

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: P194441

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL2-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19529 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 191  
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



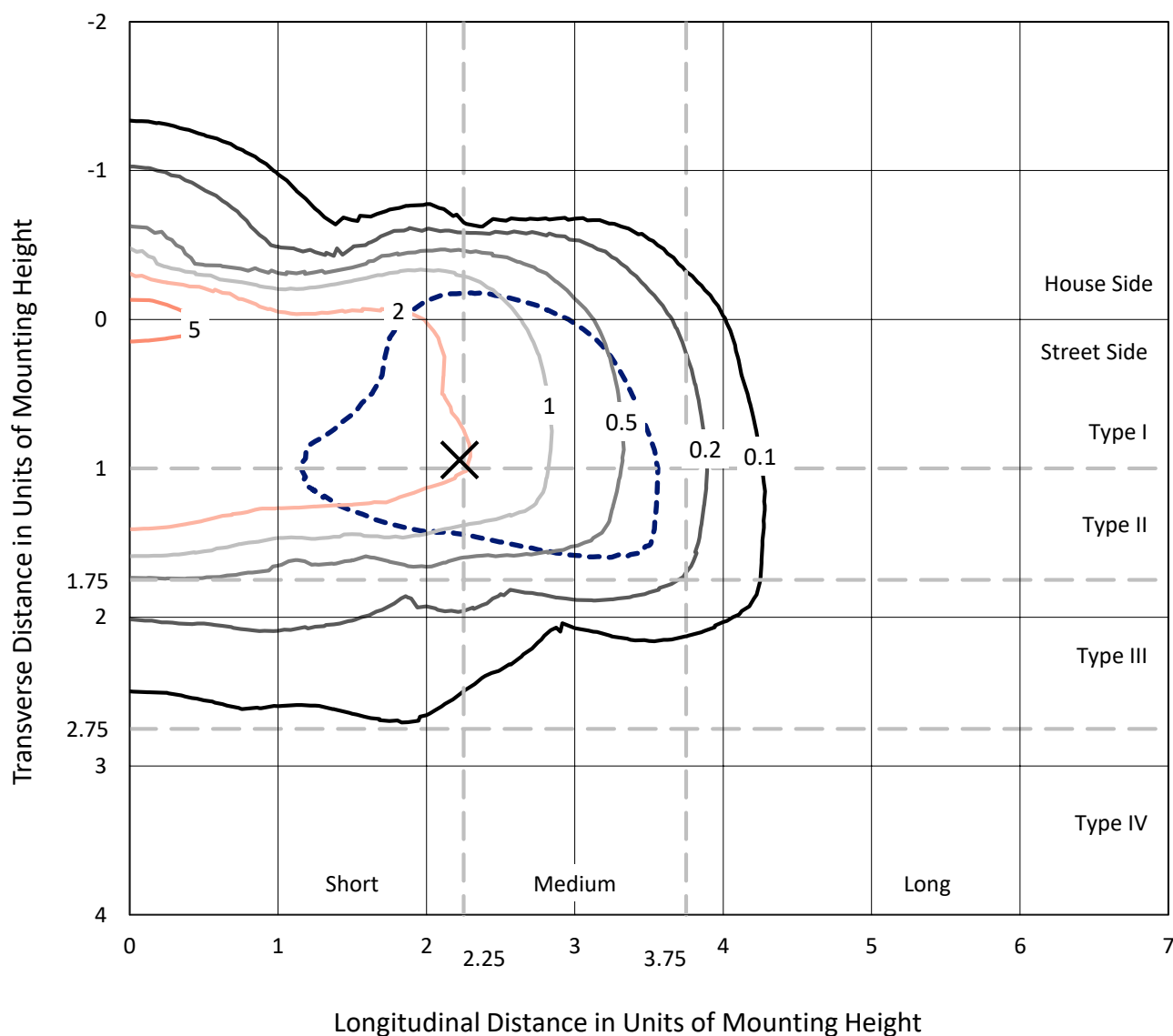
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

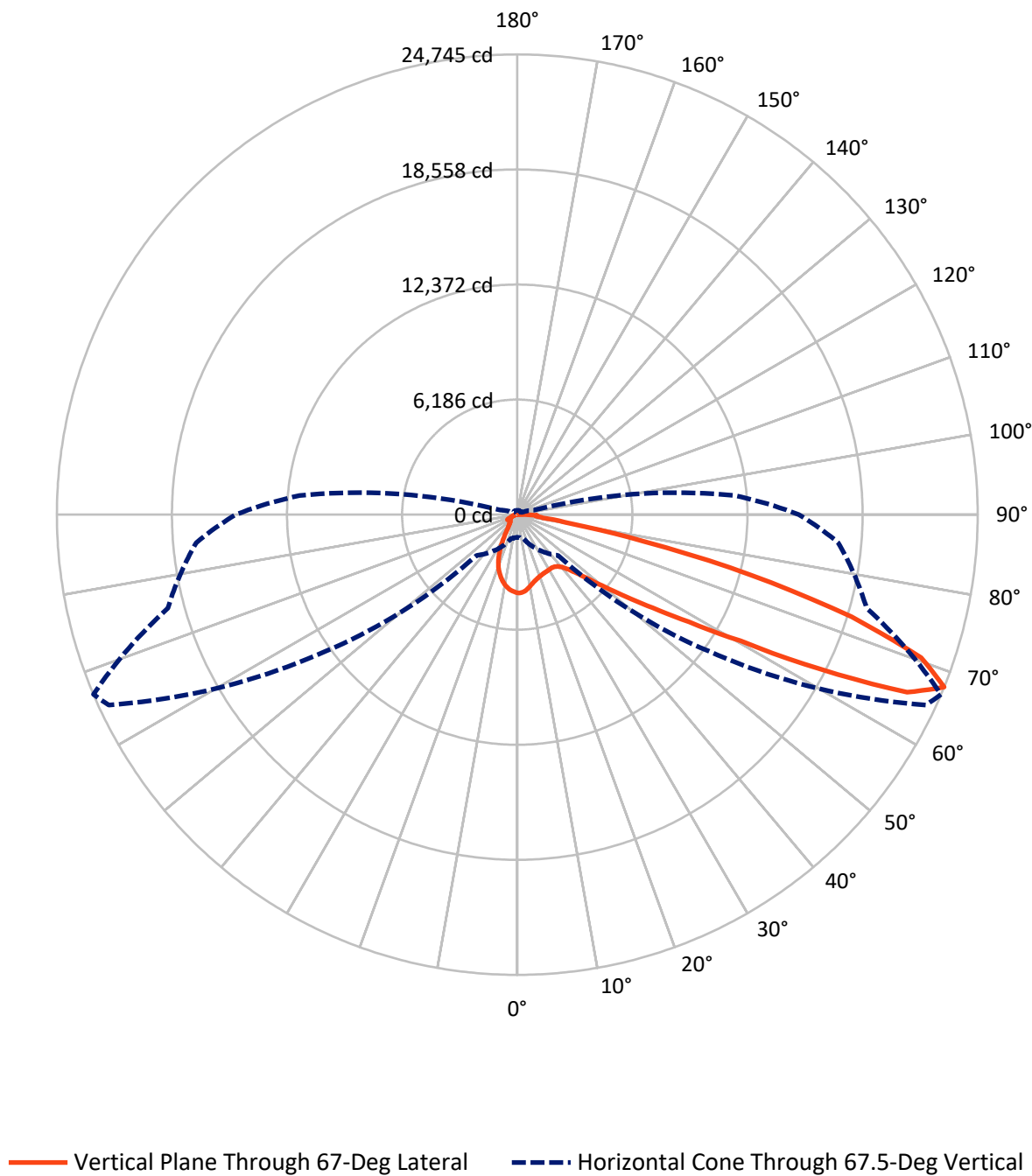


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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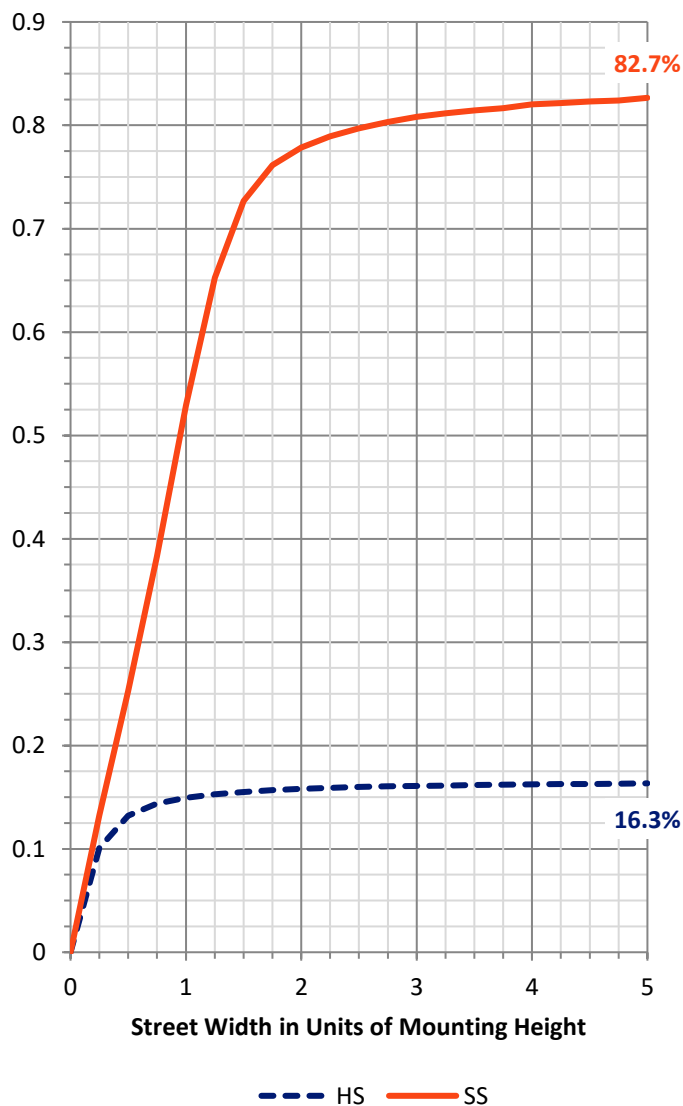
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3235.7   | 0.0    | 3235.7  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 16293.3  | 0.0    | 16293.3 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 19529.0  | 0.0    | 19529.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 359.4   | 1.8       |
| 10°-20°   | 831.5   | 4.3       |
| 20°-30°   | 1127.2  | 5.8       |
| 30°-40°   | 1602.4  | 8.2       |
| 40°-50°   | 2680.9  | 13.7      |
| 50°-60°   | 4241.1  | 21.7      |
| 60°-70°   | 5402.7  | 27.7      |
| 70°-80°   | 2829.9  | 14.5      |
| 80°-90°   | 453.9   | 2.3       |
| 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°    | 19529.0 | 100.0     |
| 0°-180°   | 19529.0 | 100.0     |

**Coefficient of Utilization**



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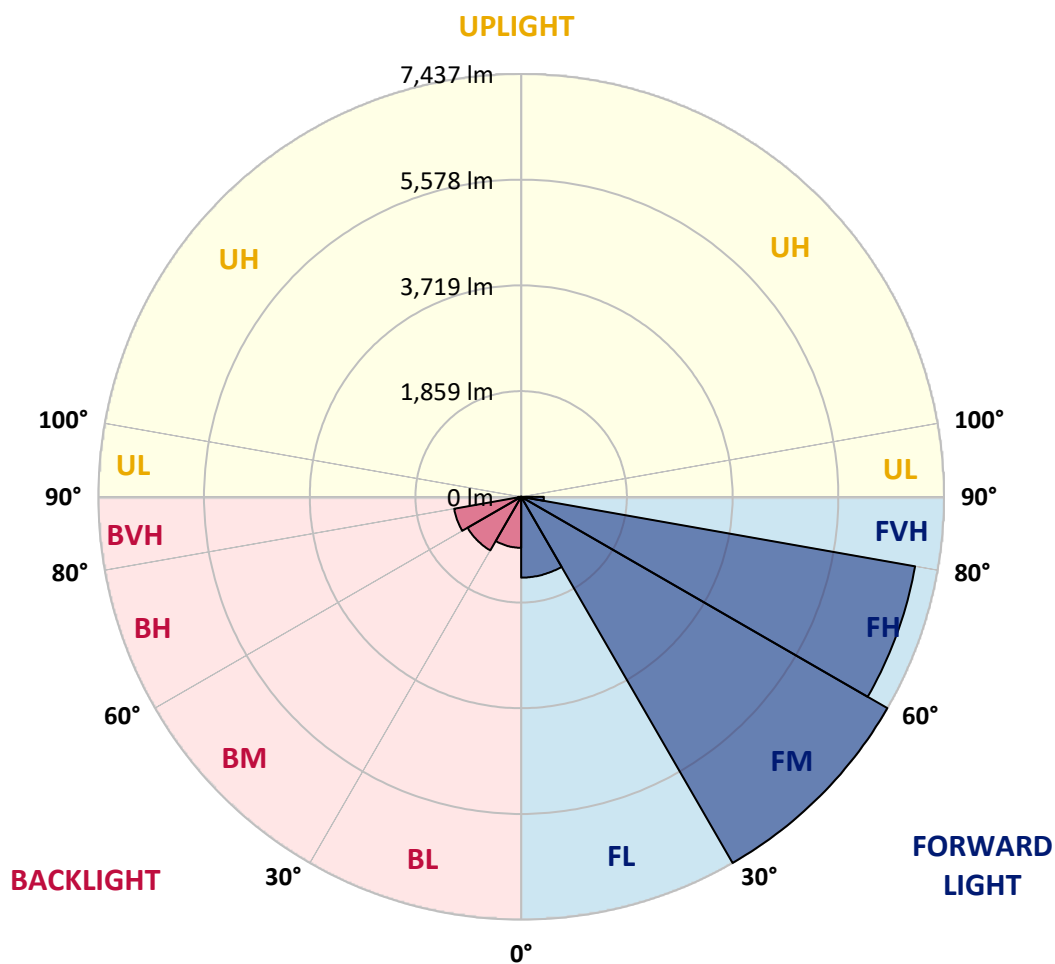
