

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: P269327

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23011.8 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

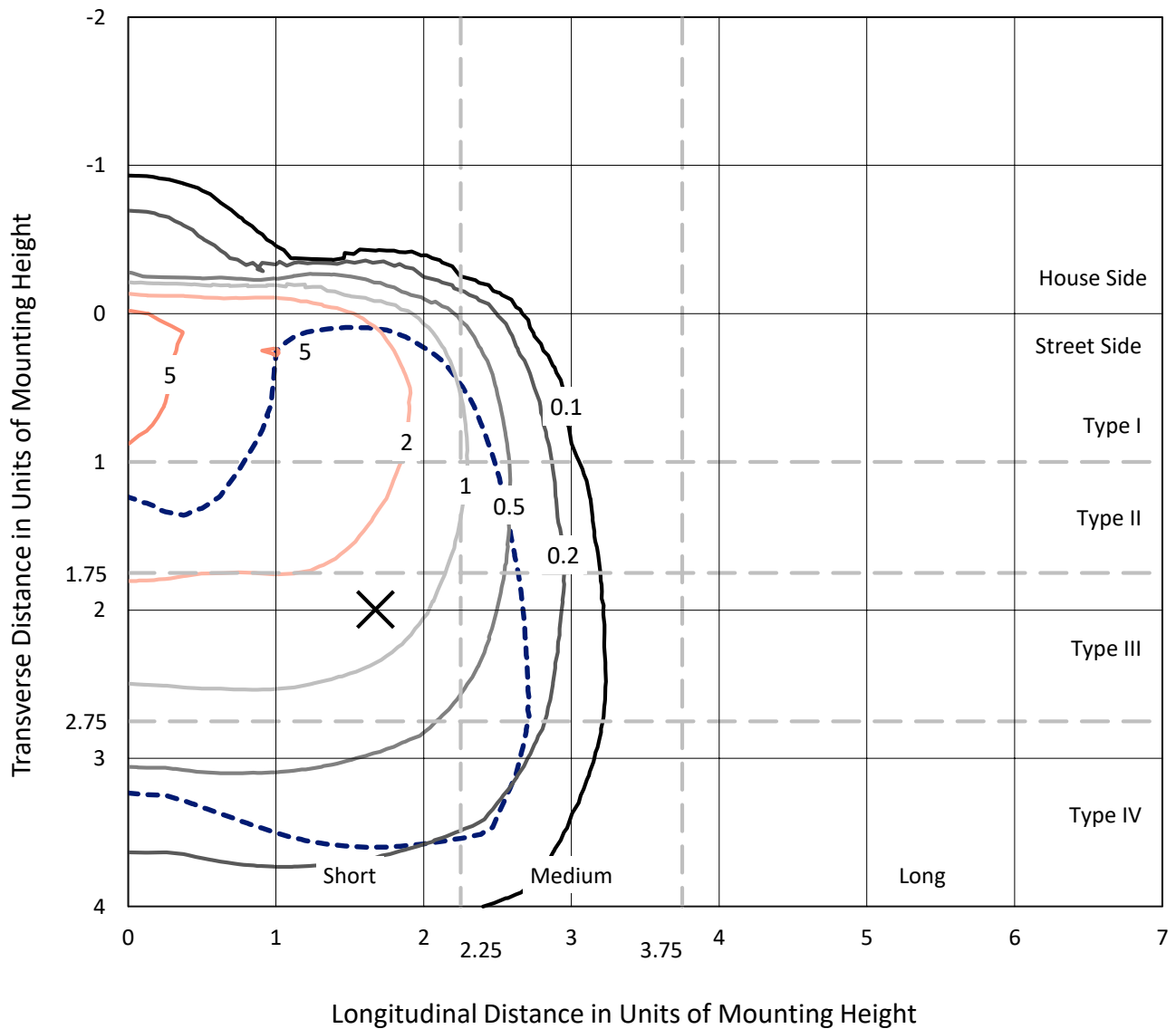


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

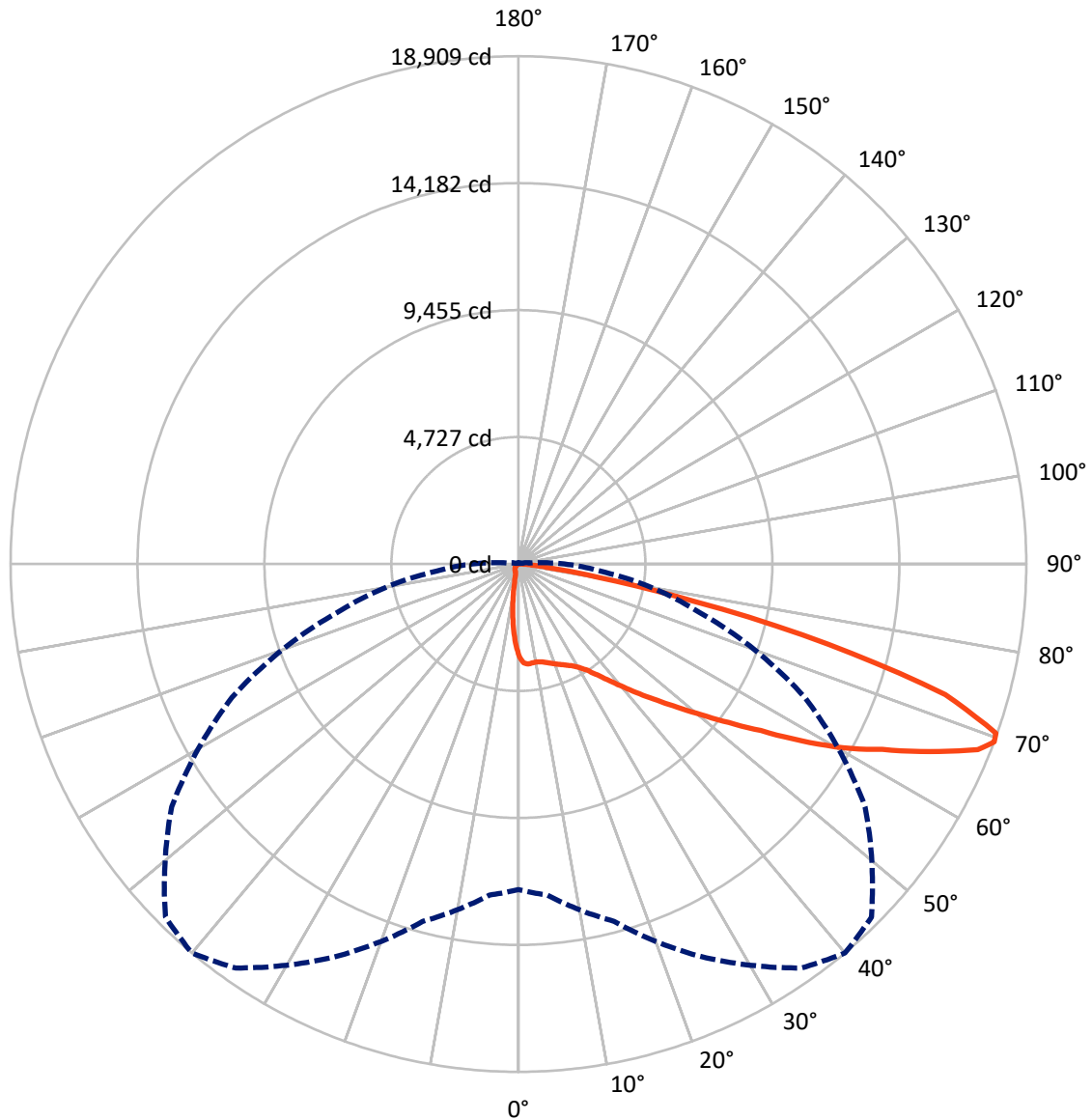


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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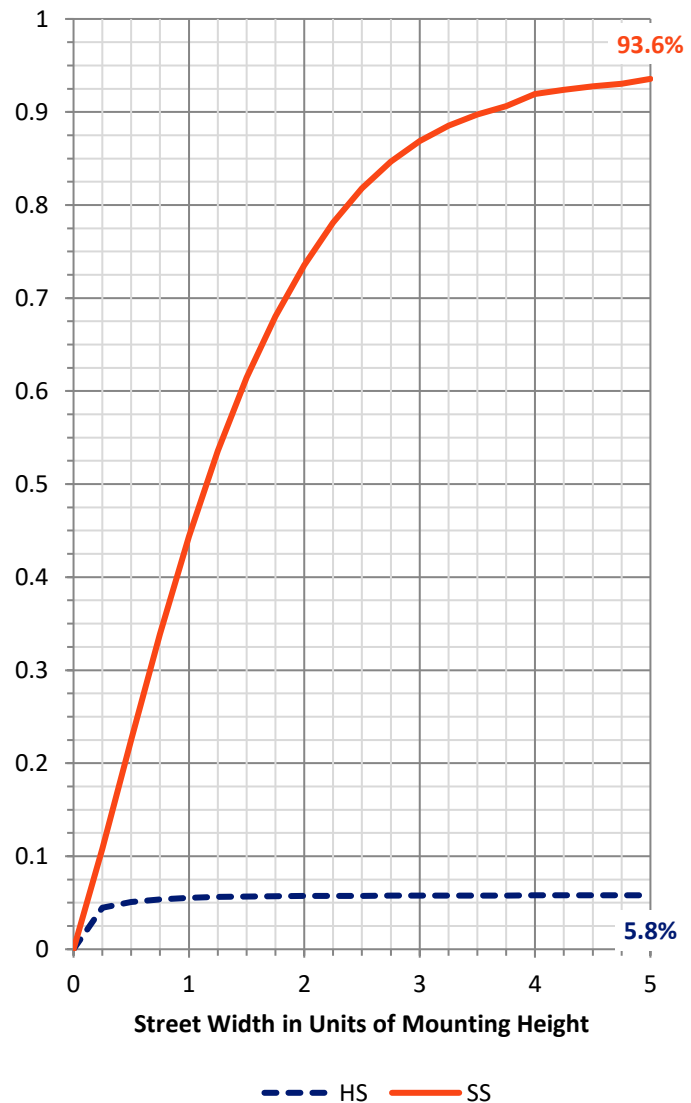
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1346.3 | 0.0 | 1346.3 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 21665.5 | 0.0 | 21665.5 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 23011.8 | 0.0 | 23011.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 278.8 | 1.2 |
| 10°-20° | 685.5 | 3.0 |
| 20°-30° | 1154.7 | 5.0 |
| 30°-40° | 1890.2 | 8.2 |
| 40°-50° | 3272.8 | 14.2 |
| 50°-60° | 5155.0 | 22.4 |
| 60°-70° | 6732.3 | 29.3 |
| 70°-80° | 3467.4 | 15.1 |
| 80°-90° | 375.1 | 1.6 |
| 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° | 23011.8 | 100.0 |
| 0°-180° | 23011.8 | 100.0 |

Coefficient of Utilization



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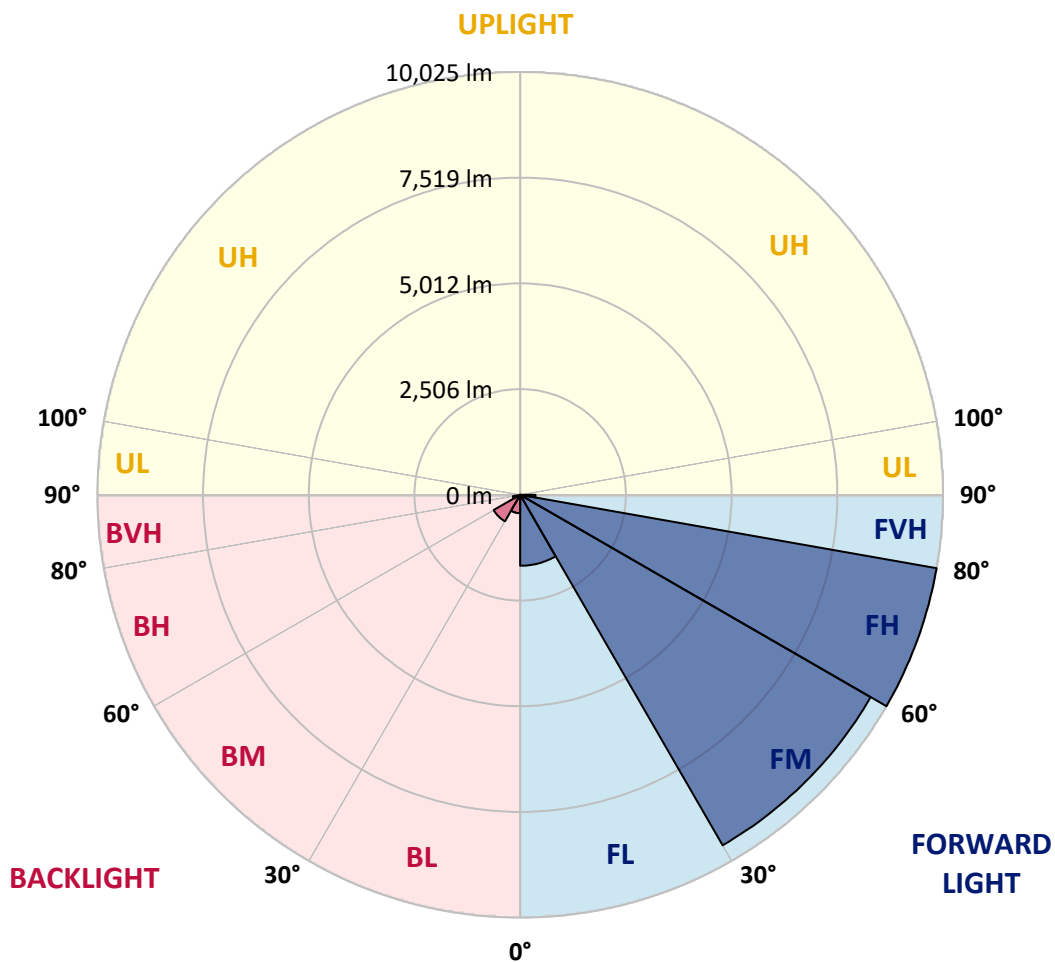
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1682.8 | 7.3 | | | |
| FM | (30°-60°) | 9594.5 | 41.7 | | | |
