

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: P192534

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5MQ-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23831.6 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 193  
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: 25 FT

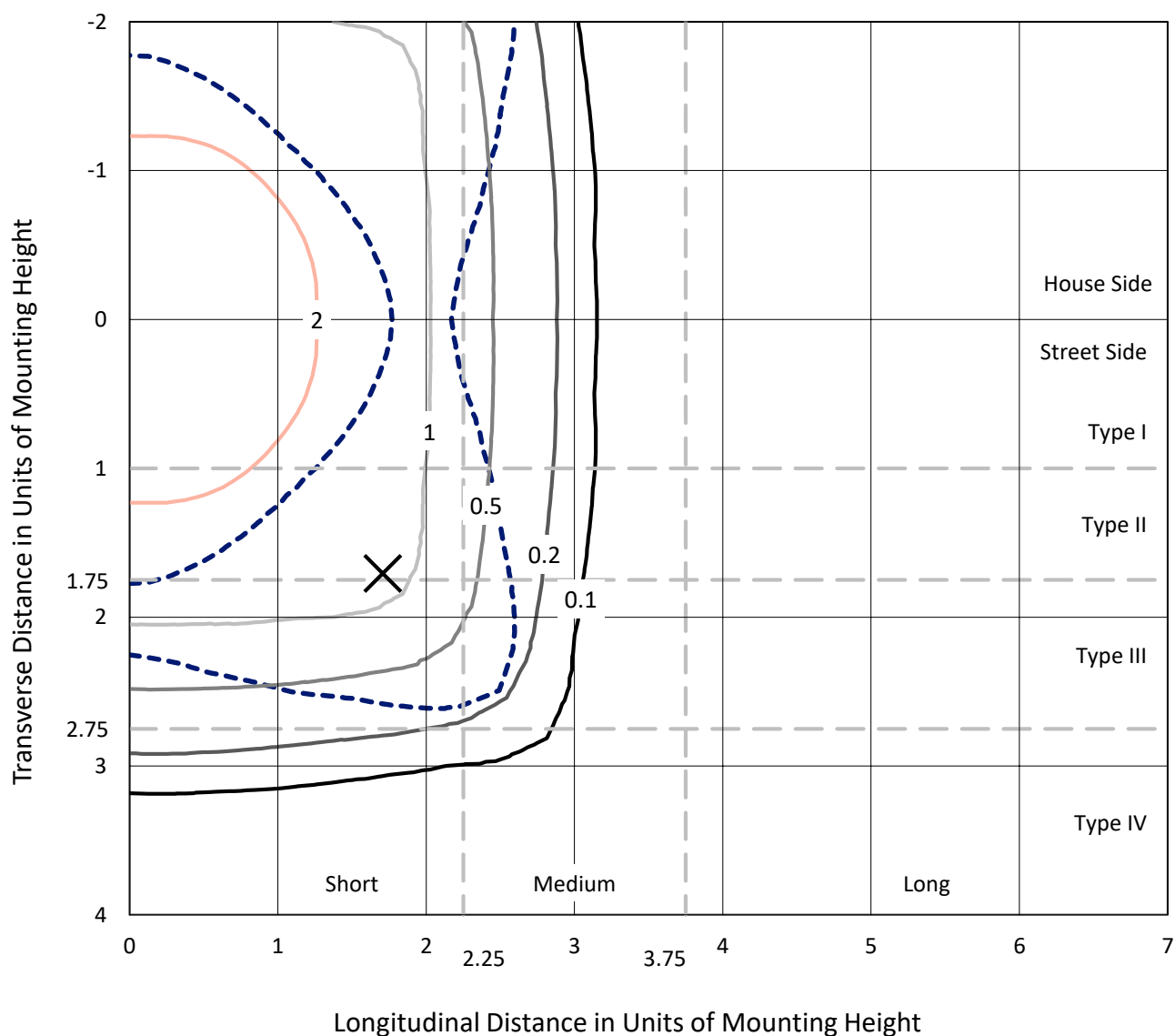


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

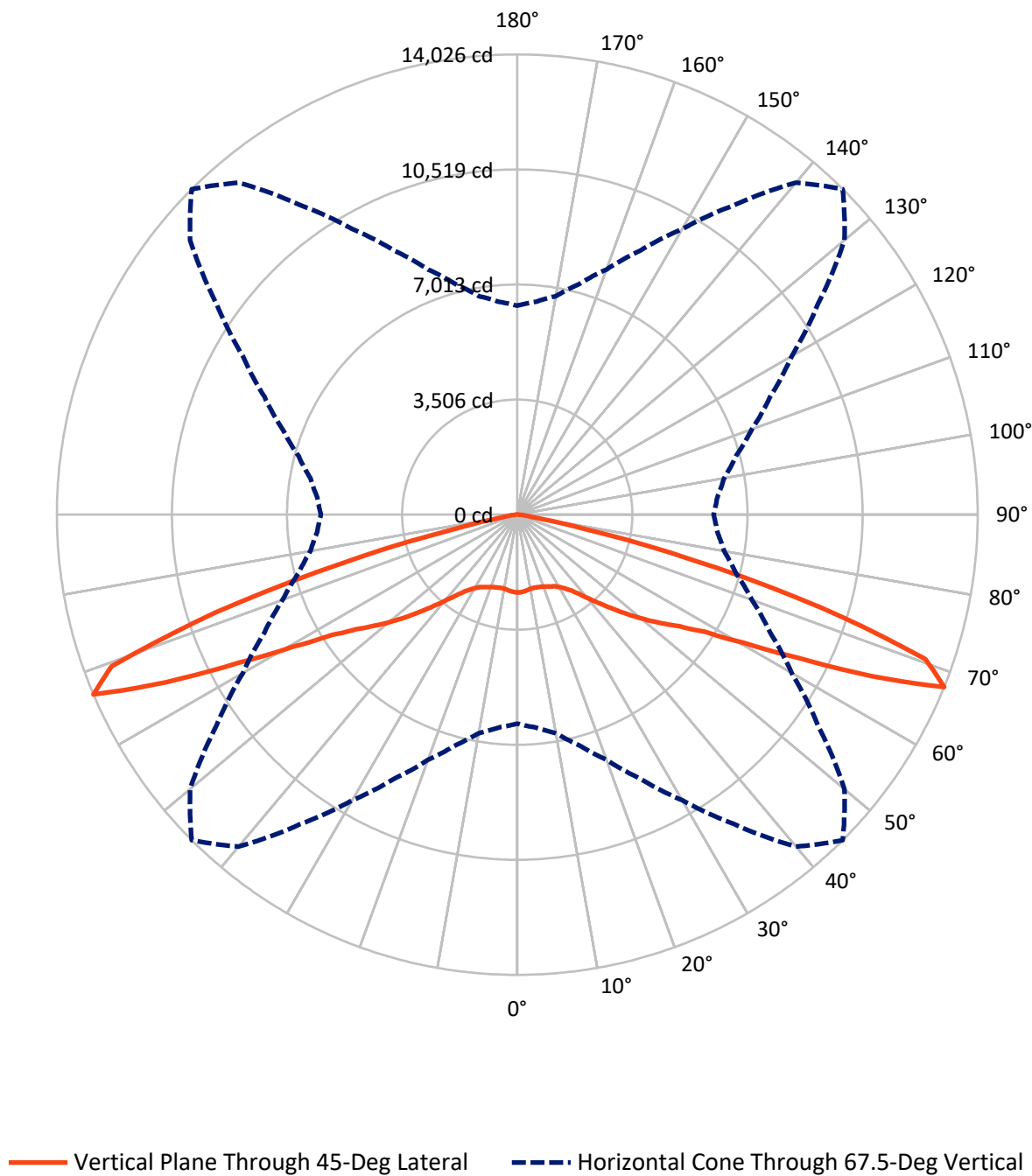


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11915.8  | 0.0    | 11915.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11915.8  | 0.0    | 11915.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23831.6  | 0.0    | 23831.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.3   | 0.9       |
| 10°-20°   | 645.0   | 2.7       |
| 20°-30°   | 1096.5  | 4.6       |
| 30°-40°   | 1792.5  | 7.5       |
| 40°-50°   | 3199.9  | 13.4      |
| 50°-60°   | 5395.1  | 22.6      |
| 60°-70°   | 8372.4  | 35.1      |
| 70°-80°   | 2941.7  | 12.3      |
| 80°-90°   | 166.2   | 0.7       |
| 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°    | 23831.6 | 100.0     |
| 0°-180°   | 23831.6 | 100.0     |

**Coefficient of Utilization**



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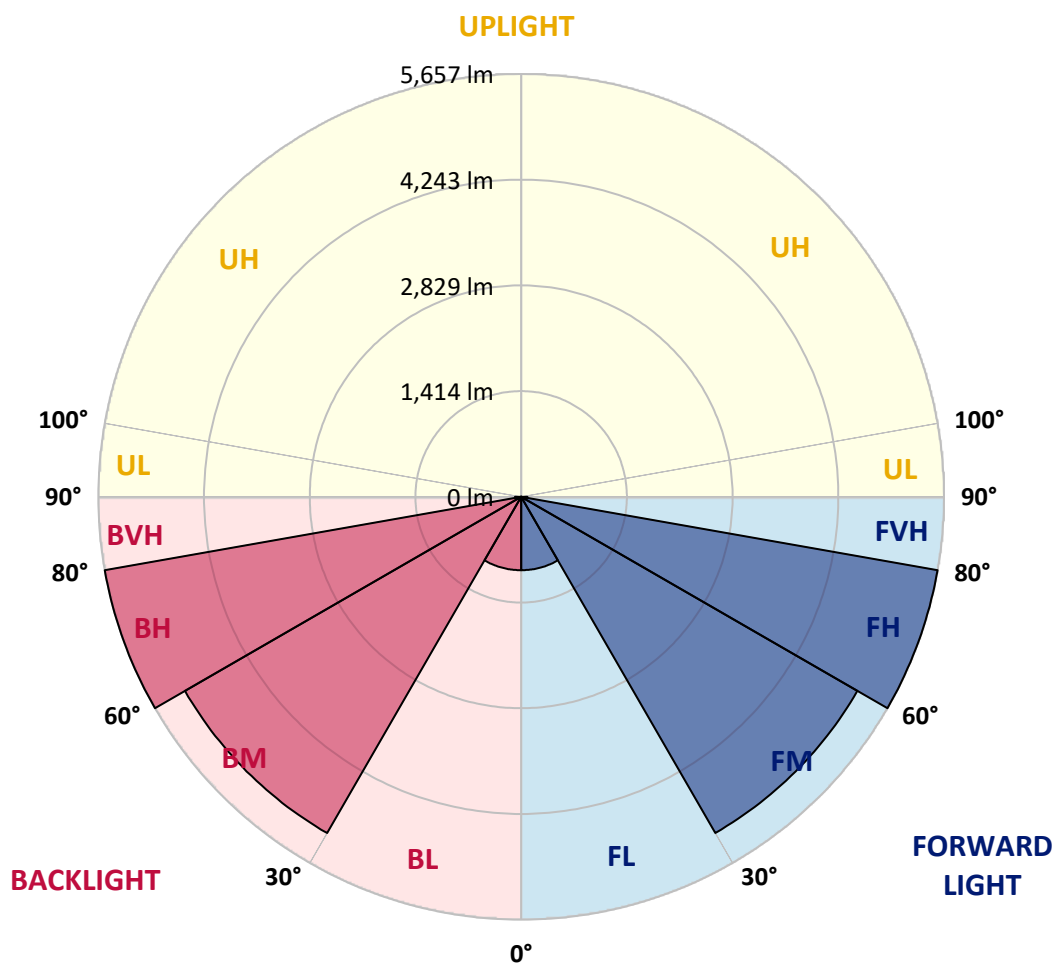
