

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: P529207

Luminaire Tested: **GALN-SA4B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13690 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

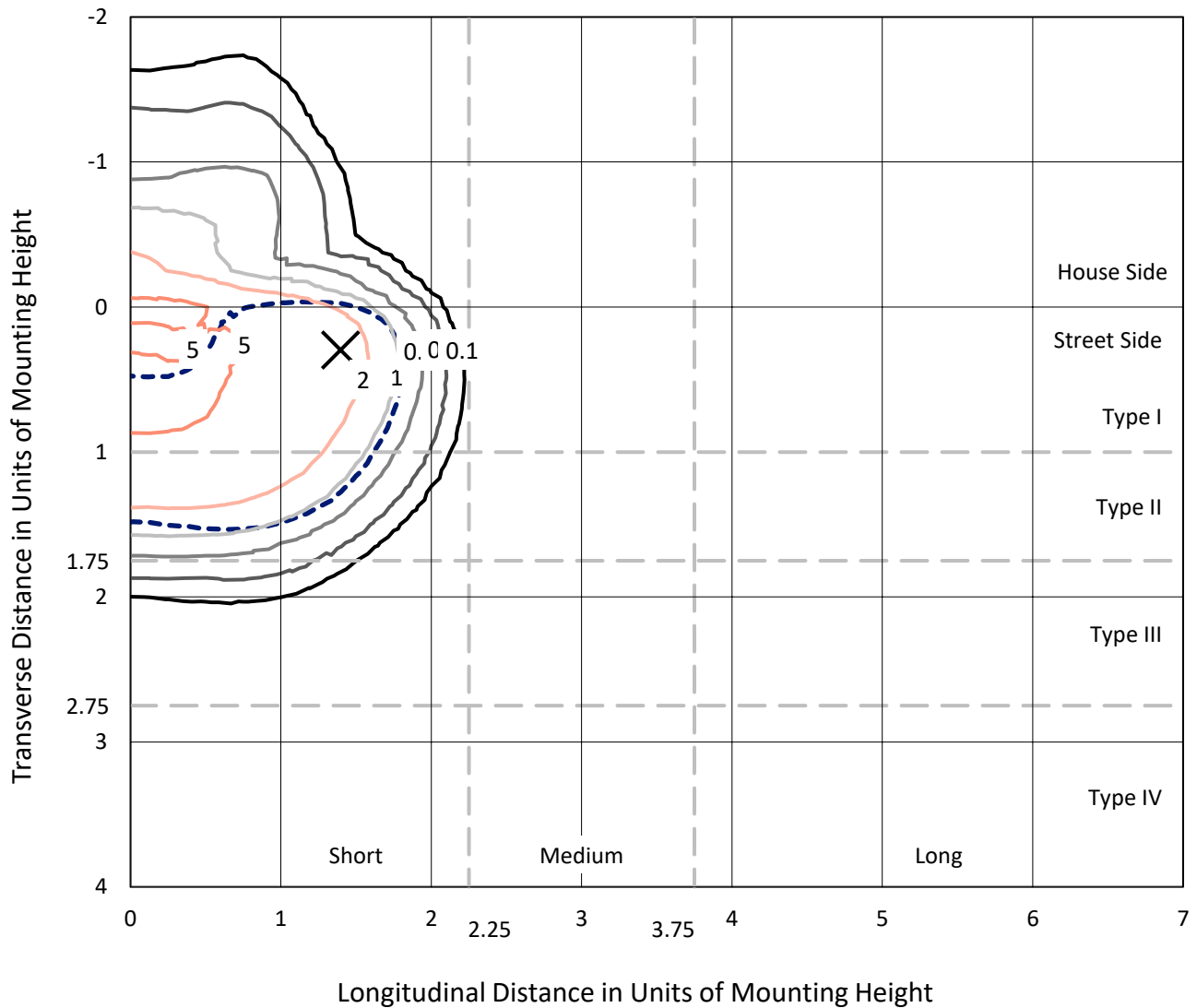
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

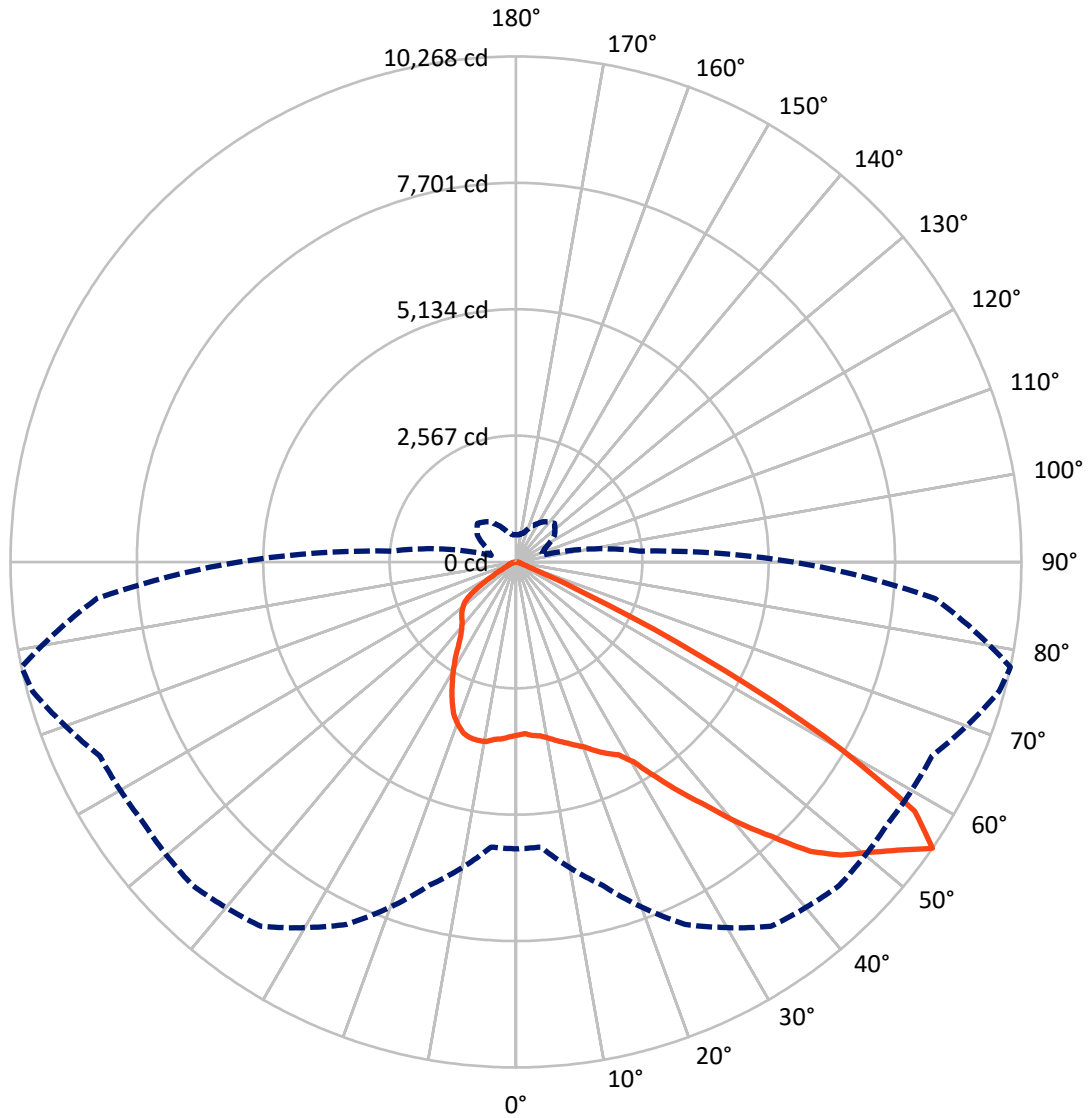
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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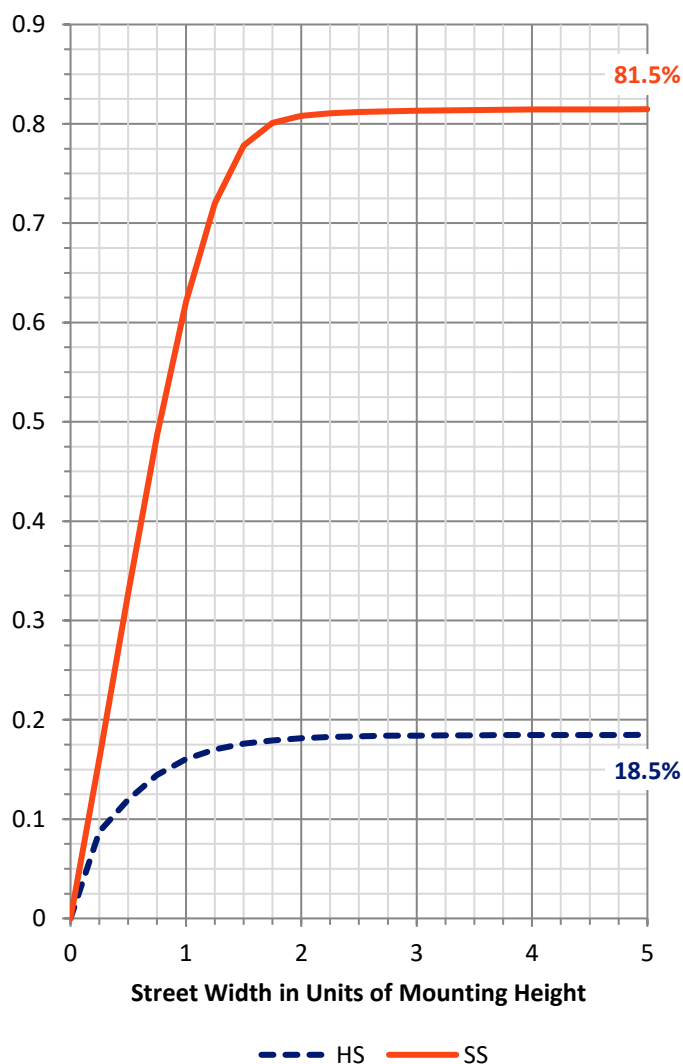
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2542.8 | 0.0 | 2542.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 11147.2 | 0.0 | 11147.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 13690.0 | 0.0 | 13690.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 313.8 | 2.3 |
| 10°-20° | 830.6 | 6.1 |
| 20°-30° | 1455.9 | 10.6 |
| 30°-40° | 2400.6 | 17.5 |
| 40°-50° | 3493.1 | 25.5 |
| 50°-60° | 3958.1 | 28.9 |
| 60°-70° | 1131.7 | 8.3 |
| 70°-80° | 87.9 | 0.6 |
| 80°-90° | 18.3 | 0.1 |
| 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° | 13690.0 | 100.0 |
| 0°-180° | 13690.0 | 100.0 |

Coefficient of Utilization



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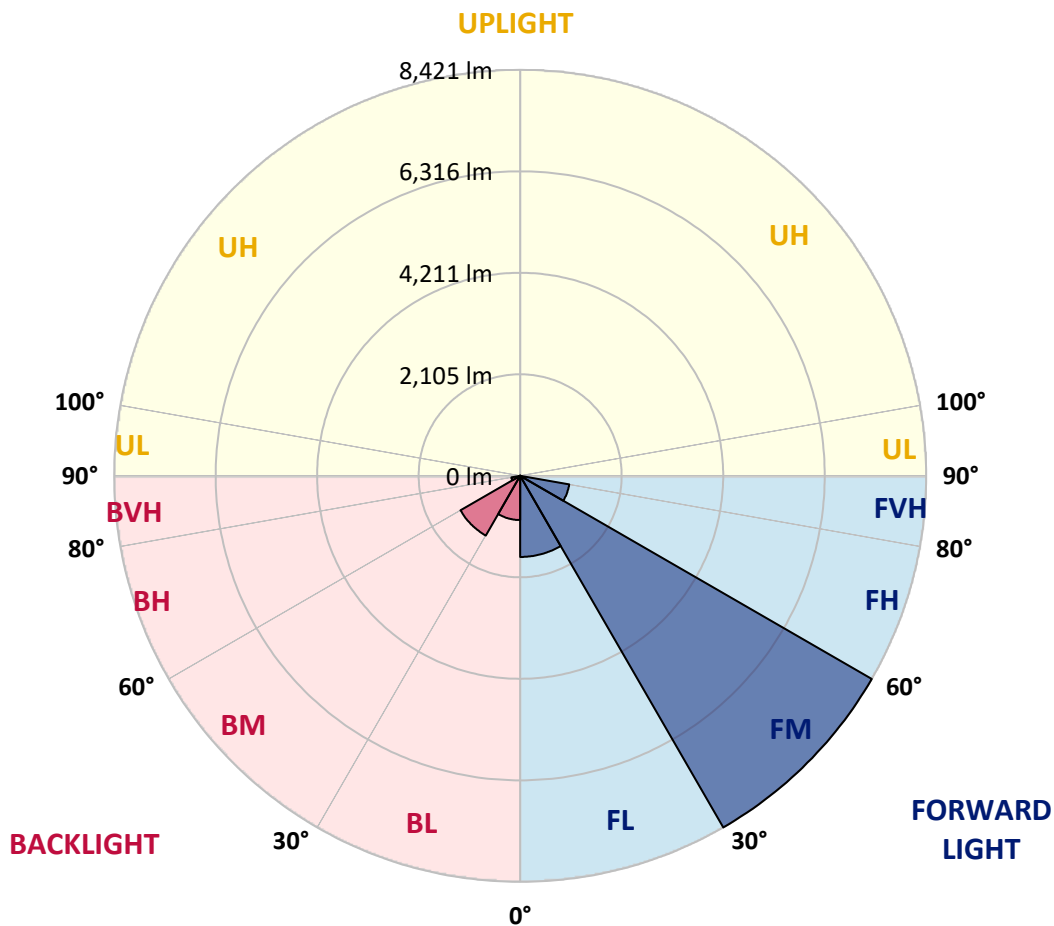
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1682.9 | 12.3 | | | |