| FH | (60°-80°) | 10024.9 | 43.6 | | | G4/12000 |
| FVH | (80°-90°) | 363.3 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 436.1 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 723.6 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 174.8 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.8 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 |
| 2.5° | 3775.0 | 3754.5 | 3742.2 | 3725.7 | 3705.1 | 3687.5 | 3680.5 | 3629.8 | 3581.9 | 3516.1 | 3440.8 |
| 5° | 3844.8 | 3838.1 | 3816.1 | 3794.3 | 3769.6 | 3742.2 | 3727.1 | 3666.8 | 3598.3 | 3502.4 | 3371.0 |
| 7.5° | 3851.8 | 3843.6 | 3816.1 | 3785.9 | 3751.7 | 3719.0 | 3692.8 | 3632.6 | 3569.5 | 3472.3 | 3312.1 |
| 10° | 3840.9 | 3831.2 | 3810.7 | 3777.8 | 3735.3 | 3703.8 | 3677.8 | 3620.3 | 3566.8 | 3479.1 | 3301.1 |
| 12.5° | 3828.4 | 3818.9 | 3809.4 | 3792.9 | 3755.9 | 3734.0 | 3712.1 | 3657.2 | 3609.3 | 3535.3 | 3340.8 |
| 15° | 3840.9 | 3835.4 | 3846.3 | 3839.4 | 3818.9 | 3799.7 | 3777.8 | 3728.4 | 3684.7 | 3623.0 | 3413.4 |
| 17.5° | 3892.9 | 3892.9 | 3927.1 | 3931.3 | 3911.9 | 3884.6 | 3853.1 | 3803.9 | 3766.9 | 3714.9 | 3499.7 |
| 20° | 4014.7 | 4010.7 | 4054.5 | 4062.7 | 4016.1 | 3973.7 | 3927.1 | 3866.8 | 3838.1 | 3805.2 | 3584.6 |
| 22.5° | 4224.3 | 4205.1 | 4231.1 | 4222.9 | 4131.1 | 4065.4 | 4007.9 | 3933.9 | 3918.9 | 3903.9 | 3679.2 |
