

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: P533023

Luminaire Tested: **GLAN-SA8B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-830-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21539 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

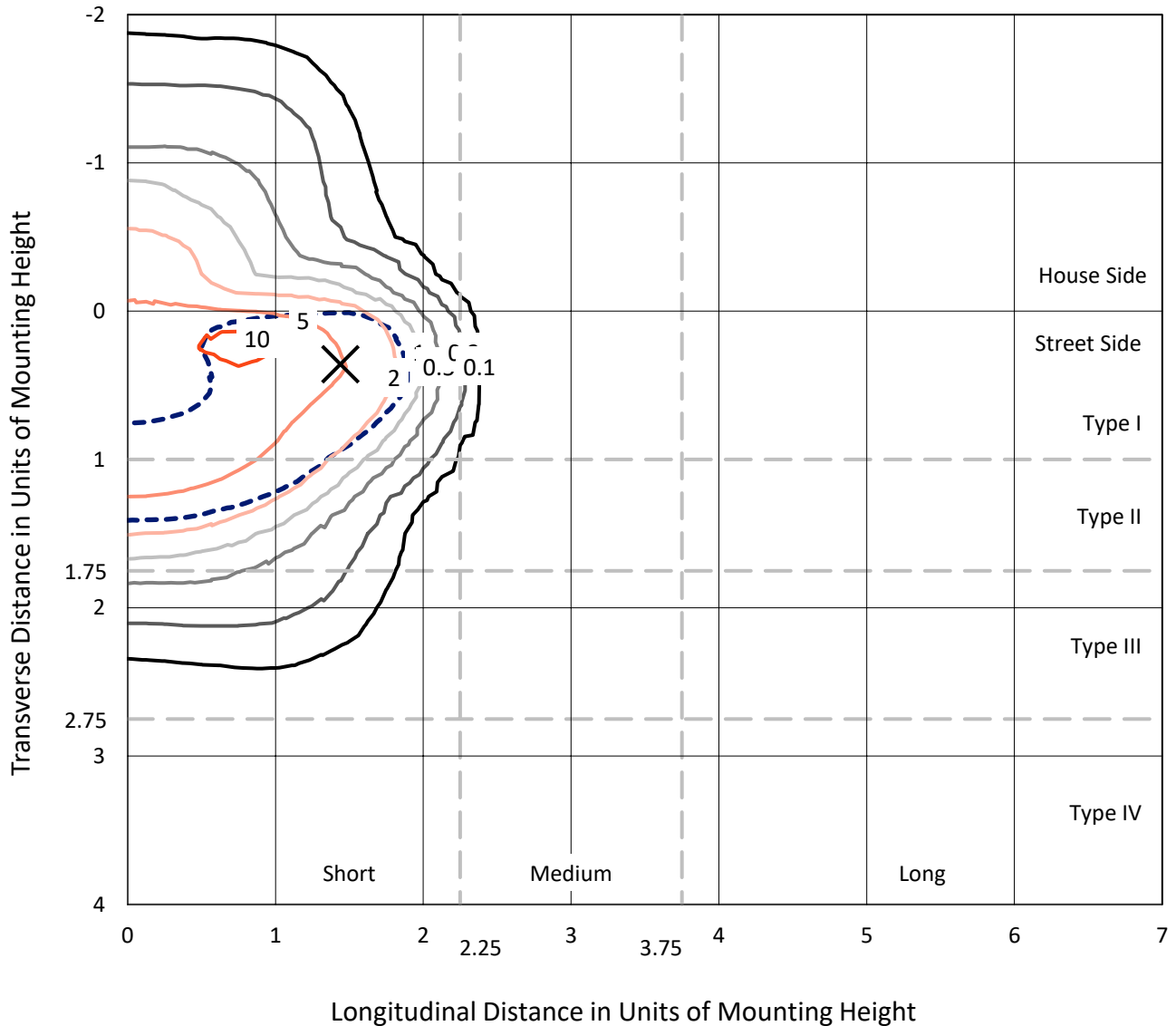
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

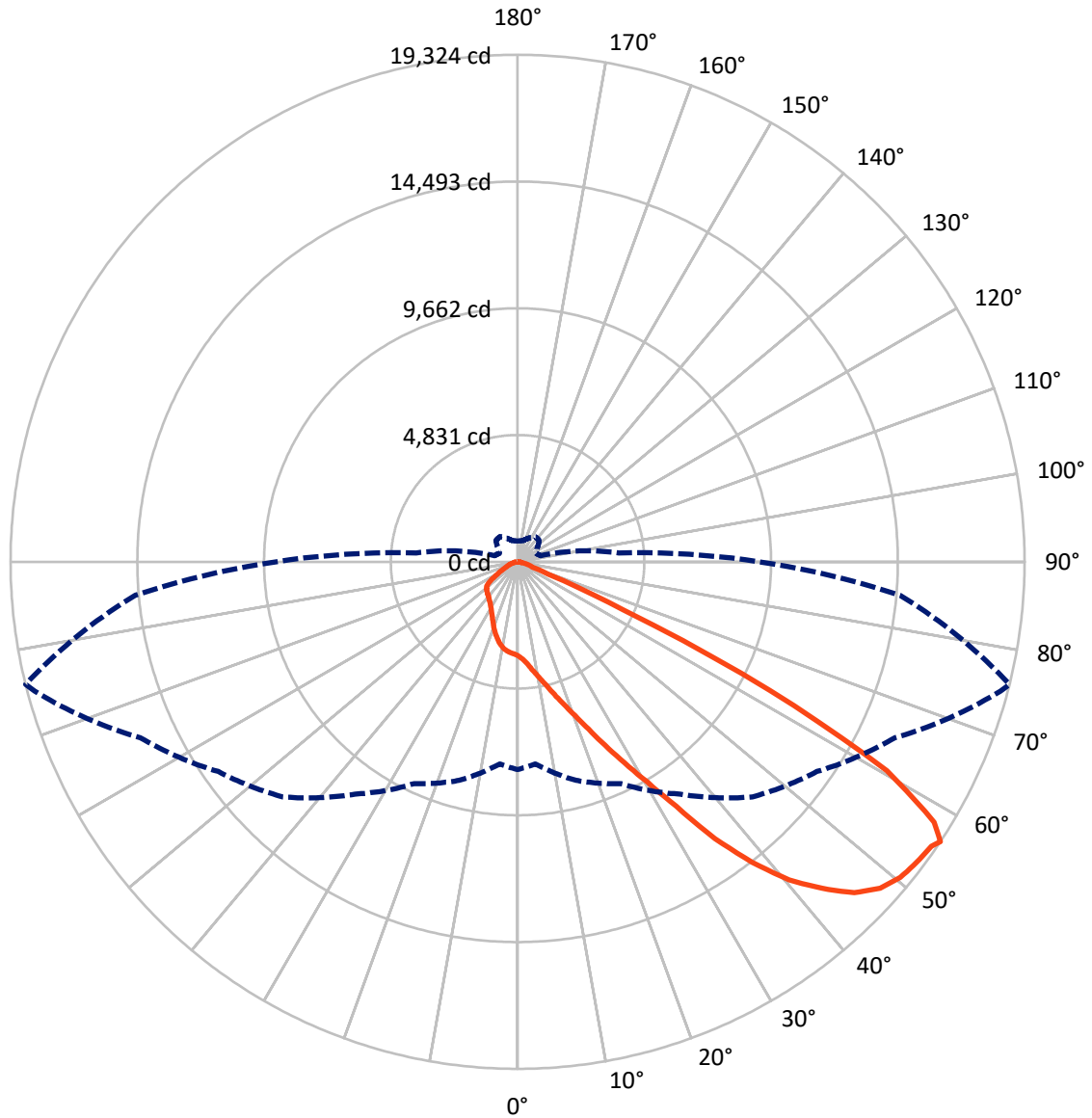
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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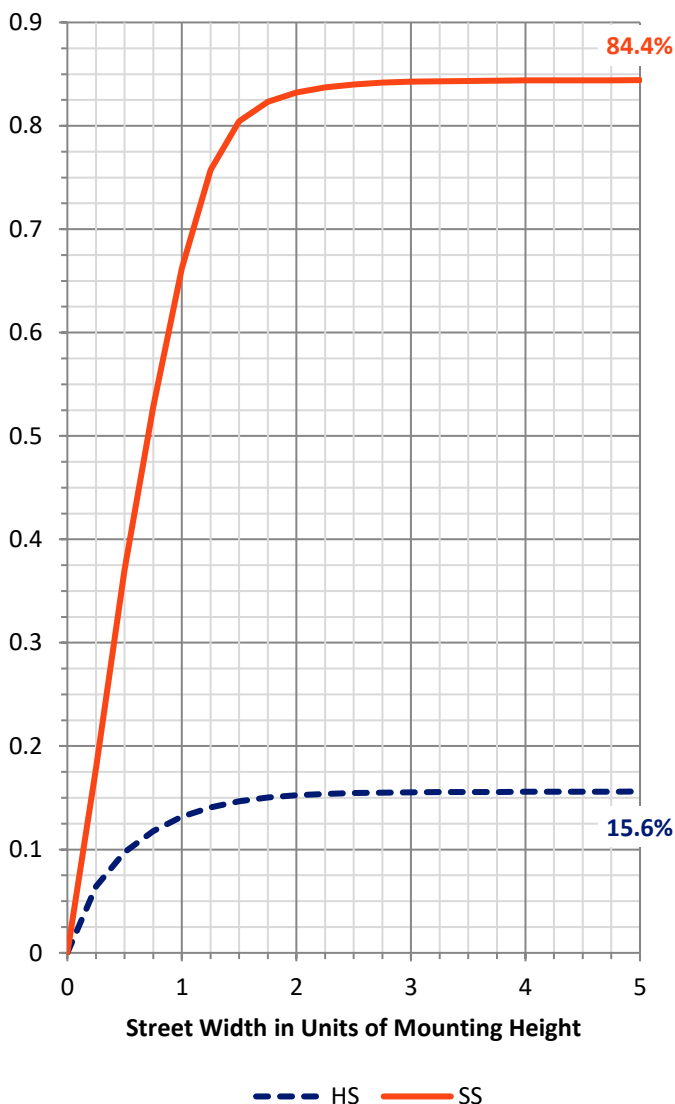
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3383.7   | 0.0    | 3383.7  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 18155.3  | 0.0    | 18155.3 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 21539.0  | 0.0    | 21539.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.2   | 1.7       |
| 10°-20°   | 1160.3  | 5.4       |
| 20°-30°   | 2103.9  | 9.8       |
| 30°-40°   | 3628.2  | 16.8      |
| 40°-50°   | 5894.2  | 27.4      |
| 50°-60°   | 6212.7  | 28.8      |
| 60°-70°   | 1898.2  | 8.8       |
| 70°-80°   | 243.3   | 1.1       |
| 80°-90°   | 37.0    | 0.2       |
| 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°    | 21539.0 | 100.0     |
| 0°-180°   | 21539.0 | 100.0     |

**Coefficient of Utilization**

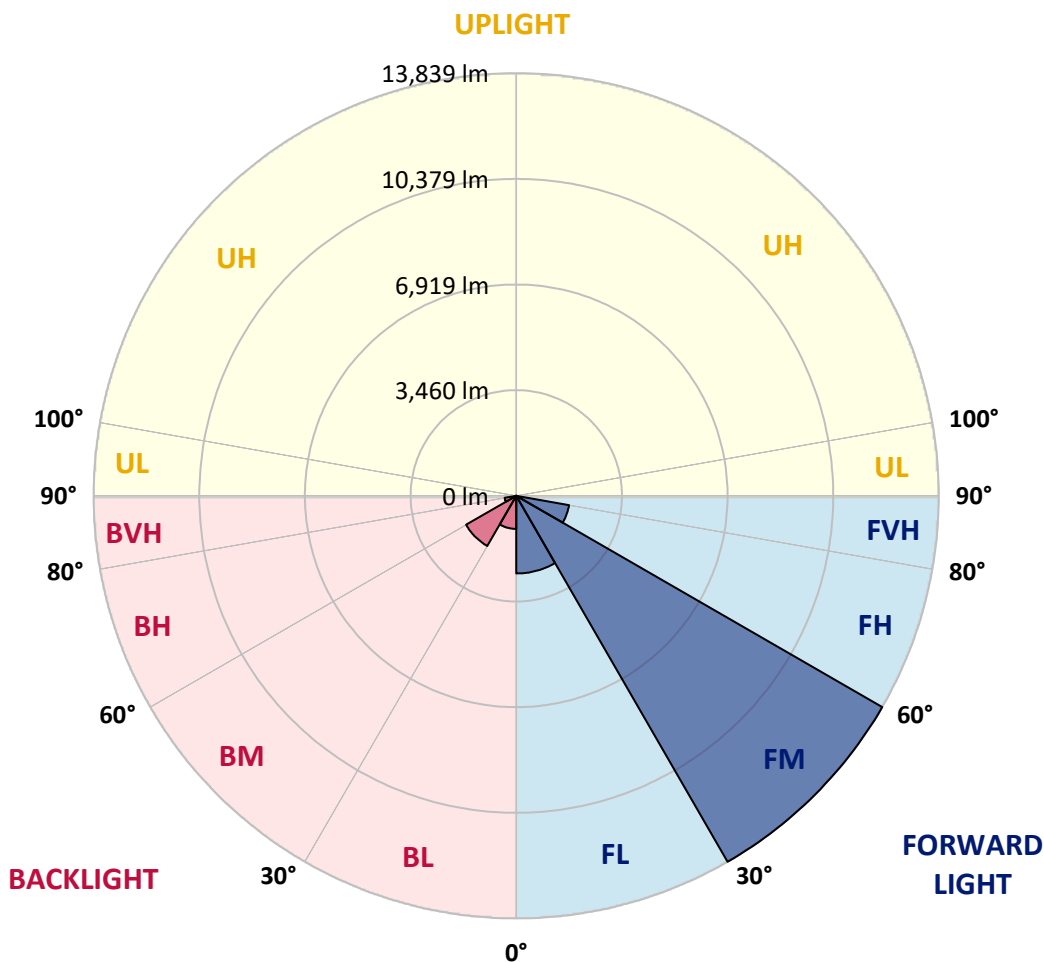


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2542.9  | 11.8      |                         |      |         |
