

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: P651234

Luminaire Tested: **GALN-SA2D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11068.4 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

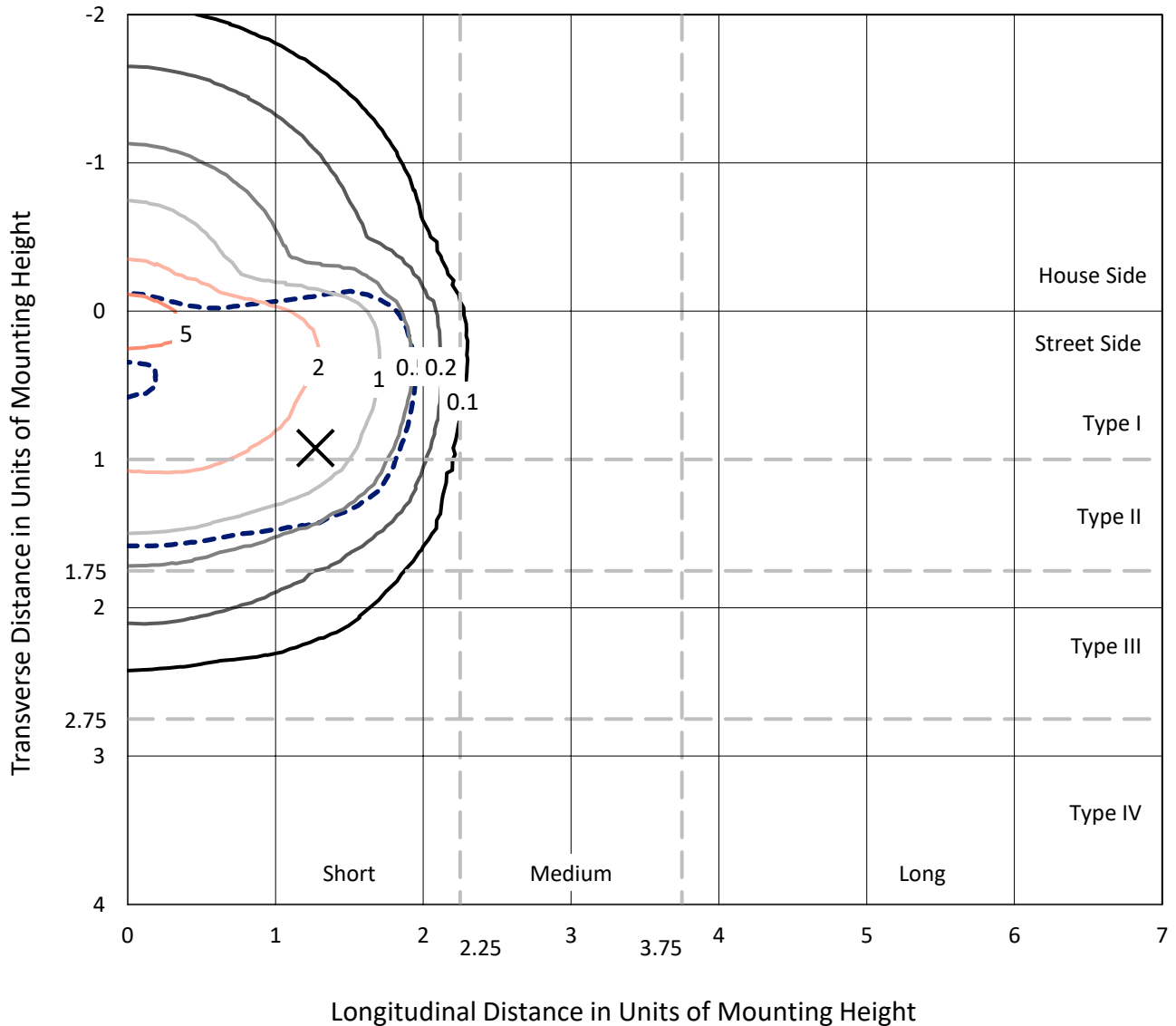
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

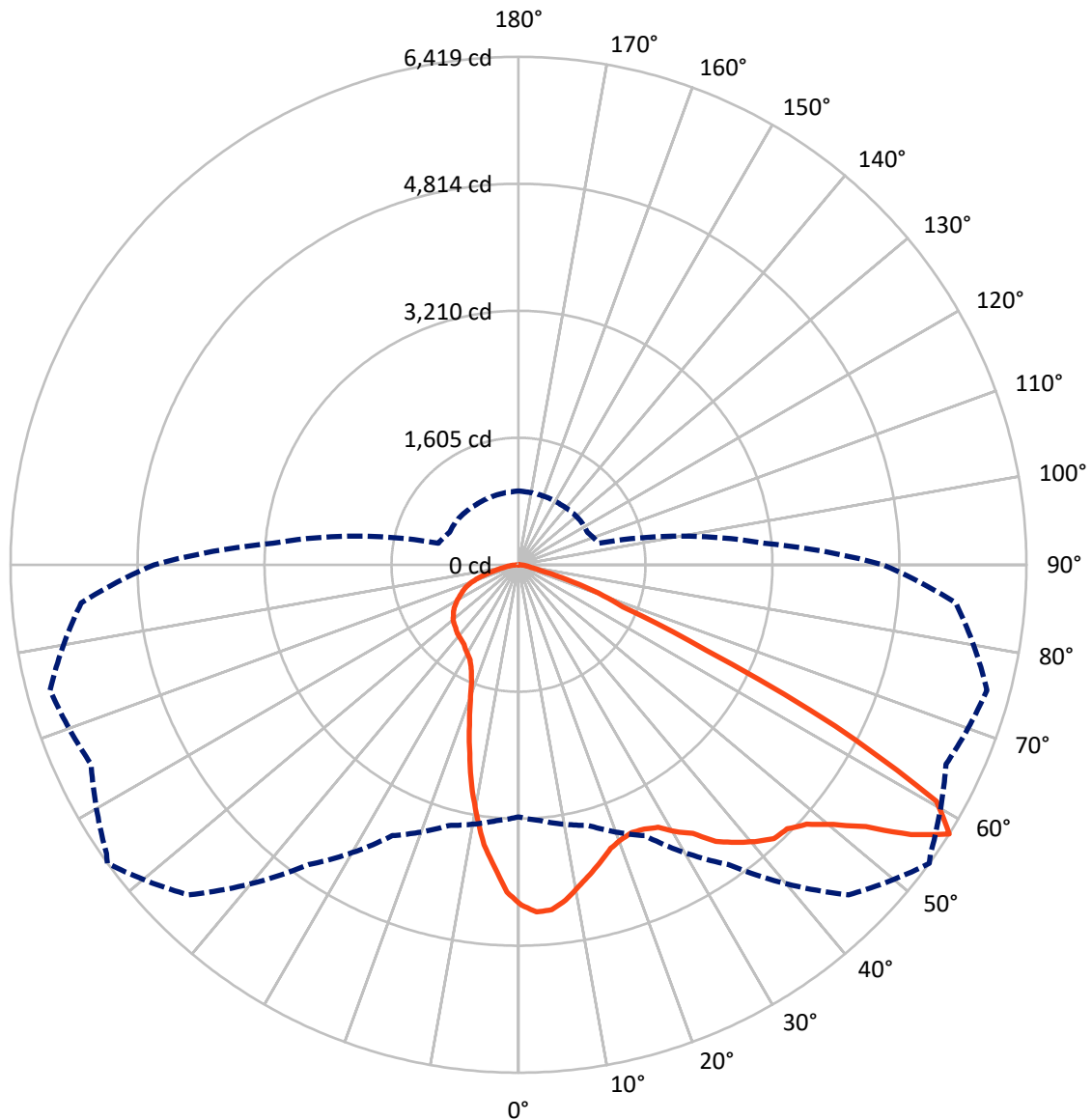
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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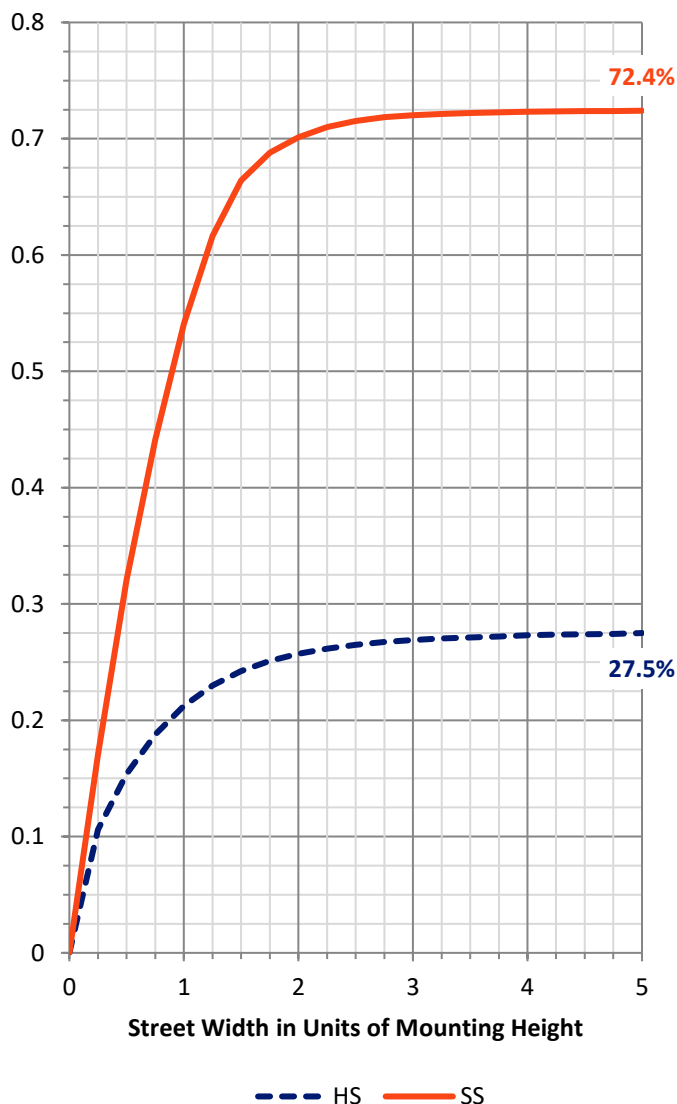
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3062.1 | 0.0 | 3062.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 8006.3 | 0.0 | 8006.3 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 11068.4 | 0.0 | 11068.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 371.0 | 3.4 |