| 25° | 4496.9 | 4486.0 | 4503.7 | 4423.0 | 4261.3 | 4172.3 | 4103.7 | 4020.3 | 4020.3 | 4035.2 | 3785.9 |
| 27.5° | 4892.8 | 4851.7 | 4791.4 | 4649.0 | 4406.5 | 4292.8 | 4218.8 | 4129.8 | 4153.1 | 4209.3 | 3927.1 |
| 30° | 5298.3 | 5253.0 | 5114.7 | 4895.6 | 4583.2 | 4464.0 | 4377.7 | 4284.6 | 4339.4 | 4442.1 | 4116.2 |
| 32.5° | 5698.2 | 5647.6 | 5451.6 | 5175.0 | 4836.7 | 4717.4 | 4633.8 | 4531.1 | 4622.9 | 4795.5 | 4392.8 |
| 35° | 6085.7 | 6040.7 | 5814.5 | 5488.6 | 5173.6 | 5075.0 | 4998.2 | 4909.1 | 5026.9 | 5268.1 | 4783.1 |
| 37.5° | 6521.3 | 6472.1 | 6196.8 | 5843.4 | 5583.1 | 5511.9 | 5455.8 | 5366.7 | 5572.1 | 5925.6 | 5326.9 |
| 40° | 7056.9 | 6973.5 | 6602.3 | 6250.1 | 6057.0 | 6022.7 | 5984.5 | 5972.1 | 6291.3 | 6780.2 | 6051.6 |
| 42.5° | 7670.6 | 7533.6 | 7026.8 | 6678.9 | 6577.6 | 6602.3 | 6592.7 | 6647.4 | 7191.2 | 7843.2 | 6933.7 |
| 45° | 8284.3 | 8107.6 | 7499.4 | 7136.5 | 7150.1 | 7236.3 | 7289.8 | 7509.0 | 8318.6 | 9062.3 | 7882.9 |
| 47.5° | 8804.7 | 8630.8 | 7952.8 | 7630.9 | 7795.3 | 7965.1 | 8110.3 | 8525.4 | 9477.3 | 10262.1 | 8621.3 |
| 50° | 9249.9 | 9085.5 | 8433.6 | 8174.7 | 8544.5 | 8818.5 | 9054.0 | 9669.0 | 10723.7 | 11175.9 | 9138.9 |
| 52.5° | 9614.3 | 9504.7 | 8932.1 | 8797.9 | 9400.7 | 9801.9 | 10147.2 | 10884.0 | 11827.9 | 11918.3 | 9541.6 |
