

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: P269309

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17296.6 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

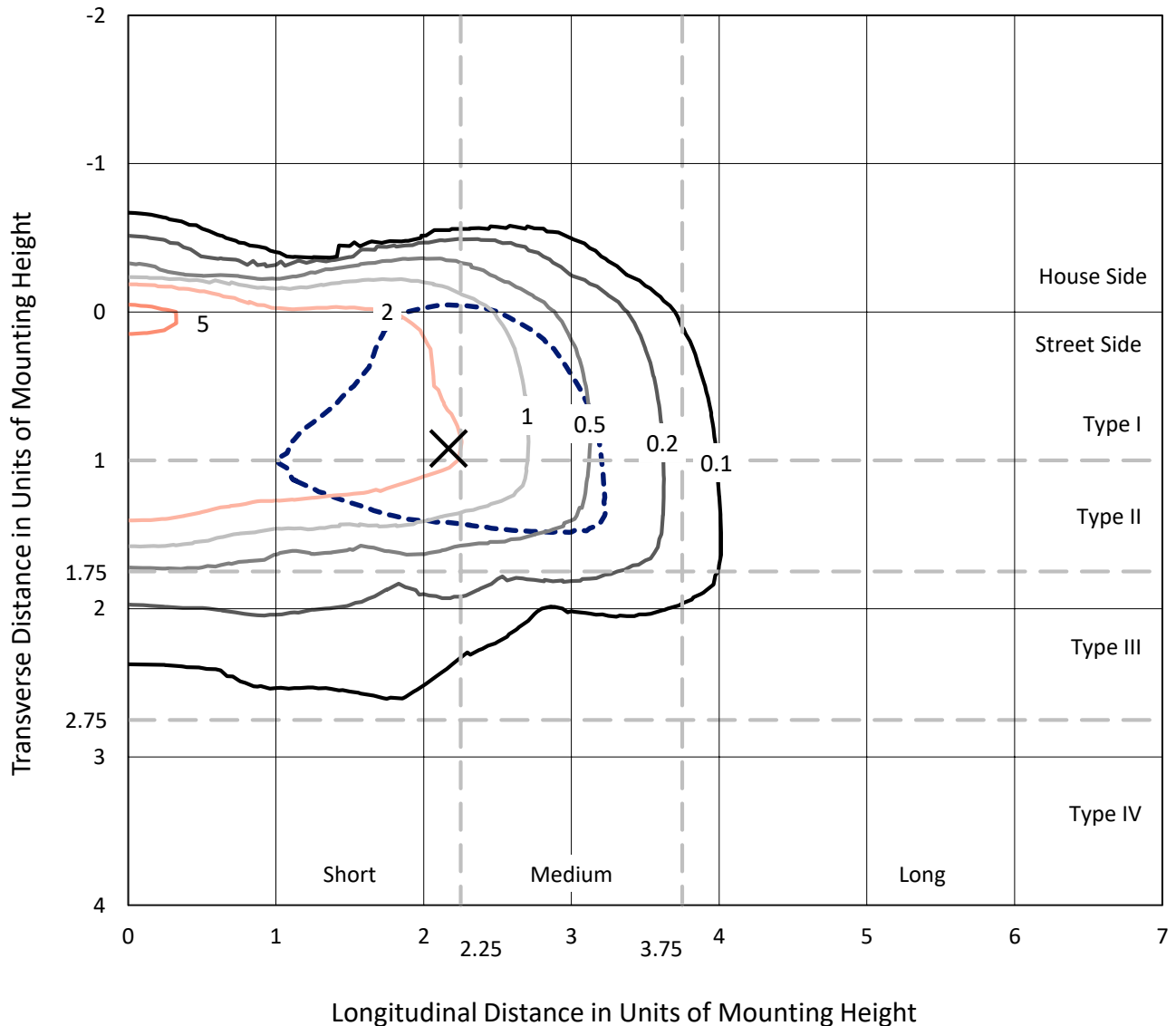


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

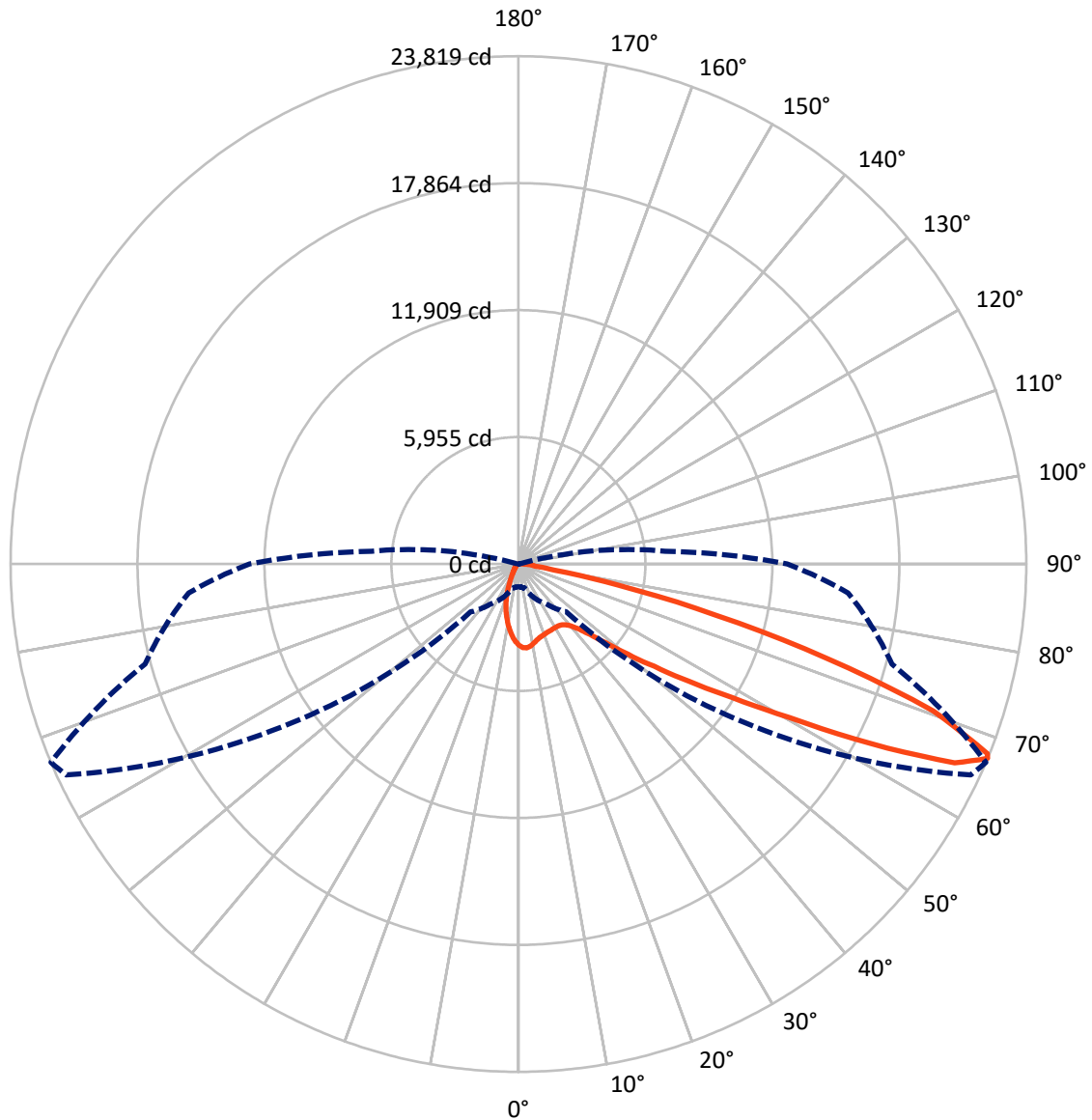


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1795.9 | 0.0 | 1795.9 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 15500.7 | 0.0 | 15500.7 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 17296.6 | 0.0 | 17296.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.4 | 1.8 |
| 10°-20° | 660.6 | 3.8 |
| 20°-30° | 960.5 | 5.6 |
| 30°-40° | 1498.4 | 8.7 |
| 40°-50° | 2654.3 | 15.3 |
| 50°-60° | 4200.2 | 24.3 |
| 60°-70° | 4810.7 | 27.8 |
| 70°-80° | 1995.5 | 11.5 |
| 80°-90° | 206.1 | 1.2 |
| 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° | 17296.6 | 100.0 |
| 0°-180° | 17296.6 | 100.0 |



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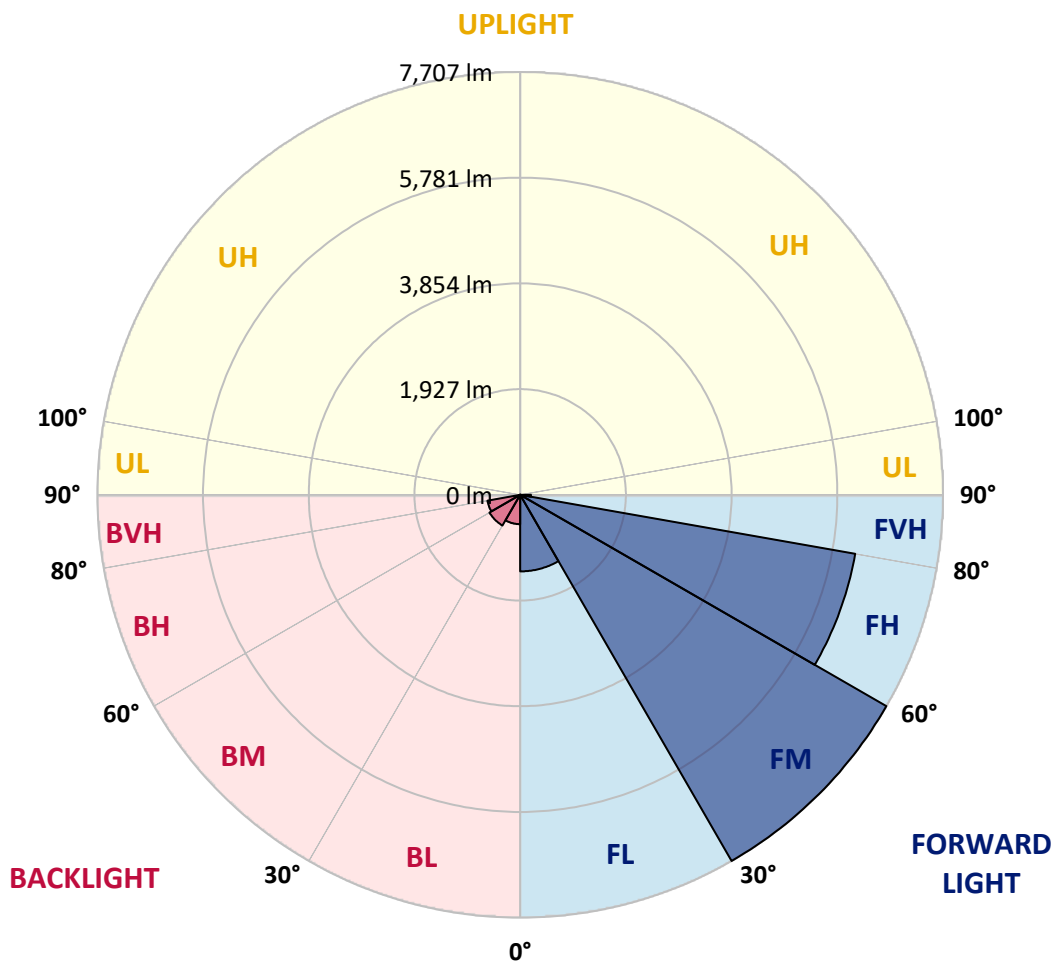
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1395.6 | 8.1 | | | |
| FM | (30°-60°) | 7707.4 | 44.6 | | | |
| FH | (60°-80°) | 6200.9 | 35.9 | | | G3/7500 |
| FVH | (80°-90°) | 196.8 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 535.9 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 645.4 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 605.3 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 9.3 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 |