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 981.9  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 5193.7 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 5657.0 | 23.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 83.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 981.9  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 5193.7 | 21.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5657.0 | 23.7      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 83.1   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0  | 2375.0  | 2375.0  | 2375.0  | 2375.0  |
| 2.5°  | 2366.1 | 2368.3 | 2368.3 | 2368.3 | 2367.2 | 2367.2 | 2365.0  | 2367.2  | 2366.1  | 2362.8  | 2364.0  |
| 5°    | 2346.5 | 2348.6 | 2348.6 | 2347.6 | 2350.8 | 2349.7 | 2346.5  | 2348.6  | 2347.6  | 2345.4  | 2346.5  |
| 7.5°  | 2317.9 | 2321.2 | 2321.2 | 2320.1 | 2323.4 | 2322.3 | 2320.1  | 2321.2  | 2321.2  | 2317.9  | 2317.9  |
| 10°   | 2286.1 | 2288.3 | 2288.3 | 2287.3 | 2292.7 | 2292.7 | 2291.6  | 2294.9  | 2296.0  | 2292.7  | 2290.5  |
| 12.5° | 2256.5 | 2259.8 | 2259.8 | 2264.2 | 2269.8 | 2271.9 | 2277.4  | 2281.8  | 2286.1  | 2285.0  | 2280.7  |
| 15°   | 2239.0 | 2241.2 | 2245.6 | 2251.1 | 2259.8 | 2267.5 | 2276.3  | 2286.1  | 2294.9  | 2297.0  | 2290.5  |
| 17.5° | 2228.1 | 2231.4 | 2237.9 | 2245.6 | 2257.7 | 2270.9 | 2283.9  | 2297.0  | 2309.2  | 2313.6  | 2305.9  |
| 20°   | 2224.7 | 2226.9 | 2233.6 | 2246.7 | 2263.1 | 2282.9 | 2301.5  | 2316.9  | 2333.2  | 2338.8  | 2333.2  |
| 22.5° | 2231.4 | 2235.8 | 2243.4 | 2258.7 | 2280.7 | 2305.9 | 2327.8  | 2348.6  | 2369.4  | 2379.3  | 2371.6  |
| 25°   | 2260.9 | 2265.4 | 2275.3 | 2294.9 | 2319.0 | 2345.4 | 2370.5  | 2394.6  | 2413.3  | 2423.2  | 2417.7  |
