

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: P200250

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-AFL-7050-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11156 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 129  
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

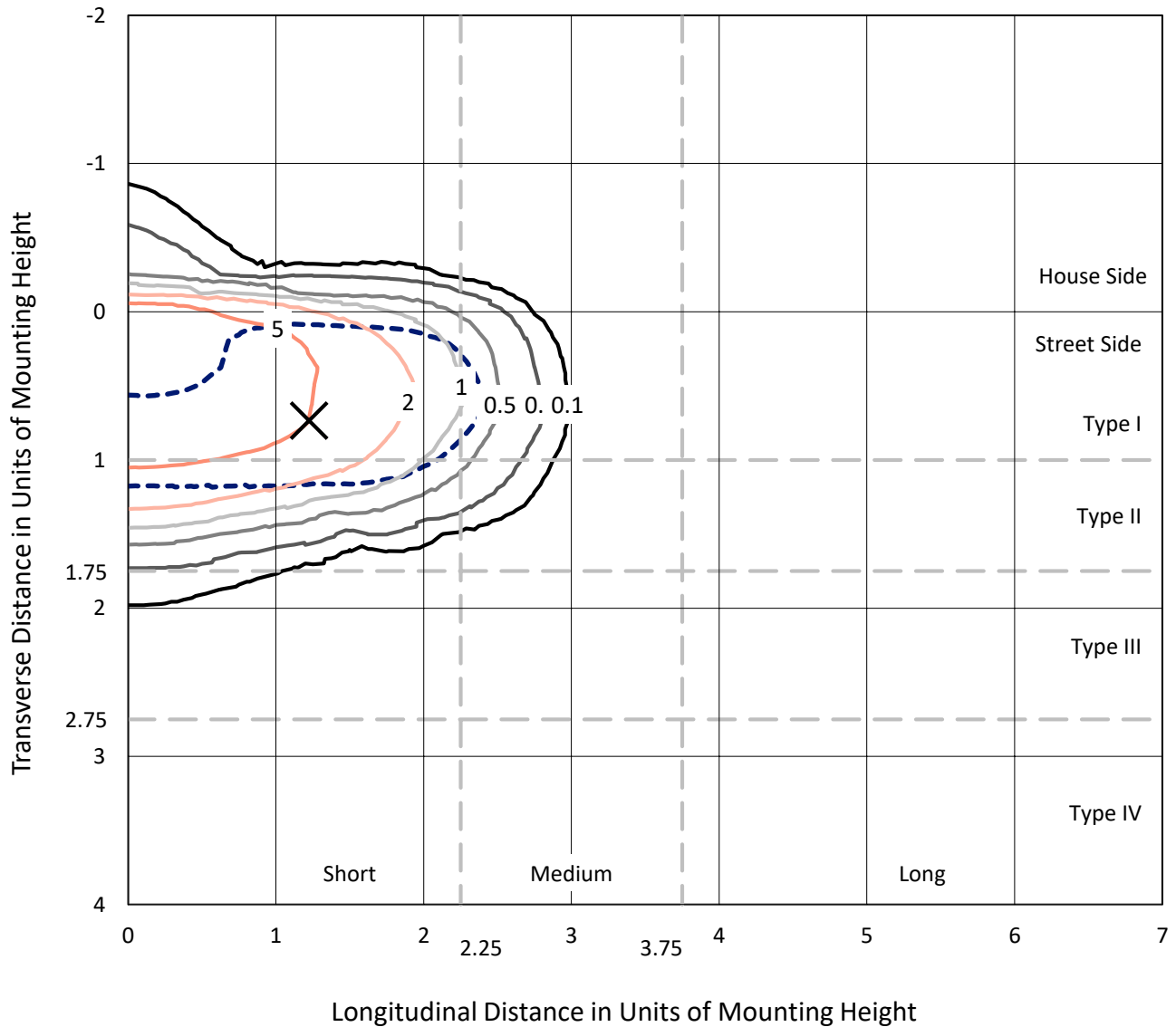


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

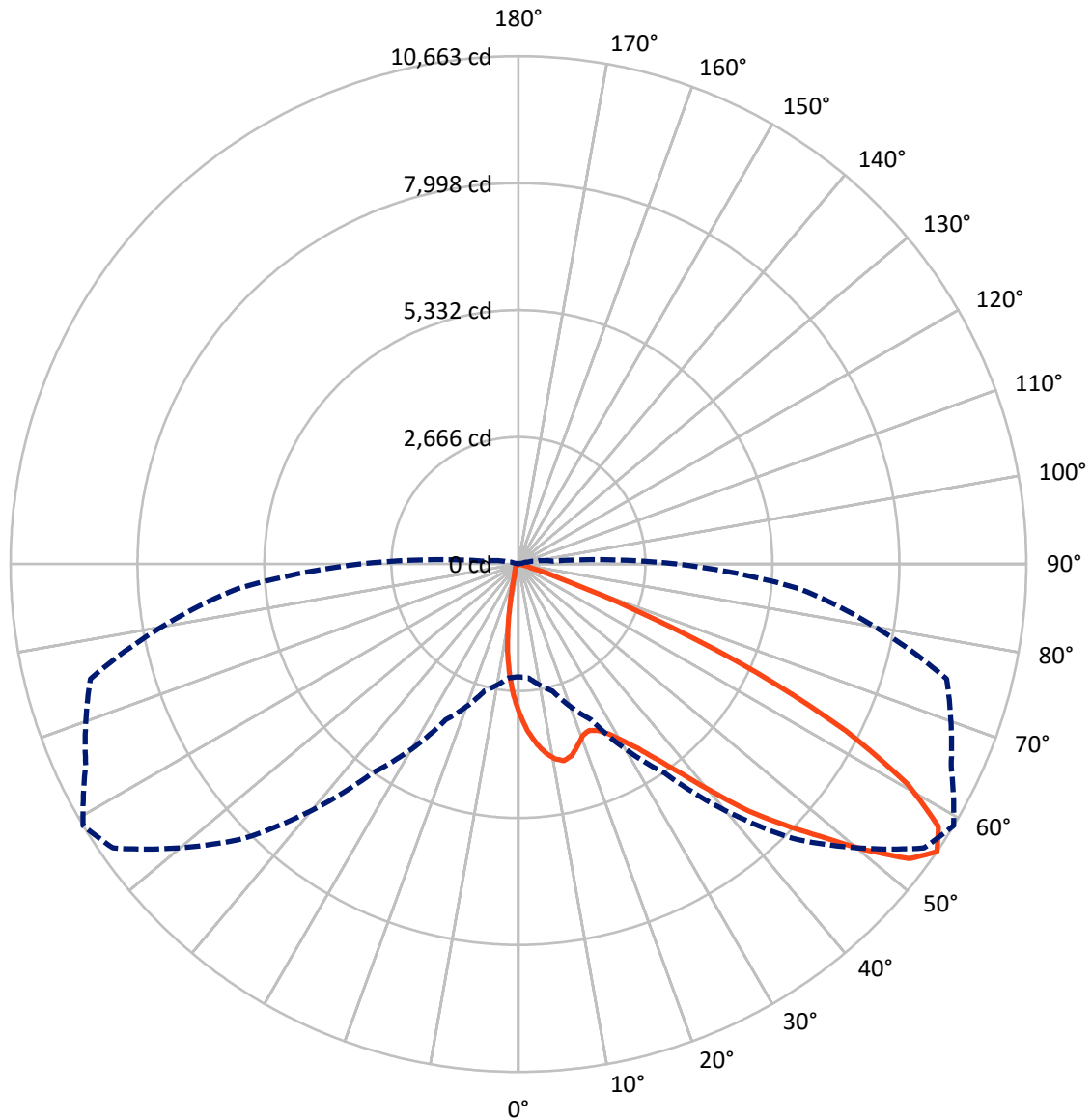


Based on 20 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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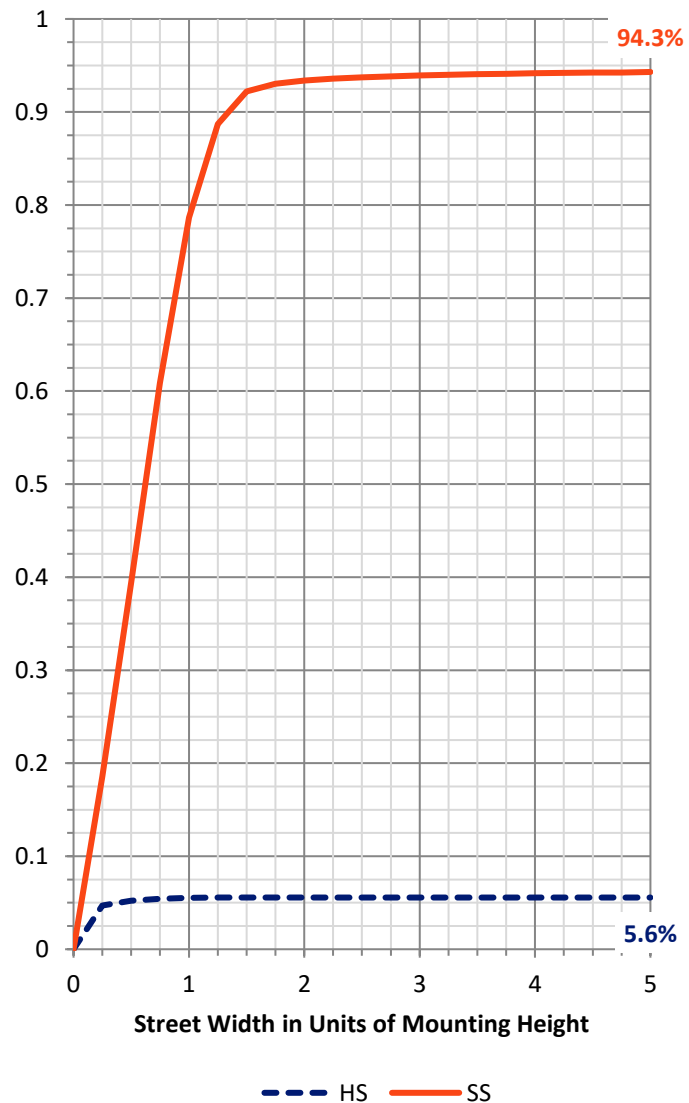
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 623.1    | 0.0    | 623.1   |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 10532.9  | 0.0    | 10532.9 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 11156.0  | 0.0    | 11156.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 263.0   | 2.4       |
| 10°-20°   | 629.8   | 5.6       |
| 20°-30°   | 1071.7  | 9.6       |
| 30°-40°   | 1843.0  | 16.5      |
| 40°-50°   | 2845.4  | 25.5      |
| 50°-60°   | 2860.6  | 25.6      |
| 60°-70°   | 1466.9  | 13.1      |
| 70°-80°   | 159.0   | 1.4       |
| 80°-90°   | 16.6    | 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°    | 11156.0 | 100.0     |
| 0°-180°   | 11156.0 | 100.0     |

**Coefficient of Utilization**



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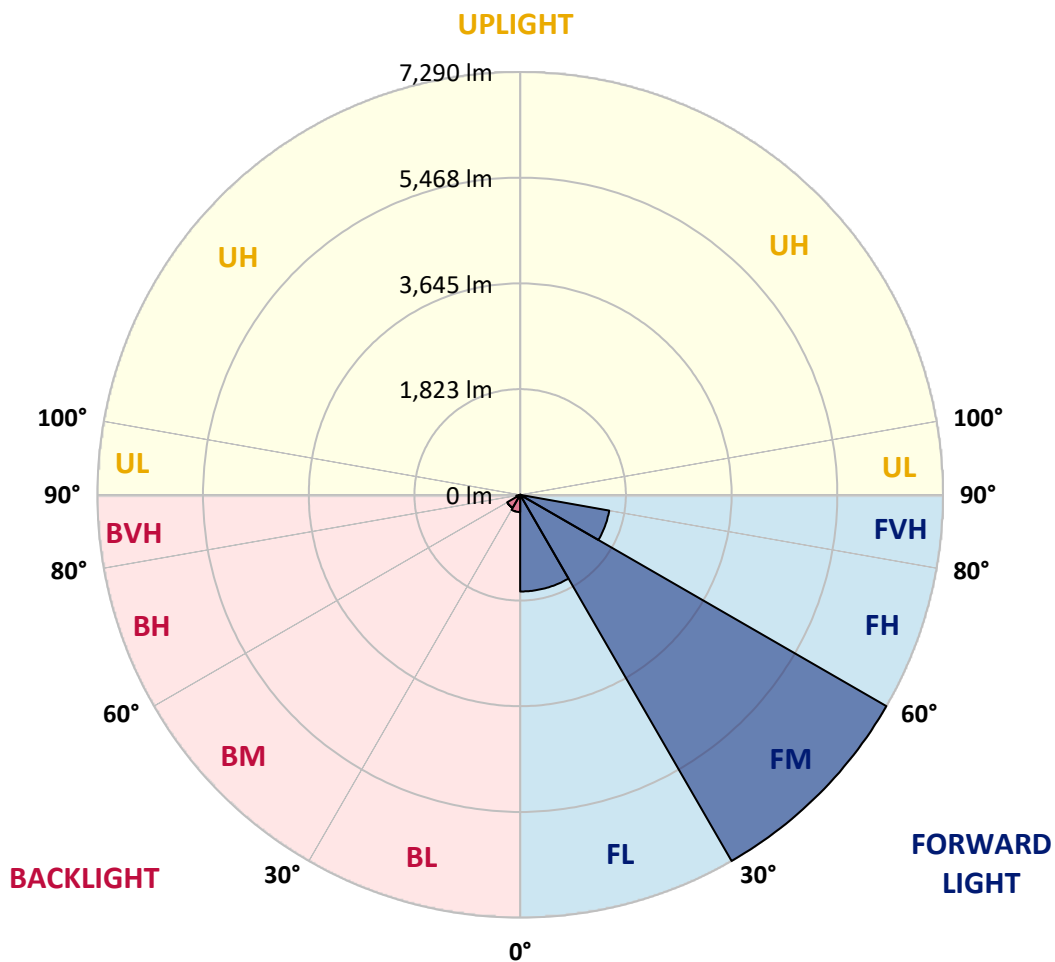
