

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: P530528

Luminaire Tested: **GLAN-SA5D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29594 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 309  
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

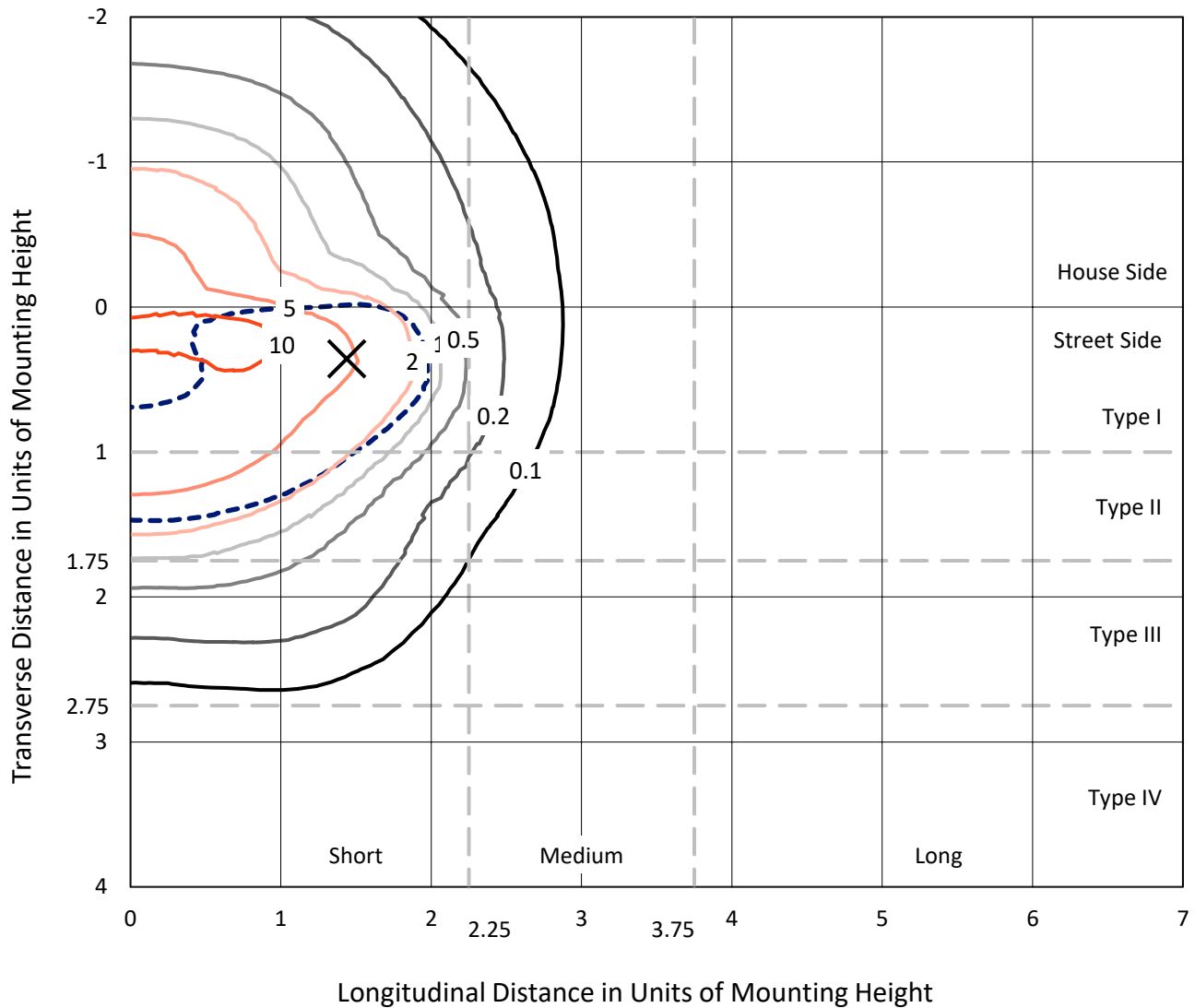


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

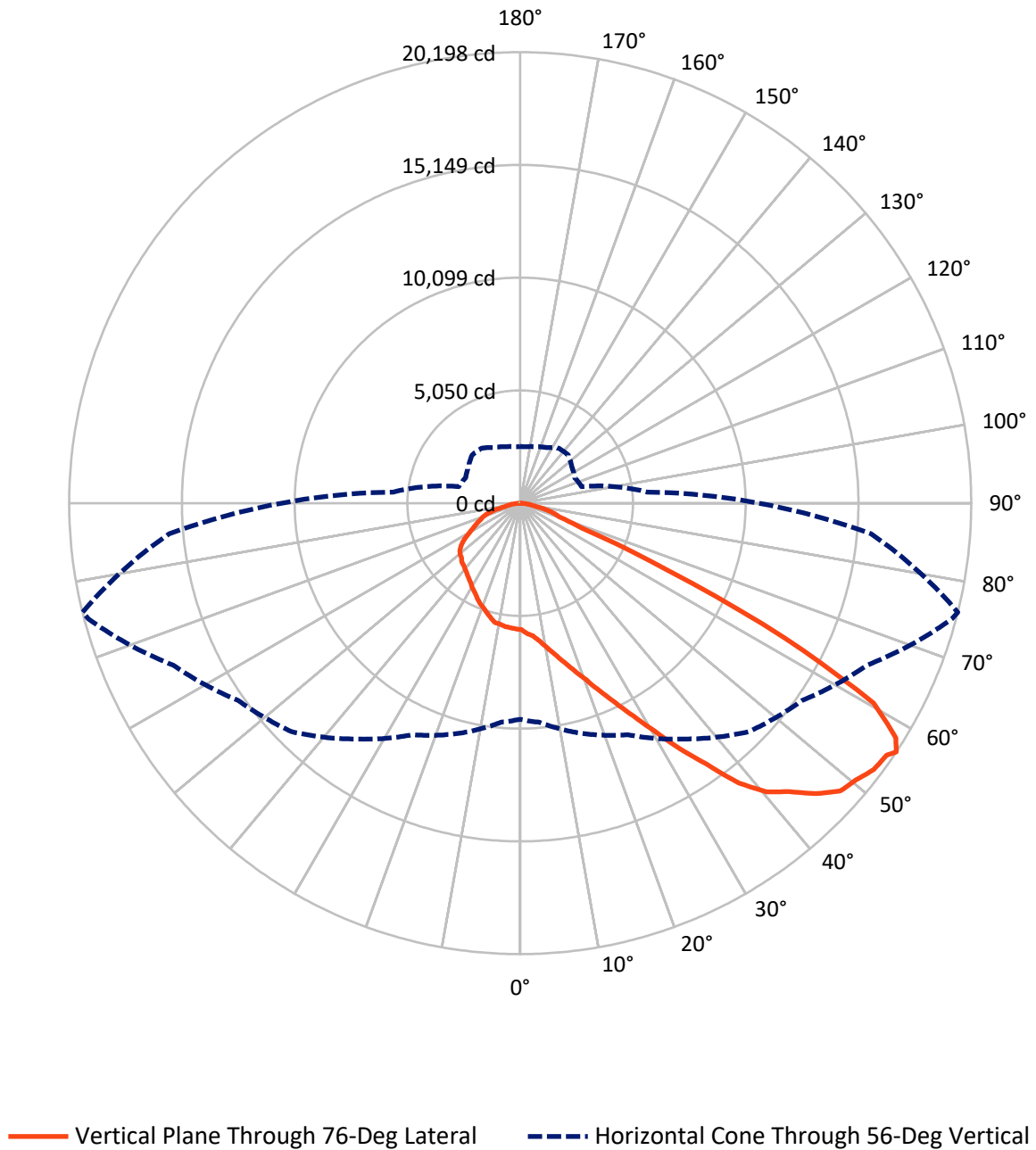


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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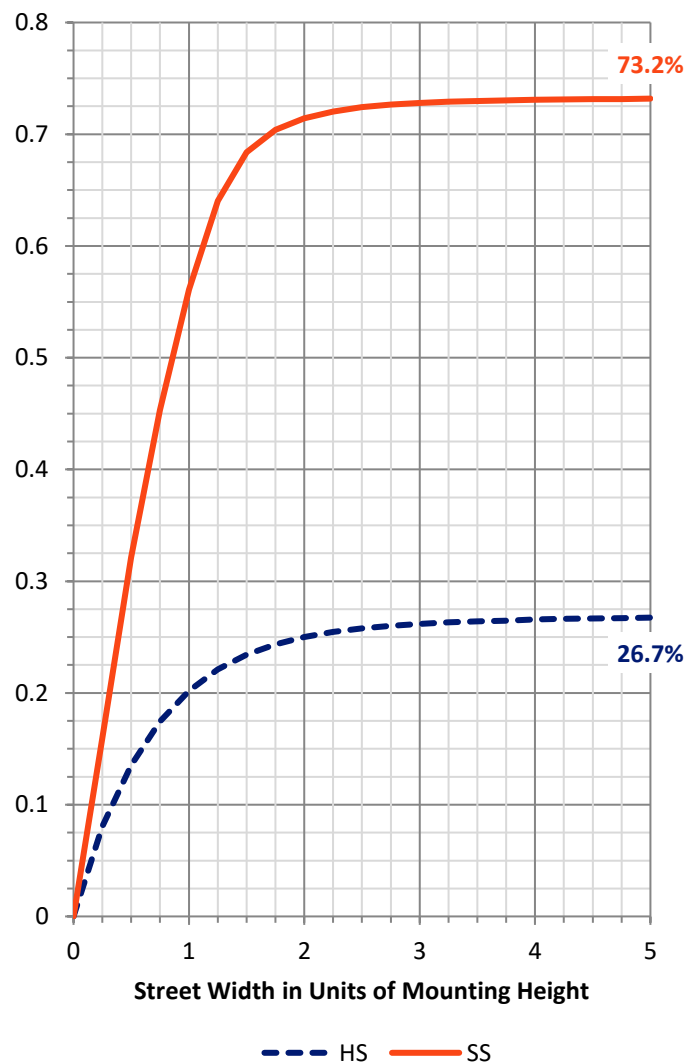
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7956.9   | 0.0    | 7956.9  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 21637.1  | 0.0    | 21637.1 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 29594.0  | 0.0    | 29594.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 561.5   | 1.9       |
| 10°-20°   | 1764.0  | 6.0       |
| 20°-30°   | 3085.0  | 10.4      |
| 30°-40°   | 4830.2  | 16.3      |
| 40°-50°   | 7026.5  | 23.7      |
| 50°-60°   | 7722.6  | 26.1      |
| 60°-70°   | 3447.0  | 11.6      |
| 70°-80°   | 995.6   | 3.4       |
| 80°-90°   | 161.5   | 0.5       |
| 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°    | 29594.0 | 100.0     |
| 0°-180°   | 29594.0 | 100.0     |

**Coefficient of Utilization**



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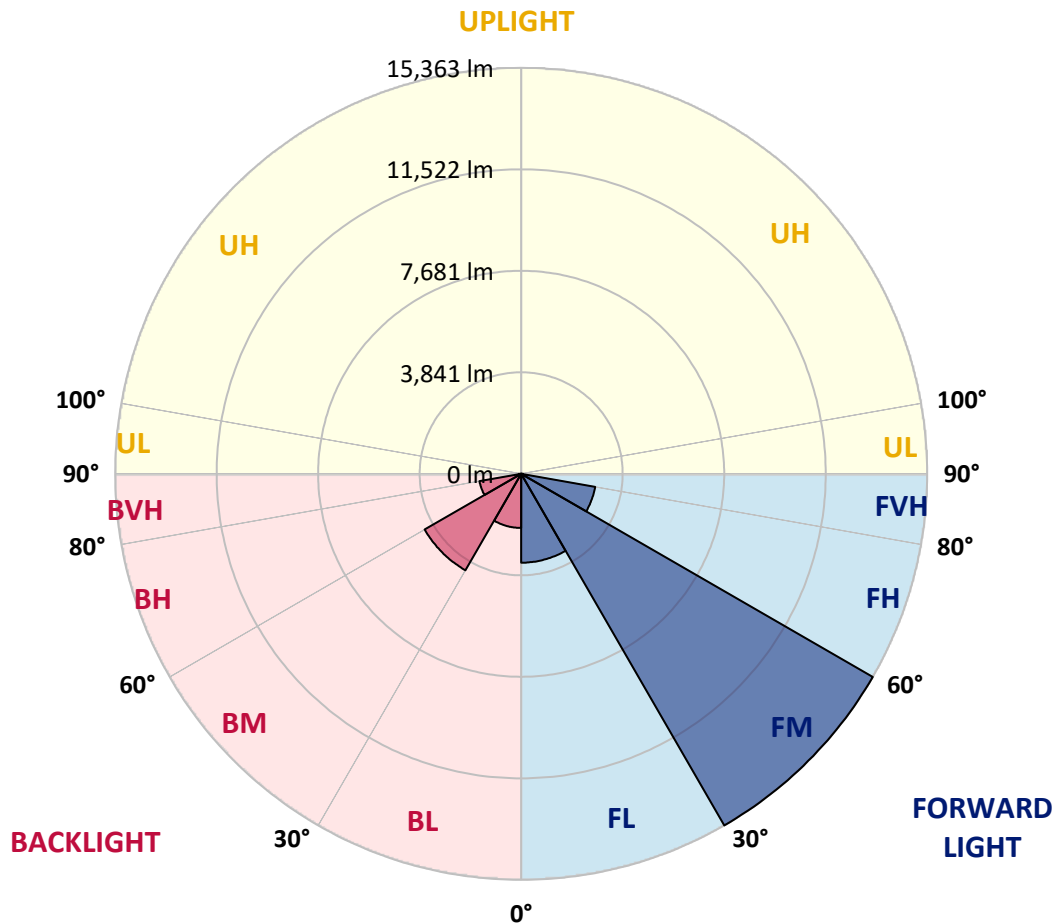