| 55° | 9969.1 | 9891.0 | 9467.7 | 9538.9 | 10406.1 | 10952.6 | 11389.5 | 12173.0 | 12778.4 | 12537.4 | 9928.0 |
| 57.5° | 10377.3 | 10306.1 | 10078.7 | 10478.5 | 11727.8 | 12415.5 | 12892.1 | 13315.3 | 13615.4 | 13170.2 | 10292.3 |
| 60° | 10793.7 | 10752.6 | 10758.0 | 11522.4 | 13245.5 | 13905.8 | 14168.7 | 14278.3 | 14437.2 | 13766.0 | 10312.9 |
| 62.5° | 11190.8 | 11269.0 | 11534.6 | 12683.9 | 14698.8 | 15205.6 | 15338.5 | 15446.7 | 15260.4 | 13860.6 | 9528.1 |
| 65° | 11863.5 | 11990.8 | 12625.0 | 14238.6 | 16297.3 | 16839.7 | 16976.8 | 16605.4 | 15390.5 | 12638.8 | 7750.0 |
| 67.5° | 12192.2 | 12425.0 | 13556.4 | 15687.8 | 17848.0 | 18450.6 | 18400.0 | 16680.8 | 13811.3 | 9637.6 | 4973.6 |
| 69° | 12123.6 | 12371.5 | 13771.6 | 16131.7 | 18363.0 | 18909.4 | 18587.5 | 15759.1 | 11766.2 | 6981.6 | 3053.2 |
| 70° | 11852.4 | 12103.1 | 13660.5 | 16115.1 | 18428.6 | 18861.5 | 18239.6 | 14620.8 | 9948.5 | 5105.1 | 1909.4 |
| 72.5° | 9897.9 | 10114.2 | 12127.7 | 14565.9 | 16976.8 | 16624.8 | 15259.1 | 10129.4 | 4847.6 | 1390.2 | 430.1 |
| 75° | 6092.7 | 6213.1 | 8702.1 | 10973.1 | 12822.2 | 11918.3 | 10166.3 | 5039.3 | 1445.2 | 393.1 | 238.3 |
| 77.5° | 3218.9 | 3273.8 | 4764.0 | 6467.9 | 8128.1 | 6725.5 | 5210.6 | 1965.6 | 665.7 | 246.6 | 172.6 |
| 80° | 1902.6 | 1943.8 | 2565.6 | 2957.3 | 3517.6 | 2938.1 | 2083.3 | 1206.8 | 476.7 | 154.8 | 153.4 |
