

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: P192744

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28436.9 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 249  
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

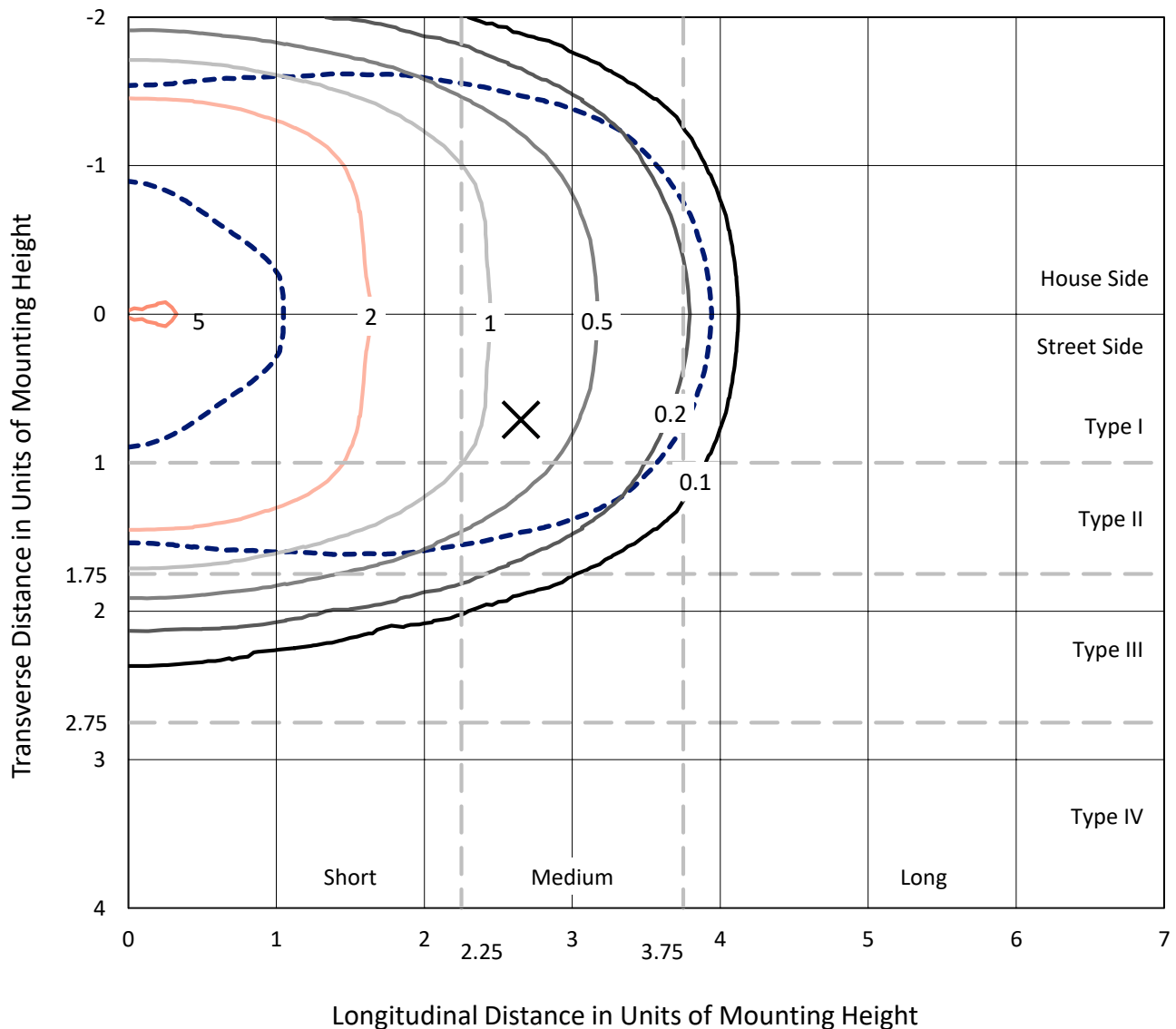


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

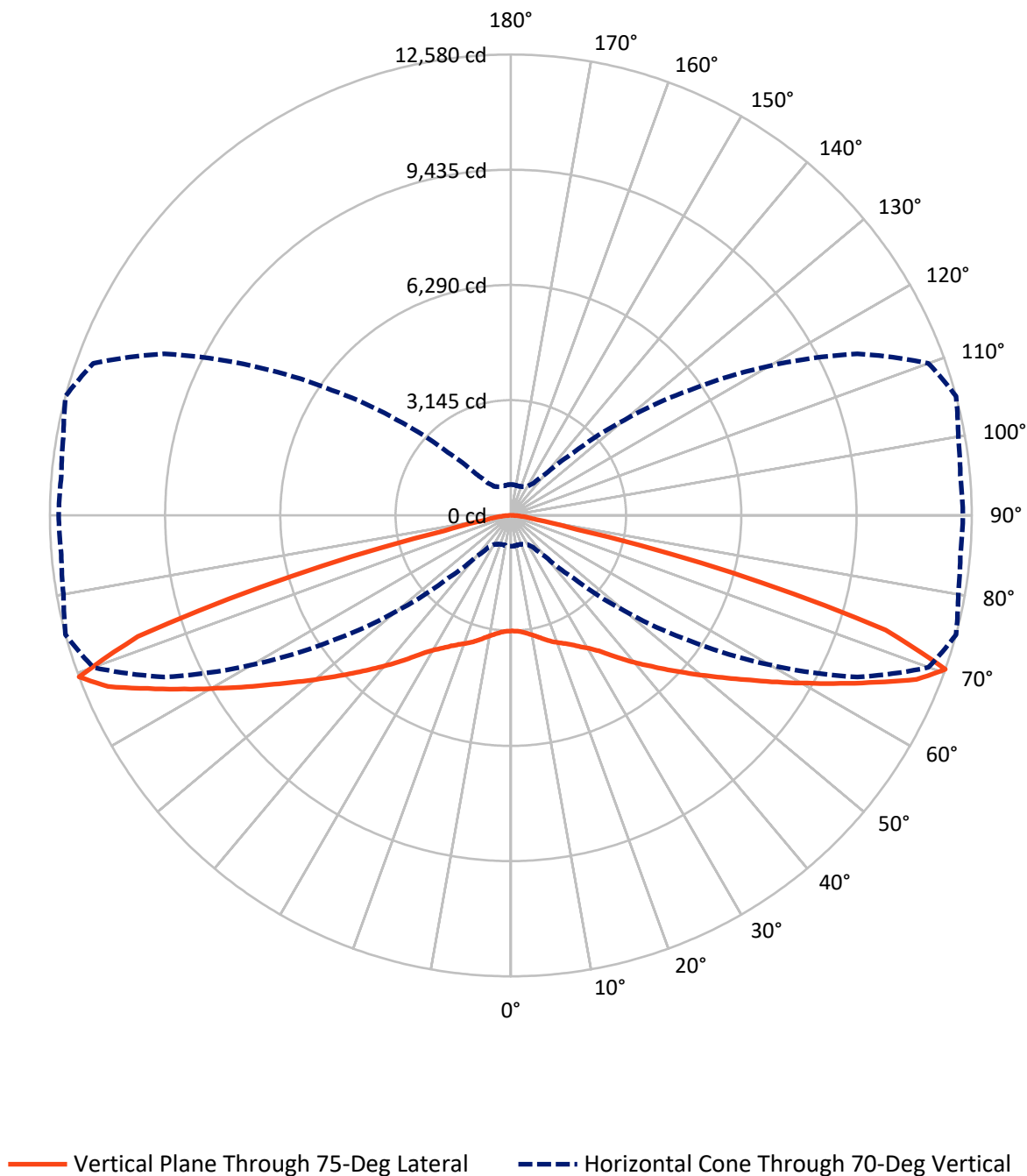


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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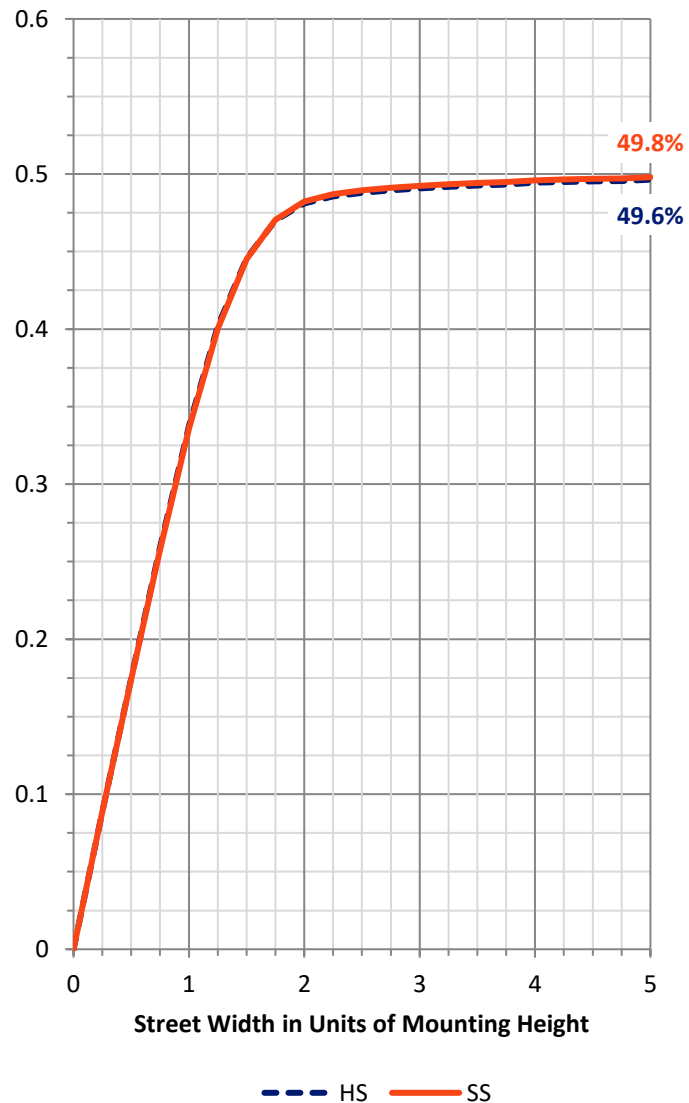
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14218.5  | 0.0    | 14218.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14218.5  | 0.0    | 14218.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28436.9  | 0.0    | 28436.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 302.5   | 1.1       |
| 10°-20°   | 940.0   | 3.3       |
| 20°-30°   | 1769.2  | 6.2       |
| 30°-40°   | 3132.9  | 11.0      |
| 40°-50°   | 5239.2  | 18.4      |
| 50°-60°   | 7300.9  | 25.7      |
| 60°-70°   | 6770.4  | 23.8      |
| 70°-80°   | 2698.2  | 9.5       |
| 80°-90°   | 283.6   | 1.0       |
| 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°    | 28436.9 | 100.0     |
| 0°-180°   | 28436.9 | 100.0     |