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3363.0  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 15362.8 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2841.7  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 69.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2047.5  | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4216.5  | 14.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1601.0  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 92.0    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  | 5662.4  |
| 2.5°  | 6237.9  | 6138.1  | 6130.5  | 6103.6  | 6119.0  | 6049.9  | 5977.0  | 5881.1  | 5781.4  | 5842.7  | 5697.0  |
| 5°    | 6675.2  | 6541.0  | 6594.7  | 6502.6  | 6514.1  | 6422.0  | 6272.4  | 6161.2  | 6038.4  | 5965.5  | 5861.9  |
| 7.5°  | 6828.7  | 6840.2  | 6878.6  | 6863.2  | 6786.5  | 6786.5  | 6686.7  | 6491.1  | 6276.2  | 6234.0  | 6061.4  |
| 10°   | 7035.8  | 7039.7  | 6997.5  | 7009.0  | 7116.4  | 7066.5  | 6978.3  | 6893.9  | 6617.7  | 6567.8  | 6260.9  |
| 12.5° | 7108.7  | 7039.7  | 7108.7  | 7170.1  | 7296.7  | 7365.8  | 7346.6  | 7285.2  | 6989.8  | 6955.3  | 6506.4  |
| 15°   | 7120.2  | 7078.0  | 7135.6  | 7273.7  | 7384.9  | 7676.5  | 7822.3  | 7780.1  | 7388.8  | 7392.6  | 6782.6  |
| 17.5° | 7066.5  | 7124.1  | 7147.1  | 7266.0  | 7523.1  | 7795.4  | 8217.4  | 8275.0  | 7952.7  | 7902.9  | 7131.7  |
| 20°   | 7139.4  | 7097.2  | 7127.9  | 7235.3  | 7576.8  | 8002.6  | 8555.0  | 8934.8  | 8482.1  | 8447.6  | 7492.4  |