| 2.5° | 3943.6 | 3951.7 | 3950.7 | 3956.9 | 3970.9 | 3971.9 | 3957.8 | 3930.5 | 3924.5 | 3889.2 | 3827.7 |
| 5° | 3637.0 | 3660.2 | 3674.2 | 3731.7 | 3796.3 | 3874.1 | 3932.6 | 3953.8 | 3950.7 | 3925.6 | 3832.7 |
| 7.5° | 3286.9 | 3310.2 | 3326.2 | 3393.8 | 3479.7 | 3612.8 | 3765.2 | 3890.2 | 3901.2 | 3928.6 | 3828.7 |
| 10° | 3053.9 | 3057.9 | 3080.1 | 3144.6 | 3234.4 | 3370.6 | 3552.3 | 3771.2 | 3804.4 | 3904.4 | 3818.5 |
| 12.5° | 2862.2 | 2865.2 | 2894.5 | 2964.0 | 3059.8 | 3197.1 | 3387.8 | 3641.0 | 3692.5 | 3874.1 | 3816.5 |
| 15° | 2725.9 | 2737.0 | 2763.2 | 2835.9 | 2937.8 | 3074.0 | 3269.8 | 3545.3 | 3606.8 | 3863.0 | 3834.8 |
| 17.5° | 2680.6 | 2692.7 | 2700.8 | 2753.2 | 2846.0 | 2979.1 | 3180.0 | 3482.5 | 3552.3 | 3869.0 | 3870.1 |
| 20° | 2728.1 | 2737.0 | 2718.9 | 2732.0 | 2789.5 | 2908.6 | 3104.4 | 3429.2 | 3511.8 | 3876.0 | 3915.4 |
| 22.5° | 2904.5 | 2908.6 | 2859.1 | 2801.6 | 2791.6 | 2857.1 | 3044.7 | 3386.8 | 3475.5 | 3895.3 | 3968.9 |
| 25° | 3207.2 | 3200.1 | 3119.5 | 2995.4 | 2878.3 | 2848.0 | 3009.5 | 3360.6 | 3457.3 | 3915.4 | 4024.3 |
| 27.5° | 3572.4 | 3582.5 | 3471.5 | 3290.9 | 3068.0 | 2908.6 | 3004.4 | 3349.5 | 3449.3 | 3929.5 | 4072.8 |
| 30° | 4016.3 | 4030.4 | 3903.3 | 3676.4 | 3356.5 | 3057.9 | 3050.9 | 3347.4 | 3444.3 | 3920.6 | 4076.9 |
| 32.5° | 4469.2 | 4486.4 | 4386.6 | 4152.5 | 3741.9 | 3308.1 | 3155.7 | 3369.6 | 3454.4 | 3889.2 | 4053.6 |
| 35° | 4943.6 | 4967.6 | 4901.2 | 4700.3 | 4264.6 | 3669.2 | 3340.3 | 3437.3 | 3501.9 | 3886.2 | 4030.4 |
