

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: P648503

Luminaire Tested: **GALN-SA6B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21152.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

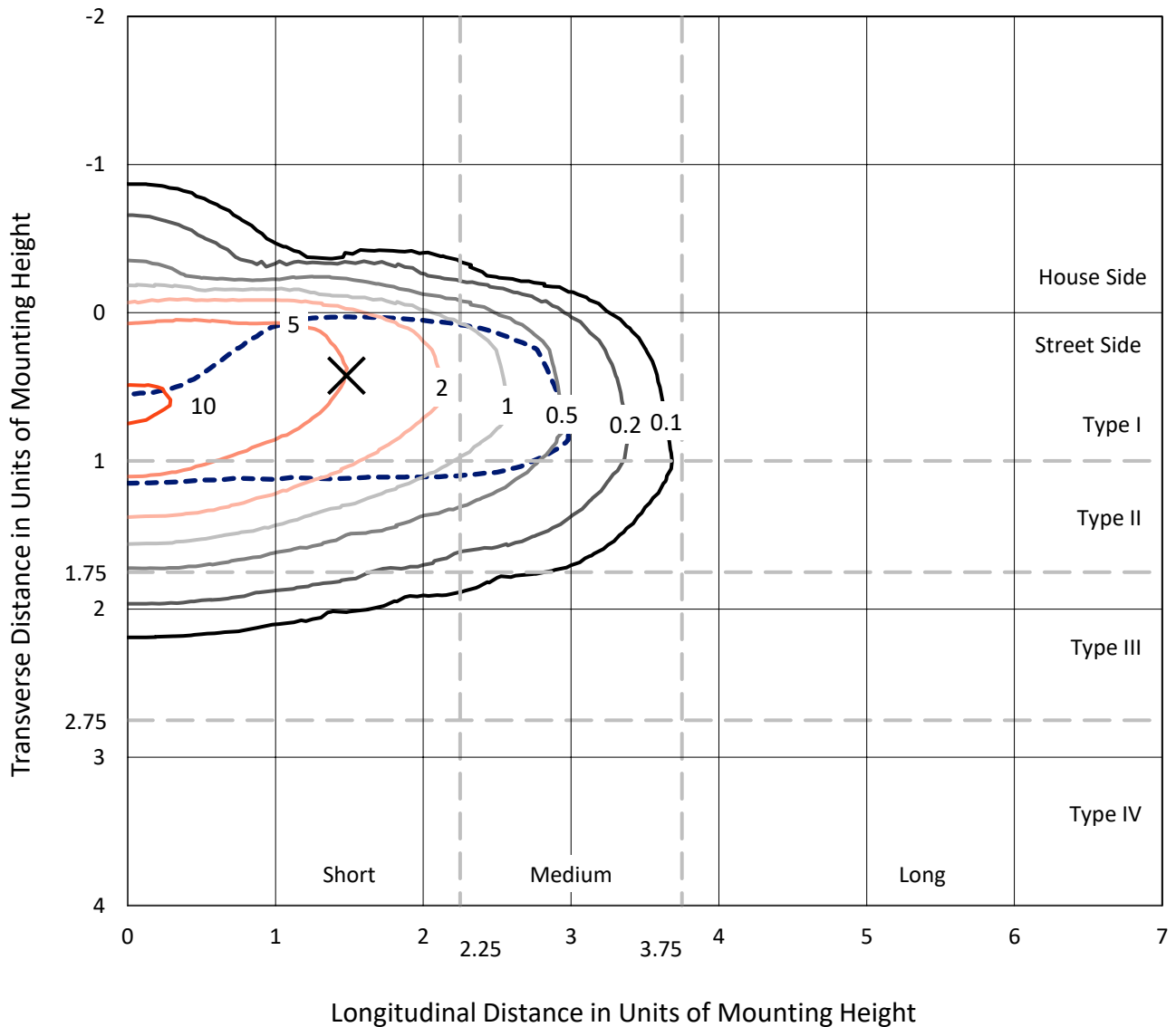
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

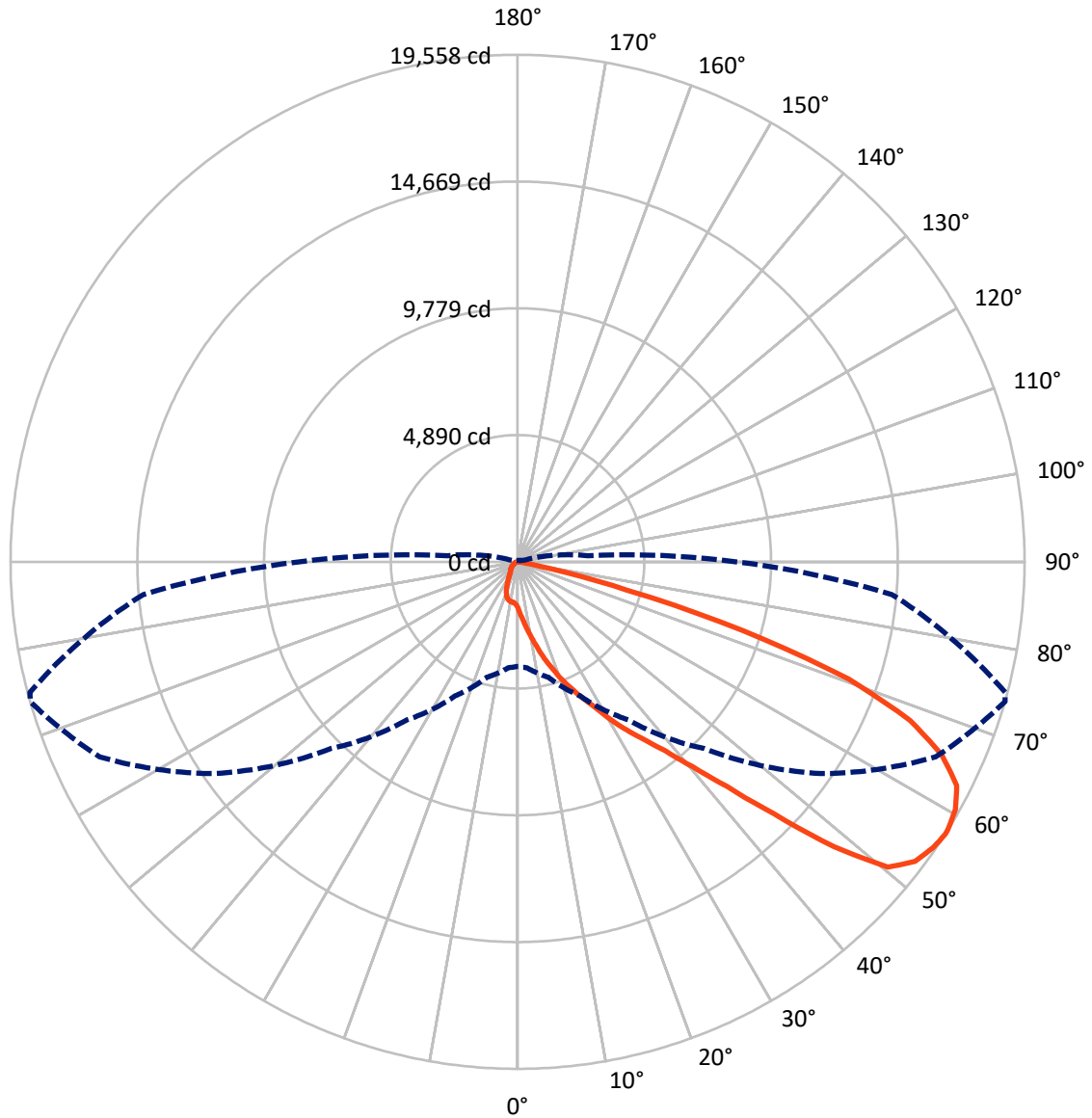
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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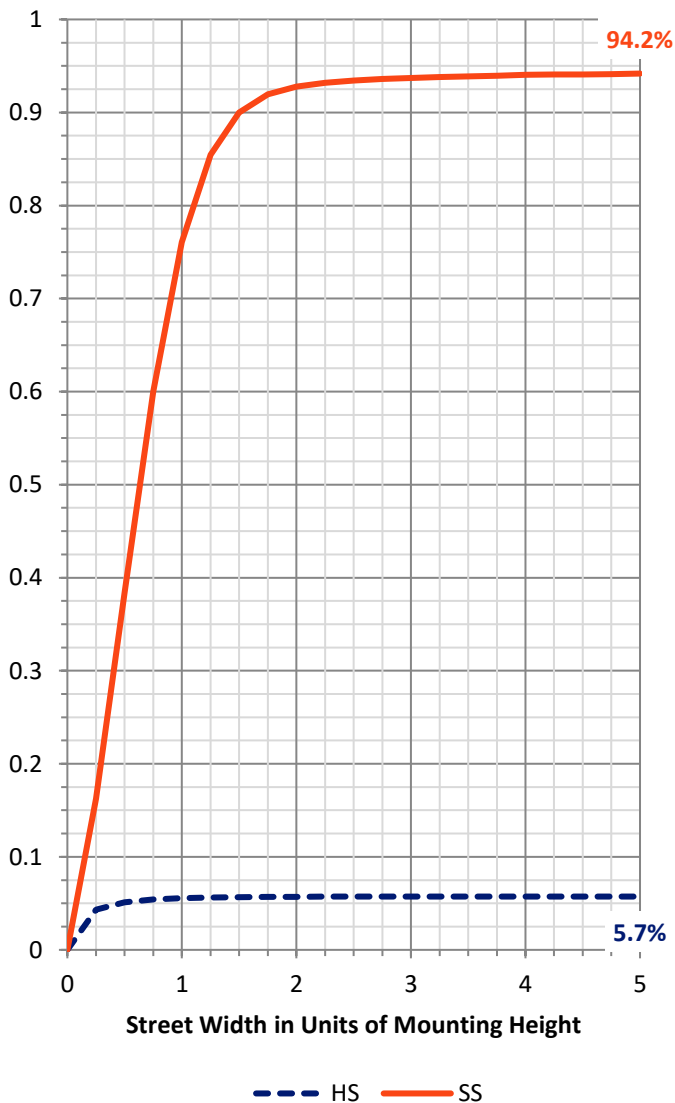
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1220.0 | 0.0 | 1220.0 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 19932.7 | 0.0 | 19932.7 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 21152.8 | 0.0 | 21152.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.8 | 1.0 |
| 10°-20° | 842.8 | 4.0 |
| 20°-30° | 1803.4 | 8.5 |
| 30°-40° | 3314.7 | 15.7 |
| 40°-50° | 5081.4 | 24.0 |
| 50°-60° | 5375.5 | 25.4 |
| 60°-70° | 3510.3 | 16.6 |
| 70°-80° | 959.2 | 4.5 |
| 80°-90° | 51.7 | 0.2 |
| 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° | 21152.8 | 100.0 |
| 0°-180° | 21152.8 | 100.0 |

Coefficient of Utilization

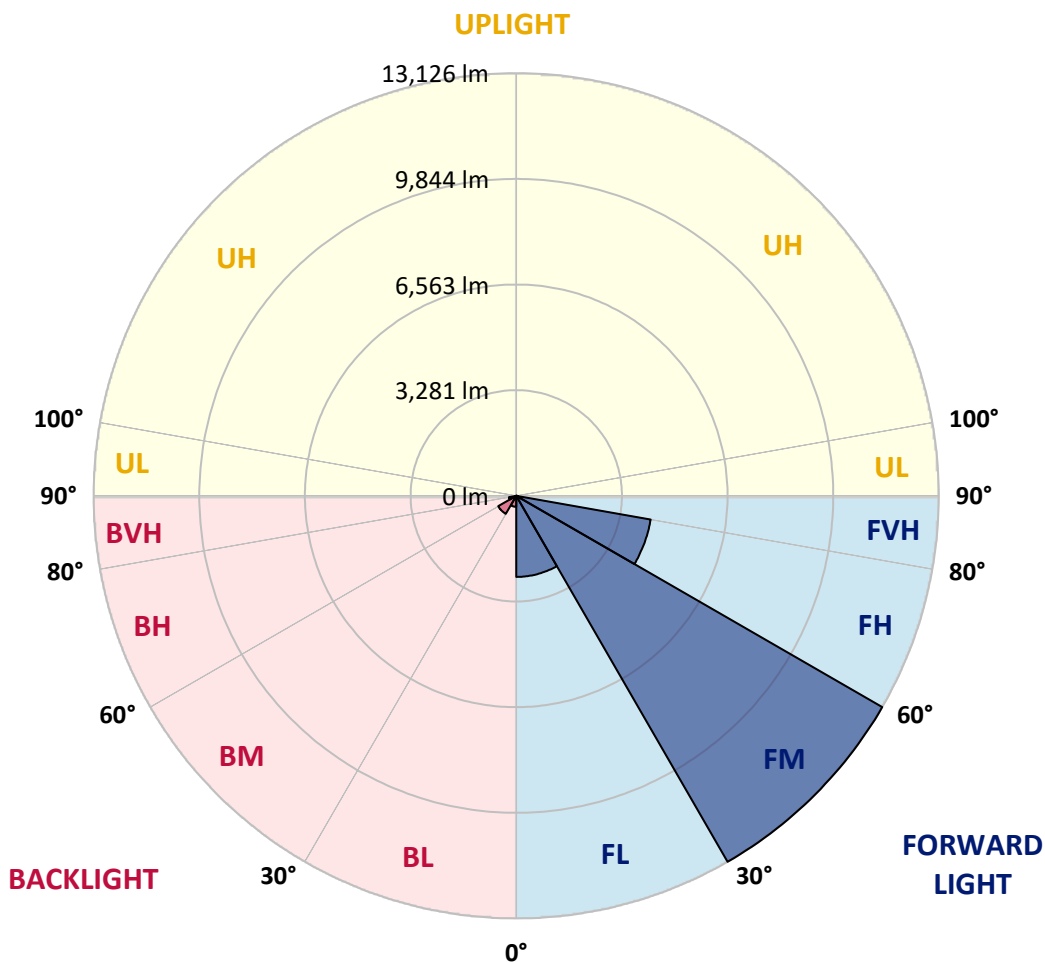


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2519.3 | 11.9 | | | |
| FM (30°-60°) | 13125.7 | 62.1 | | | |
