

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: P318094

Luminaire Tested: **GAN-SA0C-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 68703 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

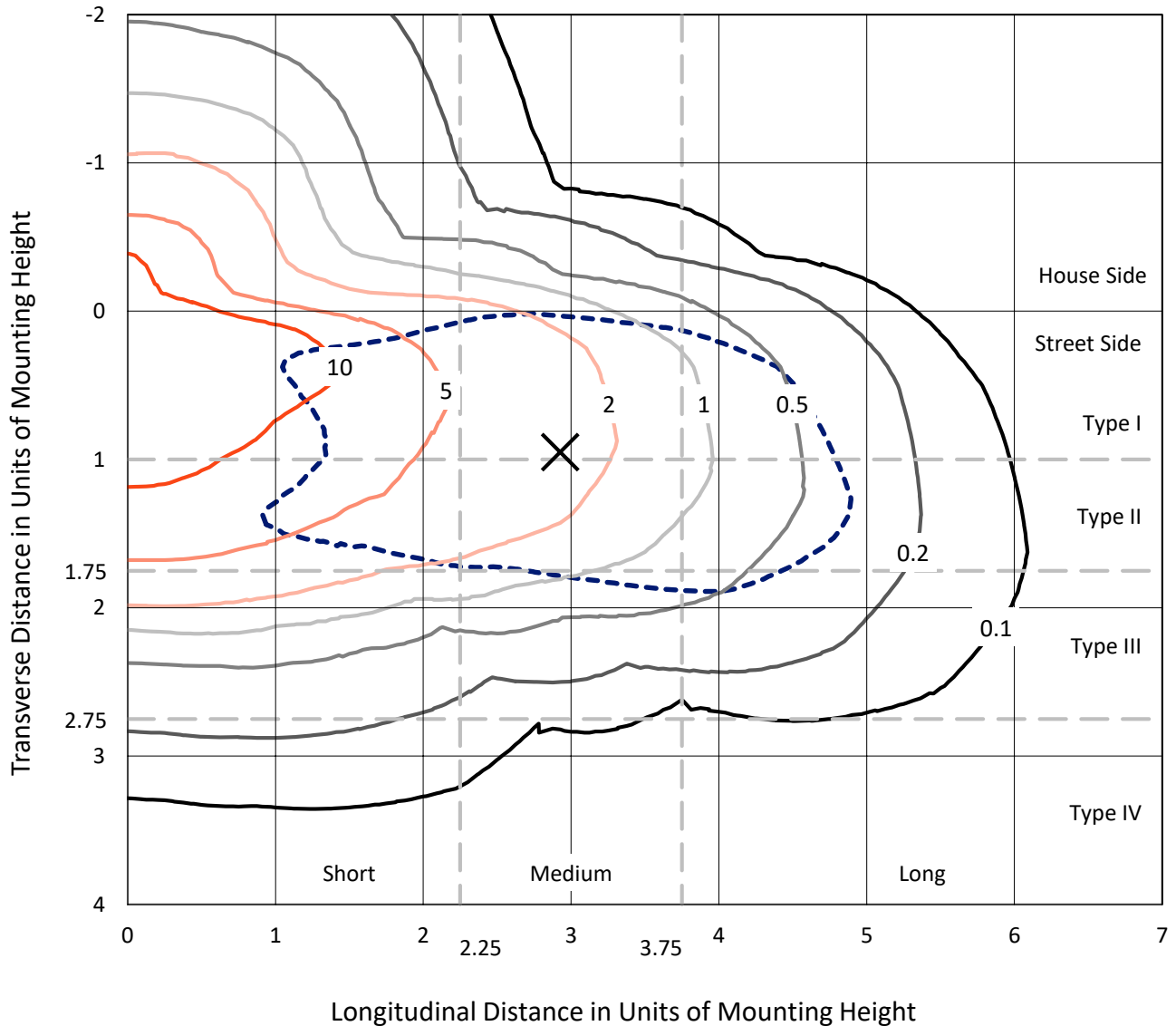
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

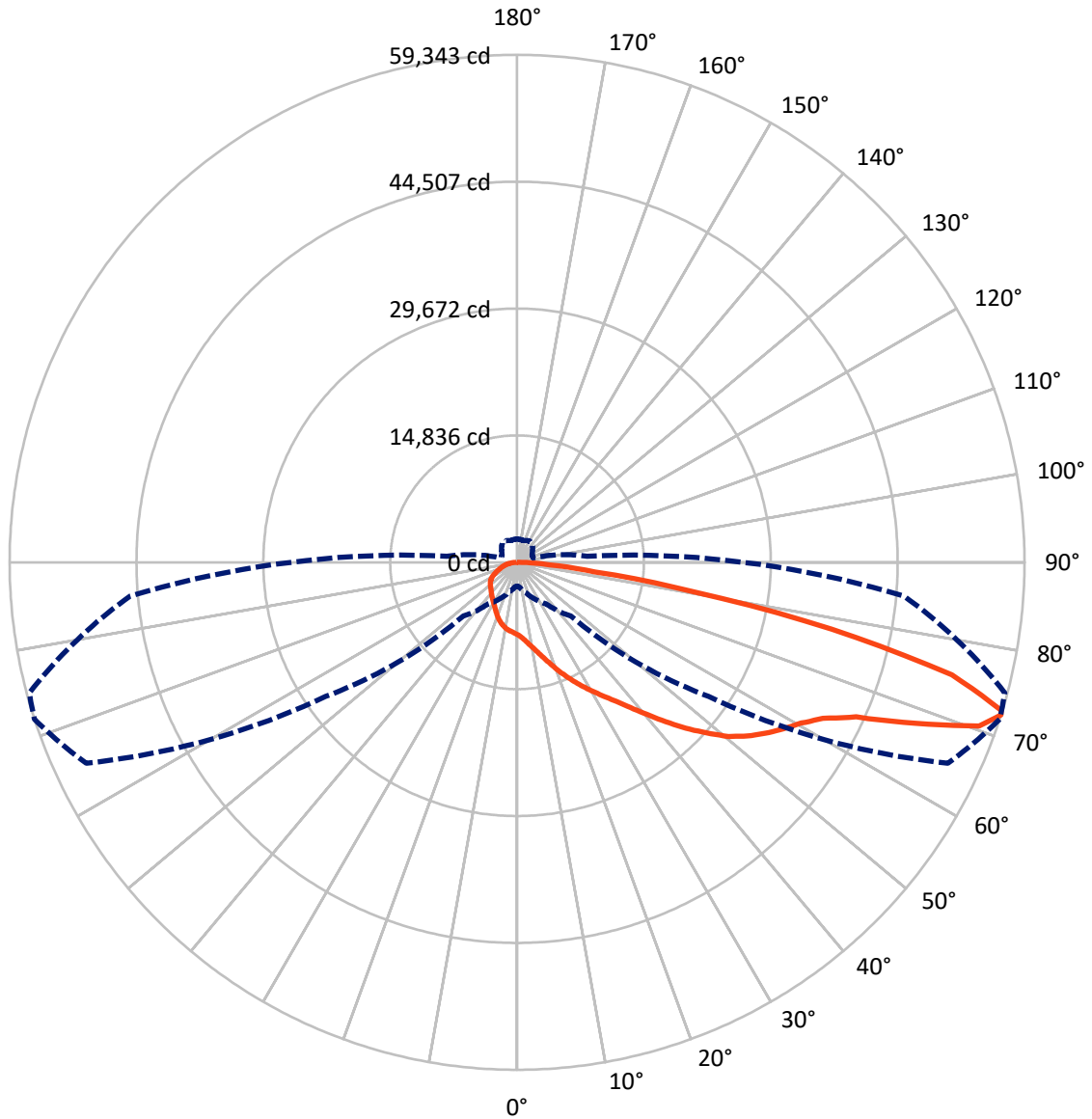
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical



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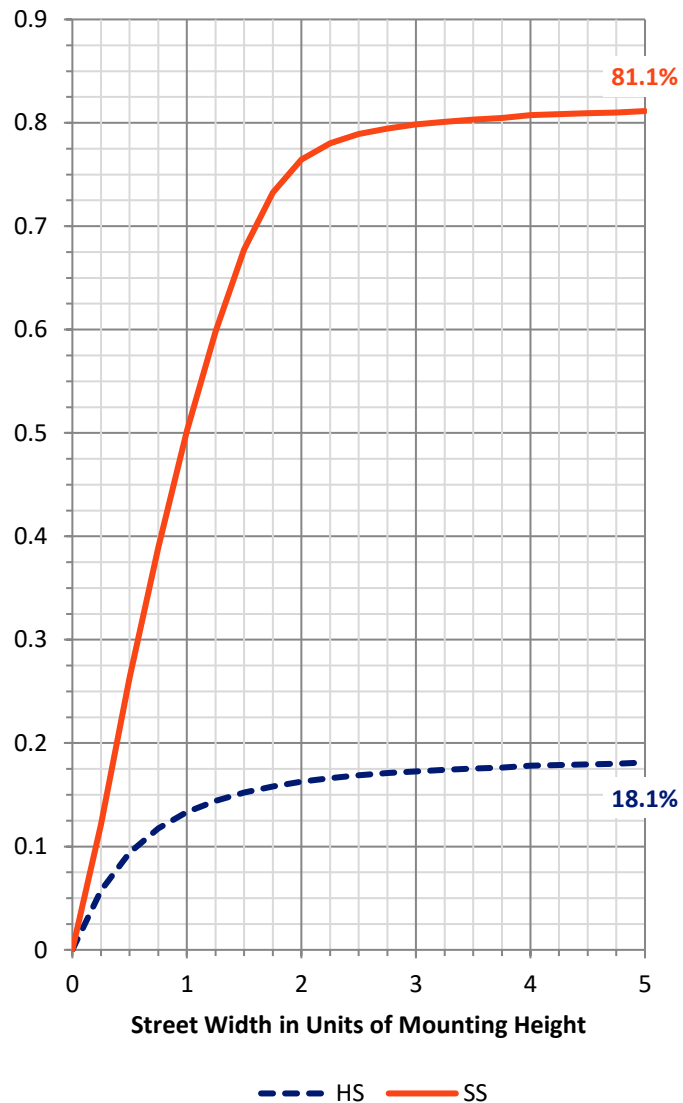
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12744.9  | 0.0    | 12744.9 |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 55958.1  | 0.0    | 55958.1 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 68703.0  | 0.0    | 68703.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 846.9   | 1.2       |
| 10°-20°   | 2736.9  | 4.0       |
| 20°-30°   | 4795.9  | 7.0       |
| 30°-40°   | 7110.8  | 10.4      |
| 40°-50°   | 10400.2 | 15.1      |
| 50°-60°   | 14310.6 | 20.8      |
| 60°-70°   | 15931.9 | 23.2      |
| 70°-80°   | 10795.4 | 15.7      |
| 80°-90°   | 1774.3  | 2.6       |
| 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°    | 68703.0 | 100.0     |
| 0°-180°   | 68703.0 | 100.0     |

**Coefficient of Utilization**

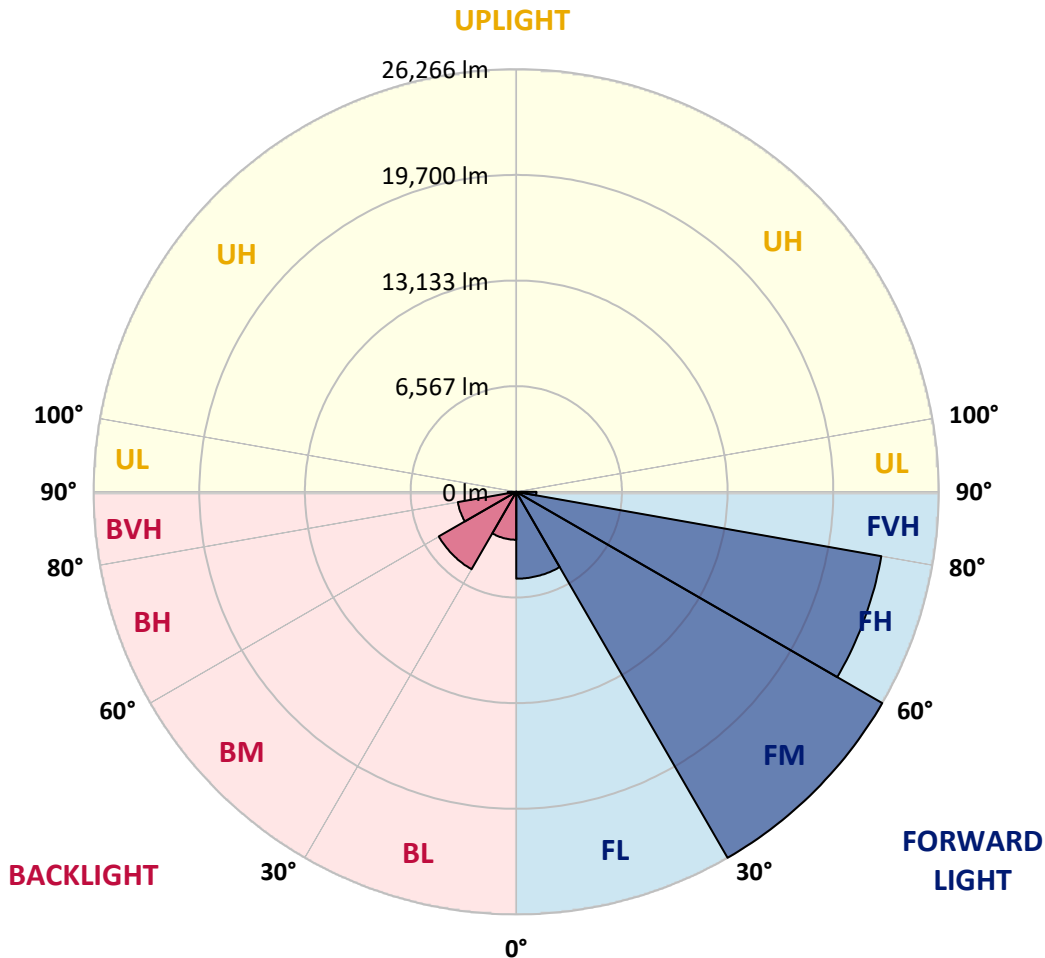


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5400.5  | 7.9       |                         |      |         |
| FM (30°-60°)   | 26266.0 | 38.2      |                         |      |         |
