

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: P532636

Luminaire Tested: **GLAN-SA8A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29553 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 244  
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



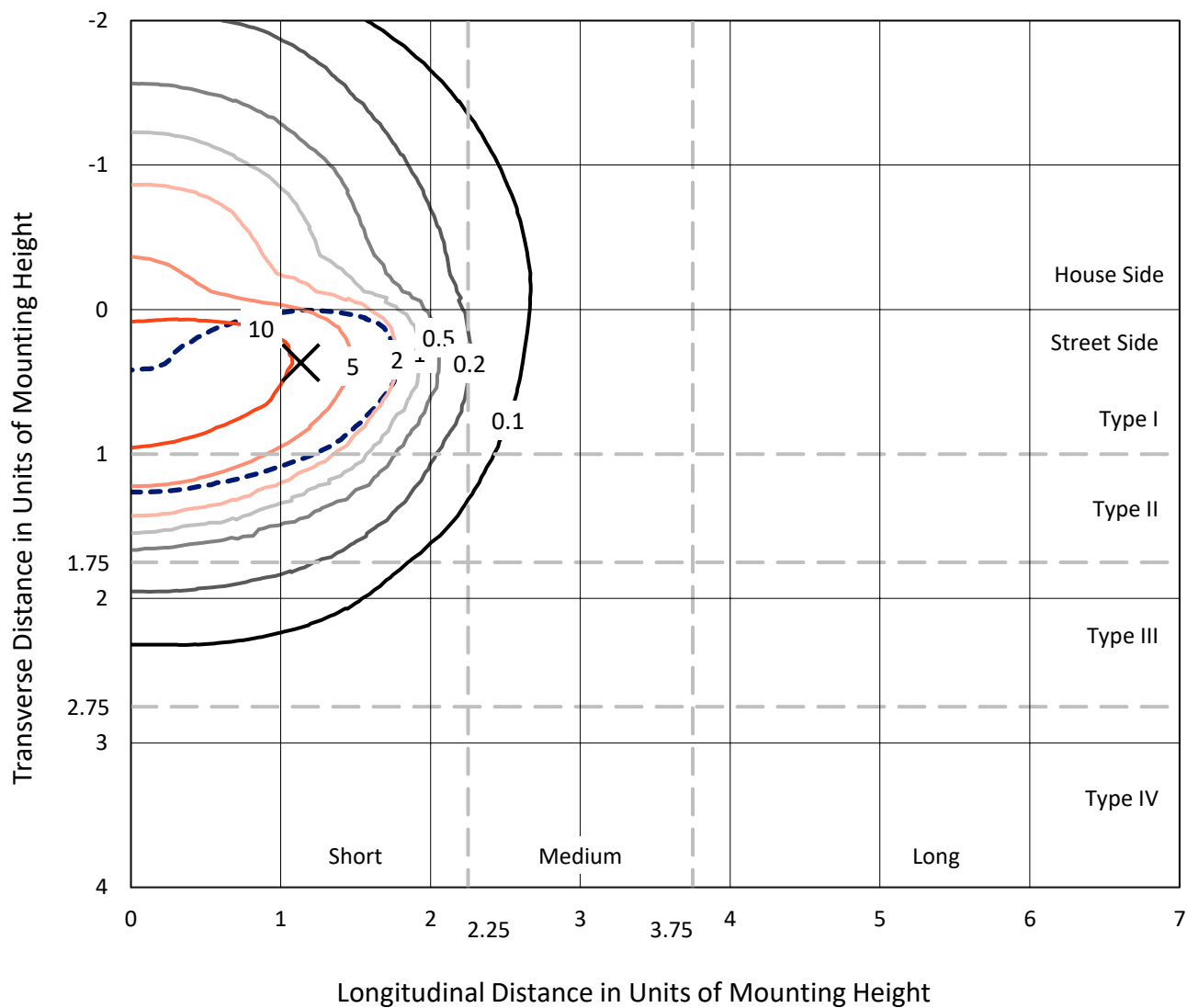
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

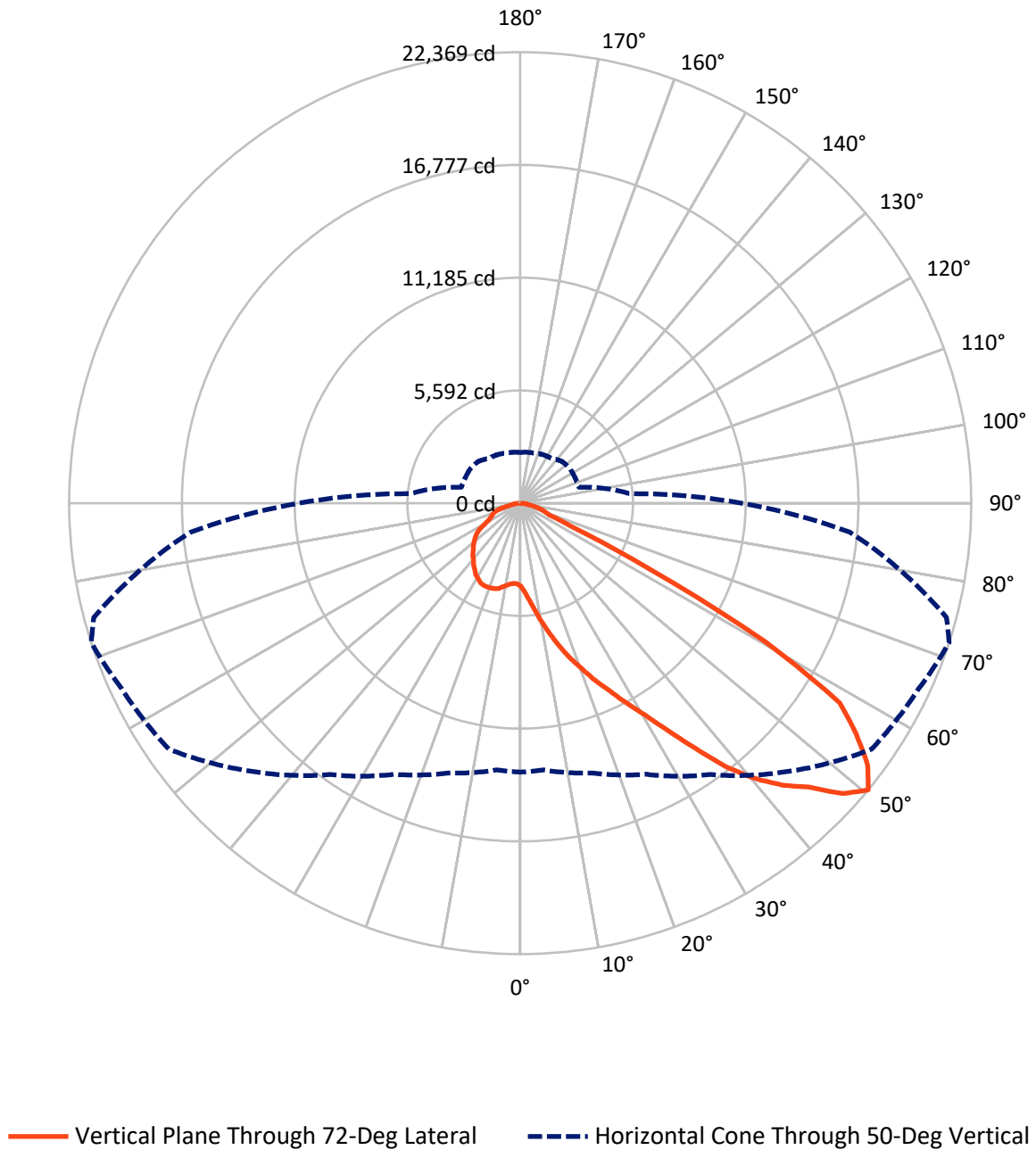
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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    | 6770.8   | 0.0    | 6770.8  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 22782.2  | 0.0    | 22782.2 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 29553.0  | 0.0    | 29553.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 483.9   | 1.6       |
| 10°-20°   | 1809.0  | 6.1       |
| 20°-30°   | 3507.6  | 11.9      |
| 30°-40°   | 5810.9  | 19.7      |
| 40°-50°   | 8130.7  | 27.5      |
| 50°-60°   | 6859.3  | 23.2      |
| 60°-70°   | 2090.7  | 7.1       |
| 70°-80°   | 733.5   | 2.5       |
| 80°-90°   | 127.5   | 0.4       |
| 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°    | 29553.0 | 100.0     |
| 0°-180°   | 29553.0 | 100.0     |

**Coefficient of Utilization**



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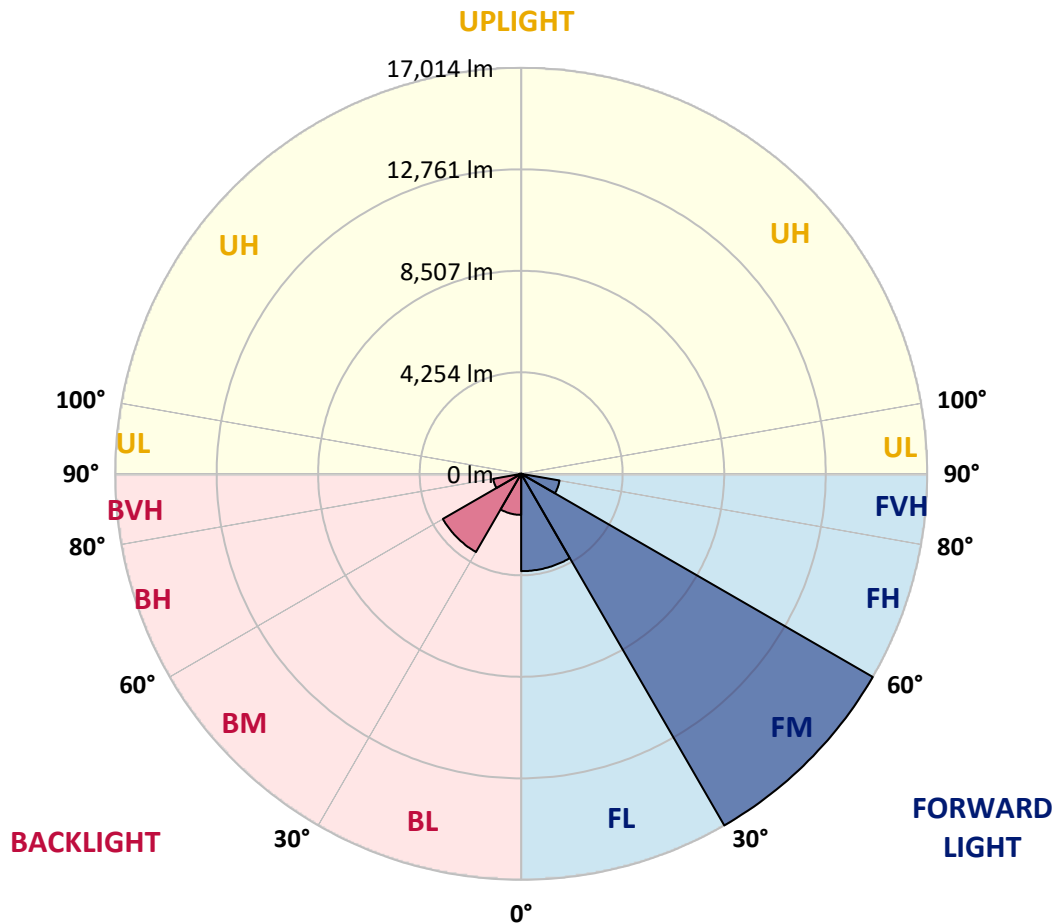
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4079.4  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 17014.5 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 1631.3  | 5.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 57.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1721.2  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3786.3  | 12.