

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: P456261

Luminaire Tested: **GLAN-SA7C-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456261  
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-SA7C-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 36683 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 377  
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

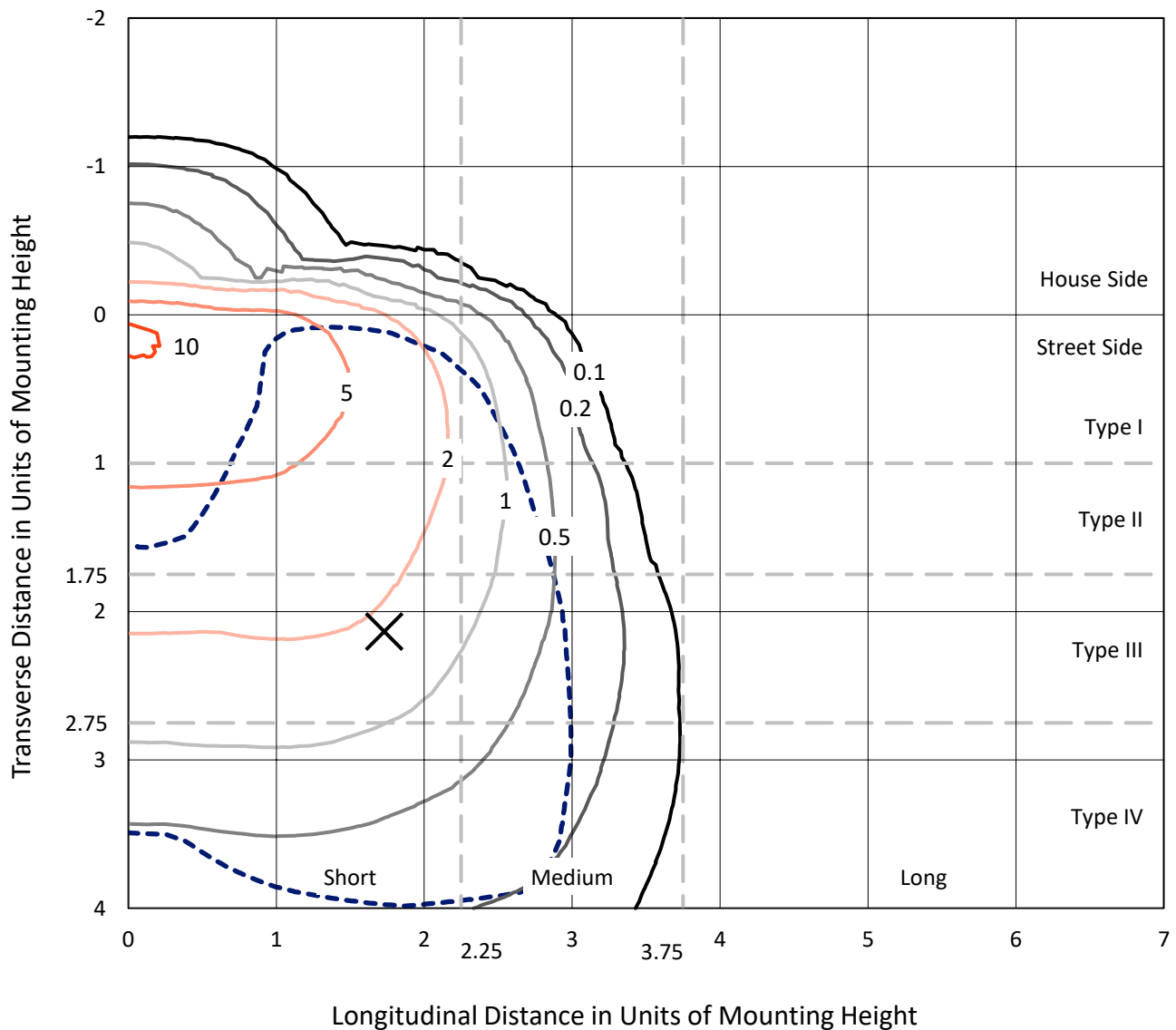


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## Iso-Footcandle Lines of Horizontal Illumination

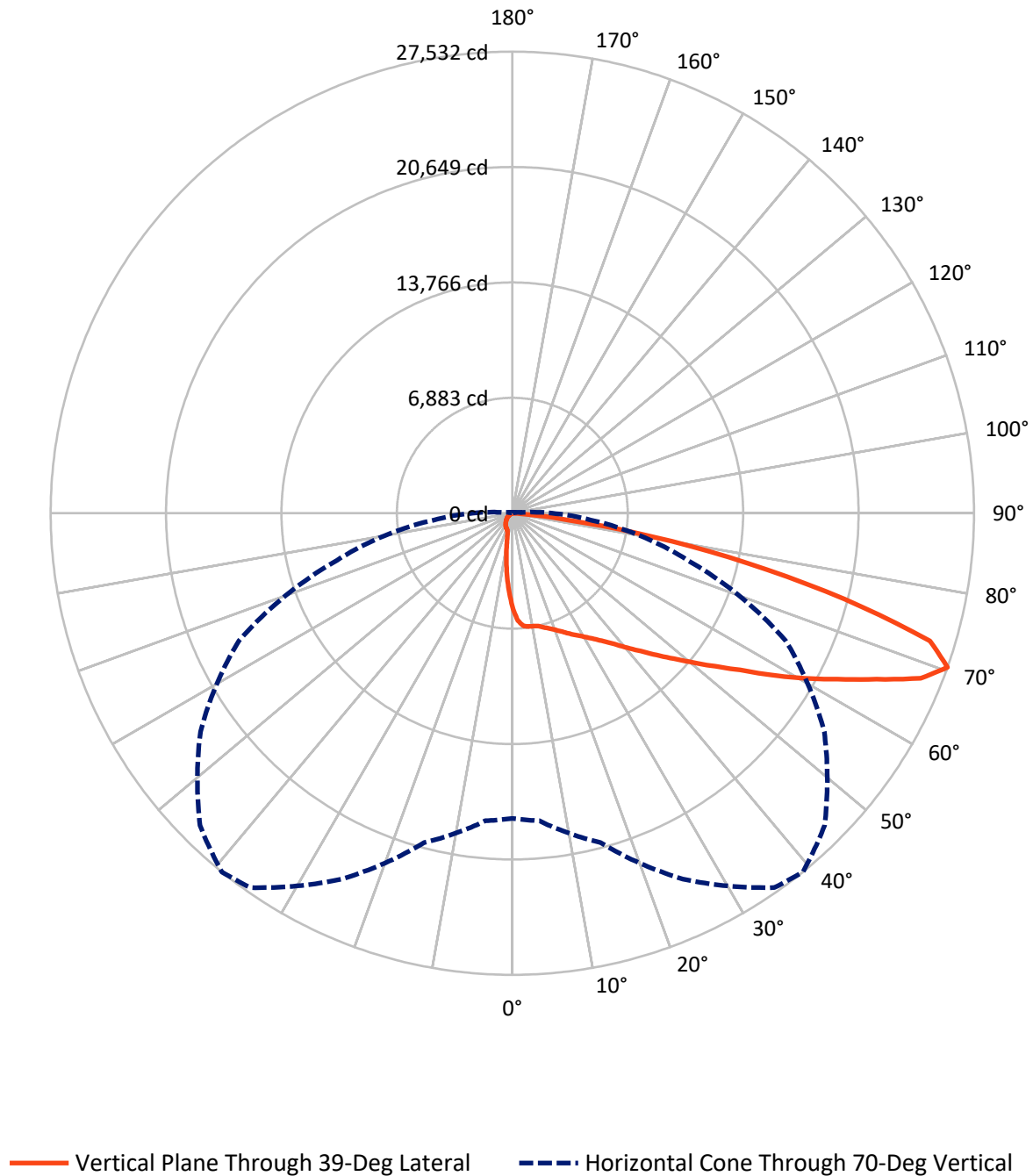
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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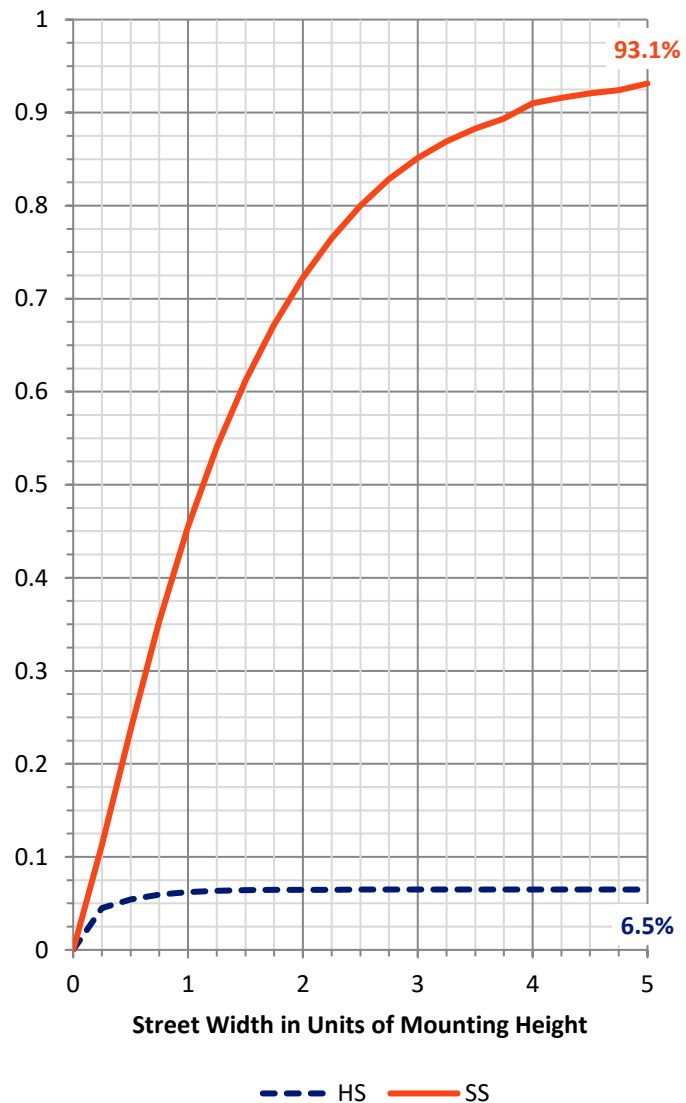
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2391.9   | 0.0    | 2391.9  |
|                    | % Fixture | 6.5      | 0.0    | 6.5     |
| <b>Street Side</b> | Lumens    | 34291.1  | 0.0    | 34291.1 |
|                    | % Fixture | 93.5     | 0.0    | 93.5    |
| <b>Total</b>       | Lumens    | 36683.0  | 0.0    | 36683.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 488.2   | 1.3       |
| 10°-20°   | 1268.7  | 3.5       |
| 20°-30°   | 2125.4  | 5.8       |
| 30°-40°   | 3296.3  | 9.0       |
| 40°-50°   | 5223.6  | 14.2      |
| 50°-60°   | 7657.0  | 20.9      |
| 60°-70°   | 9814.4  | 26.8      |
| 70°-80°   | 6167.1  | 16.8      |
| 80°-90°   | 642.5   | 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°    | 36683.0 | 100.0     |
