

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: P532170

Luminaire Tested: **GALN-SA7C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38022 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

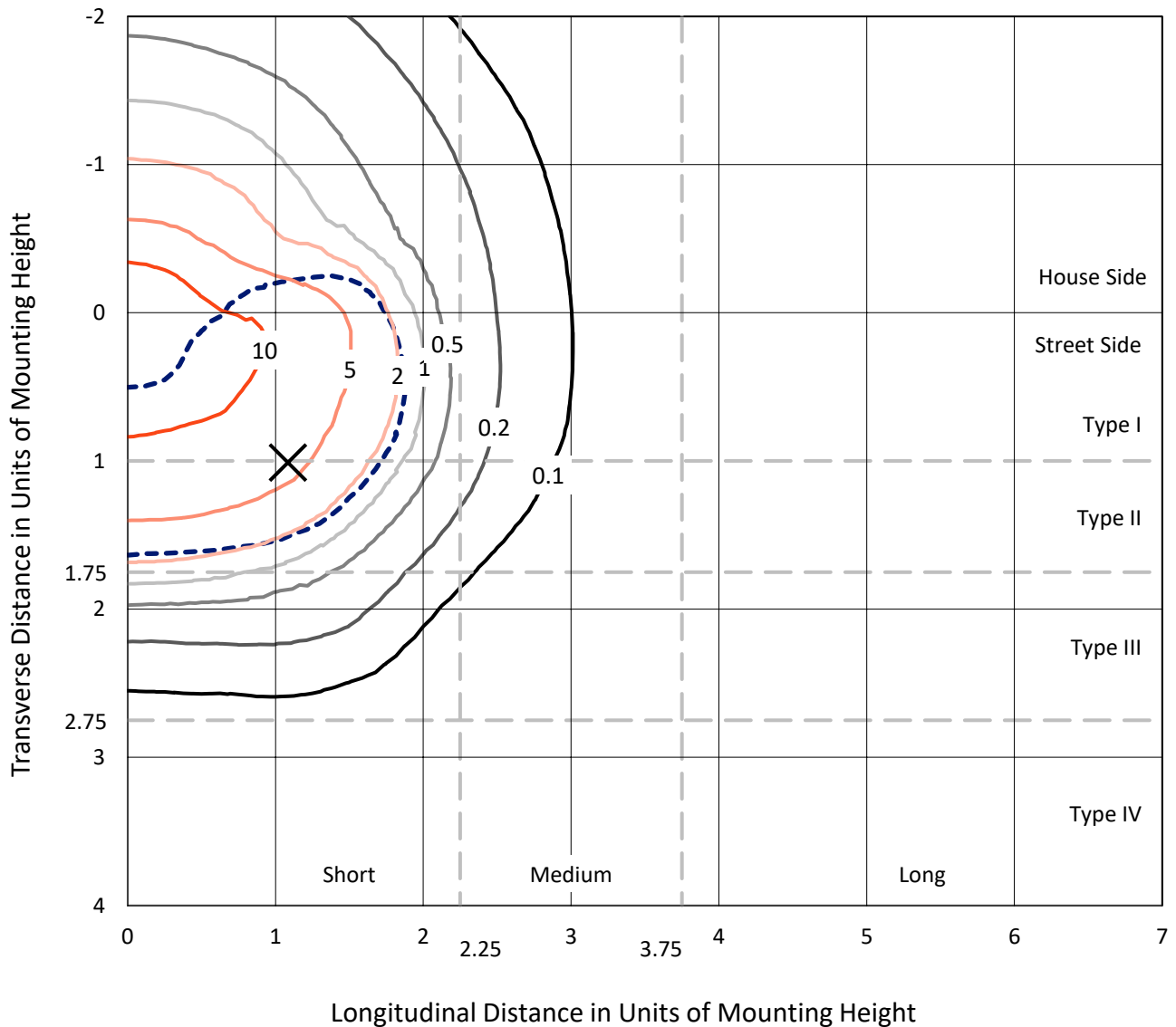
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

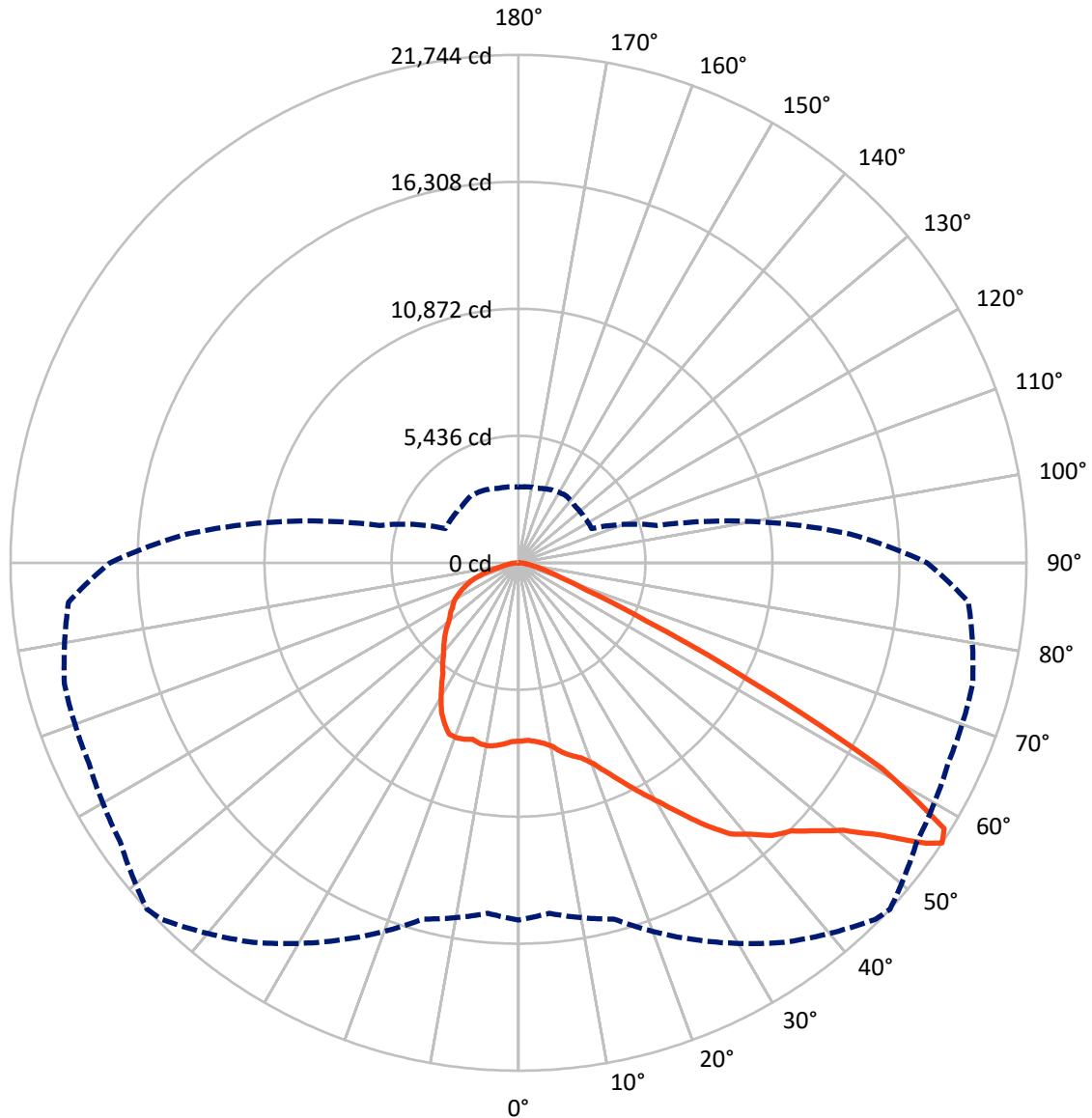
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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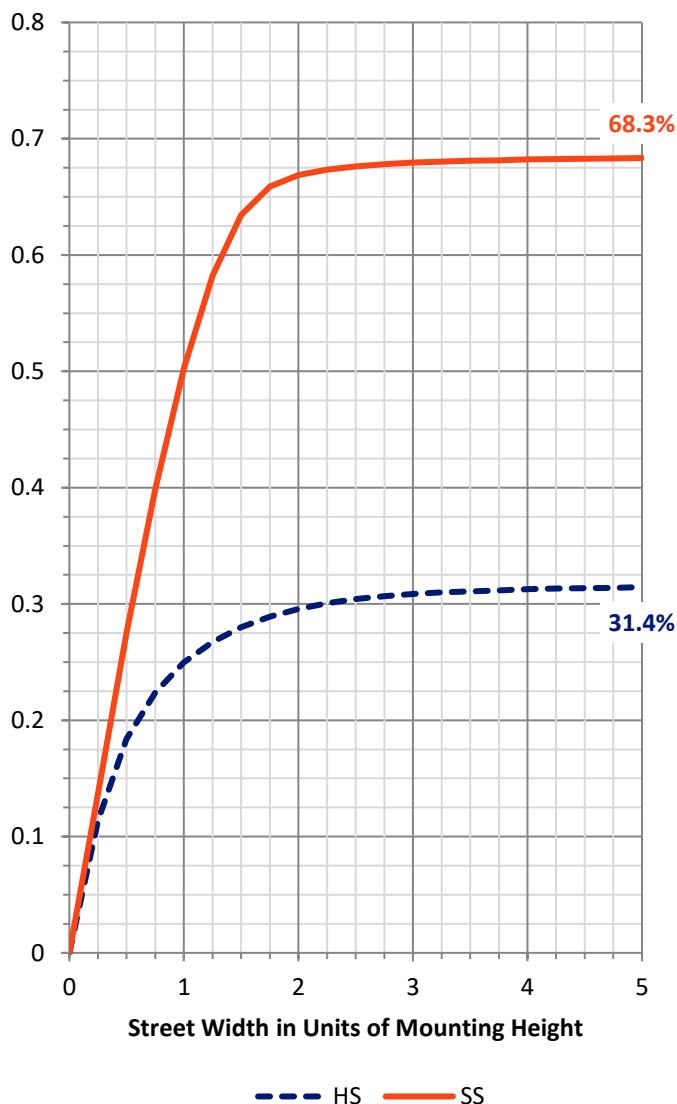
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12048.7 | 0.0 | 12048.7 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 25973.3 | 0.0 | 25973.3 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 38022.0 | 0.0 | 38022.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 744.2 | 2.0 |
| 10°-20° | 2347.5 | 6.2 |
| 20°-30° | 4149.8 | 10.9 |
| 30°-40° | 6232.8 | 16.4 |
| 40°-50° | 8553.9 | 22.5 |
| 50°-60° | 10190.9 | 26.8 |
| 60°-70° | 4361.1 | 11.5 |
| 70°-80° | 1234.2 | 3.2 |
| 80°-90° | 207.7 | 0.5 |
| 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° | 38022.0 | 100.0 |
| 0°-180° | 38022.0 | 100.0 |

Coefficient of Utilization

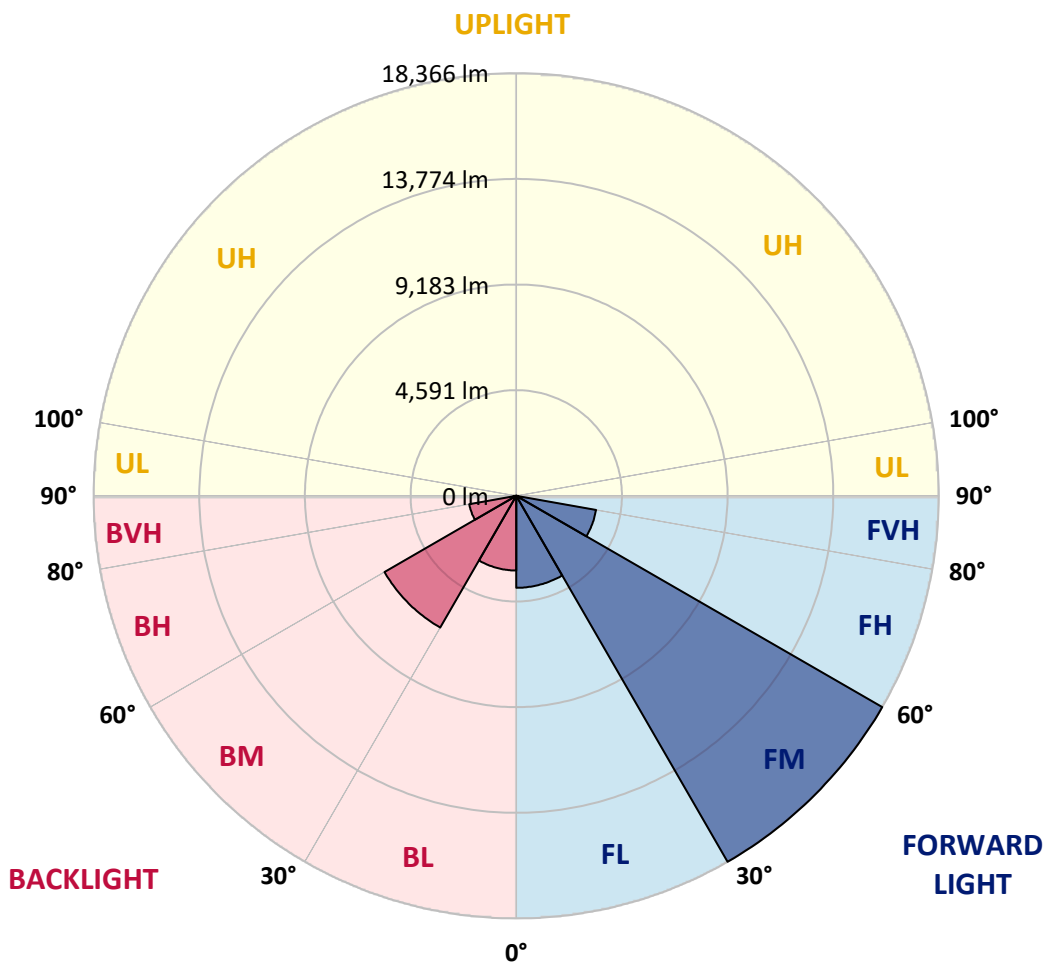


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3997.4 | 10.5 | | | |
| FM (30°-60°) | 18365.5 | 48.3 | | | |