| 27.5° | 2315.8 | 2321.2 | 2333.2 | 2353.0 | 2379.3 | 2407.7 | 2435.2  | 2454.9  | 2470.3  | 2473.5  | 2467.0  |
| 30°   | 2397.9 | 2410.0 | 2424.3 | 2446.2 | 2476.8 | 2501.0 | 2528.4  | 2545.8  | 2564.6  | 2564.6  | 2559.1  |
| 32.5° | 2526.2 | 2538.2 | 2553.6 | 2574.3 | 2598.5 | 2624.9 | 2648.9  | 2664.3  | 2684.0  | 2685.0  | 2671.9  |
| 35°   | 2718.0 | 2723.4 | 2736.6 | 2749.7 | 2771.7 | 2794.7 | 2815.5  | 2825.3  | 2841.9  | 2842.9  | 2830.8  |
| 37.5° | 2971.1 | 2972.2 | 2981.0 | 2985.4 | 3005.0 | 3030.3 | 3050.1  | 3056.6  | 3072.0  | 3069.7  | 3057.7  |
| 40°   | 3266.0 | 3271.4 | 3274.7 | 3281.3 | 3302.2 | 3326.2 | 3347.0  | 3350.3  | 3366.8  | 3363.4  | 3348.1  |
| 42.5° | 3606.7 | 3609.0 | 3627.6 | 3637.5 | 3657.2 | 3669.3 | 3695.5  | 3698.9  | 3718.5  | 3709.8  | 3692.3  |
| 45°   | 3989.3 | 4008.9 | 4026.5 | 4046.2 | 4067.0 | 4081.3 | 4102.1  | 4097.8  | 4110.9  | 4097.8  | 4087.9  |
| 47.5° | 4391.4 | 4405.8 | 4445.2 | 4475.8 | 4509.7 | 4521.9 | 4551.5  | 4538.3  | 4551.5  | 4532.8  | 4529.6  |
| 50°   | 4834.2 | 4859.5 | 4893.4 | 4928.4 | 4964.6 | 4984.4 | 5022.7  | 5006.3  | 5023.8  | 5006.3  | 4996.4  |
| 52.5° | 5270.4 | 5277.0 | 5351.5 | 5403.0 | 5453.4 | 5476.5 | 5499.4  | 5491.8  | 5492.9  | 5491.8  | 5482.0  |
| 55°   | 5684.6 | 5700.0 | 5774.6 | 5844.8 | 5932.3 | 5997.0 | 6036.5  | 6032.1  | 6022.3  | 6012.4  | 5995.9  |
| 57.5° | 6151.6 | 6166.9 | 6252.4 | 6339.0 | 6438.7 | 6530.8 | 6610.7  | 6693.0  | 6724.8  | 6733.5  | 6697.4  |