**Coefficient of Utilization**



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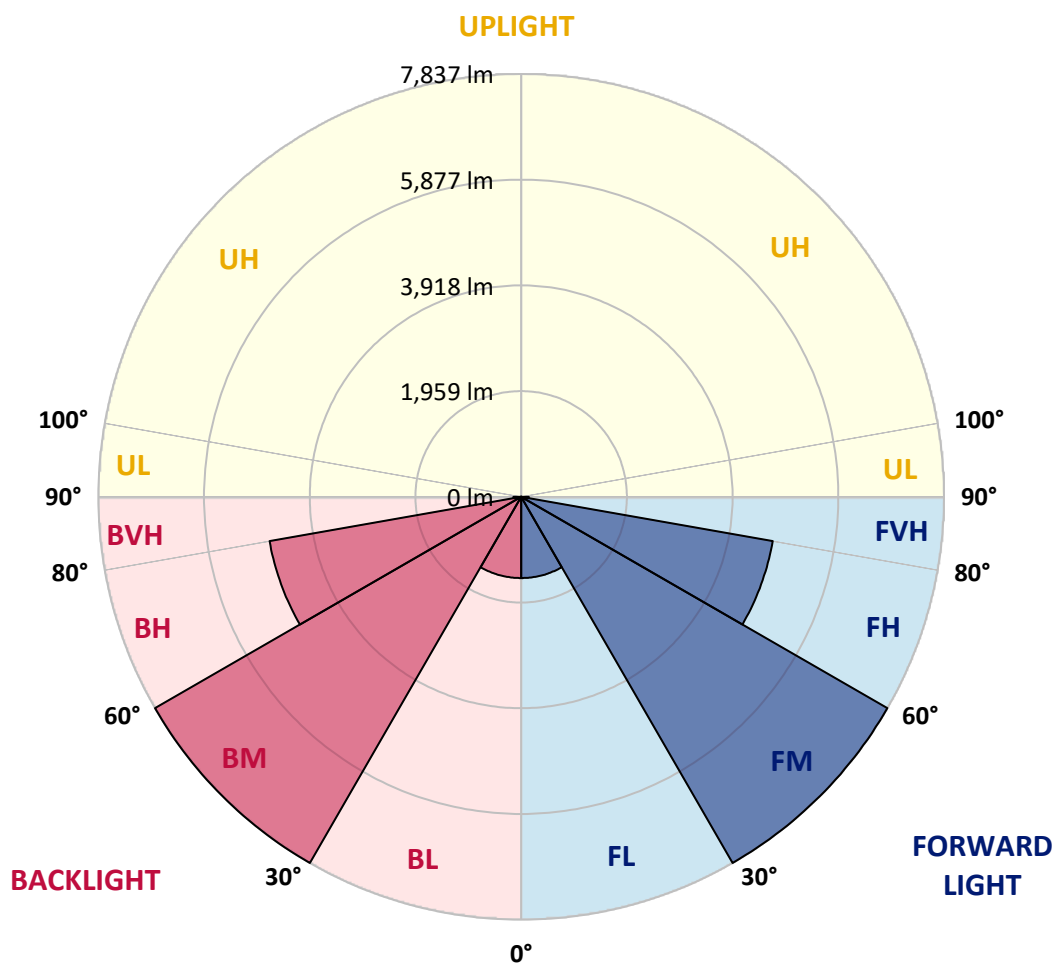
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1505.9 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 7836.5 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 4734.3 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 141.8  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1505.9 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7836.5 | 27.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4734.3 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 141.8  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4 | 3154.4  |
| 2.5°  | 3149.0 | 3146.2 | 3149.0 | 3147.6 | 3150.3 | 3150.3 | 3153.0 | 3158.3 | 3158.3 | 3162.4 | 3161.1  |
| 5°    | 3118.0 | 3116.7 | 3120.7 | 3124.7 | 3128.7 | 3136.9 | 3144.9 | 3157.0 | 3166.5 | 3173.1 | 3179.9  |
| 7.5°  | 3057.5 | 3057.5 | 3063.0 | 3072.4 | 3081.7 | 3099.2 | 3118.0 | 3142.2 | 3166.5 | 3186.5 | 3204.0  |
| 10°   | 3007.8 | 3010.5 | 3017.2 | 3033.4 | 3049.5 | 3076.4 | 3101.9 | 3136.9 | 3170.4 | 3204.0 | 3230.9  |
| 12.5° | 2978.3 | 2982.3 | 2994.4 | 3018.7 | 3045.5 | 3081.7 | 3120.7 | 3165.0 | 3202.7 | 3243.1 | 3269.9  |
| 15°   | 2987.7 | 2990.3 | 3007.8 | 3037.4 | 3072.4 | 3118.0 | 3170.4 | 3222.8 | 3267.2 | 3310.2 | 3346.5  |