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1192.9  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 70.4    | 0.2       |                         |      | 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°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  | 4114.0  |
| 2.5°  | 5291.6  | 5258.6  | 5159.9  | 5127.0  | 5010.0  | 4797.9  | 4724.7  | 4509.0  | 4417.6  | 4333.4  | 4234.7  |
| 5°    | 6692.2  | 6538.6  | 6527.6  | 6341.1  | 6070.5  | 5913.2  | 5445.1  | 5130.7  | 4841.8  | 4695.5  | 4424.9  |
| 7.5°  | 7584.4  | 7588.1  | 7588.1  | 7434.5  | 7218.8  | 6820.1  | 6399.6  | 5832.8  | 5397.6  | 5181.8  | 4721.1  |
| 10°   | 8432.8  | 8359.7  | 8319.5  | 8304.9  | 8158.6  | 7770.9  | 7321.1  | 6619.0  | 6022.9  | 5770.6  | 4944.1  |
| 12.5° | 9032.6  | 8970.4  | 9061.8  | 9014.3  | 8908.2  | 8655.9  | 8231.7  | 7430.9  | 6684.8  | 6344.7  | 5302.5  |
| 15°   | 9317.8  | 9361.7  | 9434.8  | 9566.5  | 9519.0  | 9423.9  | 8955.8  | 8264.6  | 7397.9  | 7014.0  | 5620.7  |
| 17.5° | 9756.6  | 9636.0  | 9723.7  | 9888.3  | 10019.9 | 9976.1  | 9709.1  | 8868.0  | 8103.7  | 7632.0  | 6048.5  |
| 20°   | 10063.8 | 9994.3  | 10038.2 | 10228.4 | 10327.1 | 10575.8 | 10436.8 | 9657.9  | 8780.3  | 8282.9  | 6553.2  |
| 22.5° | 10941.5 | 10839.1 | 10696.5 | 10725.7 | 10762.3 | 10937.8 | 10970.7 | 10524.6 | 9566.5  | 9039.9  | 7032.2  |
| 25°   | 12023.9 | 11928.9 | 11760.6 | 11588.8 | 11482.7 | 11449.8 | 11563.2 | 11204.8 | 10319.8 | 9774.9  | 7547.9  |
| 27.5° | 13216.1 | 13055.2 | 12949.1 | 12594.4 | 12309.2 | 12265.3 | 12210.4 | 12016.6 | 11212.1 | 10623.3 | 8129.3  |
| 30°   | 14375.3 | 14247.3 | 14104.7 | 13537.9 | 13241.7 | 13194.2 | 12923.5 | 12978.4 | 12181.2 | 11526.6 | 8787.6  |