| 37.5° | 5598.2 | 5620.4 | 5495.3 | 5282.5 | 4897.1 | 4153.6 | 3637.0 | 3564.4 | 3613.8 | 3934.5 | 4036.5 |
| 40° | 6575.9 | 6572.8 | 6250.0 | 5924.1 | 5592.2 | 4768.9 | 4053.6 | 3794.4 | 3819.7 | 4080.9 | 4111.2 |
| 42.5° | 7641.3 | 7636.1 | 7159.0 | 6663.5 | 6364.0 | 5526.6 | 4601.5 | 4191.9 | 4174.8 | 4350.2 | 4304.9 |
| 45° | 8462.5 | 8461.5 | 8072.0 | 7514.1 | 7293.2 | 6396.2 | 5309.7 | 4744.8 | 4718.4 | 4788.1 | 4662.1 |
| 47.5° | 8812.6 | 8818.5 | 8622.8 | 8230.5 | 8323.2 | 7572.6 | 6202.5 | 5545.7 | 5506.4 | 5478.1 | 5286.4 |
| 50° | 8540.0 | 8552.3 | 8568.4 | 8491.7 | 9078.8 | 9153.5 | 7400.1 | 6674.6 | 6655.5 | 6529.4 | 6229.7 |
| 52.5° | 7650.2 | 7711.8 | 7901.5 | 8144.7 | 9341.1 | 10670.8 | 9277.5 | 8077.0 | 7974.2 | 7840.0 | 7510.1 |
| 55° | 6151.1 | 6218.6 | 6578.8 | 7169.1 | 8950.7 | 11667.6 | 11908.7 | 9884.9 | 9713.5 | 9312.9 | 8836.7 |
| 57.5° | 4070.8 | 4175.7 | 4698.3 | 5448.8 | 7816.7 | 11828.1 | 14533.9 | 12394.0 | 11796.7 | 10700.2 | 10163.5 |
| 60° | 2242.7 | 2343.6 | 2910.6 | 3590.5 | 5645.7 | 11035.0 | 16299.3 | 15660.7 | 14605.5 | 12250.7 | 11774.5 |
| 62.5° | 1381.1 | 1435.6 | 1854.3 | 2486.9 | 3385.8 | 8709.5 | 16664.5 | 19765.9 | 18544.2 | 14247.3 | 13720.7 |
| 65° | 1099.6 | 1122.9 | 1327.7 | 2032.9 | 2427.3 | 5180.5 | 15485.3 | 22895.5 | 22487.8 | 16664.5 | 15463.1 |
| 67° | 1067.4 | 1076.4 | 1173.4 | 1745.3 | 2288.2 | 3176.0 | 12973.1 | 23404.9 | 23818.5 | 18127.4 | 15517.5 |