| 82.5° | 1088.9 | 1114.9 | 1860.1 | 1643.7 | 1386.2 | 1183.4 | 1037.0 | 1143.7 | 286.3 | 104.2 | 158.9 |
| 85° | 399.9 | 405.5 | 1046.4 | 1250.6 | 824.6 | 490.4 | 515.0 | 947.9 | 76.7 | 65.8 | 124.7 |
| 87.5° | 186.3 | 182.1 | 538.4 | 765.6 | 482.2 | 311.0 | 401.4 | 208.1 | 30.2 | 42.5 | 34.2 |
| 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° | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 | 3438.2 |
| 2.5° | 3397.0 | 3346.2 | 3254.5 | 3160.0 | 3064.2 | 2990.2 | 2917.5 | 2860.1 | 2840.9 | 2805.2 | 2808.0 |
| 5° | 3292.8 | 3199.8 | 3008.0 | 2813.5 | 2610.7 | 2443.6 | 2286.1 | 2158.7 | 2097.2 | 2034.1 | 2034.1 |
| 7.5° | 3202.5 | 3066.9 | 2766.9 | 2450.4 | 2123.1 | 1847.9 | 1599.9 | 1413.7 | 1310.8 | 1228.7 | 1227.4 |
| 10° | 3168.2 | 2984.7 | 2565.6 | 2112.2 | 1656.0 | 1280.8 | 986.2 | 797.2 | 700.0 | 637.0 | 634.3 |
| 12.5° | 3183.4 | 2956.0 | 2410.8 | 1799.8 | 1227.4 | 823.2 | 571.2 | 449.3 | 408.2 | 389.1 | 389.1 |
| 15° | 3227.2 | 2947.7 | 2256.1 | 1494.4 | 867.0 | 515.0 | 379.4 | 346.6 | 343.8 | 343.8 | 343.8 |
| 17.5° | 3280.6 | 2950.5 | 2097.2 | 1197.3 | 590.4 | 368.5 | 327.3 | 323.3 | 326.1 | 326.1 | 326.1 |
| 20° | 3335.3 | 2951.8 | 1925.8 | 921.8 | 416.5 | 320.5 | 308.2 | 306.9 | 309.6 | 309.6 | 311.0 |