| 0°-180°   | 36683.0 | 100.0     |

**Coefficient of Utilization**



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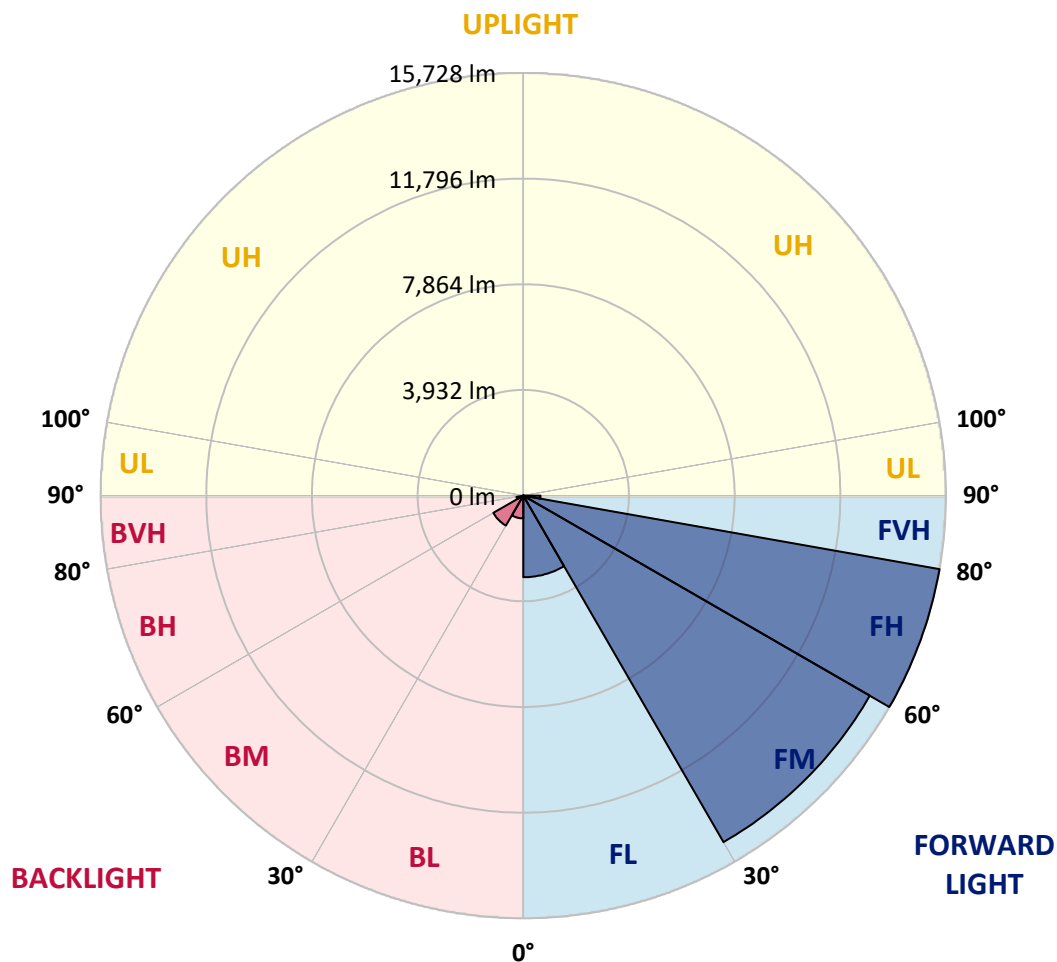
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3035.3  | 8.3       |                         |      |        |
| FM   | (30°-60°)   | 14889.5 | 40.6      |                         |      |        |
| FH   | (60°-80°)   | 15728.5 | 42.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 637.7   | 1.7       |                         |      | G4/750 |
| BL   | (0°-30°)    | 847.0   | 2.3       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1287.3  | 3.5       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 253.0   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 4.7     | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  | 5723.8  |
| 2.5°  | 6613.7  | 6591.5  | 6561.9  | 6527.4  | 6428.8  | 6411.6  | 6352.4  | 6226.7  | 6076.3  | 5953.1  | 5783.0  |
| 5°    | 6926.7  | 6939.1  | 6916.9  | 6855.3  | 6783.8  | 6741.9  | 6667.9  | 6473.2  | 6278.4  | 6029.5  | 5750.9  |
| 7.5°  | 6998.2  | 7022.9  | 6995.8  | 6936.6  | 6867.6  | 6823.2  | 6764.1  | 6596.4  | 6369.6  | 6086.2  | 5704.1  |
| 10°   | 6990.8  | 7020.4  | 7003.2  | 6948.9  | 6892.2  | 6850.3  | 6786.2  | 6653.1  | 6470.7  | 6172.4  | 5718.9  |
| 12.5° | 6978.5  | 7017.9  | 7015.5  | 6988.4  | 6941.5  | 6909.5  | 6870.0  | 6751.7  | 6581.6  | 6298.2  | 5800.2  |
| 15°   | 6944.0  | 6993.3  | 7037.7  | 7059.9  | 7062.3  | 7062.3  | 7013.0  | 6887.3  | 6724.6  | 6463.3  | 5906.2  |