| 10°-20° | 859.0 | 7.8 |
| 20°-30° | 1207.0 | 10.9 |
| 30°-40° | 1687.4 | 15.2 |
| 40°-50° | 2284.4 | 20.6 |
| 50°-60° | 2782.4 | 25.1 |
| 60°-70° | 1449.2 | 13.1 |
| 70°-80° | 371.3 | 3.4 |
| 80°-90° | 56.6 | 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° | 11068.4 | 100.0 |
| 0°-180° | 11068.4 | 100.0 |

Coefficient of Utilization

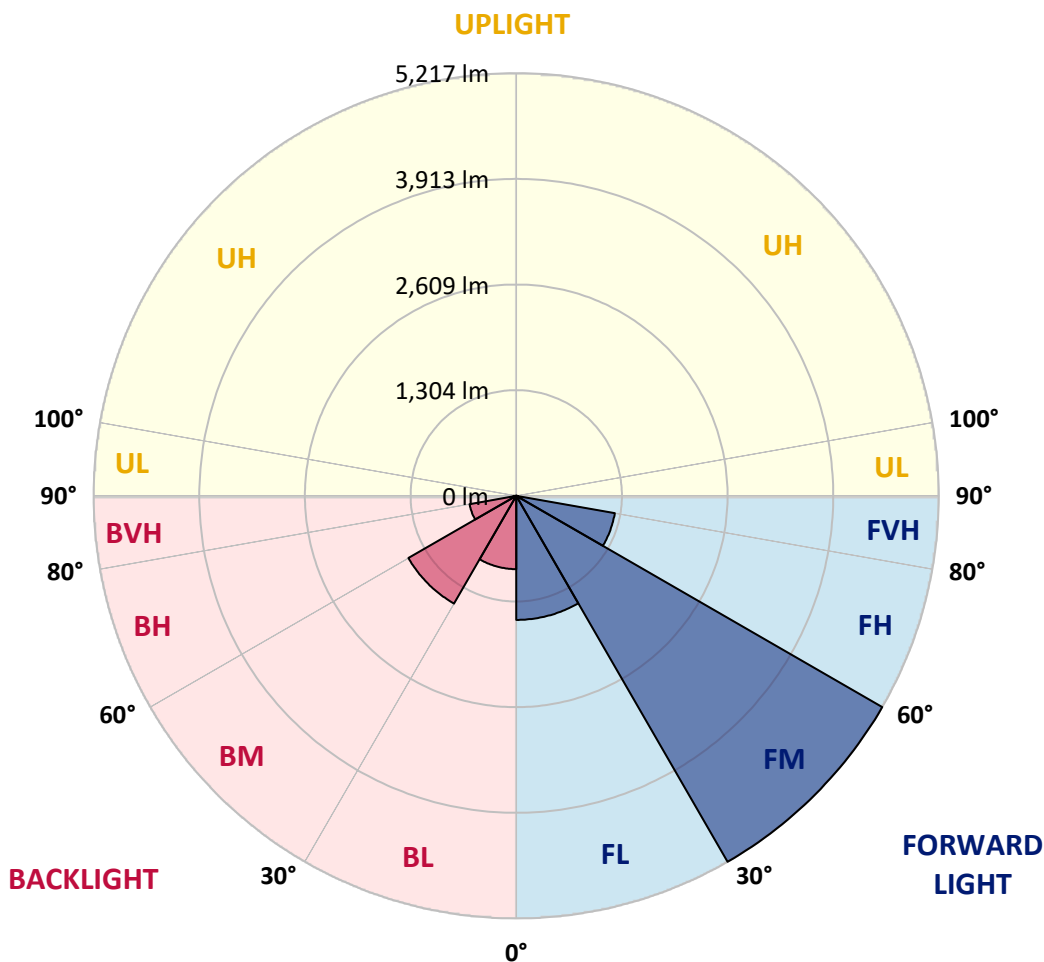


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1532.0 | 13.8 | | | |
| FM (30°-60°) | 5217.3 | 47.1 | | | |
| FH (60°-80°) | 1235.5 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 21.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 905.0 | 8.2 | B2/1000 | | |
| BM (30°-60°) | 1536.9 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 585.0 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 |