| FH (60°-80°) | 4240.4 | 20.0 | | | G2/5000 |
| FVH (80°-90°) | 47.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 340.8 | 1.6 | B1/500 | | |
| BM (30°-60°) | 645.9 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 229.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.3 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 |
| 2.5° | 2592.3 | 2568.9 | 2522.2 | 2506.1 | 2437.5 | 2330.8 | 2237.4 | 2111.8 | 2012.5 | 2002.3 | 1882.5 |
| 5° | 3471.4 | 3418.9 | 3397.0 | 3291.8 | 3126.8 | 2972.0 | 2706.2 | 2504.7 | 2272.4 | 2254.9 | 2014.0 |
| 7.5° | 4318.6 | 4245.5 | 4223.6 | 4124.3 | 3931.5 | 3687.6 | 3342.9 | 2976.3 | 2608.3 | 2574.7 | 2190.7 |
| 10° | 4931.9 | 4942.1 | 4902.7 | 4837.0 | 4680.7 | 4432.4 | 4007.5 | 3506.5 | 2982.2 | 2939.9 | 2389.2 |
| 12.5° | 5371.5 | 5370.0 | 5377.3 | 5375.9 | 5292.6 | 5104.2 | 4657.4 | 4080.4 | 3394.1 | 3310.8 | 2617.1 |
| 15° | 5657.7 | 5662.1 | 5684.0 | 5760.0 | 5768.8 | 5651.9 | 5279.5 | 4629.6 | 3871.6 | 3768.0 | 2863.9 |
| 17.5° | 5946.9 | 5977.6 | 6012.7 | 6084.2 | 6148.4 | 6101.7 | 5838.8 | 5202.1 | 4303.9 | 4226.5 | 3128.2 |
| 20° | 6424.5 | 6466.8 | 6446.4 | 6490.2 | 6523.8 | 6528.2 | 6325.2 | 5730.8 | 4828.2 | 4698.2 | 3430.6 |
| 22.5° | 7188.3 | 7186.8 | 7134.2 | 7055.4 | 6989.7 | 6986.8 | 6802.7 | 6274.0 | 5304.4 | 5178.8 | 3734.4 |