| 17.5° | 6958.8  | 7015.5  | 7126.4  | 7190.5  | 7234.9  | 7229.9  | 7178.2  | 7042.6  | 6862.7  | 6633.4  | 6017.1  |
| 20°   | 7050.0  | 7126.4  | 7281.7  | 7409.9  | 7454.3  | 7439.5  | 7370.4  | 7212.7  | 7008.1  | 6778.8  | 6125.6  |
| 22.5° | 7274.3  | 7343.3  | 7538.1  | 7688.4  | 7720.5  | 7681.0  | 7582.4  | 7368.0  | 7183.1  | 6936.6  | 6256.3  |
| 25°   | 7609.6  | 7690.9  | 7870.8  | 7984.2  | 7984.2  | 7962.1  | 7824.0  | 7572.6  | 7380.3  | 7156.0  | 6426.3  |
| 27.5° | 8016.3  | 8085.3  | 8262.8  | 8363.9  | 8304.7  | 8240.6  | 8102.6  | 7799.4  | 7614.5  | 7432.1  | 6630.9  |
| 30°   | 8427.9  | 8472.3  | 8659.7  | 8704.0  | 8642.4  | 8561.1  | 8413.2  | 8110.0  | 7947.3  | 7806.8  | 6926.7  |
| 32.5° | 8817.4  | 8913.6  | 9068.9  | 9059.0  | 8975.2  | 8935.7  | 8800.2  | 8477.2  | 8386.0  | 8371.3  | 7340.9  |
| 35°   | 9206.9  | 9280.8  | 9418.9  | 9453.4  | 9379.4  | 9372.1  | 9273.5  | 9034.3  | 9036.8  | 9132.9  | 7986.7  |
| 37.5° | 9542.1  | 9608.7  | 9771.4  | 9847.8  | 9862.6  | 9899.6  | 9860.1  | 9702.4  | 9926.7  | 10190.4 | 8842.1  |
| 40°   | 9823.2  | 9916.8  | 10123.9 | 10257.0 | 10409.8 | 10545.4 | 10552.8 | 10587.3 | 11038.4 | 11492.0 | 9958.7  |
| 42.5° | 10042.5 | 10173.2 | 10473.9 | 10720.4 | 11070.5 | 11243.0 | 11381.1 | 11570.9 | 12330.1 | 13008.0 | 11275.1 |
| 45°   | 10328.5 | 10478.9 | 10853.5 | 11240.5 | 11787.8 | 12071.3 | 12263.5 | 12771.3 | 13848.6 | 14772.9 | 12625.9 |