| 67.5° | 1074.5 | 1084.6 | 1176.3 | 1665.6 | 2284.1 | 2918.7 | 12107.4 | 23204.1 | 23726.8 | 18243.5 | 15276.3 |
| 70° | 1036.1 | 1067.4 | 1346.9 | 1664.6 | 2172.1 | 2425.3 | 7250.8 | 20104.8 | 20648.6 | 16951.0 | 12962.1 |
| 72.5° | 367.2 | 369.3 | 582.1 | 1346.9 | 2361.7 | 2451.6 | 3641.0 | 14738.6 | 15141.2 | 12967.0 | 9345.2 |
| 75° | 217.8 | 185.6 | 193.8 | 383.3 | 2256.8 | 2381.0 | 2100.4 | 9417.8 | 9568.1 | 7430.3 | 4732.6 |
| 77.5° | 150.3 | 131.2 | 135.1 | 169.5 | 859.6 | 2347.6 | 1668.7 | 4911.3 | 4750.7 | 2606.0 | 1007.9 |
| 80° | 85.8 | 75.6 | 80.7 | 148.3 | 312.8 | 2190.2 | 1573.8 | 1991.5 | 1697.9 | 441.8 | 278.5 |
| 82.5° | 45.5 | 38.4 | 46.4 | 122.1 | 217.8 | 1365.1 | 1576.9 | 962.4 | 762.8 | 149.3 | 189.6 |
| 85° | 16.1 | 13.1 | 22.2 | 83.7 | 145.3 | 418.7 | 1461.8 | 809.2 | 635.6 | 72.7 | 144.3 |
| 87.5° | 3.1 | 3.1 | 9.2 | 34.2 | 58.5 | 128.1 | 864.6 | 480.2 | 321.9 | 43.4 | 98.9 |
| 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° | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 | 3814.6 |
| 2.5° | 3802.4 | 3759.0 | 3700.6 | 3629.0 | 3544.2 | 3469.6 | 3414.0 | 3356.5 | 3344.4 | 3324.3 | 3321.3 |
| 5° | 3777.3 | 3702.5 | 3557.3 | 3390.8 | 3213.2 | 3052.9 | 2922.7 | 2806.7 | 2755.2 | 2710.8 | 2705.9 |
| 7.5° | 3740.0 | 3628.0 | 3380.7 | 3112.4 | 2835.0 | 2582.6 | 2368.8 | 2217.5 | 2078.3 | 2011.7 | 2001.7 |
| 10° | 3696.5 | 3536.1 | 3181.9 | 2809.7 | 2426.3 | 2070.2 | 1752.5 | 1486.1 | 1324.6 | 1228.8 | 1216.8 |