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1667.1 | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 7290.4 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 1559.1 | 14.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.3   | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 297.4  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 258.6  | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 66.8   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4  | 3140.4  | 3140.4  | 3140.4 | 3140.4 |
| 2.5°  | 3715.8 | 3676.3 | 3664.4 | 3656.5 | 3620.3 | 3574.9 | 3513.0  | 3484.0  | 3424.8  | 3329.3 | 3212.1 |
| 5°    | 4056.2 | 4048.9 | 4022.6 | 4008.1 | 3969.2 | 3904.7 | 3806.0  | 3758.6  | 3664.4  | 3503.8 | 3293.8 |
| 7.5°  | 3907.4 | 3952.8 | 3989.0 | 4049.6 | 4125.9 | 4123.3 | 4040.4  | 3991.0  | 3885.6  | 3673.6 | 3384.6 |
| 10°   | 3332.6 | 3369.5 | 3428.7 | 3566.3 | 3846.8 | 4094.3 | 4191.8  | 4156.2  | 4072.0  | 3829.7 | 3472.2 |
| 12.5° | 3220.0 | 3216.1 | 3226.6 | 3266.8 | 3413.6 | 3766.5 | 4166.1  | 4237.9  | 4220.7  | 3972.5 | 3555.1 |
| 15°   | 3279.9 | 3275.3 | 3274.0 | 3287.8 | 3323.4 | 3472.2 | 3973.2  | 4179.3  | 4311.6  | 4104.9 | 3625.6 |
| 17.5° | 3447.8 | 3428.1 | 3417.5 | 3406.4 | 3395.8 | 3432.7 | 3741.5  | 4015.3  | 4325.4  | 4220.7 | 3684.2 |
| 20°   | 3735.5 | 3702.6 | 3663.8 | 3600.6 | 3541.3 | 3522.9 | 3644.0  | 3846.8  | 4276.0  | 4309.0 | 3722.4 |
| 22.5° | 4097.0 | 4054.8 | 3987.7 | 3872.5 | 3752.0 | 3682.2 | 3692.1  | 3793.5  | 4202.3  | 4405.1 | 3740.1 |
| 25°   | 4503.2 | 4449.2 | 4359.7 | 4199.7 | 4022.6 | 3898.8 | 3834.3  | 3869.8  | 4168.7  | 4517.7 | 3760.5 |