| FM (30°-60°)   | 13838.8 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1755.6  | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.1    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1082.4  | 5.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1896.3  | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 386.0   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 18.9    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  | 3585.2  |
| 2.5°  | 4129.1  | 4033.8  | 4037.8  | 4029.9  | 4018.0  | 3974.3  | 3843.3  | 3823.4  | 3736.1  | 3712.2  | 3632.8  |
| 5°    | 4625.4  | 4542.0  | 4589.7  | 4518.2  | 4450.7  | 4411.0  | 4196.6  | 4097.4  | 3958.4  | 3906.8  | 3795.6  |
| 7.5°  | 4935.1  | 4895.4  | 4879.5  | 4883.5  | 4820.0  | 4720.7  | 4625.4  | 4407.1  | 4220.5  | 4180.7  | 3946.5  |
| 10°   | 5086.0  | 5062.2  | 5086.0  | 5074.1  | 5101.9  | 5113.8  | 4947.0  | 4816.0  | 4542.0  | 4474.6  | 4109.3  |
| 12.5° | 5121.7  | 5169.4  | 5189.2  | 5240.8  | 5308.3  | 5423.5  | 5411.5  | 5232.9  | 4867.6  | 4823.9  | 4359.4  |
| 15°   | 5209.1  | 5248.8  | 5228.9  | 5312.3  | 5439.3  | 5633.9  | 5737.1  | 5709.3  | 5316.3  | 5236.9  | 4649.2  |
| 17.5° | 5288.5  | 5217.0  | 5284.5  | 5451.2  | 5578.3  | 5876.1  | 6126.2  | 6241.3  | 5804.6  | 5713.3  | 4915.3  |
| 20°   | 5395.7  | 5375.8  | 5363.9  | 5447.3  | 5673.6  | 6070.6  | 6566.9  | 6777.3  | 6352.5  | 6257.2  | 5296.4  |
| 22.5° | 5721.2  | 5725.2  | 5717.3  | 5594.2  | 5757.0  | 6205.6  | 6952.0  | 7472.1  | 7007.6  | 6928.2  | 5729.2  |