| FM (30°-60°) | 8421.5 | 61.5 | | | |
| FH (60°-80°) | 1033.9 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 8.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 917.4 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1430.3 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 185.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.4 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 |
| 2.5° | 3309.2 | 3341.0 | 3345.9 | 3385.1 | 3382.6 | 3448.7 | 3468.3 | 3470.8 | 3514.8 | 3492.8 | 3549.1 |
| 5° | 3216.2 | 3199.1 | 3191.7 | 3260.3 | 3279.8 | 3338.6 | 3387.5 | 3416.9 | 3507.5 | 3539.3 | 3598.0 |
| 7.5° | 3133.0 | 3133.0 | 3137.9 | 3199.1 | 3191.7 | 3267.6 | 3319.0 | 3409.6 | 3541.7 | 3568.7 | 3639.6 |
| 10° | 3052.2 | 3022.8 | 3059.6 | 3123.2 | 3177.0 | 3211.3 | 3319.0 | 3404.7 | 3558.9 | 3637.2 | 3735.1 |
| 12.5° | 3010.6 | 3025.3 | 3030.2 | 3076.7 | 3135.4 | 3238.2 | 3297.0 | 3438.9 | 3681.3 | 3727.8 | 3833.0 |
| 15° | 3272.5 | 3243.1 | 3172.1 | 3130.5 | 3179.5 | 3228.4 | 3375.3 | 3519.7 | 3744.9 | 3811.0 | 3928.5 |
| 17.5° | 3576.0 | 3551.5 | 3492.8 | 3380.2 | 3270.0 | 3360.6 | 3475.6 | 3607.8 | 3813.4 | 3911.3 | 4085.1 |
| 20° | 3972.5 | 3933.4 | 3874.6 | 3654.3 | 3558.9 | 3461.0 | 3583.3 | 3740.0 | 3926.0 | 4014.1 | 4192.8 |