| FH (60°-80°)   | 23040.1 | 33.5      |                         |      | G5      |
| FVH (80°-90°)  | 1251.6  | 1.8       |                         |      | G5      |
| BL (0°-30°)    | 2979.3  | 4.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 5555.6  | 8.1       | B4/8500                 |      |         |
| BH (60°-80°)   | 3687.3  | 5.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 522.7   | 0.8       |                         |      | G4/750  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  | 8452.3  |
| 2.5°  | 9337.0  | 9322.8  | 9273.1  | 9273.1  | 9178.5  | 9098.1  | 8946.7  | 8844.9  | 8724.3  | 8681.7  | 8539.8  |
| 5°    | 10240.6 | 10245.4 | 10183.9 | 10141.3 | 10001.7 | 9831.4  | 9573.6  | 9339.4  | 9105.2  | 9010.5  | 8719.6  |
| 7.5°  | 11000.0 | 10990.5 | 10974.0 | 10938.5 | 10808.4 | 10633.3 | 10285.6 | 9937.9  | 9592.5  | 9450.5  | 8949.0  |
| 10°   | 11487.3 | 11508.6 | 11522.8 | 11539.4 | 11485.0 | 11359.6 | 11030.8 | 10607.3 | 10155.5 | 9961.5  | 9223.4  |
| 12.5° | 11733.3 | 11771.2 | 11837.4 | 11951.0 | 12040.9 | 12026.7 | 11787.7 | 11338.3 | 10801.3 | 10557.6 | 9566.5  |
| 15°   | 11877.6 | 11927.3 | 12031.4 | 12234.8 | 12488.0 | 12632.3 | 12568.4 | 12161.5 | 11563.0 | 11262.6 | 9985.2  |
| 17.5° | 11967.5 | 12007.7 | 12168.6 | 12440.7 | 12816.8 | 13200.0 | 13368.0 | 13027.3 | 12424.1 | 12081.1 | 10465.4 |
| 20°   | 12029.0 | 12059.8 | 12260.9 | 12580.2 | 13067.5 | 13677.9 | 14146.2 | 14061.1 | 13372.7 | 12928.0 | 10966.9 |