| 47.5° | 10801.8 | 10880.7 | 11262.7 | 11827.2 | 12547.0 | 12951.3 | 13326.0 | 14095.1 | 15477.9 | 16306.2 | 13750.0 |
| 50°   | 11410.6 | 11462.4 | 11750.8 | 12534.7 | 13466.5 | 13998.9 | 14681.7 | 15586.4 | 17169.0 | 17578.1 | 14385.9 |
| 52.5° | 12083.6 | 12100.8 | 12317.8 | 13313.6 | 14496.9 | 15167.3 | 15931.5 | 17048.2 | 18546.9 | 18485.3 | 14807.5 |
| 55°   | 12865.0 | 12840.4 | 13025.2 | 14159.1 | 15717.0 | 16483.7 | 17373.6 | 18544.4 | 19742.4 | 19128.7 | 15049.0 |
| 57.5° | 13759.8 | 13693.3 | 13873.2 | 15280.7 | 17279.9 | 18196.9 | 19101.5 | 19836.1 | 20669.3 | 19668.5 | 15164.9 |
| 60°   | 14696.5 | 14563.4 | 14777.9 | 16540.4 | 19121.3 | 19991.4 | 20743.3 | 20940.5 | 21645.5 | 20097.4 | 14965.2 |
| 62.5° | 15443.4 | 15445.9 | 15845.2 | 17881.3 | 21014.4 | 21776.1 | 22175.4 | 22352.9 | 22486.0 | 20003.7 | 13915.1 |
| 65°   | 16609.4 | 16648.8 | 17287.3 | 19742.4 | 23205.8 | 23866.4 | 24140.1 | 23563.2 | 22523.0 | 18840.2 | 12337.5 |
| 67.5° | 17812.3 | 17938.0 | 19106.5 | 22306.1 | 25737.4 | 26269.9 | 25917.4 | 23797.4 | 21517.3 | 16185.4 | 9354.8  |
| 70°   | 18204.3 | 18411.3 | 20336.5 | 24071.0 | 27255.9 | 27532.0 | 26338.9 | 22705.4 | 17987.3 | 10821.5 | 4708.2  |
| 72.5° | 16680.9 | 17016.1 | 19629.1 | 23427.7 | 26287.1 | 26048.0 | 23565.7 | 19042.4 | 11435.3 | 4109.2  | 1437.1  |
| 75°   | 11763.1 | 11911.0 | 16313.6 | 19434.3 | 21142.6 | 20464.7 | 17925.7 | 12275.9 | 4703.3  | 1153.6  | 493.0   |
| 77.5° | 6073.8  | 6002.4  | 9702.4  | 12894.6 | 15078.6 | 14376.1 | 11738.5 | 6354.9  | 1782.2  | 480.7   | 305.7   |