| 22.5° | 4444.9 | 4444.9 | 4312.7 | 4045.9 | 3847.7 | 3754.7 | 3806.1 | 3896.6 | 4050.8 | 4170.8 | 4347.0 |
| 25° | 4936.9 | 4922.2 | 4802.3 | 4525.7 | 4190.4 | 4080.2 | 4139.0 | 4202.6 | 4244.2 | 4310.3 | 4427.8 |
| 27.5° | 5499.8 | 5414.2 | 5262.4 | 4956.5 | 4660.3 | 4447.4 | 4511.0 | 4454.7 | 4403.3 | 4437.6 | 4606.5 |
| 30° | 5881.7 | 5935.5 | 5742.2 | 5448.4 | 5169.4 | 4932.0 | 4944.2 | 4895.3 | 4660.3 | 4709.3 | 4809.6 |
| 32.5° | 6278.2 | 6312.5 | 6204.8 | 6043.2 | 5764.2 | 5487.6 | 5387.3 | 5345.6 | 5169.4 | 5191.4 | 5093.5 |
| 35° | 6608.6 | 6674.7 | 6579.3 | 6508.3 | 6427.5 | 6204.8 | 5928.2 | 6062.8 | 5778.9 | 5725.0 | 5470.5 |
| 37.5° | 6912.1 | 6892.6 | 7005.1 | 6931.7 | 6914.6 | 6757.9 | 6454.4 | 6481.4 | 6290.4 | 6278.2 | 5984.5 |
| 40° | 7183.8 | 7188.7 | 7342.9 | 7377.2 | 7308.7 | 7029.6 | 6589.0 | 6802.0 | 6956.2 | 6970.9 | 6593.9 |
| 42.5° | 7409.0 | 7475.1 | 7607.3 | 7883.9 | 7781.0 | 7316.0 | 6728.6 | 6961.1 | 7533.8 | 7624.4 | 7171.6 |
| 45° | 7604.8 | 7739.4 | 7903.4 | 8150.6 | 8091.9 | 7722.3 | 7076.1 | 7289.1 | 8150.6 | 8388.1 | 7715.0 |
| 47.5° | 7617.1 | 7793.3 | 7972.0 | 8339.1 | 8412.5 | 7940.1 | 7435.9 | 7808.0 | 8640.2 | 8897.2 | 8111.5 |
| 50° | 7568.1 | 7661.1 | 8018.5 | 8417.4 | 8583.9 | 8295.1 | 7940.1 | 8243.7 | 9115.0 | 9276.6 | 8312.2 |