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1421.2 | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 7437.0 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 7035.9 | 36.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 399.1  | 2.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 896.9  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1087.3 | 5.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1196.8 | 6.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 54.8   | 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°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4  | 4212.4  | 4212.4  | 4212.4  | 4212.4  | 4212.4  |
| 2.5°  | 4039.0 | 4045.8 | 4066.9 | 4080.4 | 4141.1 | 4167.1  | 4185.4  | 4203.7  | 4206.6  | 4215.2  | 4206.6  |
| 5°    | 3615.3 | 3629.7 | 3669.2 | 3713.5 | 3831.0 | 3923.4  | 4020.7  | 4121.8  | 4140.1  | 4205.6  | 4223.9  |
| 7.5°  | 3286.9 | 3283.0 | 3315.8 | 3368.7 | 3489.1 | 3617.2  | 3787.7  | 3988.9  | 4028.4  | 4175.8  | 4247.0  |
| 10°   | 3047.1 | 3044.2 | 3078.9 | 3133.7 | 3248.3 | 3369.7  | 3562.3  | 3837.7  | 3893.6  | 4128.6  | 4269.2  |
| 12.5° | 2869.9 | 2870.8 | 2905.5 | 2966.2 | 3082.7 | 3205.0  | 3400.5  | 3691.4  | 3762.6  | 4073.7  | 4292.3  |
| 15°   | 2752.4 | 2760.1 | 2788.0 | 2852.5 | 2966.2 | 3088.5  | 3280.1  | 3581.6  | 3661.5  | 4030.3  | 4318.3  |
| 17.5° | 2712.9 | 2725.4 | 2735.0 | 2782.2 | 2879.5 | 3001.8  | 3189.6  | 3500.7  | 3585.4  | 4000.5  | 4341.4  |
