

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: McGRAW-EDISON

Report Number: P528805

Luminaire Tested: **GALN-SA3D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-830-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10732 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 184  
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



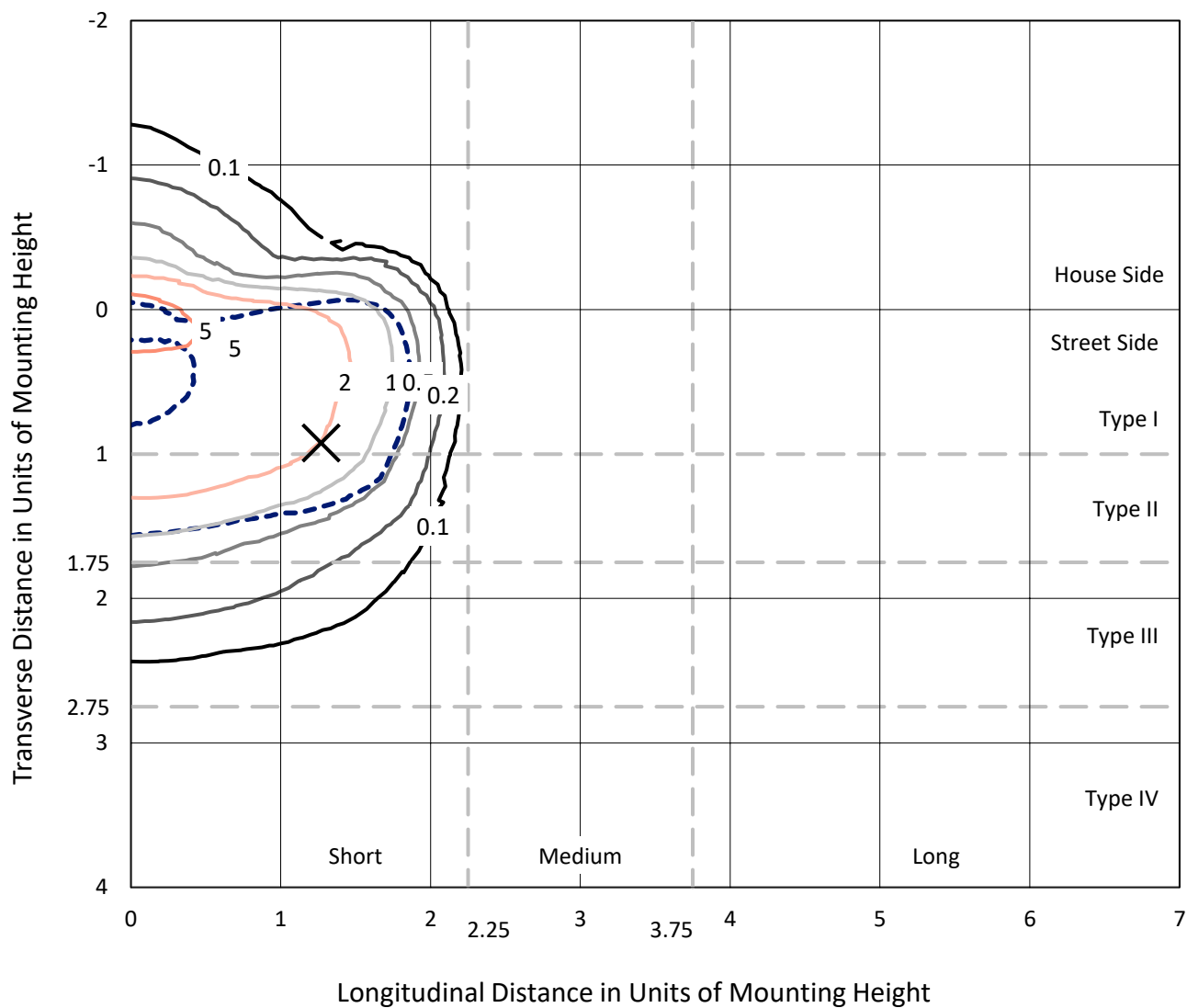
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

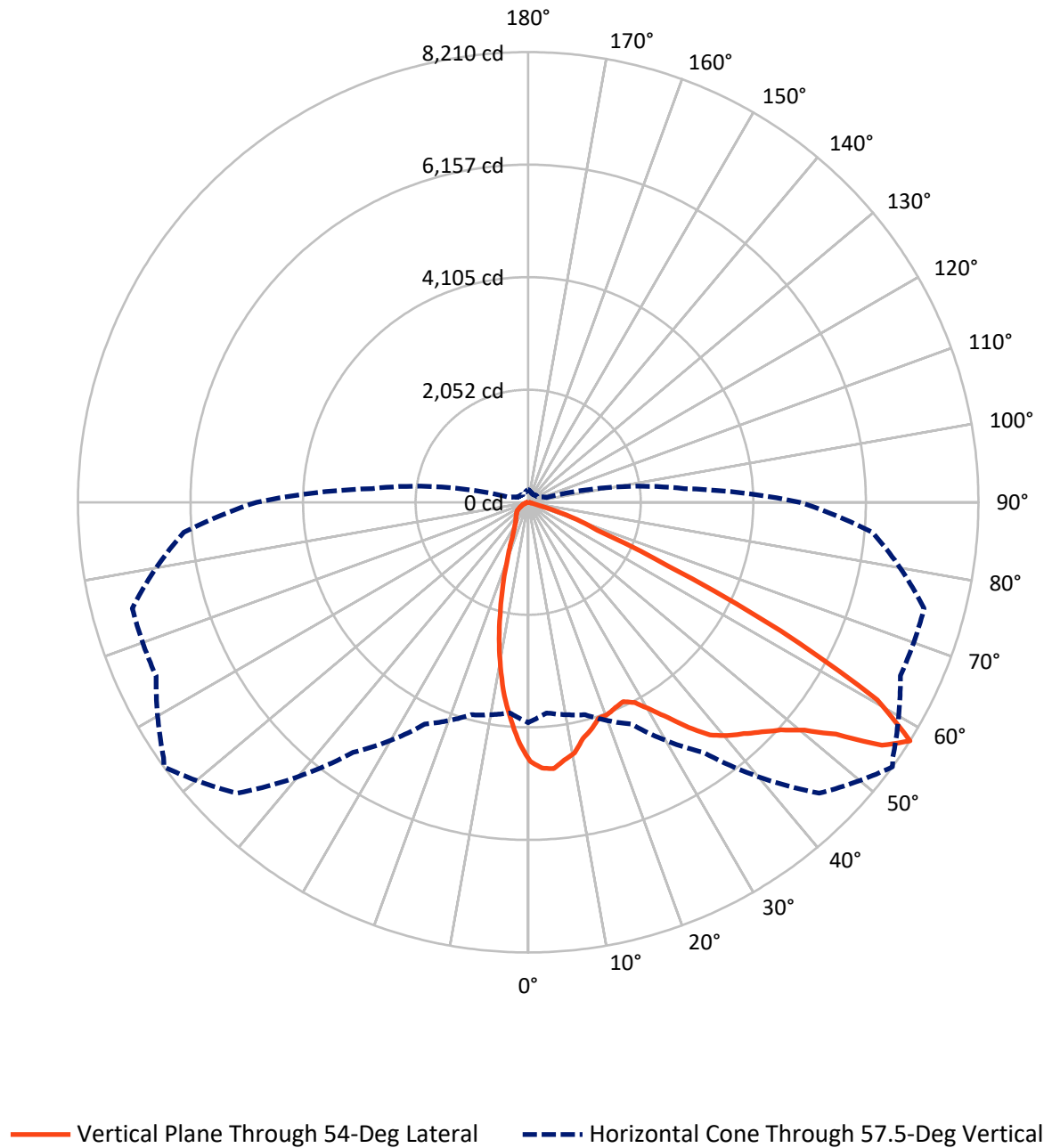


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1516.6   | 0.0    | 1516.6  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 9215.4   | 0.0    | 9215.4  |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 10732.0  | 0.0    | 10732.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 395.6   | 3.7       |
| 10°-20°   | 844.6   | 7.9       |
| 20°-30°   | 1119.3  | 10.4      |
| 30°-40°   | 1626.7  | 15.2      |
| 40°-50°   | 2412.1  | 22.5      |
| 50°-60°   | 3016.2  | 28.1      |
| 60°-70°   | 1189.8  | 11.1      |
| 70°-80°   | 118.5   | 1.1       |
| 80°-90°   | 9.2     | 0.1       |
| 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°    | 10732.0 | 100.0     |
| 0°-180°   | 10732.0 | 100.0     |

**Coefficient of Utilization**



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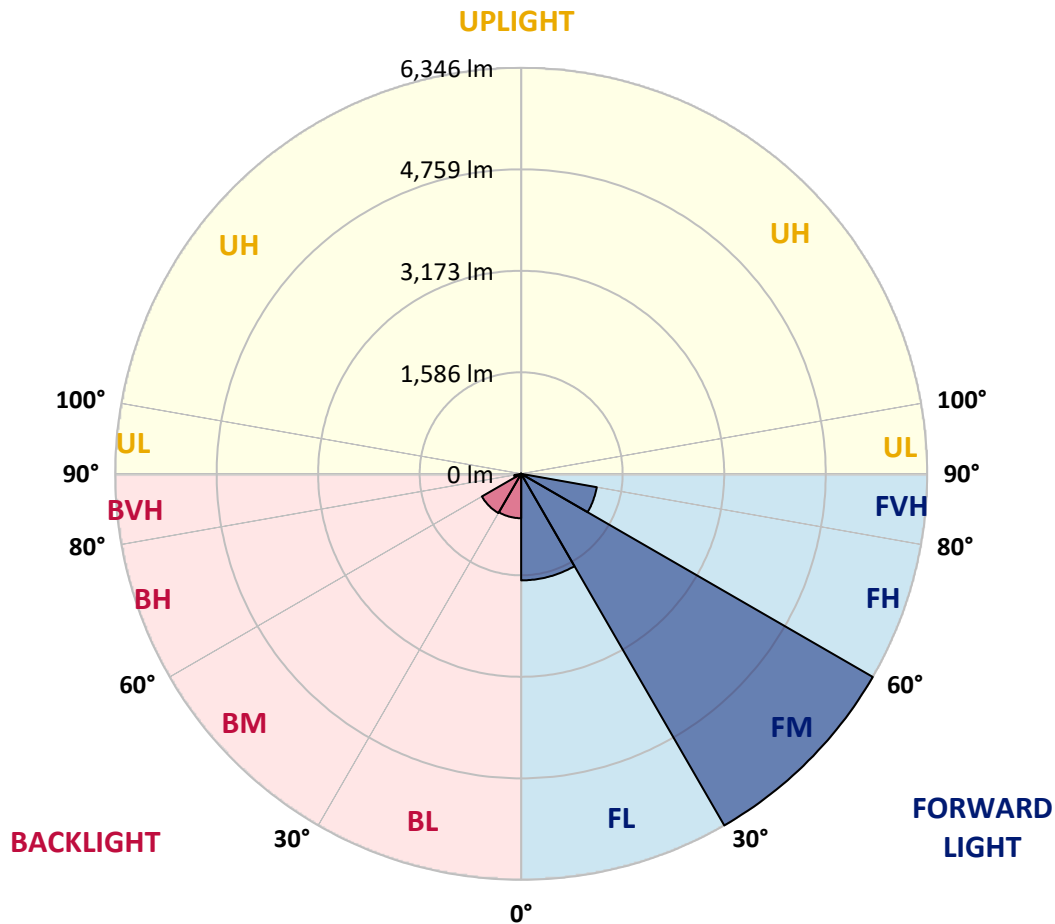
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1665.9 | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 6345.8 | 59.1      |                         |      |         |