| 52.5° | 6988.0 | 7059.0 | 7776.2 | 8490.9 | 8892.3 | 8696.5 | 8608.4 | 8850.7 | 9599.6 | 9719.6 | 8500.7 |
| 55° | 5825.4 | 5813.1 | 6799.5 | 8121.3 | 9034.2 | 9291.2 | 9237.4 | 9323.1 | 10160.2 | 10267.9 | 8547.2 |
| 57.5° | 3984.8 | 4207.5 | 5059.3 | 6762.8 | 8165.3 | 9151.7 | 9208.0 | 9066.1 | 9506.6 | 9548.2 | 7450.6 |
| 60° | 2149.0 | 2242.0 | 2927.4 | 4513.4 | 6217.0 | 7458.0 | 7604.8 | 7347.8 | 7313.5 | 7196.1 | 5318.7 |
| 62.5° | 854.2 | 900.7 | 1289.9 | 2234.7 | 3387.5 | 4533.0 | 4848.8 | 4743.5 | 4518.3 | 4209.9 | 2753.6 |
| 65° | 406.3 | 435.7 | 641.3 | 1045.1 | 1502.9 | 1889.6 | 2205.3 | 2303.2 | 1698.7 | 1529.8 | 908.1 |
| 67.5° | 276.6 | 298.6 | 467.5 | 597.2 | 536.0 | 560.5 | 729.4 | 678.0 | 399.0 | 340.2 | 252.1 |
| 70° | 210.5 | 225.2 | 374.5 | 406.3 | 239.9 | 168.9 | 188.5 | 176.2 | 164.0 | 166.4 | 164.0 |
| 72.5° | 149.3 | 161.5 | 274.1 | 239.9 | 105.2 | 78.3 | 100.4 | 119.9 | 119.9 | 119.9 | 117.5 |
| 75° | 90.6 | 102.8 | 159.1 | 93.0 | 41.6 | 41.6 | 63.6 | 80.8 | 85.7 | 88.1 | 83.2 |
| 77.5° | 46.5 | 58.7 | 53.8 | 26.9 | 26.9 | 31.8 | 46.5 | 56.3 | 61.2 | 61.2 | 58.7 |
| 80° | 9.8 | 9.8 | 9.8 | 14.7 | 26.9 | 34.3 | 46.5 | 51.4 | 58.7 | 58.7 | 53.8 |
| 82.5° | 0.0 | 2.4 | 7.3 | 14.7 | 24.5 | 31.8 | 44.1 | 51.4 | 58.7 | 61.2 | 56.3 |