| 27.5° | 4938.4 | 4878.4 | 4761.3 | 4543.3 | 4342.5 | 4175.3 | 4043.6  | 4039.0  | 4226.0  | 4665.1 | 3793.5 |
| 30°   | 5369.6 | 5360.4 | 5207.6 | 4977.2 | 4711.2 | 4507.8 | 4318.2  | 4293.8  | 4386.0  | 4869.2 | 3858.6 |
| 32.5° | 5945.0 | 5875.9 | 5688.9 | 5451.9 | 5145.1 | 4900.8 | 4676.3  | 4619.7  | 4631.6  | 5106.9 | 3959.4 |
| 35°   | 6670.5 | 6594.8 | 6331.4 | 6004.2 | 5661.2 | 5372.9 | 5124.7  | 5047.6  | 5018.7  | 5496.0 | 4129.2 |
| 37.5° | 7139.2 | 7137.9 | 6972.7 | 6639.6 | 6271.5 | 5953.5 | 5683.6  | 5593.4  | 5534.8  | 5966.1 | 4392.6 |
| 40°   | 7151.8 | 7182.7 | 7204.4 | 7201.1 | 6939.1 | 6646.1 | 6406.5  | 6295.2  | 6159.0  | 6594.1 | 4732.9 |
| 42.5° | 6767.9 | 6847.6 | 7039.2 | 7364.4 | 7519.8 | 7403.3 | 7201.1  | 7091.8  | 6889.1  | 7266.3 | 5147.7 |
| 45°   | 6249.1 | 6304.4 | 6639.6 | 7238.7 | 7834.5 | 8153.8 | 7999.7  | 7804.2  | 7536.9  | 7967.5 | 5519.7 |
| 47.5° | 6016.7 | 6026.6 | 6243.2 | 6900.9 | 7858.2 | 8768.7 | 8862.2  | 8544.2  | 8125.5  | 8532.3 | 5810.7 |
| 50°   | 5322.2 | 5340.0 | 5638.8 | 6315.6 | 7580.3 | 9059.0 | 9728.6  | 9427.0  | 8767.4  | 8967.5 | 5916.7 |
| 52.5° | 4011.4 | 4036.4 | 4415.6 | 5353.8 | 6816.7 | 8935.3 | 10348.7 | 10275.7 | 9470.5  | 9180.2 | 5922.6 |
| 55°   | 2366.8 | 2399.7 | 2761.8 | 3603.9 | 5361.7 | 8147.9 | 10394.8 | 10663.4 | 10025.5 | 9305.9 | 5913.4 |
| 57.5° | 1105.4 | 1128.4 | 1335.8 | 1856.6 | 3334.6 | 6439.4 | 9700.9  | 10397.5 | 10331.6 | 9372.4 | 5978.6 |
| 60°   | 587.3  | 593.8  | 643.9  | 803.9  | 1507.0 | 4083.1 | 8346.7  | 9388.9  | 10052.5 | 9464.6 | 6058.2 |