| 17.5° | 3040.0 | 3044.1 | 3064.2 | 3097.8 | 3134.1 | 3187.9 | 3244.4 | 3303.5 | 3358.6 | 3407.0 | 3451.3  |
| 20°   | 3134.1 | 3138.2 | 3163.7 | 3199.9 | 3243.1 | 3298.1 | 3354.6 | 3416.4 | 3478.3 | 3529.3 | 3579.0  |
| 22.5° | 3267.2 | 3274.0 | 3298.1 | 3334.4 | 3382.7 | 3441.8 | 3509.1 | 3575.0 | 3634.1 | 3681.2 | 3725.5  |
| 25°   | 3441.8 | 3456.8 | 3479.6 | 3519.9 | 3570.9 | 3624.6 | 3697.4 | 3764.5 | 3820.9 | 3865.3 | 3897.5  |
| 27.5° | 3689.2 | 3709.4 | 3726.9 | 3765.8 | 3815.6 | 3866.5 | 3939.3 | 3998.4 | 4052.1 | 4095.1 | 4119.3  |
| 30°   | 4017.1 | 4037.3 | 4054.8 | 4092.5 | 4138.0 | 4186.5 | 4255.0 | 4307.4 | 4341.1 | 4374.6 | 4373.3  |
| 32.5° | 4414.9 | 4436.5 | 4443.1 | 4483.6 | 4530.6 | 4583.0 | 4644.8 | 4674.3 | 4701.2 | 4705.2 | 4681.1  |
| 35°   | 4859.9 | 4870.6 | 4897.4 | 4951.2 | 5004.9 | 5048.0 | 5107.1 | 5121.8 | 5121.8 | 5101.8 | 5048.0  |
| 37.5° | 5347.7 | 5354.4 | 5392.1 | 5452.5 | 5507.6 | 5552.0 | 5592.3 | 5621.8 | 5607.0 | 5564.0 | 5474.0  |
| 40°   | 5882.6 | 5894.6 | 5948.4 | 6002.1 | 6064.0 | 6105.7 | 6148.7 | 6154.0 | 6139.3 | 6076.1 | 5953.9  |
| 42.5° | 6393.3 | 6404.0 | 6457.8 | 6542.5 | 6623.1 | 6680.8 | 6721.2 | 6729.3 | 6682.3 | 6624.5 | 6472.6  |
| 45°   | 6832.7 | 6861.1 | 6930.9 | 7030.4 | 7147.3 | 7229.2 | 7284.4 | 7307.3 | 7265.5 | 7190.3 | 7014.2  |