| 25°   | 6150.0  | 6098.4  | 6058.7  | 5959.5  | 5939.6  | 6328.7  | 7341.1  | 8321.8  | 7793.7  | 7738.2  | 6197.7  |
| 27.5° | 6602.6  | 6602.6  | 6483.5  | 6392.2  | 6265.2  | 6634.4  | 7698.5  | 9147.6  | 8742.6  | 8667.2  | 6606.6  |
| 30°   | 7095.0  | 7122.8  | 7106.9  | 6912.3  | 6832.9  | 6967.9  | 8063.7  | 10203.7 | 9830.5  | 9735.2  | 7281.6  |
| 32.5° | 7821.5  | 7762.0  | 7829.5  | 7666.7  | 7432.4  | 7551.5  | 8639.4  | 11148.7 | 11243.9 | 11109.0 | 8166.9  |
| 35°   | 8782.3  | 8746.6  | 8702.9  | 8436.9  | 8159.0  | 8254.3  | 9453.3  | 12312.0 | 13018.7 | 12951.2 | 9060.3  |
| 37.5° | 9643.9  | 9624.1  | 9588.3  | 9405.7  | 9084.1  | 9199.2  | 10378.4 | 13522.9 | 14749.7 | 14527.4 | 10322.8 |
| 40°   | 10549.1 | 10656.3 | 10541.2 | 10378.4 | 10084.6 | 10338.7 | 11466.3 | 14241.5 | 16206.8 | 15936.9 | 11287.6 |
| 42.5° | 11776.0 | 11692.6 | 11744.2 | 11446.4 | 11287.6 | 11565.5 | 12558.1 | 14960.2 | 17338.4 | 17016.8 | 12312.0 |
| 45°   | 13082.2 | 13086.2 | 12947.2 | 12851.9 | 12439.0 | 12740.8 | 13229.1 | 15357.2 | 18239.6 | 17989.5 | 13086.2 |
| 47.5° | 13919.9 | 13916.0 | 14066.8 | 14217.7 | 13792.9 | 13495.1 | 13685.7 | 15734.4 | 18704.2 | 18589.0 | 13368.1 |
| 50°   | 13788.9 | 13828.6 | 14023.2 | 14587.0 | 14809.3 | 14408.3 | 14114.5 | 15623.2 | 18914.6 | 18902.7 | 13610.3 |
| 52.5° | 11994.3 | 12125.4 | 12450.9 | 13264.8 | 14384.5 | 14880.8 | 14563.1 | 15829.7 | 19017.8 | 19037.7 | 13971.6 |