| FH (60°-80°) | 3522.2 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 88.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3244.0 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 6612.1 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 2073.0 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 119.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 |
| 2.5° | 7608.4 | 7593.8 | 7584.1 | 7661.7 | 7632.6 | 7637.5 | 7608.4 | 7637.5 | 7656.9 | 7613.2 | 7676.3 |
| 5° | 7593.8 | 7637.5 | 7598.7 | 7622.9 | 7686.0 | 7666.6 | 7686.0 | 7744.1 | 7729.6 | 7715.1 | 7695.7 |
| 7.5° | 7729.6 | 7734.4 | 7763.5 | 7773.2 | 7792.6 | 7773.2 | 7802.3 | 7855.7 | 7841.1 | 7758.7 | 7768.4 |
| 10° | 7923.6 | 7933.3 | 7938.1 | 7991.5 | 8025.4 | 8030.2 | 7996.3 | 7947.8 | 7943.0 | 8054.5 | 7976.9 |
| 12.5° | 8146.6 | 8122.4 | 8180.6 | 8200.0 | 8238.8 | 8282.4 | 8326.0 | 8224.2 | 8287.3 | 8292.1 | 8200.0 |
| 15° | 8471.5 | 8495.8 | 8427.9 | 8427.9 | 8442.4 | 8447.3 | 8568.5 | 8520.0 | 8510.3 | 8457.0 | 8495.8 |
| 17.5° | 8956.4 | 8791.6 | 8786.7 | 8718.8 | 8709.1 | 8747.9 | 8791.6 | 8830.4 | 8961.3 | 8854.6 | 8646.1 |
| 20° | 9310.4 | 9349.2 | 9208.6 | 9126.2 | 9140.7 | 9228.0 | 9184.4 | 9358.9 | 9451.1 | 9276.5 | 9072.8 |
| 22.5° | 9936.0 | 9805.0 | 9839.0 | 9654.7 | 9669.3 | 9761.4 | 9756.6 | 9936.0 | 9989.3 | 9712.9 | 9417.1 |
| 25° | 10357.9 | 10323.9 | 10353.0 | 10207.5 | 10226.9 | 10299.7 | 10416.0 | 10711.8 | 10624.6 | 10319.1 | 9635.3 |