| 2.5° | 4424.5 | 4407.4 | 4410.3 | 4433.1 | 4404.6 | 4393.2 | 4393.2 | 4337.7 | 4342.0 | 4303.6 | 4293.6 |
| 5° | 4322.1 | 4282.2 | 4309.3 | 4343.4 | 4349.1 | 4360.5 | 4379.0 | 4364.8 | 4324.9 | 4283.6 | 4216.8 |
| 7.5° | 4054.6 | 4090.2 | 4100.1 | 4124.3 | 4175.6 | 4222.5 | 4280.9 | 4241.0 | 4239.6 | 4198.3 | 4158.5 |
| 10° | 3819.9 | 3798.5 | 3852.6 | 3888.2 | 3973.6 | 4051.8 | 4141.4 | 4137.1 | 4158.5 | 4111.5 | 4043.3 |
| 12.5° | 3586.5 | 3569.5 | 3595.1 | 3676.2 | 3795.7 | 3909.5 | 4016.2 | 3976.3 | 4090.2 | 4081.6 | 3935.1 |
| 15° | 3339.0 | 3351.8 | 3388.8 | 3464.2 | 3620.7 | 3757.3 | 3892.4 | 3893.8 | 3994.8 | 4029.0 | 3832.7 |
| 17.5° | 3165.4 | 3151.2 | 3198.2 | 3310.6 | 3450.0 | 3613.6 | 3767.3 | 3798.5 | 3953.6 | 3973.6 | 3801.4 |