| 20°   | 2749.5 | 2763.9 | 2745.6 | 2762.0 | 2823.6 | 2931.5  | 3118.3  | 3437.1  | 3523.8  | 3966.8  | 4344.3  |
| 22.5° | 2906.5 | 2920.0 | 2866.0 | 2818.8 | 2815.0 | 2880.5  | 3059.6  | 3387.0  | 3476.6  | 3941.7  | 4345.3  |
| 25°   | 3182.9 | 3191.5 | 3101.0 | 2991.2 | 2884.3 | 2862.2  | 3018.2  | 3352.4  | 3447.7  | 3919.6  | 4327.0  |
| 27.5° | 3521.9 | 3528.6 | 3424.6 | 3262.8 | 3048.0 | 2905.5  | 3003.7  | 3332.1  | 3431.3  | 3900.3  | 4296.1  |
| 30°   | 3934.0 | 3965.8 | 3826.2 | 3622.0 | 3309.0 | 3033.6  | 3032.6  | 3321.5  | 3413.0  | 3867.6  | 4235.5  |
| 32.5° | 4355.9 | 4369.3 | 4273.0 | 4066.0 | 3660.5 | 3258.9  | 3113.5  | 3329.2  | 3408.2  | 3828.1  | 4158.4  |
| 35°   | 4783.4 | 4800.8 | 4738.2 | 4571.6 | 4141.1 | 3589.3  | 3271.5  | 3374.5  | 3438.1  | 3814.6  | 4104.5  |
| 37.5° | 5337.2 | 5360.3 | 5273.6 | 5081.0 | 4725.7 | 4037.1  | 3534.4  | 3488.1  | 3529.6  | 3853.1  | 4088.1  |
| 40°   | 6212.6 | 6202.0 | 5948.7 | 5661.7 | 5365.1 | 4610.1  | 3910.0  | 3680.8  | 3704.8  | 3977.4  | 4138.2  |
| 42.5° | 7231.5 | 7205.5 | 6769.2 | 6318.5 | 6068.1 | 5303.5  | 4406.9  | 4014.9  | 4010.1  | 4222.0  | 4314.4  |
| 45°   | 8044.3 | 8023.1 | 7630.2 | 7074.5 | 6874.2 | 6093.2  | 5049.2  | 4512.8  | 4477.2  | 4610.1  | 4639.9  |
| 47.5° | 8484.4 | 8485.4 | 8259.1 | 7805.5 | 7800.7 | 7096.7  | 5874.6  | 5233.2  | 5171.5  | 5234.1  | 5202.4  |
| 50°   | 8330.3 | 8350.6 | 8326.5 | 8182.0 | 8646.2 | 8412.2  | 6952.2  | 6237.6  | 6113.4  | 6175.0  | 6052.7  |