| 32.5° | 15253.0 | 15264.0 | 14938.5 | 14510.6 | 14232.7 | 13980.4 | 13881.7 | 14038.9 | 13424.5 | 12897.9 | 9522.6  |
| 35°   | 15962.4 | 15995.3 | 15684.5 | 15296.9 | 14997.0 | 15172.5 | 15128.7 | 15201.8 | 14909.2 | 14265.6 | 10378.3 |
| 37.5° | 16653.6 | 16489.0 | 16156.3 | 15969.7 | 15812.5 | 16101.4 | 16474.4 | 16536.6 | 16591.4 | 15834.4 | 11373.0 |
| 40°   | 16767.0 | 16781.6 | 16587.8 | 16719.4 | 16521.9 | 16957.1 | 17823.8 | 17743.4 | 17966.4 | 17304.5 | 12451.8 |
| 42.5° | 16606.1 | 16639.0 | 16715.8 | 16902.3 | 17377.7 | 17900.6 | 19187.8 | 18858.7 | 19129.3 | 18540.6 | 13501.3 |
| 45°   | 16342.8 | 16207.4 | 16302.5 | 17012.0 | 17834.8 | 18997.7 | 20434.8 | 20178.9 | 20091.1 | 19597.4 | 14752.0 |
| 47.5° | 15084.8 | 15223.7 | 15519.9 | 16394.0 | 17630.0 | 19187.8 | 21319.8 | 21261.3 | 21524.6 | 21177.2 | 15889.3 |
| 50°   | 13340.4 | 13285.6 | 13856.1 | 14839.8 | 16434.2 | 18814.8 | 21272.3 | 21802.5 | 22369.4 | 21886.6 | 16397.6 |
| 52.5° | 9990.7  | 10283.2 | 10773.3 | 11994.7 | 14269.3 | 16781.6 | 20233.7 | 21118.7 | 21579.5 | 21477.1 | 15988.0 |
| 55°   | 6315.5  | 6403.3  | 6699.5  | 8151.3  | 10199.1 | 13468.4 | 17344.7 | 19396.3 | 20219.1 | 20603.1 | 15611.4 |
| 57.5° | 3068.2  | 2903.6  | 3265.6  | 4432.2  | 5891.3  | 9058.2  | 13377.0 | 16894.9 | 18683.2 | 19378.0 | 14792.2 |
| 60°   | 1601.7  | 1663.9  | 1806.5  | 2223.4  | 3046.2  | 4702.8  | 8337.8  | 11259.6 | 13991.4 | 15059.2 | 11212.1 |
| 62.5° | 1327.5  | 1349.4  | 1444.5  | 1652.9  | 2025.9  | 2706.1  | 4256.6  | 5489.0  | 7134.6  | 8096.4  | 6377.7  |
| 65°   | 1126.3  | 1137.3  | 1239.7  | 1378.7  | 1616.4  | 1905.3  | 2190.5  | 2292.9  | 2775.6  | 2848.7  | 2267.3  |