| FH   | (60°-80°)   | 1199.5 | 11.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 4.2    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 693.6  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 709.2  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 108.8  | 1.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 5.0    | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 |
| 2.5°  | 5003.0 | 4951.1 | 4955.1 | 4937.1 | 4913.2 | 4931.1 | 4853.3 | 4871.3 | 4869.3 | 4763.5 | 4693.7 |
| 5°    | 4877.3 | 4933.1 | 4875.3 | 4923.2 | 4877.3 | 4927.2 | 4879.3 | 4843.3 | 4785.5 | 4707.6 | 4577.9 |
| 7.5°  | 4663.7 | 4609.8 | 4625.8 | 4685.7 | 4695.7 | 4807.4 | 4747.5 | 4793.4 | 4769.5 | 4615.8 | 4438.2 |
| 10°   | 4234.7 | 4222.7 | 4302.5 | 4382.4 | 4480.1 | 4599.9 | 4645.8 | 4619.8 | 4601.9 | 4544.0 | 4306.5 |
| 12.5° | 3905.4 | 3939.3 | 3937.3 | 4069.0 | 4234.7 | 4302.5 | 4422.3 | 4418.3 | 4518.1 | 4410.3 | 4182.8 |
| 15°   | 3592.1 | 3610.1 | 3693.9 | 3775.7 | 3959.3 | 4152.9 | 4300.5 | 4320.5 | 4440.2 | 4364.4 | 4087.0 |
| 17.5° | 3400.5 | 3374.6 | 3440.4 | 3538.2 | 3725.8 | 3979.2 | 4142.9 | 4190.8 | 4354.4 | 4338.4 | 3977.2 |
| 20°   | 3210.9 | 3210.9 | 3264.8 | 3380.6 | 3552.2 | 3837.6 | 4128.9 | 4114.9 | 4354.4 | 4308.5 | 3859.5 |
| 22.5° | 3147.1 | 3179.0 | 3193.0 | 3280.8 | 3484.3 | 3729.8 | 4069.0 | 4095.0 | 4388.3 | 4294.5 | 3807.6 |
| 25°   | 3234.9 | 3193.0 | 3197.0 | 3266.8 | 3458.4 | 3677.9 | 4025.1 | 4083.0 | 4450.2 | 4364.4 | 3765.7 |
| 27.5° | 3248.8 | 3290.8 | 3302.7 | 3350.6 | 3478.3 | 3693.9 | 4134.9 | 4252.6 | 4603.9 | 4528.0 | 3777.7 |