| 60°   | 6782.9 | 6781.7 | 6895.7 | 7000.9 | 7143.4 | 7280.4 | 7455.8  | 7634.4  | 7839.4  | 7934.6  | 7808.6  |
| 62.5° | 7425.0 | 7451.4 | 7615.7 | 7802.1 | 8095.8 | 8381.9 | 8705.1  | 9022.9  | 9347.3  | 9611.4  | 9331.0  |
| 65°   | 7348.3 | 7449.2 | 7693.6 | 8115.6 | 8658.0 | 9302.5 | 9999.4  | 10737.0 | 11403.4 | 11861.5 | 11347.4 |
| 67.5° | 6368.6 | 6512.2 | 6761.0 | 7273.8 | 7952.2 | 8881.5 | 10052.1 | 11510.8 | 13206.1 | 14025.9 | 13010.0 |
| 70°   | 4616.1 | 4778.4 | 5039.1 | 5540.0 | 6211.8 | 7095.2 | 8366.5  | 10117.9 | 12362.3 | 13188.6 | 12069.7 |
| 72.5° | 2297.0 | 2384.8 | 2545.8 | 2864.8 | 3373.4 | 4090.1 | 5243.1  | 6926.4  | 8912.3  | 9670.6  | 8648.1  |
| 75°   | 780.3  | 820.9  | 848.3  | 952.4  | 1113.5 | 1395.1 | 1968.3  | 3028.1  | 4619.4  | 5537.8  | 4553.7  |
| 77.5° | 450.4  | 451.6  | 470.2  | 488.8  | 516.1  | 546.9  | 623.6   | 818.7   | 1416.0  | 2011.0  | 1465.2  |
| 80°   | 291.5  | 290.4  | 305.8  | 320.0  | 338.6  | 354.0  | 358.4   | 379.2   | 437.2   | 518.4   | 463.6   |
| 82.5° | 151.3  | 169.9  | 203.9  | 222.5  | 257.6  | 264.1  | 255.3   | 247.7   | 261.9   | 271.8   | 278.4   |
| 85°   | 83.2   | 72.3   | 108.5  | 140.3  | 155.5  | 157.8  | 157.8   | 149.0   | 154.5   | 151.3   | 164.4   |
| 87.5° | 38.4   | 35.1   | 42.7   | 69.1   | 73.4   | 62.5   | 65.8    | 58.1    | 41.6    | 40.5    | 46.0    |
| 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):**

|       | 55°     | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2375.0  | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0 | 2375.0 |
