 | 16071.1 | 16327.1 | 17003.1 | 18437.3 | 19668.0 | 16809.5 |
| 47.5° | 14381.0 | 14486.0 | 14994.7 | 15746.2 | 16704.5 | 17242.7 | 17741.6 | 18765.5 | 20606.6 | 21709.3 | 18306.0 |
| 50°   | 15191.6 | 15260.5 | 15644.5 | 16688.1 | 17928.6 | 18637.5 | 19546.6 | 20751.0 | 22857.9 | 23402.7 | 19152.7 |
| 52.5° | 16087.5 | 16110.5 | 16399.3 | 17725.1 | 19300.4 | 20193.1 | 21210.5 | 22697.1 | 24692.5 | 24610.4 | 19713.9 |
| 55°   | 17127.9 | 17095.0 | 17341.2 | 18850.8 | 20924.9 | 21945.6 | 23130.3 | 24689.2 | 26284.2 | 25467.0 | 20035.6 |
| 57.5° | 18319.2 | 18230.6 | 18470.1 | 20344.0 | 23005.6 | 24226.4 | 25430.9 | 26408.9 | 27518.1 | 26185.7 | 20189.8 |
| 60°   | 19566.3 | 19389.0 | 19674.6 | 22021.1 | 25457.1 | 26615.6 | 27616.6 | 27879.1 | 28817.7 | 26756.7 | 19924.0 |
| 62.5° | 20560.6 | 20563.9 | 21095.6 | 23806.4 | 27977.6 | 28991.7 | 29523.3 | 29759.6 | 29936.8 | 26632.0 | 18525.9 |
| 65°   | 22113.0 | 22165.5 | 23015.5 | 26284.2 | 30895.1 | 31774.7 | 32138.9 | 31371.0 | 29986.1 | 25083.0 | 16425.5 |
| 67.5° | 23714.5 | 23881.9 | 25437.4 | 29697.3 | 34265.6 | 34974.4 | 34505.1 | 31682.8 | 28647.1 | 21548.5 | 12454.5 |
| 70°   | 24236.3 | 24512.0 | 27075.1 | 32047.0 | 36287.2 | 36654.7 | 35066.3 | 30228.9 | 23947.5 | 14407.2 | 6268.3  |
| 72.5° | 22208.1 | 22654.5 | 26133.2 | 31190.5 | 34997.4 | 34679.1 | 31374.3 | 25352.1 | 15224.4 | 5470.8  | 1913.3  |
| 75°   | 15660.9 | 15857.8 | 21719.1 | 25873.9 | 28148.2 | 27245.7 | 23865.4 | 16343.5 | 6261.7  | 1535.9  | 656.4   |
| 77.5° | 8086.4  | 7991.2  | 12917.3 | 17167.2 | 20074.9 | 19139.6 | 15628.1 | 8460.6  | 2372.8  | 640.0   | 406.9   |
| 80°   | 4181.0  | 4250.0  | 5589.0  | 8995.5  | 12254.3 | 11276.4 | 8332.6  | 3921.8  | 1263.5  | 354.4   | 311.8   |
| 82.5° | 2343.2  | 2198.8  | 3212.9  | 3928.3  | 5730.1  | 4492.8  | 3196.5  | 2776.4  | 551.3   | 213.3   | 295.4   |
| 85°   | 426.6   | 446.3   | 1762.3  | 2123.3  | 1988.8  | 1263.5  | 1030.5  | 1854.2  | 160.8   | 118.1   | 206.8   |
| 87.5° | 6.6     | 6.6     | 341.3   | 610.4   | 387.3   | 177.2   | 324.9   | 265.8   | 32.8    | 45.9    | 36.1    |
| 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°    | 7620.4  | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 | 7620.4 |
| 2.5°  | 7584.3  | 7459.6 | 7226.6 | 6996.9 | 6704.8 | 6465.2 | 6304.4 | 6137.0 | 5966.4 | 5979.5 | 6018.9 |
| 5°    | 7453.0  | 7236.4 | 6777.0 | 6291.3 | 5825.2 | 5405.2 | 4991.7 | 4620.8 | 4469.8 | 4332.0 | 4338.6 |
| 7.5°  | 7321.8  | 7016.5 | 6343.8 | 5582.4 | 4876.8 | 4161.4 | 3642.8 | 3216.2 | 2989.7 | 2819.1 | 2769.9 |
| 10°   | 7262.7  | 6859.0 | 5946.7 | 4899.8 | 3898.8 | 3117.7 | 2451.5 | 2103.7 | 1834.5 | 1749.2 | 1772.2 |
| 12.5° | 7288.9  | 6780.3 | 5589.0 | 4282.8 | 3091.5 | 2172.6 | 1706.6 | 1529.3 | 1470.3 | 1460.4 | 1453.8 |
| 15°   | 7338.2  | 6724.5 | 5237.8 | 3600.2 | 2271.0 | 1614.7 | 1434.2 | 1401.3 | 1394.8 | 1388.2 | 1391.5 |
| 17.5° | 7403.8  | 6675.2 | 4863.7 | 2960.2 | 1742.7 | 1411.2 | 1358.7 | 1342.3 | 1339.0 | 1339.0 | 1339.0 |
| 20°   | 7469.4  | 6619.4 | 4446.9 | 2389.2 | 1453.8 | 1332.4 | 1299.6 | 1289.8 | 1286.5 | 1286.5 | 1283.2 |