| 30°   | 3370.6 | 3412.5 | 3410.5 | 3492.3 | 3580.1 | 3823.6 | 4380.4 | 4404.3 | 4921.2 | 4733.6 | 3851.5 |
| 32.5° | 3518.3 | 3562.2 | 3576.1 | 3671.9 | 3741.8 | 4061.1 | 4679.7 | 4741.6 | 5226.5 | 5056.9 | 4045.1 |
| 35°   | 3701.8 | 3685.9 | 3749.7 | 3845.5 | 3995.2 | 4408.3 | 5044.9 | 5148.7 | 5555.8 | 5475.9 | 4244.7 |
| 37.5° | 3931.3 | 3911.4 | 3973.3 | 4128.9 | 4332.5 | 4819.4 | 5382.1 | 5450.0 | 5795.2 | 5865.1 | 4613.8 |
| 40°   | 4093.0 | 4101.0 | 4288.6 | 4498.1 | 4713.6 | 5210.5 | 5595.7 | 5661.5 | 5962.9 | 6228.3 | 4893.2 |
| 42.5° | 4362.4 | 4412.3 | 4637.8 | 4893.2 | 5118.7 | 5503.9 | 5769.3 | 5833.2 | 6040.7 | 6519.6 | 5270.4 |
| 45°   | 4753.5 | 4731.6 | 4981.0 | 5266.4 | 5515.9 | 5809.2 | 5974.8 | 5952.9 | 6086.6 | 6809.0 | 5507.9 |
| 47.5° | 5256.4 | 5260.4 | 5426.1 | 5669.5 | 5928.9 | 6074.6 | 6204.3 | 6126.5 | 6182.4 | 7114.3 | 5825.2 |
| 50°   | 5599.7 | 5629.6 | 5763.3 | 6012.8 | 6142.5 | 6366.0 | 6531.6 | 6483.7 | 6465.8 | 7297.9 | 6024.7 |
| 52.5° | 5687.5 | 5777.3 | 5849.1 | 6160.4 | 6463.8 | 6817.0 | 7028.5 | 7130.3 | 6811.0 | 7359.8 | 6278.2 |
| 55°   | 5024.9 | 5104.8 | 5358.2 | 5785.3 | 6585.5 | 7531.4 | 7822.8 | 7824.8 | 7262.0 | 7635.2 | 6455.8 |
| 57.5° | 4017.2 | 3855.5 | 4011.2 | 4464.2 | 5567.7 | 7501.5 | 8209.9 | 8116.1 | 7487.5 | 7473.5 | 6302.1 |
| 60°   | 2777.9 | 2738.0 | 2747.9 | 2927.6 | 3853.5 | 5966.9 | 7315.9 | 7437.6 | 6894.8 | 6477.7 | 4989.0 |
| 62.5° | 2201.2 | 2167.2 | 2123.3 | 2103.4 | 2392.7 | 3717.8 | 5160.6 | 5332.3 | 4821.4 | 4200.8 | 2957.5 |
| 65°   | 1724.2 | 1704.2 | 1710.2 | 1790.1 | 1788.1 | 2109.4 | 2821.8 | 2751.9 | 2203.1 | 1628.4 | 930.0  |