| 22.5° | 7419.5  | 7361.9  | 7354.3  | 7423.3  | 7668.8  | 8110.0  | 8911.8  | 9594.7  | 9126.6  | 9145.8  | 7941.2  |
| 25°   | 7638.1  | 7668.8  | 7642.0  | 7638.1  | 7791.6  | 8271.1  | 9383.7  | 10381.1 | 10001.3 | 9890.1  | 8470.6  |
| 27.5° | 8014.1  | 8087.0  | 8033.3  | 8106.2  | 8071.7  | 8512.8  | 9721.3  | 11252.0 | 10945.1 | 10795.4 | 8950.2  |
| 30°   | 8535.8  | 8574.2  | 8524.3  | 8524.3  | 8420.8  | 8850.4  | 10028.2 | 12161.2 | 12034.6 | 11831.3 | 9514.1  |
| 32.5° | 9222.6  | 9280.1  | 9180.4  | 9122.8  | 9107.5  | 9353.0  | 10580.6 | 13058.9 | 13273.7 | 13101.1 | 10262.2 |
| 35°   | 10131.8 | 10097.2 | 9978.3  | 9924.6  | 9717.4  | 10124.1 | 11401.6 | 14090.9 | 14654.8 | 14347.9 | 11167.6 |
| 37.5° | 10933.6 | 10879.8 | 10872.2 | 10572.9 | 10622.8 | 10956.6 | 12099.8 | 14873.5 | 15993.7 | 15905.4 | 12122.8 |
| 40°   | 11681.6 | 11731.5 | 11812.1 | 11643.3 | 11566.6 | 11934.8 | 12913.1 | 15471.9 | 17033.3 | 16998.8 | 12859.4 |
| 42.5° | 12483.4 | 12437.4 | 12579.3 | 12437.4 | 12322.3 | 12844.1 | 13795.5 | 15886.3 | 17946.4 | 17662.5 | 13630.5 |
| 45°   | 13645.8 | 13500.1 | 13549.9 | 13561.4 | 13477.0 | 13668.9 | 14159.9 | 16185.5 | 18587.0 | 18556.4 | 14194.4 |
| 47.5° | 14616.4 | 14620.3 | 14535.9 | 14470.7 | 14213.6 | 14405.4 | 14566.6 | 16373.5 | 19323.6 | 19273.8 | 14413.1 |
| 50°   | 14977.1 | 14927.2 | 15172.7 | 15314.7 | 15330.0 | 14938.7 | 14885.0 | 16477.1 | 19711.1 | 19492.4 | 14631.8 |
| 52.5° | 13680.4 | 13726.4 | 14113.9 | 14957.9 | 15445.1 | 15487.3 | 15257.1 | 16691.9 | 19868.4 | 19822.3 | 14808.3 |