| 25° | 8153.6 | 8158.0 | 8055.8 | 7830.9 | 7667.3 | 7467.2 | 7255.4 | 6750.2 | 5814.0 | 5659.2 | 4054.2 |
| 27.5° | 9260.6 | 9232.9 | 9078.1 | 8768.5 | 8444.3 | 8102.6 | 7797.3 | 7303.7 | 6354.4 | 6225.9 | 4420.7 |
| 30° | 10255.2 | 10245.0 | 10063.9 | 9685.6 | 9259.2 | 8916.0 | 8473.5 | 7997.4 | 7054.0 | 6896.2 | 4831.1 |
| 32.5° | 11181.2 | 11195.7 | 10944.5 | 10553.1 | 10141.3 | 9745.5 | 9278.2 | 8660.4 | 7740.3 | 7516.9 | 5278.0 |
| 35° | 11904.0 | 11918.7 | 11658.7 | 11333.0 | 10909.5 | 10580.9 | 10135.5 | 9367.3 | 8418.0 | 8229.6 | 5792.1 |
| 37.5° | 12289.6 | 12308.6 | 12158.2 | 11912.8 | 11648.5 | 11483.5 | 11068.6 | 10277.1 | 9241.7 | 9127.7 | 6399.6 |
| 40° | 12362.6 | 12384.6 | 12318.8 | 12253.1 | 12238.5 | 12356.8 | 12235.5 | 11349.1 | 10383.8 | 10205.5 | 7305.2 |
| 42.5° | 12143.5 | 12172.8 | 12202.0 | 12348.1 | 12645.9 | 13079.7 | 13501.7 | 12803.7 | 11854.4 | 11614.9 | 8412.2 |
| 45° | 11568.1 | 11565.2 | 11680.6 | 12058.8 | 12726.3 | 13652.2 | 14824.9 | 14624.9 | 13858.2 | 13573.3 | 9976.3 |
| 47.5° | 10583.8 | 10569.2 | 10818.9 | 11357.9 | 12397.7 | 13757.4 | 15904.2 | 16836.0 | 16415.4 | 16152.5 | 11657.2 |
| 50° | 9084.0 | 9155.5 | 9548.4 | 10300.5 | 11581.3 | 13438.9 | 16237.1 | 18286.2 | 18514.0 | 18235.1 | 13015.4 |