| 27.5° | 10973.7 | 10905.8 | 10881.6 | 10828.2 | 10808.8 | 11002.8 | 11138.6 | 11453.8 | 11390.7 | 10944.6 | 10023.3 |
| 30° | 11604.1 | 11560.5 | 11584.7 | 11366.5 | 11444.1 | 11856.3 | 11895.0 | 12326.6 | 12297.5 | 11512.0 | 10454.8 |
| 32.5° | 12040.5 | 12064.8 | 12108.4 | 11987.2 | 12331.5 | 12661.2 | 12792.1 | 13281.9 | 13306.2 | 12486.6 | 11288.9 |
| 35° | 12743.7 | 12661.2 | 12685.5 | 12826.1 | 12986.1 | 13587.4 | 13800.8 | 14125.7 | 14329.3 | 13509.8 | 12089.0 |
| 37.5° | 13184.9 | 13272.2 | 13170.4 | 13393.4 | 13810.5 | 14533.0 | 14727.0 | 15061.6 | 15274.9 | 14518.5 | 13180.1 |
| 40° | 13873.5 | 13732.9 | 13805.6 | 13965.6 | 14392.4 | 15333.1 | 15279.8 | 15624.1 | 15692.0 | 15376.8 | 14198.4 |
| 42.5° | 14615.4 | 14547.6 | 14445.7 | 14809.4 | 15168.2 | 15852.0 | 15958.7 | 15798.6 | 16142.9 | 16215.7 | 15653.2 |
| 45° | 15502.8 | 15585.3 | 15599.8 | 15609.5 | 15924.7 | 16521.2 | 16375.7 | 16235.1 | 16632.7 | 17161.3 | 16555.1 |
| 47.5° | 16327.2 | 16065.3 | 16254.5 | 16516.3 | 16962.4 | 16967.3 | 17137.0 | 16802.4 | 17224.3 | 17694.7 | 17369.8 |
| 50° | 16603.6 | 16477.5 | 16729.7 | 17224.3 | 17912.9 | 17985.6 | 18005.0 | 17529.8 | 17748.0 | 18121.4 | 17651.0 |
| 52.5° | 16496.9 | 16453.3 | 17098.2 | 17864.4 | 18873.0 | 19241.6 | 19338.5 | 18751.8 | 18873.0 | 18703.3 | 18271.7 |
| 55° | 15987.8 | 16118.7 | 16768.5 | 18329.9 | 19876.8 | 21016.4 | 21200.6 | 20458.7 | 19687.7 | 19818.6 | 19343.4 |