| 62.5° | 449.0  | 451.0  | 448.3  | 467.4  | 633.3  | 1812.5 | 6309.1  | 7718.6  | 8928.7  | 9395.4 | 5970.0 |
| 65°   | 389.1  | 392.4  | 373.9  | 369.3  | 406.2  | 646.5  | 3748.0  | 5501.9  | 7016.1  | 8462.6 | 5368.9 |
| 67.5° | 348.9  | 350.2  | 327.9  | 308.8  | 315.4  | 349.6  | 1478.7  | 3012.0  | 4644.1  | 6203.1 | 3891.6 |
| 70°   | 321.3  | 320.0  | 295.6  | 265.3  | 256.8  | 239.0  | 470.1   | 1104.1  | 2219.3  | 3145.6 | 1809.8 |
| 72.5° | 284.4  | 285.1  | 273.2  | 233.7  | 213.3  | 167.2  | 217.9   | 321.9   | 662.3   | 857.2  | 424.0  |
| 75°   | 252.2  | 248.9  | 234.4  | 209.4  | 175.8  | 109.9  | 108.0   | 143.5   | 204.1   | 202.8  | 91.5   |
| 77.5° | 182.4  | 179.1  | 183.7  | 171.8  | 135.0  | 71.1   | 54.0    | 69.1    | 83.0    | 80.3   | 25.7   |
| 80°   | 133.6  | 131.7  | 118.5  | 142.9  | 119.2  | 48.7   | 33.6    | 36.9    | 42.8    | 36.2   | 7.9    |
| 82.5° | 91.5   | 90.9   | 83.6   | 79.0   | 67.8   | 29.6   | 21.1    | 23.0    | 27.7    | 20.4   | 4.0    |
| 85°   | 14.5   | 16.5   | 60.6   | 48.1   | 40.2   | 13.2   | 14.5    | 15.8    | 18.4    | 11.2   | 1.3    |
| 87.5° | 0.0    | 0.0    | 28.3   | 25.0   | 7.9    | 5.3    | 8.6     | 9.2     | 9.2     | 5.9    | 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°    | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 | 3140.4 |
| 2.5°  | 3152.2 | 3086.4 | 2964.6 | 2838.8 | 2722.3 | 2583.4 | 2487.9 | 2416.2 | 2333.2 | 2310.8 | 2359.6 |
| 5°    | 3174.0 | 3049.5 | 2787.5 | 2502.4 | 2234.5 | 1937.6 | 1710.4 | 1530.7 | 1368.1 | 1312.8 | 1362.8 |