| 67.5° | 1163.4 | 1193.4 | 1217.3 | 1458.8 | 1582.5 | 1468.8 | 1363.0 | 1323.1 | 716.4  | 301.3  | 205.5  |
| 70°   | 654.6  | 658.5  | 684.5  | 912.0  | 1201.4 | 1139.5 | 939.9  | 939.9  | 357.2  | 109.8  | 117.7  |
| 72.5° | 357.2  | 345.2  | 321.3  | 393.1  | 534.8  | 542.8  | 419.1  | 365.2  | 105.8  | 71.8   | 65.9   |
| 75°   | 173.6  | 171.6  | 147.7  | 121.7  | 115.7  | 95.8   | 73.8   | 67.9   | 47.9   | 45.9   | 39.9   |
| 77.5° | 35.9   | 33.9   | 18.0   | 18.0   | 20.0   | 22.0   | 27.9   | 27.9   | 33.9   | 33.9   | 27.9   |
| 80°   | 0.0    | 0.0    | 2.0    | 8.0    | 14.0   | 20.0   | 23.9   | 23.9   | 27.9   | 27.9   | 22.0   |
| 82.5° | 0.0    | 0.0    | 2.0    | 6.0    | 12.0   | 18.0   | 22.0   | 23.9   | 27.9   | 29.9   | 23.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 4.0    | 10.0   | 14.0   | 12.0   | 12.0   | 10.0   | 8.0    | 4.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 | 4727.6 |
| 2.5°  | 4657.7 | 4653.8 | 4562.0 | 4510.1 | 4416.3 | 4334.5 | 4268.6 | 4220.7 | 4220.7 | 4190.8 | 4162.8 |
| 5°    | 4526.0 | 4492.1 | 4296.5 | 4170.8 | 3993.2 | 3861.5 | 3771.7 | 3701.8 | 3592.1 | 3622.0 | 3504.3 |
| 7.5°  | 4362.4 | 4276.6 | 4017.2 | 3825.6 | 3580.1 | 3392.5 | 3201.0 | 3031.3 | 2867.7 | 2793.8 | 2833.8 |
| 10°   | 4186.8 | 4037.1 | 3687.9 | 3384.5 | 3079.2 | 2736.0 | 2512.5 | 2241.1 | 2073.4 | 2063.5 | 2019.6 |
| 12.5° | 4001.2 | 3831.6 | 3406.5 | 2987.4 | 2586.3 | 2173.2 | 1832.0 | 1578.5 | 1464.8 | 1339.1 | 1363.0 |