| 55°   | 9131.7  | 9203.2  | 9822.6  | 10811.2 | 12049.9 | 13749.2 | 14384.5 | 15992.4 | 19097.2 | 19133.0 | 14408.3 |
| 56°   | 7920.8  | 7730.2  | 8623.5  | 9326.3  | 10807.2 | 12665.3 | 13931.9 | 15865.4 | 19049.6 | 19323.5 | 14626.7 |
| 57.5° | 5979.3  | 5852.3  | 6574.8  | 7452.3  | 8877.6  | 10839.0 | 12526.4 | 15265.9 | 18728.0 | 18724.0 | 14313.0 |
| 60°   | 3636.8  | 3509.8  | 4065.6  | 4581.7  | 5379.8  | 6674.1  | 8464.7  | 12157.1 | 15833.6 | 16167.1 | 11589.4 |
| 62.5° | 2163.8  | 2243.2  | 2791.1  | 3104.8  | 3362.9  | 3497.9  | 4379.3  | 7226.0  | 10565.0 | 10803.2 | 7190.2  |
| 65°   | 1441.2  | 1469.0  | 1881.9  | 2398.1  | 2513.2  | 2001.0  | 1782.7  | 2926.1  | 4581.7  | 4434.8  | 2965.8  |
| 67.5° | 889.4   | 952.9   | 1262.6  | 1802.5  | 1997.1  | 1461.1  | 845.7   | 1091.8  | 1262.6  | 1262.6  | 857.6   |
| 70°   | 540.0   | 571.7   | 841.7   | 1226.8  | 1369.8  | 941.0   | 615.4   | 615.4   | 607.5   | 595.5   | 512.2   |
| 72.5° | 258.1   | 277.9   | 428.8   | 631.3   | 643.2   | 496.3   | 476.4   | 520.1   | 508.2   | 504.2   | 424.8   |
| 75°   | 111.2   | 119.1   | 150.9   | 198.5   | 226.3   | 210.4   | 289.8   | 373.2   | 385.1   | 373.2   | 305.7   |
| 77.5° | 35.7    | 39.7    | 55.6    | 71.5    | 75.4    | 91.3    | 123.1   | 154.8   | 178.7   | 166.8   | 150.9   |
| 80°   | 4.0     | 7.9     | 15.9    | 35.7    | 55.6    | 71.5    | 91.3    | 103.2   | 115.1   | 115.1   | 107.2   |