| 7.5°  | 3208.2 | 3023.2 | 2595.9 | 2126.5 | 1660.4 | 1196.9 | 879.6  | 670.9  | 537.9  | 498.4  | 519.4  |
| 10°   | 3242.4 | 2985.0 | 2374.0 | 1681.4 | 1044.2 | 582.6  | 379.2  | 302.8  | 274.5  | 268.6  | 271.9  |
| 12.5° | 3270.7 | 2933.6 | 2103.5 | 1195.6 | 558.3  | 312.1  | 248.2  | 235.7  | 231.7  | 231.7  | 233.1  |
| 15°   | 3287.8 | 2856.0 | 1782.8 | 760.4  | 321.3  | 235.7  | 216.6  | 212.7  | 212.7  | 213.3  | 214.6  |
| 17.5° | 3285.9 | 2757.2 | 1431.9 | 460.2  | 240.3  | 208.7  | 197.5  | 194.2  | 193.6  | 194.9  | 195.5  |
| 20°   | 3261.5 | 2628.2 | 1079.7 | 303.5  | 209.4  | 190.3  | 179.1  | 173.1  | 172.5  | 173.8  | 175.1  |
| 22.5° | 3215.4 | 2468.8 | 772.3  | 233.7  | 188.9  | 172.5  | 158.7  | 153.4  | 153.4  | 154.7  | 156.0  |
| 25°   | 3159.5 | 2274.0 | 528.0  | 198.2  | 170.5  | 153.4  | 140.2  | 135.6  | 136.9  | 140.2  | 140.9  |
| 27.5° | 3089.7 | 2054.7 | 358.8  | 169.9  | 148.1  | 134.3  | 124.4  | 121.1  | 124.4  | 129.0  | 130.4  |
| 30°   | 3029.8 | 1826.3 | 256.1  | 146.8  | 125.7  | 115.9  | 109.9  | 109.9  | 114.6  | 123.1  | 125.1  |
| 32.5° | 2983.7 | 1605.1 | 197.5  | 129.7  | 109.3  | 100.7  | 97.4   | 100.7  | 108.0  | 116.5  | 118.5  |
| 35°   | 2977.8 | 1422.7 | 167.2  | 115.9  | 97.4   | 88.9   | 87.6   | 93.5   | 100.7  | 107.3  | 108.6  |
| 37.5° | 3023.2 | 1254.2 | 150.8  | 104.7  | 86.9   | 79.0   | 77.7   | 84.9   | 92.2   | 100.1  | 102.0  |
| 40°   | 3109.4 | 1121.8 | 138.9  | 94.1   | 78.3   | 69.8   | 67.2   | 72.4   | 82.3   | 92.8   | 95.5   |