| 15°   | 3861.5 | 3610.1 | 3093.2 | 2588.3 | 2055.5 | 1638.4 | 1295.1 | 1099.6 | 991.8  | 961.9  | 951.9  |
| 17.5° | 3709.8 | 3440.4 | 2773.9 | 2163.2 | 1612.4 | 1179.4 | 931.9  | 838.2  | 796.2  | 796.2  | 790.3  |
| 20°   | 3552.2 | 3248.8 | 2456.6 | 1768.1 | 1209.3 | 880.1  | 746.4  | 716.4  | 714.4  | 712.4  | 712.4  |
| 22.5° | 3448.4 | 3029.3 | 2169.2 | 1404.9 | 912.0  | 704.4  | 648.6  | 636.6  | 644.6  | 668.5  | 668.5  |
| 25°   | 3338.6 | 2817.8 | 1851.9 | 1083.6 | 706.4  | 604.7  | 572.7  | 580.7  | 600.7  | 622.6  | 614.6  |
| 27.5° | 3226.9 | 2680.1 | 1552.6 | 850.1  | 578.7  | 528.8  | 516.9  | 534.8  | 556.8  | 576.7  | 570.7  |
| 30°   | 3201.0 | 2532.4 | 1269.2 | 644.6  | 496.9  | 461.0  | 469.0  | 484.9  | 506.9  | 514.9  | 522.8  |
| 32.5° | 3240.9 | 2416.7 | 1039.7 | 528.8  | 433.0  | 423.1  | 423.1  | 431.1  | 445.0  | 463.0  | 457.0  |
| 35°   | 3354.6 | 2350.8 | 822.2  | 459.0  | 397.1  | 387.1  | 385.2  | 393.1  | 401.1  | 407.1  | 401.1  |
| 37.5° | 3528.2 | 2298.9 | 672.5  | 407.1  | 373.2  | 357.2  | 353.2  | 351.2  | 359.2  | 361.2  | 365.2  |
| 40°   | 3749.7 | 2326.9 | 570.7  | 375.2  | 349.2  | 331.3  | 319.3  | 319.3  | 319.3  | 325.3  | 327.3  |
| 42.5° | 3989.2 | 2364.8 | 492.9  | 357.2  | 327.3  | 305.3  | 293.4  | 289.4  | 293.4  | 301.3  | 299.3  |
| 45°   | 4240.7 | 2438.6 | 443.0  | 329.3  | 307.3  | 279.4  | 263.4  | 259.4  | 269.4  | 285.4  | 283.4  |
| 47.5° | 4476.1 | 2544.4 | 405.1  | 311.3  | 287.4  | 261.4  | 241.5  | 237.5  | 255.4  | 277.4  | 279.4  |
| 50°   | 4711.6 | 2728.0 | 391.1  | 297.3  | 273.4  | 243.5  | 225.5  | 221.5  | 241.5  | 269.4  | 275.4  |