| 2.5°  | 2364.0  | 2365.0 | 2365.0 | 2368.3 | 2369.4 | 2371.6 | 2373.8 | 2375.0 |
| 5°    | 2345.4  | 2348.6 | 2346.5 | 2349.7 | 2349.7 | 2352.0 | 2352.0 | 2353.0 |
| 7.5°  | 2317.9  | 2321.2 | 2321.2 | 2321.2 | 2320.1 | 2323.4 | 2323.4 | 2323.4 |
| 10°   | 2289.4  | 2291.6 | 2290.5 | 2288.3 | 2286.1 | 2289.4 | 2288.3 | 2287.3 |
| 12.5° | 2280.7  | 2275.3 | 2270.9 | 2268.7 | 2264.2 | 2265.4 | 2262.0 | 2262.0 |
| 15°   | 2286.1  | 2276.3 | 2268.7 | 2265.4 | 2260.9 | 2258.7 | 2256.5 | 2257.7 |
| 17.5° | 2300.4  | 2288.3 | 2278.5 | 2273.0 | 2267.5 | 2264.2 | 2259.8 | 2260.9 |
| 20°   | 2325.6  | 2311.4 | 2297.0 | 2286.1 | 2276.3 | 2270.9 | 2267.5 | 2266.5 |
| 22.5° | 2362.8  | 2342.1 | 2321.2 | 2304.9 | 2291.6 | 2283.9 | 2280.7 | 2278.5 |
| 25°   | 2405.6  | 2382.6 | 2358.5 | 2339.9 | 2326.6 | 2316.9 | 2310.3 | 2310.3 |
| 27.5° | 2459.3  | 2440.7 | 2418.8 | 2396.8 | 2384.8 | 2375.0 | 2370.5 | 2368.3 |
| 30°   | 2549.1  | 2531.6 | 2514.0 | 2493.3 | 2477.9 | 2468.0 | 2460.4 | 2453.9 |
| 32.5° | 2664.3  | 2650.0 | 2635.8 | 2620.4 | 2606.2 | 2593.0 | 2580.9 | 2575.5 |
| 35°   | 2826.4  | 2815.5 | 2805.7 | 2788.1 | 2782.7 | 2774.9 | 2768.4 | 2762.8 |
| 37.5° | 3050.1  | 3045.6 | 3045.6 | 3027.0 | 3022.6 | 3019.4 | 3012.8 | 3013.8 |
| 40°   | 3343.8  | 3348.1 | 3342.7 | 3336.1 | 3332.7 | 3324.0 | 3324.0 | 3331.7 |
| 42.5° | 3691.1  | 3694.5 | 3706.5 | 3695.5 | 3707.6 | 3696.7 | 3690.0 | 3695.5 |