| 82.5° | 4.0     | 4.0     | 15.9    | 31.8    | 51.6    | 67.5    | 87.3    | 99.3    | 115.1   | 119.1   | 111.2   |
| 85°   | 0.0     | 4.0     | 11.9    | 27.8    | 43.7    | 43.7    | 39.7    | 39.7    | 27.8    | 27.8    | 27.8    |
| 87.5° | 0.0     | 0.0     | 4.0     | 4.0     | 4.0     | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     |
| 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°    | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 | 3585.2 |
| 2.5°  | 3617.0 | 3609.0 | 3501.8 | 3434.3 | 3398.6 | 3327.1 | 3283.5 | 3251.7 | 3227.9 | 3200.1 | 3204.0 |
| 5°    | 3664.6 | 3636.8 | 3458.1 | 3335.1 | 3188.2 | 3108.8 | 3041.3 | 2985.7 | 2949.9 | 2942.0 | 2926.1 |
| 7.5°  | 3799.6 | 3652.7 | 3382.7 | 3160.4 | 2973.8 | 2894.4 | 2834.8 | 2799.1 | 2815.0 | 2779.2 | 2807.0 |
| 10°   | 3902.8 | 3684.5 | 3291.4 | 2969.8 | 2783.2 | 2723.6 | 2691.9 | 2719.7 | 2759.4 | 2743.5 | 2723.6 |
| 12.5° | 4029.9 | 3716.2 | 3144.5 | 2787.2 | 2612.5 | 2568.8 | 2624.4 | 2676.0 | 2755.4 | 2787.2 | 2747.5 |
| 15°   | 4172.8 | 3752.0 | 2957.9 | 2576.7 | 2465.6 | 2501.3 | 2596.6 | 2687.9 | 2767.3 | 2807.0 | 2830.8 |
| 17.5° | 4347.5 | 3740.0 | 2775.3 | 2410.0 | 2326.6 | 2429.8 | 2545.0 | 2628.4 | 2747.5 | 2807.0 | 2791.1 |
| 20°   | 4510.3 | 3700.3 | 2572.8 | 2243.2 | 2247.2 | 2342.5 | 2437.8 | 2572.8 | 2636.3 | 2715.7 | 2687.9 |
| 22.5° | 4665.1 | 3628.9 | 2362.3 | 2128.1 | 2128.1 | 2275.0 | 2322.6 | 2410.0 | 2465.6 | 2505.3 | 2501.3 |