| 22.5° | 12166.2 | 12192.3 | 12383.9 | 12705.6 | 13245.0 | 14032.7 | 14896.1 | 15023.9 | 14373.3 | 13869.5 | 11503.9 |
| 25°   | 12549.5 | 12549.5 | 12710.3 | 12935.1 | 13441.3 | 14340.2 | 15530.1 | 16095.5 | 15395.3 | 14808.6 | 12000.6 |
| 27.5° | 13280.4 | 13273.3 | 13332.5 | 13410.5 | 13793.8 | 14652.5 | 16095.5 | 17041.7 | 16455.1 | 15814.0 | 12483.2 |
| 30°   | 14146.2 | 14193.6 | 14200.7 | 14162.8 | 14342.6 | 15042.8 | 16618.3 | 18040.0 | 17521.9 | 16831.2 | 12977.6 |
| 32.5° | 15260.4 | 15291.2 | 15255.7 | 15130.3 | 15104.3 | 15596.4 | 17131.6 | 19085.6 | 18676.4 | 17893.3 | 13429.5 |
| 35°   | 16675.1 | 16615.9 | 16504.7 | 16249.3 | 16005.6 | 16336.8 | 17718.3 | 20131.2 | 19972.7 | 19177.9 | 14051.6 |
| 37.5° | 18191.4 | 18193.8 | 18056.6 | 17477.0 | 17141.1 | 17283.0 | 18527.3 | 21316.4 | 21541.1 | 20706.0 | 14848.8 |
| 40°   | 19407.3 | 19471.2 | 19556.4 | 18794.6 | 18359.4 | 18555.7 | 19556.4 | 22690.8 | 23395.7 | 22518.1 | 15887.3 |
| 42.5° | 20256.6 | 20329.9 | 20571.2 | 20093.3 | 19641.5 | 20005.8 | 20767.5 | 24157.4 | 25477.4 | 24609.3 | 17103.2 |
| 45°   | 21155.5 | 21195.7 | 21366.0 | 21160.2 | 20871.6 | 21692.5 | 22132.5 | 25676.1 | 27679.8 | 26837.6 | 18463.4 |
| 47.5° | 22101.7 | 22144.3 | 22319.4 | 22182.2 | 22030.8 | 23268.0 | 23556.6 | 27107.3 | 29789.9 | 29286.0 | 19915.9 |
| 50°   | 23270.3 | 23298.7 | 23464.3 | 23215.9 | 23263.2 | 24455.5 | 24829.3 | 28420.2 | 32001.7 | 31486.0 | 21373.1 |
| 52.5° | 24864.7 | 24871.8 | 25101.3 | 24876.6 | 24654.2 | 25326.0 | 25924.5 | 29657.4 | 33735.7 | 33492.1 | 22830.3 |