| 47.5° | 7180.8 | 7209.2 | 7308.6 | 7426.8 | 7572.0 | 7705.1 | 7796.4 | 7844.9 | 7834.0 | 7777.6 | 7585.5  |
| 50°   | 7436.1 | 7463.1 | 7570.6 | 7715.8 | 7885.1 | 8050.4 | 8206.4 | 8321.9 | 8362.2 | 8336.7 | 8160.7  |
| 52.5° | 7465.8 | 7510.2 | 7636.4 | 7831.3 | 8051.8 | 8277.6 | 8499.3 | 8695.5 | 8828.5 | 8848.8 | 8718.4  |
| 55°   | 7053.2 | 7097.6 | 7272.3 | 7561.2 | 7889.2 | 8257.4 | 8612.3 | 8942.9 | 9204.9 | 9339.3 | 9270.7  |
| 57.5° | 6080.2 | 6159.5 | 6343.6 | 6682.3 | 7164.7 | 7715.8 | 8281.7 | 8868.9 | 9402.5 | 9758.6 | 9827.3  |
| 60°   | 4659.6 | 4753.7 | 4939.1 | 5299.3 | 5836.8 | 6494.2 | 7249.5 | 8117.6 | 9059.8 | 9860.7 | 10339.2 |
| 62.5° | 2989.0 | 3077.8 | 3272.6 | 3585.8 | 4023.9 | 4736.2 | 5546.5 | 6577.4 | 7843.5 | 9108.2 | 10247.9 |
| 65°   | 1536.1 | 1584.6 | 1686.8 | 1876.2 | 2217.5 | 2749.7 | 3476.8 | 4505.0 | 5952.5 | 7512.8 | 9160.6  |
| 67.5° | 973.1  | 982.5  | 1005.3 | 1032.2 | 1119.6 | 1303.7 | 1642.3 | 2283.4 | 3474.2 | 5101.8 | 7030.4  |
| 70°   | 841.3  | 841.3  | 830.6  | 826.5  | 837.3  | 862.8  | 915.3  | 1064.4 | 1466.3 | 2421.8 | 4054.8  |
| 72.5° | 770.1  | 762.1  | 743.2  | 728.4  | 725.7  | 725.7  | 736.5  | 759.4  | 823.9  | 986.5  | 1587.2  |
| 75°   | 709.6  | 686.8  | 661.2  | 643.7  | 637.1  | 630.3  | 629.0  | 633.0  | 646.5  | 672.0  | 758.0   |