| 25°   | 4883.5 | 3493.9 | 2187.6 | 2016.9 | 2064.6 | 2159.9 | 2199.6 | 2227.3 | 2203.5 | 2235.3 | 2239.3 |
| 27.5° | 5038.3 | 3354.9 | 2044.7 | 1917.7 | 2005.0 | 2076.5 | 2064.6 | 2048.7 | 1993.1 | 1949.4 | 1977.2 |
| 30°   | 5205.1 | 3192.1 | 1921.6 | 1850.2 | 1897.8 | 1961.3 | 1913.7 | 1866.1 | 1778.7 | 1707.2 | 1711.2 |
| 32.5° | 5443.3 | 3116.7 | 1814.4 | 1770.8 | 1834.3 | 1842.2 | 1790.6 | 1719.1 | 1631.8 | 1564.3 | 1560.3 |
| 35°   | 5888.0 | 3069.1 | 1723.1 | 1719.1 | 1731.1 | 1735.0 | 1683.4 | 1596.1 | 1560.3 | 1504.8 | 1524.6 |
| 37.5° | 6332.7 | 3045.2 | 1659.6 | 1643.7 | 1639.7 | 1643.7 | 1584.2 | 1500.8 | 1568.3 | 1564.3 | 1572.2 |
| 40°   | 6900.4 | 3152.4 | 1568.3 | 1548.4 | 1552.4 | 1552.4 | 1477.0 | 1453.1 | 1572.2 | 1584.2 | 1588.1 |
| 42.5° | 7476.1 | 3287.4 | 1508.7 | 1445.2 | 1461.1 | 1461.1 | 1421.4 | 1393.6 | 1477.0 | 1397.6 | 1385.6 |
| 45°   | 7976.4 | 3485.9 | 1445.2 | 1342.0 | 1381.7 | 1401.5 | 1389.6 | 1342.0 | 1290.4 | 1155.4 | 1155.4 |
| 47.5° | 8139.2 | 3660.6 | 1369.8 | 1242.7 | 1274.5 | 1361.8 | 1326.1 | 1226.8 | 1135.5 | 1024.3 | 1016.4 |
| 50°   | 8425.0 | 3851.2 | 1310.2 | 1127.6 | 1195.1 | 1302.3 | 1266.5 | 1167.3 | 1064.0 | 984.6  | 988.6  |
| 52.5° | 8718.8 | 4069.6 | 1199.0 | 992.6  | 1076.0 | 1254.6 | 1254.6 | 1143.5 | 984.6  | 929.1  | 921.1  |
| 55°   | 9159.5 | 4061.6 | 1000.5 | 813.9  | 960.8  | 1183.2 | 1203.0 | 1024.3 | 881.4  | 837.7  | 837.7  |
| 56°   | 9223.1 | 3879.0 | 901.3  | 762.3  | 909.2  | 1163.3 | 1167.3 | 992.6  | 841.7  | 794.1  | 794.1  |