| 22.5° | 3402.5 | 2958.7 | 1754.7 | 689.0 | 343.8 | 302.6 | 293.1 | 293.1 | 294.6 | 294.6 | 293.1 |
| 25° | 3479.1 | 2972.3 | 1576.5 | 511.0 | 313.7 | 290.4 | 282.2 | 280.8 | 282.2 | 280.8 | 279.5 |
| 27.5° | 3575.1 | 2991.5 | 1378.0 | 399.9 | 299.9 | 278.0 | 271.2 | 271.2 | 269.9 | 268.5 | 267.1 |
| 30° | 3695.5 | 3013.5 | 1154.7 | 339.6 | 286.3 | 267.1 | 260.2 | 258.9 | 257.5 | 254.8 | 254.8 |
| 32.5° | 3879.2 | 3061.5 | 934.1 | 308.2 | 271.2 | 252.1 | 246.6 | 246.6 | 243.8 | 241.0 | 239.7 |
| 35° | 4161.3 | 3155.9 | 736.9 | 289.1 | 254.8 | 235.5 | 228.8 | 228.8 | 226.1 | 224.7 | 223.3 |
| 37.5° | 4551.7 | 3299.7 | 572.6 | 271.2 | 238.3 | 217.7 | 210.9 | 209.6 | 206.8 | 204.1 | 202.7 |
| 40° | 5070.8 | 3477.8 | 450.7 | 254.8 | 221.9 | 200.1 | 194.6 | 191.8 | 186.3 | 182.1 | 182.1 |
| 42.5° | 5722.8 | 3680.5 | 365.7 | 237.0 | 202.7 | 183.6 | 179.4 | 175.3 | 165.7 | 161.7 | 160.3 |
| 45° | 6404.9 | 3862.7 | 309.6 | 216.4 | 183.6 | 167.2 | 164.4 | 157.6 | 145.2 | 141.0 | 141.0 |
| 47.5° | 6896.6 | 3905.2 | 272.5 | 197.3 | 165.7 | 149.3 | 148.0 | 135.6 | 124.7 | 121.9 | 120.6 |
| 50° | 7203.6 | 3821.6 | 242.5 | 178.0 | 149.3 | 132.9 | 128.7 | 113.6 | 106.9 | 104.2 | 102.8 |
| 52.5° | 7410.4 | 3672.4 | 217.7 | 161.7 | 134.2 | 117.8 | 108.2 | 97.2 | 91.7 | 89.0 | 89.0 |
| 55° | 7576.1 | 3461.3 | 193.1 | 146.6 | 121.9 | 105.6 | 91.7 | 83.5 | 78.1 | 75.4 | 75.4 |