| 55°   | 11010.3 | 11232.8 | 11869.6 | 12844.1 | 13998.8 | 15268.6 | 15659.9 | 16914.4 | 19952.8 | 19914.4 | 15590.9 |
| 56°   | 9679.1  | 9851.7  | 10680.4 | 11443.8 | 12893.9 | 14474.5 | 15406.7 | 17152.3 | 20018.0 | 20198.3 | 15775.0 |
| 57.5° | 7791.6  | 7991.1  | 8585.7  | 9452.7  | 11163.7 | 12963.0 | 14708.5 | 16860.7 | 19764.8 | 19833.9 | 15909.3 |
| 60°   | 4872.1  | 4891.3  | 5604.9  | 6176.5  | 7381.1  | 9138.2  | 11225.1 | 14670.1 | 18291.6 | 18191.9 | 14290.4 |
| 62.5° | 3195.7  | 3199.5  | 3847.8  | 4315.9  | 4864.5  | 5267.3  | 6606.2  | 9728.9  | 13496.2 | 13319.8 | 10174.0 |
| 65°   | 2244.3  | 2294.1  | 2796.7  | 3422.0  | 3644.5  | 3433.5  | 3391.3  | 5129.2  | 7538.4  | 7285.2  | 5466.8  |
| 67.5° | 1642.0  | 1645.8  | 2090.8  | 2762.2  | 3084.4  | 2612.5  | 2121.5  | 2505.1  | 2984.7  | 2977.0  | 2532.0  |
| 70°   | 1085.7  | 1131.7  | 1473.2  | 2063.9  | 2432.2  | 2098.5  | 1734.0  | 1791.6  | 1899.0  | 1899.0  | 1883.6  |
| 72.5° | 633.0   | 675.2   | 901.5   | 1308.2  | 1365.7  | 1312.0  | 1373.4  | 1534.5  | 1603.6  | 1599.8  | 1580.6  |
| 75°   | 360.6   | 379.8   | 429.7   | 544.8   | 679.0   | 801.8   | 1009.0  | 1162.4  | 1231.5  | 1273.7  | 1223.8  |
| 77.5° | 211.0   | 222.5   | 253.2   | 310.7   | 352.9   | 433.5   | 548.6   | 656.0   | 748.1   | 736.6   | 744.2   |
| 80°   | 111.3   | 111.3   | 141.9   | 184.1   | 245.5   | 306.9   | 364.5   | 425.8   | 475.7   | 487.2   | 498.7   |