| 52.5° | 7584.9 | 7610.9 | 7753.5 | 7975.0 | 9001.6 | 10002.2 | 8535.5  | 7485.7  | 7341.3  | 7319.1  | 7183.4  |
| 55°   | 6263.6 | 6295.4 | 6586.3 | 7188.2 | 8705.9 | 11070.2 | 11033.6 | 9076.7  | 8846.5  | 8637.5  | 8579.8  |
| 57.5° | 4317.3 | 4370.3 | 4838.3 | 5732.0 | 7749.6 | 11392.8 | 14008.4 | 11344.7 | 10876.6 | 10146.6 | 10160.1 |
| 60°   | 2433.6 | 2495.2 | 3047.1 | 3858.9 | 5819.7 | 11042.3 | 16271.6 | 14779.8 | 13791.8 | 11913.8 | 12014.0 |
| 62.5° | 1547.6 | 1614.1 | 2033.0 | 2681.1 | 3492.0 | 9154.7  | 17199.0 | 19555.6 | 18300.7 | 14092.2 | 14190.5 |
| 65°   | 1252.9 | 1281.8 | 1479.2 | 2213.1 | 2535.7 | 5515.4  | 16495.0 | 23489.6 | 23021.6 | 16857.1 | 16398.7 |
| 67.5° | 1223.1 | 1232.7 | 1334.8 | 1857.7 | 2431.7 | 3100.0  | 13157.1 | 24225.4 | 24744.5 | 19439.1 | 17318.4 |
| 70°   | 1208.6 | 1242.3 | 1504.3 | 1773.0 | 2328.6 | 2614.7  | 7906.6  | 22208.8 | 23028.3 | 20114.2 | 16094.4 |
| 72.5° | 586.5  | 584.6  | 757.0  | 1603.5 | 2623.3 | 2711.9  | 4062.1  | 17969.5 | 18791.9 | 17426.3 | 13225.5 |
| 75°   | 472.9  | 432.4  | 413.1  | 587.5  | 2522.2 | 2800.5  | 2588.7  | 12364.5 | 12959.7 | 11683.7 | 8130.0  |
| 77.5° | 448.8  | 400.6  | 366.9  | 367.9  | 1066.1 | 2970.0  | 2192.9  | 6843.4  | 7016.7  | 5277.5  | 2227.5  |
| 80°   | 371.7  | 327.4  | 303.4  | 341.9  | 516.2  | 2828.5  | 2371.0  | 3097.2  | 2841.9  | 1296.3  | 741.5   |