| 85° | 0.0 | 2.4 | 4.9 | 9.8 | 17.1 | 19.6 | 17.1 | 14.7 | 14.7 | 14.7 | 14.7 |
| 87.5° | 0.0 | 0.0 | 2.4 | 2.4 | 2.4 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 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° | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 | 3519.7 |
| 2.5° | 3554.0 | 3561.3 | 3549.1 | 3546.6 | 3536.8 | 3566.2 | 3495.2 | 3478.1 | 3522.2 | 3480.5 | 3490.3 |
| 5° | 3600.5 | 3617.6 | 3595.6 | 3558.9 | 3505.0 | 3421.8 | 3350.8 | 3257.8 | 3213.8 | 3181.9 | 3177.0 |
| 7.5° | 3634.7 | 3647.0 | 3625.0 | 3507.5 | 3345.9 | 3135.4 | 2978.8 | 2863.7 | 2773.2 | 2746.3 | 2702.2 |
| 10° | 3774.3 | 3776.7 | 3666.6 | 3407.1 | 3091.4 | 2814.8 | 2574.9 | 2398.7 | 2308.1 | 2251.8 | 2227.4 |
| 12.5° | 3867.3 | 3862.4 | 3639.6 | 3208.9 | 2787.9 | 2420.7 | 2146.6 | 1933.6 | 1850.4 | 1823.5 | 1806.4 |
| 15° | 3984.8 | 3957.8 | 3576.0 | 3005.7 | 2396.2 | 1999.7 | 1752.5 | 1605.7 | 1598.3 | 1581.2 | 1598.3 |
| 17.5° | 4077.8 | 4001.9 | 3483.0 | 2636.1 | 2021.8 | 1647.3 | 1485.7 | 1495.5 | 1515.1 | 1532.2 | 1534.7 |
| 20° | 4229.5 | 4072.9 | 3270.0 | 2313.0 | 1674.2 | 1412.3 | 1409.8 | 1453.9 | 1502.9 | 1522.4 | 1542.0 |
| 22.5° | 4344.6 | 4102.2 | 3042.4 | 1967.9 | 1390.3 | 1316.8 | 1358.4 | 1424.5 | 1461.2 | 1480.8 | 1510.2 |