| 80°   | 3140.5  | 3192.2  | 4198.0  | 6756.7  | 9204.4  | 8469.9  | 6258.7  | 2945.7  | 949.0   | 266.2   | 234.2   |
| 82.5° | 1760.0  | 1651.6  | 2413.3  | 2950.6  | 4303.9  | 3374.6  | 2400.9  | 2085.4  | 414.1   | 160.2   | 221.9   |
| 85°   | 320.5   | 335.2   | 1323.7  | 1594.9  | 1493.8  | 949.0   | 774.0   | 1392.7  | 120.8   | 88.7    | 155.3   |
| 87.5° | 4.9     | 4.9     | 256.4   | 458.5   | 290.9   | 133.1   | 244.0   | 199.7   | 24.7    | 34.5    | 27.1    |
| 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°    | 5723.8  | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 | 5723.8 |
| 2.5°  | 5696.7  | 5603.0 | 5428.0 | 5255.5 | 5036.1 | 4856.1 | 4735.3 | 4609.6 | 4481.4 | 4491.3 | 4520.9 |
| 5°    | 5598.1  | 5435.4 | 5090.3 | 4725.5 | 4375.4 | 4059.9 | 3749.3 | 3470.8 | 3357.4 | 3253.8 | 3258.8 |
| 7.5°  | 5499.5  | 5270.2 | 4764.9 | 4193.0 | 3663.0 | 3125.7 | 2736.2 | 2415.7 | 2245.6 | 2117.5 | 2080.5 |
| 10°   | 5455.1  | 5151.9 | 4466.6 | 3680.3 | 2928.5 | 2341.8 | 1841.4 | 1580.1 | 1378.0 | 1313.9 | 1331.1 |
| 12.5° | 5474.8  | 5092.8 | 4198.0 | 3216.9 | 2322.1 | 1631.9 | 1281.8 | 1148.7 | 1104.3 | 1096.9 | 1092.0 |
| 15°   | 5511.8  | 5050.9 | 3934.2 | 2704.1 | 1705.8 | 1212.8 | 1077.2 | 1052.6 | 1047.6 | 1042.7 | 1045.2 |
| 17.5° | 5561.1  | 5013.9 | 3653.2 | 2223.5 | 1308.9 | 1060.0 | 1020.5 | 1008.2 | 1005.7 | 1005.7 | 1005.7 |
| 20°   | 5610.4  | 4972.0 | 3340.1 | 1794.5 | 1092.0 | 1000.8 | 976.2  | 968.8  | 966.3  | 966.3  | 963.8  |