| 82.5° | 258.1  | 235.0  | 228.2  | 287.0  | 413.1  | 2015.7  | 2757.2  | 1664.1  | 1395.5  | 649.1   | 457.4   |
| 85°   | 164.7  | 140.6  | 156.0  | 209.0  | 321.7  | 930.3   | 2840.0  | 1297.2  | 1031.4  | 412.2   | 258.1   |
| 87.5° | 76.1   | 61.6   | 77.0   | 115.6  | 209.9  | 320.7   | 2702.3  | 1457.1  | 1062.2  | 217.6   | 162.8   |
| 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°    | 4212.4  | 4212.4  | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 | 4212.4 |
| 2.5°  | 4214.3  | 4196.0  | 4181.5 | 4154.6 | 4124.7 | 4095.8 | 4069.8 | 4037.1 | 4027.5 | 4018.8 | 4032.3 |
| 5°    | 4227.8  | 4209.5  | 4156.5 | 4073.7 | 3982.2 | 3896.5 | 3810.8 | 3737.6 | 3692.3 | 3667.3 | 3681.7 |
| 7.5°  | 4248.0  | 4222.0  | 4112.2 | 3960.0 | 3795.4 | 3645.1 | 3490.1 | 3365.8 | 3274.4 | 3231.0 | 3243.5 |
| 10°   | 4266.3  | 4216.2  | 4037.1 | 3808.8 | 3568.1 | 3344.7 | 3100.0 | 2897.8 | 2747.6 | 2668.6 | 2687.9 |
| 12.5° | 4274.0  | 4194.1  | 3932.1 | 3620.1 | 3289.8 | 2962.3 | 2602.1 | 2299.8 | 2084.0 | 2005.1 | 1988.7 |
| 15°   | 4281.7  | 4169.0  | 3816.5 | 3405.3 | 2953.7 | 2490.4 | 1985.8 | 1623.7 | 1444.6 | 1405.1 | 1396.4 |
| 17.5° | 4283.6  | 4125.7  | 3685.6 | 3172.3 | 2559.8 | 1929.0 | 1357.9 | 1127.7 | 1128.7 | 1192.2 | 1200.0 |
| 20°   | 4263.4  | 4061.2  | 3526.7 | 2882.4 | 2087.9 | 1333.8 | 932.2  | 892.7  | 1038.2 | 1197.1 | 1216.3 |
| 22.5° | 4217.2  | 3975.4  | 3346.6 | 2544.4 | 1547.6 | 878.3  | 721.3  | 764.7  | 952.5  | 1147.0 | 1169.1 |