| 20° | 3036.0 | 3055.9 | 3117.1 | 3174.0 | 3334.7 | 3532.5 | 3706.0 | 3717.5 | 3945.0 | 3999.1 | 3751.6 |
| 22.5° | 3004.7 | 2993.3 | 3013.2 | 3105.7 | 3238.0 | 3452.8 | 3673.3 | 3716.0 | 3943.6 | 3990.6 | 3657.7 |
| 25° | 2971.9 | 3008.9 | 3007.5 | 3100.0 | 3196.7 | 3388.8 | 3700.4 | 3747.3 | 4019.1 | 4034.7 | 3670.5 |
| 27.5° | 3045.9 | 3041.6 | 3081.5 | 3088.7 | 3208.2 | 3405.9 | 3757.3 | 3792.8 | 4144.3 | 4131.4 | 3680.5 |
| 30° | 3119.9 | 3098.6 | 3122.8 | 3206.7 | 3262.2 | 3504.0 | 3913.8 | 3910.9 | 4306.4 | 4297.9 | 3711.8 |
| 32.5° | 3210.9 | 3201.0 | 3216.7 | 3290.7 | 3384.5 | 3634.9 | 4046.1 | 4130.0 | 4471.4 | 4525.5 | 3819.9 |
| 35° | 3228.0 | 3269.3 | 3306.3 | 3405.9 | 3539.6 | 3846.9 | 4295.1 | 4364.8 | 4662.1 | 4831.4 | 4026.2 |
| 37.5° | 3336.2 | 3351.8 | 3438.6 | 3615.0 | 3737.3 | 4130.0 | 4452.9 | 4497.1 | 4835.7 | 5027.8 | 4243.9 |