| 57.5° | 8746.6 | 3501.8 | 790.1  | 698.8  | 845.7  | 1127.6 | 1131.5 | 964.8  | 809.9  | 742.4  | 734.5  |
| 60°   | 6729.7 | 2370.3 | 659.1  | 623.3  | 766.3  | 1016.4 | 1036.3 | 877.4  | 710.7  | 659.1  | 655.1  |
| 62.5° | 3799.6 | 1314.2 | 579.7  | 563.8  | 659.1  | 865.5  | 925.1  | 766.3  | 603.5  | 575.7  | 583.6  |
| 65°   | 1735.0 | 722.6  | 488.3  | 456.6  | 532.0  | 667.0  | 746.4  | 631.3  | 496.3  | 464.5  | 464.5  |
| 67.5° | 635.3  | 492.3  | 416.9  | 361.3  | 373.2  | 432.8  | 484.4  | 408.9  | 329.5  | 281.9  | 293.8  |
| 70°   | 452.6  | 412.9  | 365.3  | 313.7  | 289.8  | 281.9  | 277.9  | 230.3  | 162.8  | 127.1  | 135.0  |
| 72.5° | 365.3  | 341.4  | 305.7  | 266.0  | 226.3  | 190.6  | 162.8  | 119.1  | 75.4   | 51.6   | 47.6   |
| 75°   | 262.0  | 250.1  | 222.3  | 190.6  | 158.8  | 135.0  | 111.2  | 75.4   | 39.7   | 19.9   | 19.9   |
| 77.5° | 135.0  | 135.0  | 131.0  | 119.1  | 99.3   | 79.4   | 63.5   | 43.7   | 23.8   | 7.9    | 7.9    |
| 80°   | 103.2  | 111.2  | 115.1  | 103.2  | 91.3   | 71.5   | 51.6   | 31.8   | 15.9   | 4.0    | 4.0    |
| 82.5° | 99.3   | 115.1  | 123.1  | 107.2  | 91.3   | 67.5   | 51.6   | 31.8   | 15.9   | 4.0    | 4.0    |
| 85°   | 23.8   | 23.8   | 35.7   | 39.7   | 51.6   | 55.6   | 43.7   | 27.8   | 11.9   | 4.0    | 4.0    |
| 87.5° | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 4.0    | 4.0    | 4.0    | 4.0    | 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)