| 67.5° | 939.8   | 950.8   | 1060.5  | 1192.2  | 1345.7  | 1422.5  | 1495.7  | 1488.4  | 1543.2  | 1521.3  | 1517.6  |
| 70°   | 724.1   | 735.0   | 848.4   | 987.4   | 1064.2  | 1020.3  | 1247.0  | 1298.2  | 1320.1  | 1338.4  | 1367.7  |
| 72.5° | 522.9   | 544.9   | 632.6   | 731.4   | 691.2   | 793.6   | 1027.6  | 1104.4  | 1133.6  | 1144.6  | 1181.2  |
| 75°   | 380.3   | 387.6   | 409.6   | 380.3   | 438.8   | 552.2   | 724.1   | 819.1   | 855.7   | 866.7   | 921.5   |
| 77.5° | 168.2   | 171.9   | 175.5   | 219.4   | 281.6   | 343.8   | 431.5   | 508.3   | 559.5   | 574.1   | 588.8   |
| 80°   | 87.8    | 91.4    | 113.4   | 149.9   | 201.1   | 252.3   | 314.5   | 358.4   | 391.3   | 394.9   | 409.6   |
| 82.5° | 54.9    | 58.5    | 80.5    | 106.1   | 142.6   | 186.5   | 230.4   | 267.0   | 292.6   | 296.2   | 299.9   |
| 85°   | 25.6    | 32.9    | 47.5    | 65.8    | 95.1    | 120.7   | 124.3   | 106.1   | 113.4   | 117.0   | 109.7   |
| 87.5° | 7.3     | 11.0    | 14.6    | 11.0    | 14.6    | 14.6    | 18.3    | 21.9    | 21.9    | 21.9    | 25.6    |
| 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°    | 4114.0  | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 | 4114.0 |
| 2.5°  | 4179.9  | 4146.9 | 4018.9 | 3971.4 | 3847.1 | 3869.0 | 3803.2 | 3799.5 | 3784.9 | 3781.3 | 3777.6 |
| 5°    | 4282.2  | 4179.9 | 4026.3 | 3909.2 | 3839.8 | 3832.4 | 3784.9 | 3784.9 | 3799.5 | 3810.5 | 3784.9 |
| 7.5°  | 4450.5  | 4333.4 | 4073.8 | 3964.1 | 3901.9 | 3891.0 | 3858.0 | 3832.4 | 3865.4 | 3854.4 | 3825.1 |
| 10°   | 4644.3  | 4439.5 | 4165.2 | 4070.1 | 3967.8 | 3942.2 | 3942.2 | 3953.1 | 3898.3 | 3916.6 | 3887.3 |
| 12.5° | 4860.0  | 4585.8 | 4282.2 | 4172.5 | 4051.9 | 4037.2 | 4029.9 | 3949.5 | 3978.7 | 3964.1 | 3891.0 |