| 52.5° | 7327.0 | 7324.1 | 7940.4 | 8961.3 | 10372.1 | 12738.0 | 16005.0 | 18549.0 | 19196.0 | 18982.8 | 13684.3 |
| 55° | 5422.6 | 5460.6 | 6101.7 | 7131.3 | 8802.1 | 11458.7 | 15247.0 | 18278.9 | 19456.0 | 19305.6 | 14125.4 |
| 57° | 4033.7 | 4100.9 | 4615.0 | 5704.5 | 7435.1 | 10192.4 | 14237.8 | 17795.5 | 19558.2 | 19476.4 | 14491.9 |
| 57.5° | 3765.1 | 3768.0 | 4268.8 | 5259.0 | 7034.9 | 9706.1 | 13948.7 | 17593.9 | 19555.3 | 19510.0 | 14551.8 |
| 60° | 2317.8 | 2390.7 | 2736.9 | 3554.7 | 5149.5 | 7575.3 | 12010.7 | 16435.8 | 19403.4 | 19469.1 | 14807.4 |
| 62.5° | 1387.4 | 1418.1 | 1643.0 | 2142.4 | 3319.6 | 5529.2 | 9828.8 | 14953.4 | 19007.6 | 19207.7 | 14789.9 |
| 65° | 892.3 | 899.7 | 1001.8 | 1296.9 | 2075.3 | 3737.3 | 7573.9 | 12995.0 | 17983.9 | 18351.9 | 14211.5 |
| 67.5° | 689.4 | 701.0 | 741.9 | 851.4 | 1203.4 | 2327.9 | 5356.9 | 10905.1 | 16327.7 | 16802.4 | 12809.5 |
| 70° | 611.9 | 617.8 | 632.4 | 667.4 | 795.9 | 1314.4 | 3332.8 | 8518.7 | 13539.7 | 13674.1 | 10024.4 |
| 72.5° | 499.5 | 515.5 | 560.8 | 572.5 | 630.9 | 820.7 | 1854.8 | 5717.6 | 9097.1 | 9130.6 | 5608.1 |
| 75° | 387.0 | 389.9 | 457.1 | 490.7 | 531.6 | 565.2 | 828.1 | 2882.9 | 4369.6 | 4136.0 | 2161.5 |
| 77.5° | 289.2 | 302.3 | 333.0 | 375.4 | 433.8 | 404.6 | 371.0 | 1086.6 | 1356.8 | 1331.9 | 628.0 |