| 55°   | 26113.8 | 26189.5 | 26941.7 | 26894.4 | 26766.7 | 26116.1 | 26840.0 | 30835.5 | 35282.8 | 35398.7 | 24377.4 |
| 57.5° | 25316.6 | 25612.3 | 27135.7 | 28209.7 | 29255.3 | 28081.9 | 28077.2 | 32162.6 | 36721.1 | 37269.9 | 26078.3 |
| 60°   | 22172.7 | 22574.8 | 24819.8 | 27201.9 | 30473.6 | 31502.6 | 30646.2 | 33783.0 | 38173.6 | 39124.5 | 28209.7 |
| 62.5° | 15835.3 | 16497.6 | 19539.8 | 23343.7 | 28803.5 | 33768.8 | 35874.2 | 36354.4 | 40148.8 | 41272.5 | 30979.8 |
| 65°   | 8005.2  | 8506.7  | 11056.8 | 15638.9 | 23012.5 | 32288.0 | 41556.4 | 41984.5 | 43581.3 | 44579.6 | 35245.0 |
| 67.5° | 4863.7  | 5052.9  | 6297.2  | 8698.3  | 14108.4 | 25151.0 | 43411.0 | 51368.8 | 50223.9 | 50753.8 | 41326.9 |
| 70°   | 3583.9  | 3723.4  | 4499.4  | 5776.8  | 8114.0  | 14758.9 | 37719.4 | 58065.8 | 57313.6 | 57254.4 | 45821.5 |
| 72°   | 2791.4  | 2893.1  | 3579.1  | 4667.3  | 5932.9  | 8854.4  | 27339.2 | 55593.8 | 59343.2 | 59045.2 | 45409.9 |
| 72.5° | 2647.1  | 2737.0  | 3361.5  | 4392.9  | 5606.5  | 8026.5  | 24580.9 | 53926.0 | 59196.6 | 59061.7 | 44877.7 |
| 75°   | 2084.1  | 2148.0  | 2488.6  | 3397.0  | 4388.2  | 4553.8  | 13469.7 | 41790.6 | 52513.8 | 54697.2 | 40364.1 |
| 77.5° | 1724.5  | 1734.0  | 1913.8  | 2472.0  | 3420.6  | 3219.6  | 6616.6  | 28995.1 | 37603.5 | 40004.5 | 28592.9 |
| 80°   | 1405.2  | 1417.0  | 1502.2  | 1734.0  | 2588.0  | 2382.2  | 3141.5  | 16672.7 | 21053.8 | 21079.8 | 13597.4 |