| 45°   | 4094.5  | 4106.5 | 4130.6 | 4119.6 | 4127.4 | 4108.7 | 4085.7 | 4086.9 |
| 47.5° | 4547.1  | 4558.1 | 4567.9 | 4560.3 | 4561.3 | 4530.7 | 4500.0 | 4492.3 |
| 50°   | 5017.3  | 5021.7 | 5027.1 | 5016.2 | 5018.4 | 4984.4 | 4949.3 | 4950.4 |
| 52.5° | 5482.0  | 5502.8 | 5524.7 | 5495.0 | 5488.5 | 5450.2 | 5400.8 | 5381.1 |
| 55°   | 6013.5  | 6043.0 | 6017.9 | 5966.3 | 5914.9 | 5863.3 | 5798.7 | 5787.7 |
| 57.5° | 6668.8  | 6618.5 | 6539.5 | 6442.0 | 6370.8 | 6298.5 | 6232.7 | 6205.3 |
| 60°   | 7580.7  | 7391.1 | 7248.6 | 7103.9 | 7013.1 | 6924.2 | 6837.7 | 6824.5 |
| 62.5° | 8869.5  | 8541.8 | 8258.1 | 7958.8 | 7714.4 | 7523.7 | 7371.4 | 7328.6 |
| 65°   | 10484.9 | 9710.1 | 9038.3 | 8411.5 | 7866.7 | 7455.8 | 7197.1 | 7083.2 |
| 67.5° | 11179.7 | 9649.9 | 8497.9 | 7608.0 | 6895.7 | 6398.1 | 6118.7 | 5979.5 |
| 70°   | 9824.0  | 8002.5 | 6749.9 | 5858.9 | 5210.1 | 4679.7 | 4426.5 | 4277.5 |
| 72.5° | 6758.7  | 5090.7 | 4025.4 | 3285.7 | 2767.3 | 2323.4 | 2148.0 | 2134.9 |
| 75°   | 3034.6  | 2010.0 | 1385.3 | 1067.5 | 898.6  | 781.4  | 745.2  | 717.9  |
| 77.5° | 849.4   | 628.0  | 560.1  | 523.9  | 488.8  | 448.3  | 432.8  | 436.2  |
| 80°   | 413.2   | 390.2  | 374.9  | 351.9  | 320.0  | 286.0  | 270.8  | 277.3  |
| 82.5° | 274.0   | 270.8  | 280.6  | 264.1  | 218.1  | 185.2  | 155.5  | 142.5  |
| 85°   | 166.6   | 168.8  | 172.1  | 173.1  | 146.9  | 103.0  | 70.2   | 78.8   |
| 87.5° | 65.8    | 75.6   | 82.2   | 85.4   | 80.0   | 49.2   | 39.5   | 40.5   |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)