| 77.5° | 635.7  | 606.2  | 576.6  | 559.1  | 551.0  | 541.6  | 533.5  | 524.1  | 517.5  | 525.5  | 563.1   |
| 80°   | 547.0  | 513.4  | 490.6  | 479.7  | 471.8  | 458.4  | 440.9  | 424.7  | 409.9  | 407.2  | 430.1   |
| 82.5° | 440.9  | 401.8  | 403.1  | 407.2  | 392.5  | 373.6  | 354.8  | 337.4  | 311.8  | 298.4  | 311.8   |
| 85°   | 356.1  | 336.0  | 326.5  | 352.2  | 330.6  | 302.4  | 272.8  | 241.9  | 201.6  | 169.4  | 184.1   |
| 87.5° | 138.4  | 138.4  | 206.9  | 318.5  | 286.3  | 233.9  | 200.3  | 170.7  | 106.2  | 82.0   | 83.4    |
| 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°    | 3154.4  | 3154.4  | 3154.4  | 3154.4  | 3154.4  | 3154.4  | 3154.4  | 3154.4  |
| 2.5°  | 3159.7  | 3162.4  | 3161.1  | 3159.7  | 3159.7  | 3158.3  | 3159.7  | 3159.7  |
| 5°    | 3184.0  | 3190.6  | 3190.6  | 3193.3  | 3193.3  | 3194.6  | 3196.0  | 3194.6  |
| 7.5°  | 3220.2  | 3232.2  | 3240.3  | 3249.7  | 3251.1  | 3252.4  | 3255.2  | 3252.4  |
| 10°   | 3256.5  | 3280.6  | 3298.1  | 3315.6  | 3323.6  | 3326.4  | 3329.0  | 3329.0  |
| 12.5° | 3302.2  | 3335.8  | 3366.8  | 3397.5  | 3412.3  | 3420.5  | 3420.5  | 3425.9  |
| 15°   | 3377.4  | 3411.0  | 3447.3  | 3488.9  | 3514.6  | 3528.0  | 3532.1  | 3532.1  |
| 17.5° | 3483.6  | 3513.1  | 3544.1  | 3584.4  | 3616.6  | 3634.1  | 3638.2  | 3636.8  |