| 82.5° | 1118.9  | 1121.3  | 1215.9  | 1268.0  | 1859.4  | 1703.2  | 1800.2  | 7827.7  | 9199.8  | 8849.7  | 4887.3  |
| 85°   | 787.7   | 771.2   | 1187.5  | 1040.9  | 1215.9  | 1092.9  | 993.5   | 3098.9  | 3803.9  | 3638.3  | 1530.5  |
| 87.5° | 262.6   | 272.0   | 527.5   | 674.2   | 709.7   | 619.8   | 442.4   | 1187.5  | 1435.9  | 1424.1  | 484.9   |
| 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°    | 8452.3  | 8452.3  | 8452.3 | 8452.3 | 8452.3 | 8452.3 | 8452.3 | 8452.3 | 8452.3 | 8452.3 | 8452.3 |
| 2.5°  | 8494.8  | 8419.1  | 8308.0 | 8184.9 | 8088.0 | 7988.6 | 7915.3 | 7877.4 | 7834.8 | 7799.4 | 7841.9 |
| 5°    | 8584.7  | 8442.8  | 8206.2 | 7974.4 | 7804.1 | 7652.7 | 7543.9 | 7487.1 | 7435.1 | 7399.6 | 7404.3 |
| 7.5°  | 8731.4  | 8501.9  | 8104.5 | 7766.2 | 7529.7 | 7366.5 | 7255.3 | 7217.4 | 7184.3 | 7174.8 | 7186.7 |
| 10°   | 8887.5  | 8549.3  | 7969.7 | 7520.2 | 7250.5 | 7115.7 | 7066.0 | 7092.0 | 7115.7 | 7137.0 | 7160.6 |
| 12.5° | 9064.9  | 8591.8  | 7773.3 | 7231.6 | 7002.2 | 6950.1 | 6999.8 | 7113.3 | 7196.1 | 7245.8 | 7276.6 |
| 15°   | 9296.8  | 8629.7  | 7546.2 | 6943.0 | 6789.2 | 6848.4 | 7016.3 | 7212.7 | 7357.0 | 7449.3 | 7463.4 |
| 17.5° | 9509.7  | 8627.3  | 7255.3 | 6652.0 | 6616.6 | 6789.2 | 7042.4 | 7319.1 | 7513.1 | 7643.2 | 7669.3 |
| 20°   | 9729.7  | 8563.4  | 6917.0 | 6368.2 | 6441.5 | 6725.4 | 7054.2 | 7387.7 | 7621.9 | 7773.3 | 7808.8 |
| 22.5° | 9935.5  | 8452.3  | 6545.6 | 6110.3 | 6294.8 | 6640.2 | 7009.3 | 7347.5 | 7581.7 | 7704.7 | 7742.6 |