| 22.5° | 5667.1  | 4935.0 | 3022.1 | 1410.0 | 1005.7 | 958.9  | 936.7  | 931.8  | 929.3  | 926.9  | 926.9  |
| 25°   | 5748.5  | 4888.2 | 2684.4 | 1153.6 | 951.5  | 919.5  | 897.3  | 892.3  | 889.9  | 880.0  | 882.5  |
| 27.5° | 5856.9  | 4853.6 | 2336.9 | 995.9  | 902.2  | 870.2  | 855.4  | 848.0  | 843.0  | 835.6  | 838.1  |
| 30°   | 6004.8  | 4824.1 | 1967.1 | 909.6  | 845.5  | 818.4  | 803.6  | 798.7  | 793.7  | 786.3  | 786.3  |
| 32.5° | 6261.2  | 4836.4 | 1577.6 | 840.6  | 793.7  | 761.7  | 746.9  | 742.0  | 737.0  | 729.6  | 729.6  |
| 35°   | 6645.7  | 4907.9 | 1262.1 | 781.4  | 732.1  | 700.1  | 685.3  | 685.3  | 677.9  | 668.0  | 665.6  |
| 37.5° | 7274.3  | 5090.3 | 1013.1 | 724.7  | 673.0  | 643.4  | 626.1  | 621.2  | 613.8  | 599.0  | 596.5  |
| 40°   | 8016.3  | 5373.8 | 852.9  | 668.0  | 618.7  | 589.1  | 574.4  | 559.6  | 539.8  | 525.1  | 522.6  |
| 42.5° | 8948.1  | 5664.6 | 739.5  | 611.3  | 567.0  | 539.8  | 522.6  | 497.9  | 468.4  | 448.6  | 446.2  |
| 45°   | 9919.3  | 5930.9 | 663.1  | 559.6  | 517.7  | 495.5  | 475.8  | 436.3  | 399.3  | 374.7  | 372.2  |
| 47.5° | 10644.0 | 5980.2 | 601.5  | 510.3  | 475.8  | 453.6  | 426.5  | 377.2  | 327.8  | 305.7  | 298.3  |
| 50°   | 10986.7 | 5741.1 | 537.4  | 461.0  | 433.8  | 409.2  | 374.7  | 318.0  | 263.8  | 236.6  | 231.7  |
| 52.5° | 11107.4 | 5326.9 | 485.6  | 416.6  | 391.9  | 362.4  | 320.5  | 256.4  | 207.1  | 179.9  | 177.5  |
| 55°   | 11058.1 | 4804.3 | 438.8  | 374.7  | 342.6  | 308.1  | 266.2  | 204.6  | 152.8  | 130.6  | 125.7  |