| 20°   | 3607.2  | 3635.5  | 3653.0  | 3678.4  | 3706.7  | 3726.9  | 3732.2  | 3732.2  |
| 22.5° | 3748.3  | 3764.5  | 3767.2  | 3775.2  | 3798.1  | 3824.9  | 3837.0  | 3839.7  |
| 25°   | 3904.3  | 3908.3  | 3897.5  | 3897.5  | 3912.3  | 3937.8  | 3949.9  | 3951.3  |
| 27.5° | 4105.9  | 4085.6  | 4058.8  | 4049.3  | 4058.8  | 4088.4  | 4103.1  | 4108.5  |
| 30°   | 4357.2  | 4308.7  | 4247.0  | 4213.4  | 4208.0  | 4247.0  | 4273.9  | 4277.8  |
| 32.5° | 4644.8  | 4574.9  | 4493.0  | 4424.4  | 4406.9  | 4431.1  | 4463.3  | 4462.0  |
| 35°   | 4986.1  | 4902.8  | 4803.4  | 4716.0  | 4675.8  | 4699.9  | 4745.5  | 4750.9  |
| 37.5° | 5379.9  | 5271.1  | 5156.8  | 5046.6  | 4983.5  | 4990.2  | 5038.6  | 5054.7  |
| 40°   | 5819.4  | 5678.3  | 5534.5  | 5386.7  | 5296.7  | 5279.2  | 5338.3  | 5347.7  |
| 42.5° | 6289.8  | 6108.3  | 5927.0  | 5744.2  | 5628.6  | 5601.7  | 5670.2  | 5666.1  |
| 45°   | 6791.1  | 6559.9  | 6347.6  | 6146.1  | 6008.9  | 5968.7  | 6025.1  | 6025.1  |
| 47.5° | 7330.1  | 7045.1  | 6792.4  | 6564.0  | 6414.8  | 6357.0  | 6410.8  | 6414.8  |
| 50°   | 7901.2  | 7598.9  | 7301.8  | 7047.8  | 6869.0  | 6795.2  | 6865.1  | 6875.8  |
| 52.5° | 8469.8  | 8175.5  | 7875.7  | 7585.5  | 7369.0  | 7279.0  | 7359.6  | 7394.5  |