| 25°   | 10075.1 | 8258.3  | 6169.5 | 5892.7 | 6164.7 | 6536.1 | 6862.6 | 7134.6 | 7309.7 | 7371.2 | 7380.6 |
| 27.5° | 10146.0 | 8005.2  | 5814.6 | 5703.4 | 6029.9 | 6365.8 | 6590.5 | 6725.4 | 6775.1 | 6770.3 | 6760.9 |
| 30°   | 10155.5 | 7671.6  | 5509.5 | 5549.7 | 5873.8 | 6115.1 | 6221.5 | 6195.5 | 6131.6 | 6022.8 | 6032.3 |
| 32.5° | 10124.7 | 7295.5  | 5254.0 | 5403.0 | 5675.1 | 5809.9 | 5814.6 | 5689.2 | 5518.9 | 5346.2 | 5298.9 |
| 35°   | 10134.2 | 6926.5  | 5029.2 | 5237.4 | 5433.8 | 5492.9 | 5438.5 | 5254.0 | 5022.2 | 4799.8 | 4752.5 |
| 37.5° | 10238.3 | 6604.7  | 4835.3 | 5045.8 | 5166.5 | 5180.6 | 5102.6 | 4908.6 | 4738.3 | 4520.6 | 4501.7 |
| 40°   | 10486.7 | 6375.3  | 4650.8 | 4830.5 | 4899.1 | 4906.2 | 4795.1 | 4657.9 | 4672.0 | 4556.1 | 4553.8 |
| 42.5° | 10933.8 | 6275.9  | 4487.5 | 4605.8 | 4648.4 | 4662.6 | 4577.4 | 4489.9 | 4612.9 | 4537.2 | 4511.2 |
| 45°   | 11511.0 | 6299.6  | 4350.3 | 4385.8 | 4463.9 | 4530.1 | 4478.1 | 4371.6 | 4418.9 | 4090.1 | 3981.3 |
| 47.5° | 12178.1 | 6451.0  | 4241.5 | 4196.6 | 4331.4 | 4456.8 | 4376.3 | 4215.5 | 4047.5 | 3721.1 | 3659.6 |
| 50°   | 12958.7 | 6685.2  | 4142.2 | 4009.7 | 4187.1 | 4357.4 | 4277.0 | 4047.5 | 3794.4 | 3635.9 | 3614.6 |
| 52.5° | 13772.5 | 6971.4  | 4042.8 | 3803.9 | 4004.9 | 4281.7 | 4241.5 | 4009.7 | 3697.4 | 3541.3 | 3512.9 |
| 55°   | 14695.1 | 7260.0  | 3917.4 | 3564.9 | 3808.6 | 4246.2 | 4224.9 | 3872.5 | 3624.1 | 3536.6 | 3515.3 |
| 57.5° | 15842.4 | 7588.8  | 3751.8 | 3316.6 | 3624.1 | 4118.5 | 4052.3 | 3789.7 | 3548.4 | 3482.2 | 3475.1 |