| 57.5° | 10799.3 | 4138.8 | 391.9  | 332.8  | 293.3  | 258.8  | 212.0  | 152.8  | 103.5  | 83.8   | 81.3   |
| 60°   | 10101.7 | 3231.7 | 345.1  | 285.9  | 249.0  | 212.0  | 167.6  | 108.5  | 64.1   | 46.8   | 46.8   |
| 62.5° | 8923.4  | 2398.5 | 300.7  | 239.1  | 209.5  | 170.1  | 118.3  | 69.0   | 34.5   | 24.7   | 22.2   |
| 65°   | 7456.7  | 1769.9 | 251.4  | 202.1  | 175.0  | 133.1  | 83.8   | 41.9   | 17.3   | 7.4    | 4.9    |
| 67.5° | 5203.7  | 1092.0 | 209.5  | 165.2  | 143.0  | 96.1   | 51.8   | 17.3   | 7.4    | 0.0    | 0.0    |
| 70°   | 2364.0  | 520.1  | 160.2  | 125.7  | 108.5  | 69.0   | 27.1   | 9.9    | 4.9    | 0.0    | 0.0    |
| 72.5° | 734.6   | 273.6  | 113.4  | 91.2   | 74.0   | 44.4   | 14.8   | 7.4    | 4.9    | 0.0    | 0.0    |
| 75°   | 340.2   | 175.0  | 71.5   | 49.3   | 41.9   | 22.2   | 9.9    | 4.9    | 2.5    | 0.0    | 0.0    |
| 77.5° | 253.9   | 135.6  | 41.9   | 27.1   | 22.2   | 14.8   | 7.4    | 4.9    | 2.5    | 0.0    | 0.0    |
| 80°   | 221.9   | 69.0   | 24.7   | 17.3   | 12.3   | 9.9    | 4.9    | 2.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 199.7   | 34.5   | 14.8   | 9.9    | 7.4    | 4.9    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    |
| 85°   | 108.5   | 19.7   | 9.9    | 7.4    | 4.9    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 19.7    | 9.9    | 7.4    | 4.9    | 4.9    | 2.5    | 2.5    | 2.5    | 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)