| 57.5° | 7622.7 | 3175.1 | 168.5 | 134.2 | 109.6 | 93.2 | 78.1 | 72.7 | 65.8 | 64.4 | 64.4 |
| 60° | 7284.4 | 2658.8 | 149.3 | 119.1 | 98.6 | 80.8 | 68.5 | 61.7 | 54.7 | 53.4 | 52.0 |
| 62.5° | 6392.7 | 2057.4 | 131.5 | 105.6 | 86.2 | 69.9 | 58.8 | 50.7 | 45.3 | 45.3 | 45.3 |
| 65° | 4876.3 | 1379.3 | 115.1 | 91.7 | 75.4 | 58.8 | 50.7 | 41.1 | 38.4 | 38.4 | 39.7 |
| 67.5° | 2919.0 | 750.7 | 98.6 | 78.1 | 64.4 | 49.2 | 42.5 | 35.7 | 34.2 | 35.7 | 35.7 |
| 69° | 1710.8 | 441.1 | 89.0 | 69.9 | 56.1 | 43.8 | 37.0 | 31.5 | 34.2 | 35.7 | 35.7 |
| 70° | 1056.0 | 297.2 | 82.1 | 63.1 | 50.7 | 39.7 | 34.2 | 30.2 | 32.9 | 34.2 | 34.2 |
| 72.5° | 294.6 | 153.4 | 65.8 | 49.2 | 41.1 | 32.9 | 27.4 | 27.4 | 31.5 | 32.9 | 32.9 |
| 75° | 191.8 | 113.6 | 50.7 | 37.0 | 31.5 | 26.1 | 23.3 | 26.1 | 30.2 | 31.5 | 31.5 |
| 77.5° | 158.9 | 93.2 | 41.1 | 30.2 | 26.1 | 24.7 | 21.9 | 23.3 | 27.4 | 28.7 | 28.7 |
| 80° | 145.2 | 65.8 | 32.9 | 27.4 | 23.3 | 21.9 | 20.5 | 19.1 | 24.7 | 26.1 | 26.1 |
| 82.5° | 138.3 | 52.0 | 28.7 | 24.7 | 21.9 | 19.1 | 17.7 | 19.1 | 21.9 | 23.3 | 24.7 |
| 85° | 86.2 | 34.2 | 26.1 | 23.3 | 19.1 | 17.7 | 17.7 | 17.7 | 20.5 | 21.9 | 21.9 |
| 87.5° | 31.5 | 27.4 | 23.3 | 19.1 | 16.3 | 16.3 | 16.3 | 16.3 | 17.7 | 20.5 | 20.5 |
| 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)