| 25°   | 4158.4  | 3871.4  | 3133.7 | 2152.4 | 1024.7 | 627.9  | 604.8  | 657.8  | 784.9  | 914.9  | 927.4  |
| 27.5° | 4078.5  | 3748.2  | 2894.9 | 1703.6 | 665.5  | 517.2  | 532.6  | 568.2  | 620.2  | 678.0  | 683.8  |
| 30°   | 3975.4  | 3600.8  | 2639.7 | 1242.3 | 502.7  | 465.2  | 487.3  | 506.6  | 528.7  | 561.5  | 564.3  |
| 32.5° | 3857.0  | 3459.3  | 2377.8 | 858.1  | 445.9  | 438.2  | 455.5  | 465.2  | 482.5  | 502.7  | 504.6  |
| 35°   | 3757.8  | 3324.4  | 2106.2 | 606.7  | 421.8  | 418.0  | 429.5  | 433.4  | 449.7  | 471.9  | 473.8  |
| 37.5° | 3701.0  | 3214.6  | 1825.9 | 489.2  | 405.4  | 399.7  | 406.4  | 406.4  | 429.5  | 462.3  | 467.1  |
| 40°   | 3704.8  | 3154.0  | 1545.7 | 442.0  | 392.0  | 384.3  | 385.2  | 385.2  | 415.1  | 450.7  | 453.6  |
| 42.5° | 3809.8  | 3169.4  | 1297.2 | 423.7  | 381.4  | 372.7  | 367.9  | 370.8  | 395.8  | 418.9  | 420.9  |
| 45°   | 4056.3  | 3278.2  | 1064.2 | 412.2  | 370.8  | 367.9  | 357.3  | 356.3  | 366.0  | 376.6  | 376.6  |
| 47.5° | 4460.8  | 3493.0  | 906.2  | 404.5  | 362.1  | 361.1  | 348.6  | 336.1  | 335.1  | 339.0  | 339.0  |
| 50°   | 5118.6  | 3862.8  | 800.3  | 395.8  | 356.3  | 348.6  | 334.2  | 314.9  | 308.2  | 311.1  | 311.1  |
| 52.5° | 6104.7  | 4522.5  | 759.8  | 384.3  | 343.8  | 331.3  | 314.9  | 295.7  | 289.9  | 290.8  | 290.8  |
| 55°   | 7398.1  | 5535.6  | 754.1  | 370.8  | 330.3  | 310.1  | 296.6  | 282.2  | 275.4  | 277.4  | 277.4  |