| 56° | 15289.5 | 15061.6 | 15788.9 | 17801.4 | 19833.2 | 21593.4 | 21743.7 | 20817.5 | 20293.8 | 20124.1 | 19333.7 |
| 57.5° | 12971.6 | 12675.8 | 13631.1 | 16016.9 | 18732.4 | 21375.2 | 21486.7 | 20967.9 | 20192.0 | 19847.7 | 17922.6 |
| 60° | 7593.8 | 7739.3 | 8951.6 | 11046.4 | 14450.6 | 17525.0 | 17898.3 | 18276.6 | 17757.7 | 16215.7 | 13340.1 |
| 62.5° | 3666.0 | 3573.8 | 4441.9 | 6333.0 | 8806.1 | 11187.1 | 11075.5 | 12137.5 | 12719.4 | 11521.7 | 8423.0 |
| 65° | 1920.3 | 1910.6 | 2424.6 | 3457.5 | 4839.5 | 5877.2 | 5979.0 | 6551.2 | 7351.4 | 5935.4 | 4277.0 |
| 67.5° | 1411.1 | 1449.9 | 1706.9 | 2429.4 | 3113.2 | 3176.2 | 3161.7 | 3447.8 | 3525.4 | 2982.2 | 2628.3 |
| 70° | 1105.6 | 1125.0 | 1314.1 | 1847.5 | 2317.9 | 2075.5 | 2031.8 | 2065.8 | 2293.7 | 2390.6 | 2274.3 |
| 72.5° | 800.1 | 819.5 | 979.5 | 1246.2 | 1449.9 | 1416.0 | 1445.1 | 1634.2 | 1915.4 | 2017.3 | 1896.0 |
| 75° | 533.4 | 548.0 | 635.2 | 761.3 | 858.3 | 926.2 | 979.5 | 1197.7 | 1459.6 | 1517.8 | 1459.6 |
| 77.5° | 368.5 | 383.1 | 441.3 | 538.3 | 548.0 | 591.6 | 611.0 | 712.8 | 872.9 | 945.6 | 906.8 |
| 80° | 208.5 | 208.5 | 237.6 | 276.4 | 339.4 | 397.6 | 407.3 | 489.8 | 562.5 | 611.0 | 620.7 |
| 82.5° | 97.0 | 101.8 | 126.1 | 169.7 | 223.1 | 276.4 | 286.1 | 339.4 | 392.8 | 441.3 | 455.8 |
| 85° | 48.5 | 53.3 | 72.7 | 101.8 | 135.8 | 164.9 | 160.0 | 164.9 | 174.6 | 164.9 | 169.7 |