| 55°   | 9046.3  | 8757.3  | 8471.1  | 8187.6  | 7930.8  | 7824.6  | 7910.7  | 7955.0  |
| 57.5° | 9655.1  | 9387.7  | 9114.9  | 8828.5  | 8581.3  | 8416.0  | 8507.4  | 8566.5  |
| 60°   | 10368.8 | 10140.4 | 9856.8  | 9540.8  | 9291.0  | 9122.9  | 9175.4  | 9227.7  |
| 62.5° | 10933.2 | 11022.0 | 10781.3 | 10415.8 | 10094.6 | 9879.6  | 9930.7  | 9985.8  |
| 65°   | 10660.4 | 11570.3 | 11784.0 | 11414.5 | 10969.5 | 10634.9 | 10613.5 | 10641.7 |
| 67.5° | 8910.5  | 10677.9 | 11966.7 | 12318.9 | 11946.6 | 11481.6 | 11395.6 | 11437.3 |
| 70°   | 5960.5  | 8162.0  | 10436.0 | 12129.4 | 12579.7 | 12399.5 | 12314.8 | 12340.4 |
| 72.5° | 2862.7  | 4753.7  | 7080.1  | 9331.3  | 10702.1 | 11331.1 | 11532.7 | 11630.7 |
| 75°   | 1046.9  | 1886.9  | 3412.3  | 5142.1  | 6207.8  | 7186.2  | 7824.6  | 8085.4  |
| 77.5° | 631.6   | 762.1   | 1090.0  | 1641.0  | 1858.7  | 2080.6  | 1994.4  | 2037.4  |
| 80°   | 467.7   | 528.2   | 598.0   | 672.0   | 696.2   | 696.2   | 669.3   | 647.8   |
| 82.5° | 327.9   | 366.9   | 400.6   | 440.9   | 451.6   | 431.5   | 354.8   | 282.2   |
| 85°   | 211.0   | 228.5   | 243.2   | 268.8   | 262.1   | 249.9   | 168.0   | 149.1   |
| 87.5° | 96.8    | 110.3   | 115.6   | 127.8   | 122.3   | 116.9   | 83.4    | 69.9    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)