| 22.5° | 7544.9  | 6570.2 | 4023.5 | 1877.2 | 1339.0 | 1276.6 | 1247.1 | 1240.5 | 1237.2 | 1234.0 | 1234.0 |
| 25°   | 7653.2  | 6507.9 | 3573.9 | 1535.9 | 1266.8 | 1224.1 | 1194.6 | 1188.0 | 1184.7 | 1171.6 | 1174.9 |
| 27.5° | 7797.6  | 6461.9 | 3111.2 | 1325.9 | 1201.1 | 1158.5 | 1138.8 | 1128.9 | 1122.4 | 1112.5 | 1115.8 |
| 30°   | 7994.5  | 6422.5 | 2618.9 | 1211.0 | 1125.7 | 1089.6 | 1069.9 | 1063.3 | 1056.7 | 1046.9 | 1046.9 |
| 32.5° | 8335.8  | 6438.9 | 2100.4 | 1119.1 | 1056.7 | 1014.1 | 994.4  | 987.8  | 981.3  | 971.4  | 971.4  |
| 35°   | 8847.8  | 6534.1 | 1680.3 | 1040.3 | 974.7  | 932.0  | 912.3  | 912.3  | 902.5  | 889.4  | 886.1  |
| 37.5° | 9684.7  | 6777.0 | 1348.8 | 964.9  | 895.9  | 856.6  | 833.6  | 827.0  | 817.2  | 797.5  | 794.2  |
| 40°   | 10672.5 | 7154.4 | 1135.5 | 889.4  | 823.7  | 784.4  | 764.7  | 745.0  | 718.7  | 699.0  | 695.7  |
| 42.5° | 11913.0 | 7541.6 | 984.5  | 813.9  | 754.8  | 718.7  | 695.7  | 662.9  | 623.5  | 597.3  | 594.0  |
| 45°   | 13206.1 | 7896.1 | 882.8  | 745.0  | 689.2  | 659.6  | 633.4  | 580.9  | 531.7  | 498.8  | 495.6  |
| 47.5° | 14170.9 | 7961.7 | 800.8  | 679.3  | 633.4  | 603.9  | 567.8  | 502.1  | 436.5  | 406.9  | 397.1  |
| 50°   | 14627.1 | 7643.4 | 715.4  | 613.7  | 577.6  | 544.8  | 498.8  | 423.4  | 351.2  | 315.1  | 308.5  |
| 52.5° | 14787.9 | 7092.0 | 646.5  | 554.6  | 521.8  | 482.4  | 426.6  | 341.3  | 275.7  | 239.6  | 236.3  |
| 55°   | 14722.3 | 6396.3 | 584.2  | 498.8  | 456.2  | 410.2  | 354.4  | 272.4  | 203.5  | 173.9  | 167.4  |
| 57.5° | 14377.7 | 5510.2 | 521.8  | 443.0  | 390.5  | 344.6  | 282.2  | 203.5  | 137.8  | 111.6  | 108.3  |
| 60°   | 13448.9 | 4302.5 | 459.5  | 380.7  | 331.5  | 282.2  | 223.2  | 144.4  | 85.3   | 62.4   | 62.4   |
| 62.5° | 11880.2 | 3193.2 | 400.4  | 318.3  | 279.0  | 226.4  | 157.5  | 91.9   | 45.9   | 32.8   | 29.5   |
| 65°   | 9927.5  | 2356.4 | 334.7  | 269.1  | 233.0  | 177.2  | 111.6  | 55.8   | 23.0   | 9.8    | 6.6    |
| 67.5° | 6927.9  | 1453.8 | 279.0  | 219.9  | 190.3  | 128.0  | 68.9   | 23.0   | 9.8    | 0.0    | 0.0    |
| 70°   | 3147.3  | 692.5  | 213.3  | 167.4  | 144.4  | 91.9   | 36.1   | 13.1   | 6.6    | 0.0    | 0.0    |
| 72.5° | 978.0   | 364.3  | 151.0  | 121.4  | 98.5   | 59.1   | 19.7   | 9.8    | 6.6    | 0.0    | 0.0    |
| 75°   | 452.9   | 233.0  | 95.2   | 65.6   | 55.8   | 29.5   | 13.1   | 6.6    | 3.3    | 0.0    | 0.0    |
| 77.5° | 338.0   | 180.5  | 55.8   | 36.1   | 29.5   | 19.7   | 9.8    | 6.6    | 3.3    | 0.0    | 0.0    |
| 80°   | 295.4   | 91.9   | 32.8   | 23.0   | 16.4   | 13.1   | 6.6    | 3.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 265.8   | 45.9   | 19.7   | 13.1   | 9.8    | 6.6    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    |
| 85°   | 144.4   | 26.3   | 13.1   | 9.8    | 6.6    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 26.3    | 13.1   | 9.8    | 6.6    | 6.6    | 3.3    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    |
| 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)