| 82.5° | 65.2    | 69.1    | 92.1    | 134.3   | 176.5   | 218.7   | 280.1   | 322.3   | 368.3   | 372.1   | 379.8   |
| 85°   | 34.5    | 38.4    | 57.5    | 88.2    | 118.9   | 134.3   | 138.1   | 130.4   | 141.9   | 134.3   | 153.5   |
| 87.5° | 11.5    | 11.5    | 19.2    | 15.3    | 15.3    | 19.2    | 23.0    | 23.0    | 30.7    | 30.7    | 30.7    |
| 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°    | 5662.4  | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 | 5662.4 |
| 2.5°  | 5693.1  | 5693.1 | 5627.9 | 5505.1 | 5486.0 | 5436.1 | 5390.1 | 5386.2 | 5351.7 | 5321.0 | 5305.7 |
| 5°    | 5800.5  | 5681.6 | 5585.7 | 5474.5 | 5344.0 | 5282.6 | 5213.6 | 5136.9 | 5106.2 | 5136.9 | 5133.0 |
| 7.5°  | 5923.3  | 5823.6 | 5535.8 | 5328.7 | 5179.1 | 5117.7 | 5040.9 | 4960.4 | 4968.1 | 4968.1 | 4914.3 |
| 10°   | 6042.2  | 5908.0 | 5447.6 | 5182.9 | 4964.2 | 4918.2 | 4876.0 | 4906.7 | 4945.0 | 4952.7 | 4918.2 |
| 12.5° | 6241.7  | 5938.6 | 5405.4 | 5037.1 | 4899.0 | 4799.3 | 4826.1 | 4910.5 | 4991.1 | 4968.1 | 4994.9 |
| 15°   | 6391.3  | 5965.5 | 5213.6 | 4887.5 | 4714.9 | 4760.9 | 4856.8 | 4914.3 | 5048.6 | 5033.3 | 5060.1 |
| 17.5° | 6537.1  | 5980.8 | 5025.6 | 4688.0 | 4615.1 | 4741.7 | 4814.6 | 4979.6 | 5021.8 | 5113.8 | 5148.4 |
| 20°   | 6836.4  | 6011.5 | 4833.8 | 4565.2 | 4542.2 | 4688.0 | 4814.6 | 4891.3 | 4983.4 | 5064.0 | 5064.0 |
| 22.5° | 6989.8  | 5996.2 | 4707.2 | 4404.1 | 4477.0 | 4569.1 | 4684.2 | 4814.6 | 4814.6 | 4891.3 | 4895.2 |