| 87.5° | 14.5 | 14.5 | 19.4 | 24.2 | 19.4 | 24.2 | 24.2 | 29.1 | 33.9 | 38.8 | 43.6 |
| 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° | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 | 7637.5 |
| 2.5° | 7681.1 | 7695.7 | 7598.7 | 7690.8 | 7656.9 | 7652.0 | 7719.9 | 7710.2 | 7734.4 | 7724.7 | 7666.6 |
| 5° | 7686.0 | 7652.0 | 7753.8 | 7661.7 | 7705.4 | 7797.5 | 7734.4 | 7879.9 | 7807.2 | 7855.7 | 7749.0 |
| 7.5° | 7836.3 | 7846.0 | 7826.6 | 7865.4 | 7846.0 | 7889.6 | 7855.7 | 7889.6 | 7831.4 | 7836.3 | 7933.3 |
| 10° | 7967.2 | 7938.1 | 7972.1 | 7923.6 | 7957.5 | 7943.0 | 7865.4 | 7841.1 | 7860.5 | 7836.3 | 7899.3 |
| 12.5° | 8209.7 | 8156.3 | 8132.1 | 8073.9 | 8035.1 | 7889.6 | 7768.4 | 7700.5 | 7792.6 | 7807.2 | 7778.1 |
| 15° | 8457.0 | 8461.8 | 8350.3 | 8219.4 | 7976.9 | 7758.7 | 7787.8 | 7812.0 | 7812.0 | 7850.8 | 7778.1 |
| 17.5° | 8612.2 | 8612.2 | 8510.3 | 8248.5 | 8001.2 | 7875.1 | 7846.0 | 7768.4 | 7700.5 | 7690.8 | 7686.0 |
| 20° | 8883.7 | 8801.3 | 8568.5 | 8243.6 | 7991.5 | 7933.3 | 7715.1 | 7530.8 | 7390.2 | 7341.7 | 7336.8 |
| 22.5° | 9194.1 | 8985.5 | 8660.6 | 8253.3 | 7976.9 | 7894.5 | 7487.1 | 7210.7 | 6958.6 | 6851.9 | 6866.4 |
| 25° | 9480.2 | 9145.6 | 8714.0 | 8209.7 | 7923.6 | 7525.9 | 7070.1 | 6687.0 | 6425.2 | 6337.9 | 6294.2 |