| 52.5° | 4983.0 | 2925.6 | 381.2  | 279.4  | 257.4  | 229.5  | 209.5  | 205.5  | 227.5  | 263.4  | 265.4  |
| 55°   | 5160.6 | 3093.2 | 373.2  | 247.5  | 227.5  | 207.5  | 191.6  | 189.6  | 213.5  | 245.5  | 253.4  |
| 57.5° | 4953.1 | 2859.7 | 345.2  | 215.5  | 193.6  | 183.6  | 169.6  | 169.6  | 189.6  | 219.5  | 225.5  |
| 60°   | 3755.7 | 1881.9 | 245.5  | 173.6  | 163.6  | 157.7  | 151.7  | 151.7  | 167.6  | 189.6  | 191.6  |
| 62.5° | 2199.2 | 1013.8 | 157.7  | 139.7  | 139.7  | 133.7  | 123.7  | 123.7  | 139.7  | 151.7  | 153.7  |
| 65°   | 652.6  | 325.3  | 127.7  | 119.7  | 117.7  | 107.8  | 97.8   | 95.8   | 107.8  | 113.7  | 111.8  |
| 67.5° | 187.6  | 149.7  | 105.8  | 99.8   | 97.8   | 81.8   | 75.8   | 73.8   | 75.8   | 71.8   | 69.8   |
| 70°   | 111.8  | 101.8  | 81.8   | 83.8   | 73.8   | 59.9   | 53.9   | 51.9   | 47.9   | 41.9   | 37.9   |
| 72.5° | 61.9   | 61.9   | 59.9   | 63.9   | 51.9   | 39.9   | 33.9   | 27.9   | 22.0   | 18.0   | 16.0   |
| 75°   | 37.9   | 39.9   | 41.9   | 43.9   | 33.9   | 25.9   | 22.0   | 14.0   | 8.0    | 4.0    | 4.0    |
| 77.5° | 25.9   | 27.9   | 29.9   | 31.9   | 27.9   | 23.9   | 18.0   | 10.0   | 2.0    | 0.0    | 0.0    |
| 80°   | 20.0   | 22.0   | 25.9   | 27.9   | 29.9   | 31.9   | 23.9   | 10.0   | 2.0    | 0.0    | 0.0    |
| 82.5° | 22.0   | 23.9   | 29.9   | 27.9   | 27.9   | 27.9   | 22.0   | 10.0   | 2.0    | 0.0    | 0.0    |
| 85°   | 4.0    | 6.0    | 10.0   | 10.0   | 14.0   | 18.0   | 14.0   | 4.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)