| 80° | 185.5 | 192.8 | 232.2 | 281.9 | 337.4 | 264.3 | 208.8 | 318.4 | 297.9 | 306.7 | 150.4 |
| 82.5° | 93.5 | 94.9 | 148.9 | 229.3 | 214.7 | 132.9 | 131.5 | 130.0 | 111.0 | 109.5 | 70.1 |
| 85° | 10.3 | 21.9 | 96.4 | 131.5 | 96.4 | 43.8 | 61.3 | 59.9 | 58.4 | 59.9 | 40.9 |
| 87.5° | 1.5 | 1.5 | 16.1 | 18.9 | 13.2 | 14.6 | 17.5 | 18.9 | 23.3 | 21.9 | 17.5 |
| 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° | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 | 1771.5 |
| 2.5° | 1824.1 | 1765.7 | 1657.6 | 1553.9 | 1476.5 | 1426.9 | 1362.6 | 1339.2 | 1305.7 | 1301.3 | 1285.2 |
| 5° | 1902.9 | 1792.0 | 1603.6 | 1454.6 | 1334.9 | 1244.3 | 1165.4 | 1099.7 | 1047.1 | 1035.4 | 1041.3 |
| 7.5° | 2015.4 | 1850.4 | 1587.5 | 1384.5 | 1218.0 | 1063.2 | 937.6 | 860.2 | 804.7 | 784.3 | 787.1 |
| 10° | 2142.4 | 1927.7 | 1584.6 | 1310.0 | 1055.9 | 866.1 | 728.7 | 660.1 | 628.0 | 616.3 | 603.1 |
| 12.5° | 2292.9 | 2016.9 | 1577.3 | 1194.6 | 877.7 | 690.8 | 593.0 | 552.0 | 521.4 | 512.6 | 512.6 |
| 15° | 2462.3 | 2111.8 | 1542.2 | 1051.5 | 712.7 | 571.0 | 505.3 | 473.2 | 463.0 | 454.2 | 454.2 |
| 17.5° | 2639.0 | 2205.2 | 1469.2 | 874.8 | 591.5 | 489.2 | 448.3 | 429.4 | 414.8 | 404.6 | 404.6 |
| 20° | 2840.6 | 2297.2 | 1352.4 | 718.6 | 499.5 | 436.7 | 404.6 | 382.7 | 371.0 | 362.2 | 359.2 |