| 27.5° | 9679.0 | 9315.3 | 8714.0 | 8248.5 | 7724.7 | 7113.8 | 6648.2 | 6158.5 | 5930.6 | 5872.4 | 5882.1 |
| 30° | 9945.7 | 9528.6 | 8864.3 | 8166.0 | 7327.1 | 6580.3 | 6022.7 | 5702.6 | 5566.9 | 5518.4 | 5552.3 |
| 32.5° | 10571.2 | 10086.3 | 9072.8 | 7967.2 | 6856.7 | 6046.9 | 5596.0 | 5416.5 | 5217.7 | 5120.7 | 5086.8 |
| 35° | 11250.1 | 10614.9 | 9276.5 | 7632.6 | 6328.2 | 5562.0 | 5280.8 | 5115.9 | 4878.3 | 4771.6 | 4791.0 |
| 37.5° | 12210.2 | 11293.7 | 9291.0 | 7079.8 | 5756.0 | 5290.5 | 5033.5 | 4776.4 | 4582.5 | 4417.6 | 4369.1 |
| 40° | 13505.0 | 12219.9 | 9257.1 | 6497.9 | 5295.3 | 4970.4 | 4781.3 | 4461.2 | 4243.0 | 4126.7 | 4150.9 |
| 42.5° | 14644.5 | 13306.2 | 9116.5 | 5838.4 | 4878.3 | 4752.2 | 4538.8 | 4223.6 | 4010.3 | 3889.0 | 3879.3 |
| 45° | 15604.7 | 14106.3 | 8849.8 | 5275.9 | 4529.1 | 4509.7 | 4262.4 | 4020.0 | 3850.3 | 3738.7 | 3787.2 |
| 47.5° | 16492.1 | 14751.2 | 8447.3 | 4713.4 | 4209.1 | 4247.9 | 4010.3 | 3860.0 | 3753.3 | 3651.4 | 3646.6 |
| 50° | 16812.1 | 14741.5 | 8093.3 | 4247.9 | 3952.1 | 3932.7 | 3923.0 | 3763.0 | 3651.4 | 3564.2 | 3602.9 |
| 52.5° | 17345.5 | 14906.4 | 7710.2 | 3927.8 | 3719.3 | 3724.2 | 3758.1 | 3641.7 | 3515.7 | 3462.3 | 3510.8 |
| 55° | 18111.7 | 14930.6 | 6866.4 | 3554.5 | 3525.4 | 3559.3 | 3559.3 | 3481.7 | 3375.0 | 3331.4 | 3307.1 |
| 56° | 17486.2 | 14208.1 | 6158.5 | 3457.5 | 3428.4 | 3428.4 | 3520.5 | 3433.2 | 3302.3 | 3268.3 | 3239.3 |