| 25°   | 7181.6  | 5934.8 | 4507.7 | 4327.4 | 4381.1 | 4469.3 | 4599.8 | 4553.7 | 4603.6 | 4603.6 | 4665.0 |
| 27.5° | 7400.3  | 5804.4 | 4335.1 | 4189.3 | 4296.7 | 4392.6 | 4411.8 | 4381.1 | 4323.6 | 4315.9 | 4292.9 |
| 30°   | 7576.8  | 5643.3 | 4208.5 | 4143.2 | 4231.5 | 4285.2 | 4223.8 | 4158.6 | 4058.8 | 4051.2 | 3997.5 |
| 32.5° | 7818.5  | 5443.8 | 4051.2 | 4028.2 | 4127.9 | 4131.7 | 4112.6 | 4012.8 | 3867.0 | 3805.6 | 3744.3 |
| 35°   | 8225.1  | 5328.7 | 3932.2 | 3966.8 | 3997.5 | 3986.0 | 3951.4 | 3844.0 | 3698.2 | 3671.4 | 3648.4 |
| 37.5° | 8524.3  | 5244.3 | 3809.5 | 3851.7 | 3878.5 | 3893.9 | 3790.3 | 3671.4 | 3675.2 | 3621.5 | 3606.2 |
| 40°   | 8861.9  | 5190.6 | 3709.7 | 3728.9 | 3732.8 | 3782.6 | 3656.0 | 3598.5 | 3625.3 | 3590.8 | 3613.8 |
| 42.5° | 9295.4  | 5205.9 | 3606.2 | 3590.8 | 3663.7 | 3644.5 | 3583.1 | 3506.4 | 3521.8 | 3418.2 | 3433.5 |
| 45°   | 9525.6  | 5309.5 | 3544.8 | 3475.7 | 3556.3 | 3552.4 | 3471.9 | 3399.0 | 3306.9 | 3107.4 | 3115.1 |
| 47.5° | 9679.1  | 5336.3 | 3399.0 | 3353.0 | 3437.4 | 3487.2 | 3395.2 | 3226.4 | 3095.9 | 2954.0 | 2919.5 |
| 50°   | 9836.4  | 5386.2 | 3329.9 | 3234.0 | 3268.6 | 3387.5 | 3272.4 | 3111.3 | 2984.7 | 2858.1 | 2877.3 |
| 52.5° | 9974.5  | 5482.1 | 3195.7 | 3053.7 | 3115.1 | 3245.5 | 3184.2 | 2988.5 | 2850.4 | 2746.8 | 2716.1 |
| 55°   | 10588.3 | 5697.0 | 2969.3 | 2785.2 | 2931.0 | 3095.9 | 3061.4 | 2823.5 | 2673.9 | 2620.2 | 2612.5 |
| 56°   | 10684.2 | 5704.6 | 2850.4 | 2693.1 | 2827.4 | 3046.1 | 3003.9 | 2750.7 | 2616.4 | 2532.0 | 2535.8 |