| 12.5° | 3656.1 | 3446.3 | 2979.1 | 2495.9 | 1986.5 | 1510.3 | 1101.7 | 847.5 | 678.0 | 609.4 | 601.2 |
| 15° | 3637.0 | 3373.7 | 2789.5 | 2175.2 | 1526.4 | 961.5 | 602.4 | 466.1 | 410.6 | 394.4 | 393.5 |
| 17.5° | 3635.0 | 3312.1 | 2603.8 | 1843.2 | 1069.4 | 558.9 | 392.5 | 358.2 | 347.0 | 343.1 | 343.1 |
| 20° | 3634.0 | 3253.7 | 2418.2 | 1499.2 | 678.9 | 372.3 | 326.9 | 318.8 | 310.8 | 305.8 | 305.8 |
| 22.5° | 3645.1 | 3201.2 | 2224.6 | 1148.2 | 427.8 | 301.7 | 287.5 | 279.5 | 269.4 | 262.3 | 261.2 |
| 25° | 3656.1 | 3160.7 | 2026.8 | 817.2 | 309.7 | 262.3 | 248.2 | 237.2 | 223.0 | 213.8 | 212.9 |
| 27.5° | 3658.2 | 3110.3 | 1814.9 | 546.8 | 259.3 | 229.0 | 210.8 | 193.8 | 177.5 | 168.5 | 167.4 |
| 30° | 3628.0 | 3025.6 | 1579.8 | 369.3 | 229.0 | 198.7 | 174.5 | 156.3 | 141.3 | 134.1 | 134.1 |
| 32.5° | 3568.3 | 2920.7 | 1321.6 | 278.5 | 203.7 | 170.5 | 144.3 | 127.1 | 117.0 | 114.1 | 112.9 |
| 35° | 3514.9 | 2807.7 | 1056.2 | 236.1 | 182.6 | 144.3 | 118.0 | 107.0 | 100.9 | 99.9 | 98.9 |
| 37.5° | 3483.6 | 2717.0 | 807.0 | 213.8 | 162.5 | 121.0 | 99.9 | 91.7 | 88.8 | 86.7 | 87.8 |
| 40° | 3507.8 | 2641.2 | 596.3 | 195.7 | 142.2 | 100.9 | 84.7 | 80.7 | 77.7 | 76.6 | 76.6 |
| 42.5° | 3613.8 | 2628.1 | 443.0 | 179.7 | 123.1 | 83.7 | 73.7 | 70.6 | 68.6 | 67.6 | 68.6 |
| 45° | 3892.3 | 2708.7 | 344.1 | 164.4 | 103.9 | 70.6 | 62.5 | 61.5 | 60.5 | 60.5 | 60.5 |
| 47.5° | 4311.0 | 2875.2 | 286.5 | 147.3 | 86.7 | 60.5 | 54.4 | 53.4 | 52.6 | 53.4 | 53.4 |
| 50° | 5020.2 | 3180.0 | 256.2 | 130.2 | 71.7 | 51.5 | 46.4 | 46.4 | 46.4 | 46.4 | 47.4 |