| 57.5° | 16128.4 | 12447.9 | 5154.7 | 3341.1 | 3297.4 | 3365.3 | 3413.8 | 3321.7 | 3200.5 | 3152.0 | 3181.1 |
| 60° | 11124.0 | 8423.0 | 3874.5 | 3088.9 | 3088.9 | 3200.5 | 3239.3 | 3103.5 | 3050.1 | 3045.3 | 3006.5 |
| 62.5° | 6493.1 | 4907.4 | 3030.7 | 2861.0 | 2870.7 | 2962.9 | 2991.9 | 2914.4 | 2846.5 | 2928.9 | 2967.7 |
| 65° | 3442.9 | 2928.9 | 2599.2 | 2618.6 | 2623.4 | 2696.1 | 2822.2 | 2817.4 | 2812.5 | 2836.8 | 2841.6 |
| 67.5° | 2492.5 | 2434.3 | 2361.6 | 2342.2 | 2351.9 | 2405.2 | 2531.3 | 2628.3 | 2623.4 | 2565.2 | 2521.6 |
| 70° | 2220.9 | 2138.5 | 2094.8 | 2099.7 | 2060.9 | 2123.9 | 2225.8 | 2288.8 | 2177.3 | 2109.4 | 2080.3 |
| 72.5° | 1847.5 | 1823.3 | 1794.2 | 1799.0 | 1721.5 | 1706.9 | 1590.5 | 1590.5 | 1561.4 | 1542.0 | 1576.0 |
| 75° | 1411.1 | 1401.4 | 1416.0 | 1391.7 | 1309.3 | 1222.0 | 1154.1 | 1091.1 | 994.1 | 955.3 | 935.9 |
| 77.5° | 892.2 | 921.3 | 955.3 | 901.9 | 868.0 | 805.0 | 737.1 | 674.0 | 596.4 | 552.8 | 552.8 |
| 80° | 606.1 | 630.4 | 654.6 | 644.9 | 606.1 | 548.0 | 494.6 | 426.7 | 373.4 | 339.4 | 334.6 |
| 82.5° | 460.7 | 480.1 | 514.0 | 475.2 | 436.4 | 387.9 | 344.3 | 295.8 | 247.3 | 208.5 | 208.5 |
| 85° | 164.9 | 189.1 | 208.5 | 227.9 | 242.5 | 247.3 | 213.4 | 174.6 | 140.6 | 111.5 | 106.7 |
| 87.5° | 43.6 | 48.5 | 53.3 | 48.5 | 48.5 | 48.5 | 53.3 | 48.5 | 43.6 | 33.9 | 33.9 |
| 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)