| 57.5° | 10699.5 | 5612.6 | 2681.6 | 2608.7 | 2723.8 | 2973.2 | 2919.5 | 2693.1 | 2509.0 | 2432.2 | 2409.2 |
| 60°   | 9414.4  | 4381.1 | 2470.6 | 2424.6 | 2558.8 | 2750.7 | 2731.5 | 2535.8 | 2328.7 | 2240.4 | 2282.6 |
| 62.5° | 6418.2  | 3211.0 | 2305.6 | 2298.0 | 2367.0 | 2555.0 | 2505.1 | 2328.7 | 2156.0 | 2098.5 | 2071.6 |
| 65°   | 3736.6  | 2436.1 | 2144.5 | 2113.8 | 2171.4 | 2271.1 | 2305.6 | 2121.5 | 1941.2 | 1902.8 | 1891.3 |
| 67.5° | 2205.9  | 2014.1 | 1937.3 | 1887.5 | 1868.3 | 1929.7 | 1956.5 | 1849.1 | 1668.8 | 1615.1 | 1661.1 |
| 70°   | 1845.3  | 1791.6 | 1795.4 | 1711.0 | 1665.0 | 1622.8 | 1599.8 | 1503.8 | 1354.2 | 1285.2 | 1266.0 |
| 72.5° | 1592.1  | 1569.1 | 1553.7 | 1477.0 | 1434.8 | 1338.9 | 1239.1 | 1143.2 | 1032.0 | 974.4  | 978.3  |
| 75°   | 1216.1  | 1208.4 | 1216.1 | 1177.8 | 1104.9 | 1028.1 | 936.1  | 813.3  | 728.9  | 656.0  | 671.4  |
| 77.5° | 725.1   | 748.1  | 759.6  | 744.2  | 713.6  | 644.5  | 587.0  | 506.4  | 425.8  | 368.3  | 360.6  |
| 80°   | 498.7   | 517.9  | 537.1  | 517.9  | 487.2  | 437.3  | 376.0  | 314.6  | 257.0  | 226.3  | 218.7  |
| 82.5° | 379.8   | 399.0  | 410.5  | 391.3  | 352.9  | 299.2  | 257.0  | 214.8  | 168.8  | 138.1  | 130.4  |
| 85°   | 138.1   | 157.3  | 153.5  | 184.1  | 199.5  | 191.8  | 165.0  | 126.6  | 95.9   | 69.1   | 65.2   |
| 87.5° | 38.4    | 34.5   | 38.4   | 38.4   | 38.4   | 34.5   | 30.7   | 30.7   | 30.7   | 19.2   | 15.3   |
| 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)