| 57.5° | 8978.5  | 6936.8  | 857.1  | 349.6  | 312.0  | 288.9  | 281.2  | 271.6  | 266.8  | 269.7  | 268.7  |
| 60°   | 10899.7 | 8770.4  | 1271.2 | 327.4  | 293.7  | 269.7  | 269.7  | 261.9  | 258.1  | 261.0  | 260.0  |
| 62.5° | 13112.8 | 10876.6 | 1787.4 | 311.1  | 274.5  | 254.2  | 258.1  | 254.2  | 250.4  | 252.3  | 251.4  |
| 65°   | 15075.5 | 12249.0 | 1673.8 | 298.5  | 255.2  | 239.8  | 246.5  | 244.6  | 241.7  | 243.7  | 242.7  |
| 67.5° | 15132.3 | 11740.5 | 939.9  | 285.1  | 236.9  | 225.4  | 235.0  | 234.0  | 232.1  | 234.0  | 233.1  |
| 70°   | 13504.8 | 9913.6  | 529.7  | 260.0  | 217.6  | 208.0  | 221.5  | 220.5  | 218.6  | 222.5  | 221.5  |
| 72.5° | 10819.8 | 7193.9  | 387.1  | 229.2  | 198.4  | 189.7  | 205.1  | 204.2  | 204.2  | 209.9  | 207.1  |
| 75°   | 6226.1  | 3701.9  | 309.1  | 196.5  | 178.2  | 171.4  | 184.9  | 185.9  | 187.8  | 195.5  | 189.7  |
| 77.5° | 1774.9  | 1153.7  | 252.3  | 166.6  | 153.1  | 150.2  | 163.7  | 165.6  | 166.6  | 175.3  | 167.6  |
| 80°   | 659.7   | 531.6   | 208.0  | 139.6  | 125.2  | 126.2  | 138.7  | 141.6  | 142.5  | 151.2  | 141.6  |
| 82.5° | 420.9   | 350.5   | 168.5  | 107.9  | 98.2   | 97.3   | 112.7  | 116.5  | 116.5  | 117.5  | 111.7  |
| 85°   | 245.6   | 209.9   | 127.1  | 78.0   | 69.3   | 66.5   | 83.8   | 90.5   | 87.6   | 85.7   | 81.9   |
| 87.5° | 164.7   | 144.5   | 78.0   | 43.3   | 37.6   | 35.6   | 49.1   | 53.9   | 52.0   | 49.1   | 46.2   |
| 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)