| 25° | 4386.2 | 4021.5 | 2738.9 | 1622.8 | 1253.2 | 1272.8 | 1336.4 | 1380.5 | 1427.0 | 1449.0 | 1436.8 |
| 27.5° | 4427.8 | 3979.9 | 2376.7 | 1336.4 | 1179.8 | 1243.4 | 1297.2 | 1341.3 | 1356.0 | 1385.4 | 1404.9 |
| 30° | 4528.1 | 3835.5 | 2051.1 | 1155.3 | 1143.0 | 1223.8 | 1263.0 | 1277.7 | 1316.8 | 1334.0 | 1334.0 |
| 32.5° | 4608.9 | 3779.2 | 1706.0 | 1069.6 | 1138.2 | 1233.6 | 1238.5 | 1238.5 | 1243.4 | 1231.2 | 1226.3 |
| 35° | 4775.3 | 3585.8 | 1397.6 | 1018.2 | 1135.7 | 1236.1 | 1248.3 | 1206.7 | 1094.1 | 1050.0 | 1037.8 |
| 37.5° | 4980.9 | 3461.0 | 1170.0 | 1006.0 | 1152.8 | 1265.4 | 1285.0 | 1128.4 | 981.5 | 910.5 | 898.3 |
| 40° | 5230.6 | 3372.8 | 1020.7 | 1001.1 | 1192.0 | 1334.0 | 1275.2 | 1067.2 | 876.3 | 773.5 | 768.6 |
| 42.5° | 5521.9 | 3292.1 | 920.3 | 998.6 | 1241.0 | 1404.9 | 1265.4 | 1015.8 | 768.6 | 700.0 | 709.8 |
| 45° | 5754.4 | 3248.0 | 851.8 | 981.5 | 1258.1 | 1446.6 | 1272.8 | 925.2 | 724.5 | 680.4 | 685.3 |
| 47.5° | 5935.5 | 3155.0 | 795.5 | 952.1 | 1255.6 | 1461.2 | 1206.7 | 888.5 | 702.5 | 714.7 | 726.9 |
| 50° | 5940.4 | 3030.2 | 724.5 | 888.5 | 1218.9 | 1434.3 | 1130.8 | 854.2 | 697.6 | 749.0 | 773.5 |
| 52.5° | 5874.3 | 2853.9 | 648.6 | 797.9 | 1133.3 | 1341.3 | 1062.3 | 839.5 | 675.5 | 670.7 | 700.0 |