| 15°   | 5134.3  | 4754.0 | 4432.2 | 4245.7 | 4143.3 | 4077.5 | 3982.4 | 3967.8 | 3949.5 | 3912.9 | 3880.0 |
| 17.5° | 5430.5  | 4936.8 | 4501.7 | 4267.6 | 4114.0 | 4066.5 | 3993.4 | 3916.6 | 3861.7 | 3869.0 | 3843.4 |
| 20°   | 5682.8  | 5105.1 | 4527.3 | 4289.6 | 4092.1 | 4000.7 | 3887.3 | 3839.8 | 3781.3 | 3777.6 | 3773.9 |
| 22.5° | 5982.7  | 5331.8 | 4563.8 | 4231.1 | 4026.3 | 3931.2 | 3854.4 | 3770.3 | 3730.1 | 3678.9 | 3704.5 |
| 25°   | 6341.1  | 5419.5 | 4571.1 | 4198.1 | 3978.7 | 3810.5 | 3770.3 | 3678.9 | 3664.2 | 3591.1 | 3605.7 |
| 27.5° | 6600.7  | 5467.1 | 4512.6 | 4095.7 | 3869.0 | 3741.0 | 3667.9 | 3602.1 | 3576.5 | 3521.6 | 3507.0 |
| 30°   | 6948.1  | 5540.2 | 4388.3 | 3967.8 | 3759.3 | 3616.7 | 3572.8 | 3558.2 | 3485.0 | 3426.5 | 3419.2 |
| 32.5° | 7343.1  | 5587.8 | 4307.8 | 3836.1 | 3645.9 | 3536.2 | 3558.2 | 3488.7 | 3397.3 | 3346.1 | 3331.4 |
| 35°   | 7657.6  | 5606.1 | 4106.7 | 3686.2 | 3569.1 | 3499.7 | 3474.1 | 3459.4 | 3327.8 | 3280.3 | 3243.7 |
| 37.5° | 8136.6  | 5565.8 | 3938.5 | 3580.1 | 3485.0 | 3459.4 | 3437.5 | 3338.8 | 3188.8 | 3119.3 | 3068.2 |
| 40°   | 8696.1  | 5554.9 | 3722.7 | 3430.2 | 3404.6 | 3433.8 | 3368.0 | 3214.4 | 3006.0 | 2929.2 | 2892.6 |
| 42.5° | 9233.7  | 5631.6 | 3587.4 | 3349.7 | 3316.8 | 3327.8 | 3236.4 | 3006.0 | 2903.6 | 2859.7 | 2801.2 |
| 45°   | 10133.3 | 5792.6 | 3364.4 | 3225.4 | 3210.8 | 3203.5 | 3093.8 | 2852.4 | 2793.9 | 2739.0 | 2728.1 |
| 47.5° | 10945.1 | 5686.5 | 3221.7 | 3097.4 | 3112.0 | 3071.8 | 2837.8 | 2761.0 | 2695.1 | 2640.3 | 2622.0 |
| 50°   | 10992.7 | 5434.2 | 3020.6 | 2998.7 | 3002.3 | 2932.8 | 2709.8 | 2658.6 | 2574.5 | 2537.9 | 2512.3 |