| 52.5° | 6098.7 | 3779.2 | 236.1 | 112.9 | 58.5 | 43.4 | 39.3 | 39.3 | 40.3 | 40.3 | 41.3 |
| 55° | 7300.2 | 4574.2 | 217.8 | 95.8 | 49.4 | 36.3 | 32.2 | 33.2 | 34.2 | 35.4 | 35.4 |
| 57.5° | 8603.6 | 5455.0 | 202.7 | 78.7 | 42.4 | 29.3 | 27.3 | 28.2 | 29.3 | 31.4 | 31.4 |
| 60° | 10176.4 | 6408.4 | 180.6 | 61.5 | 35.4 | 23.1 | 21.2 | 23.1 | 26.2 | 28.2 | 29.3 |
| 62.5° | 11903.7 | 7330.4 | 152.4 | 48.4 | 29.3 | 18.1 | 17.2 | 21.2 | 25.2 | 27.3 | 28.2 |
| 65° | 13084.1 | 7620.1 | 117.0 | 39.3 | 22.2 | 13.1 | 14.2 | 19.1 | 24.3 | 27.3 | 27.3 |
| 67° | 12605.8 | 6908.8 | 95.8 | 33.2 | 18.1 | 10.2 | 13.1 | 19.1 | 24.3 | 26.2 | 27.3 |
| 67.5° | 12273.9 | 6630.3 | 91.7 | 32.2 | 17.2 | 10.2 | 13.1 | 19.1 | 24.3 | 27.3 | 27.3 |
| 70° | 9986.8 | 4980.8 | 76.6 | 24.3 | 14.2 | 9.2 | 11.0 | 18.1 | 23.1 | 26.2 | 26.2 |
| 72.5° | 6939.0 | 3071.0 | 68.6 | 17.2 | 12.0 | 8.1 | 10.2 | 17.2 | 22.2 | 25.2 | 26.2 |
| 75° | 3299.0 | 1111.8 | 58.5 | 13.1 | 11.0 | 7.0 | 9.2 | 17.2 | 22.2 | 25.2 | 25.2 |
| 77.5° | 672.9 | 258.3 | 47.4 | 11.0 | 9.2 | 7.0 | 8.1 | 16.1 | 21.2 | 24.3 | 24.3 |
| 80° | 221.0 | 99.9 | 35.4 | 10.2 | 9.2 | 7.0 | 8.1 | 15.1 | 21.2 | 23.1 | 24.3 |
| 82.5° | 159.4 | 50.5 | 23.1 | 10.2 | 9.2 | 7.0 | 7.0 | 15.1 | 20.2 | 23.1 | 23.1 |
| 85° | 122.1 | 35.4 | 15.1 | 10.2 | 9.2 | 7.0 | 7.0 | 14.2 | 19.1 | 22.2 | 22.2 |
| 87.5° | 80.7 | 14.2 | 12.0 | 10.2 | 9.2 | 7.0 | 7.0 | 14.2 | 18.1 | 21.2 | 22.2 |
| 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)