| 55° | 5639.4 | 2523.5 | 521.3 | 646.2 | 957.0 | 1106.3 | 1001.1 | 812.6 | 609.5 | 553.2 | 558.1 |
| 57.5° | 4557.5 | 1808.8 | 384.3 | 462.6 | 678.0 | 810.2 | 903.2 | 800.4 | 548.3 | 469.9 | 472.4 |
| 60° | 2822.1 | 1025.6 | 281.5 | 315.7 | 418.5 | 492.0 | 731.8 | 744.1 | 489.5 | 396.5 | 391.6 |
| 62.5° | 1449.0 | 506.7 | 217.8 | 222.7 | 257.0 | 288.8 | 501.8 | 624.1 | 443.0 | 376.9 | 376.9 |
| 65° | 484.6 | 249.7 | 190.9 | 171.3 | 171.3 | 178.7 | 303.5 | 433.2 | 374.5 | 315.7 | 315.7 |
| 67.5° | 208.0 | 186.0 | 166.4 | 149.3 | 137.1 | 129.7 | 171.3 | 252.1 | 279.0 | 239.9 | 230.1 |
| 70° | 161.5 | 156.6 | 144.4 | 124.8 | 107.7 | 97.9 | 100.4 | 129.7 | 159.1 | 154.2 | 149.3 |
| 72.5° | 119.9 | 119.9 | 115.0 | 97.9 | 83.2 | 71.0 | 66.1 | 68.5 | 75.9 | 78.3 | 80.8 |
| 75° | 83.2 | 85.7 | 85.7 | 75.9 | 61.2 | 51.4 | 44.1 | 36.7 | 29.4 | 24.5 | 22.0 |
| 77.5° | 56.3 | 58.7 | 63.6 | 56.3 | 46.5 | 34.3 | 26.9 | 19.6 | 12.2 | 4.9 | 4.9 |
| 80° | 49.0 | 56.3 | 61.2 | 56.3 | 49.0 | 36.7 | 26.9 | 14.7 | 7.3 | 0.0 | 0.0 |
| 82.5° | 51.4 | 56.3 | 63.6 | 53.8 | 46.5 | 34.3 | 26.9 | 17.1 | 7.3 | 2.4 | 0.0 |
| 85° | 12.2 | 12.2 | 14.7 | 17.1 | 22.0 | 24.5 | 19.6 | 12.2 | 7.3 | 2.4 | 0.0 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 | 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)