| 52.5° | 10744.0 | 5020.9 | 2834.1 | 2841.4 | 2852.4 | 2739.0 | 2552.5 | 2516.0 | 2446.5 | 2395.3 | 2380.7 |
| 55°   | 10045.5 | 4377.3 | 2651.3 | 2680.5 | 2709.8 | 2494.0 | 2435.5 | 2344.1 | 2289.2 | 2216.1 | 2219.7 |
| 57.5° | 8849.7  | 3525.3 | 2395.3 | 2442.8 | 2505.0 | 2267.3 | 2223.4 | 2110.0 | 2029.6 | 1971.1 | 1963.8 |
| 60°   | 5931.5  | 2508.6 | 2011.3 | 2029.6 | 2168.6 | 2073.5 | 2069.8 | 1956.4 | 1846.7 | 1795.5 | 1766.3 |
| 62.5° | 3499.7  | 1916.2 | 1737.0 | 1718.8 | 1715.1 | 1769.9 | 1861.4 | 1821.1 | 1678.5 | 1579.8 | 1609.0 |
| 65°   | 1832.1  | 1656.6 | 1616.4 | 1554.2 | 1517.6 | 1503.0 | 1572.5 | 1590.8 | 1495.7 | 1389.6 | 1382.3 |
| 67.5° | 1539.6  | 1539.6 | 1506.6 | 1484.7 | 1433.5 | 1371.3 | 1327.5 | 1268.9 | 1254.3 | 1225.1 | 1188.5 |
| 70°   | 1400.6  | 1437.2 | 1426.2 | 1375.0 | 1331.1 | 1261.6 | 1148.3 | 1053.2 | 961.8  | 928.9  | 950.8  |
| 72.5° | 1221.4  | 1258.0 | 1258.0 | 1232.4 | 1173.9 | 1067.8 | 958.1  | 848.4  | 771.6  | 713.1  | 705.8  |
| 75°   | 939.8   | 958.1  | 1002.0 | 972.7  | 895.9  | 830.1  | 716.8  | 603.4  | 530.3  | 475.4  | 464.4  |
| 77.5° | 599.7   | 629.0  | 629.0  | 625.3  | 570.5  | 508.3  | 435.2  | 354.7  | 299.9  | 259.6  | 248.7  |
| 80°   | 398.6   | 416.9  | 431.5  | 416.9  | 380.3  | 332.8  | 277.9  | 223.1  | 182.8  | 149.9  | 142.6  |
| 82.5° | 292.6   | 314.5  | 325.5  | 310.8  | 274.3  | 237.7  | 197.5  | 157.2  | 117.0  | 91.4   | 84.1   |
| 85°   | 113.4   | 117.0  | 131.6  | 157.2  | 153.6  | 149.9  | 120.7  | 87.8   | 65.8   | 47.5   | 43.9   |
| 87.5° | 29.3    | 25.6   | 29.3   | 29.3   | 25.6   | 21.9   | 21.9   | 21.9   | 21.9   | 11.0   | 14.6   |
| 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)