| 22.5° | 3031.9 | 2371.8 | 1203.4 | 590.0 | 435.2 | 392.8 | 363.6 | 340.3 | 328.6 | 324.2 | 324.2 |
| 25° | 3230.5 | 2417.0 | 1023.8 | 487.8 | 397.2 | 356.3 | 324.2 | 305.2 | 295.0 | 292.1 | 290.6 |
| 27.5° | 3423.3 | 2443.4 | 866.1 | 426.4 | 362.2 | 322.8 | 292.1 | 277.5 | 267.2 | 264.3 | 265.8 |
| 30° | 3656.9 | 2447.7 | 712.7 | 382.7 | 331.5 | 290.6 | 262.9 | 249.7 | 243.9 | 241.0 | 239.5 |
| 32.5° | 3893.5 | 2441.9 | 598.8 | 356.3 | 302.3 | 262.9 | 239.5 | 229.3 | 224.9 | 220.5 | 220.5 |
| 35° | 4159.4 | 2411.2 | 509.7 | 330.0 | 274.6 | 239.5 | 219.1 | 210.3 | 204.4 | 200.1 | 198.6 |
| 37.5° | 4489.4 | 2395.1 | 458.6 | 300.8 | 249.7 | 217.6 | 198.6 | 189.9 | 185.5 | 179.6 | 178.2 |
| 40° | 5009.3 | 2466.7 | 442.6 | 274.6 | 224.9 | 197.2 | 179.6 | 169.4 | 163.6 | 157.7 | 156.3 |
| 42.5° | 5657.7 | 2592.3 | 416.2 | 248.3 | 203.0 | 178.2 | 160.7 | 148.9 | 138.7 | 131.5 | 128.5 |
| 45° | 6497.5 | 2757.3 | 375.4 | 220.5 | 184.0 | 157.7 | 141.6 | 127.1 | 113.9 | 108.1 | 106.6 |
| 47.5° | 7378.1 | 2916.5 | 338.8 | 198.6 | 163.6 | 140.2 | 122.7 | 106.6 | 94.9 | 90.5 | 89.1 |
| 50° | 7918.5 | 2948.6 | 315.5 | 173.8 | 143.1 | 121.2 | 103.7 | 89.1 | 81.8 | 77.4 | 77.4 |
| 52.5° | 8165.4 | 2897.5 | 283.3 | 151.9 | 124.1 | 106.6 | 89.1 | 77.4 | 73.1 | 70.1 | 68.7 |