| 60°   | 17337.4 | 8073.8  | 3512.9 | 3051.6 | 3399.4 | 3922.2 | 3908.0 | 3669.0 | 3427.7 | 3380.4 | 3371.0 |
| 62.5° | 19580.0 | 8875.7  | 3184.1 | 2786.7 | 3148.6 | 3588.6 | 3718.7 | 3505.8 | 3300.0 | 3297.6 | 3302.4 |
| 65°   | 23057.4 | 10082.2 | 2826.9 | 2554.8 | 2895.5 | 3307.1 | 3498.7 | 3337.9 | 3169.9 | 3217.2 | 3224.3 |
| 67.5° | 27088.4 | 11082.8 | 2476.8 | 2327.7 | 2637.6 | 3039.8 | 3300.0 | 3169.9 | 2997.2 | 3120.2 | 3122.6 |
| 70°   | 28429.7 | 10188.6 | 2169.2 | 2103.0 | 2370.3 | 2781.9 | 3084.7 | 2985.4 | 2810.3 | 2933.3 | 2921.5 |
| 72°   | 26456.8 | 8225.2  | 1970.5 | 1932.7 | 2169.2 | 2569.0 | 2893.1 | 2812.7 | 2640.0 | 2722.8 | 2692.0 |
| 72.5° | 25834.6 | 7841.9  | 1920.9 | 1890.1 | 2114.8 | 2514.6 | 2843.4 | 2770.1 | 2597.4 | 2668.4 | 2640.0 |
| 75°   | 23045.6 | 6810.5  | 1651.2 | 1658.3 | 1845.2 | 2249.7 | 2564.3 | 2540.6 | 2363.2 | 2370.3 | 2360.9 |
| 77.5° | 16715.3 | 4993.8  | 1391.0 | 1438.3 | 1570.8 | 1977.6 | 2282.8 | 2268.6 | 2074.6 | 2039.1 | 2032.0 |
| 80°   | 7756.8  | 2547.7  | 1133.1 | 1154.4 | 1291.6 | 1653.5 | 1946.9 | 1928.0 | 1771.8 | 1726.9 | 1700.9 |
| 82.5° | 2656.6  | 1211.2  | 851.6  | 865.8  | 1000.6 | 1331.8 | 1689.0 | 1677.2 | 1547.1 | 1459.6 | 1405.2 |
| 85°   | 948.6   | 603.2   | 596.1  | 581.9  | 714.4  | 1048.0 | 1471.4 | 1407.5 | 1215.9 | 1036.1 | 1031.4 |
| 87.5° | 307.5   | 257.8   | 307.5  | 305.2  | 416.3  | 709.7  | 1069.2 | 910.8  | 882.4  | 733.3  | 719.1  |
| 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)