| 42.5° | 3221.4 | 1012.6 | 125.7  | 83.6   | 69.8   | 57.9   | 54.6   | 60.6   | 71.1   | 82.3   | 85.6   |
| 45°   | 3328.0 | 918.4  | 111.3  | 71.8   | 58.6   | 44.8   | 43.5   | 51.4   | 56.6   | 67.8   | 70.4   |
| 47.5° | 3386.6 | 835.5  | 98.8   | 58.6   | 45.4   | 36.2   | 36.2   | 38.2   | 43.5   | 56.6   | 59.3   |
| 50°   | 3366.8 | 769.0  | 85.6   | 43.5   | 31.6   | 27.7   | 27.7   | 27.0   | 34.9   | 45.4   | 47.4   |
| 52.5° | 3327.3 | 730.8  | 73.7   | 33.6   | 21.7   | 19.8   | 17.8   | 19.8   | 24.4   | 29.0   | 29.6   |
| 55°   | 3321.4 | 724.2  | 61.9   | 27.0   | 15.1   | 13.2   | 9.9    | 9.9    | 9.9    | 9.2    | 7.9    |
| 57.5° | 3367.5 | 734.7  | 52.0   | 21.7   | 11.2   | 8.6    | 5.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 3414.9 | 745.9  | 44.8   | 15.1   | 7.9    | 4.6    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 3335.9 | 720.9  | 37.5   | 9.2    | 5.9    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 2930.4 | 613.6  | 29.6   | 6.6    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2084.4 | 410.8  | 19.8   | 4.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 951.3  | 171.8  | 12.5   | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 203.4  | 53.3   | 8.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 41.5   | 38.8   | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 13.2   | 61.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 7.9    | 44.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 1.3    | 6.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)