| 55° | 8337.6 | 2818.6 | 241.0 | 131.5 | 106.6 | 90.5 | 78.8 | 70.1 | 64.3 | 61.3 | 59.9 |
| 57° | 8438.4 | 2712.1 | 208.8 | 115.3 | 92.0 | 78.8 | 70.1 | 62.8 | 56.9 | 51.1 | 51.1 |
| 57.5° | 8442.8 | 2671.1 | 200.1 | 113.9 | 87.6 | 76.0 | 68.7 | 61.3 | 54.0 | 48.2 | 46.7 |
| 60° | 8312.8 | 2390.7 | 160.7 | 96.4 | 70.1 | 64.3 | 56.9 | 48.2 | 38.0 | 32.1 | 30.7 |
| 62.5° | 7895.1 | 2034.4 | 132.9 | 81.8 | 56.9 | 49.6 | 40.9 | 36.5 | 26.3 | 18.9 | 18.9 |
| 65° | 7262.8 | 1650.3 | 113.9 | 65.7 | 46.7 | 36.5 | 27.7 | 26.3 | 16.1 | 8.8 | 7.3 |
| 67.5° | 6348.6 | 1285.2 | 96.4 | 54.0 | 39.5 | 26.3 | 18.9 | 17.5 | 8.8 | 2.9 | 0.0 |
| 70° | 4837.0 | 876.3 | 80.3 | 43.8 | 29.2 | 18.9 | 13.2 | 10.3 | 5.9 | 1.5 | 0.0 |
| 72.5° | 2787.9 | 481.9 | 67.2 | 33.6 | 21.9 | 14.6 | 10.3 | 5.9 | 5.9 | 0.0 | 0.0 |
| 75° | 996.1 | 207.4 | 51.1 | 24.8 | 17.5 | 11.7 | 7.3 | 2.9 | 4.4 | 1.5 | 0.0 |
| 77.5° | 316.9 | 111.0 | 33.6 | 18.9 | 14.6 | 8.8 | 5.9 | 2.9 | 2.9 | 1.5 | 0.0 |
| 80° | 93.5 | 58.4 | 20.4 | 16.1 | 10.3 | 7.3 | 4.4 | 1.5 | 2.9 | 1.5 | 0.0 |
| 82.5° | 51.1 | 29.2 | 16.1 | 11.7 | 10.3 | 5.9 | 4.4 | 1.5 | 1.5 | 1.5 | 0.0 |
| 85° | 26.3 | 17.5 | 13.2 | 11.7 | 10.3 | 5.9 | 4.4 | 1.5 | 0.0 | 1.5 | 1.5 |
| 87.5° | 14.6 | 13.2 | 13.2 | 11.7 | 10.3 | 7.3 | 4.4 | 1.5 | 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)