| 40° | 3451.4 | 3469.9 | 3600.7 | 3785.8 | 3953.6 | 4315.0 | 4600.9 | 4615.2 | 4891.2 | 5178.5 | 4386.1 |
| 42.5° | 3607.9 | 3625.0 | 3754.4 | 3986.3 | 4211.1 | 4472.9 | 4731.8 | 4747.4 | 4886.9 | 5352.1 | 4612.3 |
| 45° | 3770.1 | 3811.3 | 3963.5 | 4226.8 | 4428.8 | 4657.8 | 4761.7 | 4825.7 | 4926.7 | 5507.2 | 4795.8 |
| 47.5° | 3997.7 | 4036.1 | 4161.4 | 4418.8 | 4655.0 | 4820.0 | 4899.7 | 4962.3 | 5022.0 | 5642.4 | 4913.9 |
| 50° | 4239.6 | 4246.7 | 4398.9 | 4632.2 | 4805.8 | 5003.5 | 5157.2 | 5178.5 | 5147.3 | 5798.8 | 5114.5 |
| 52.5° | 4417.4 | 4440.1 | 4558.2 | 4785.9 | 5044.8 | 5288.0 | 5498.6 | 5521.4 | 5460.2 | 5857.1 | 5182.8 |
| 55° | 4122.9 | 4110.1 | 4302.1 | 4605.2 | 5205.5 | 5712.0 | 6017.9 | 6035.0 | 5687.9 | 6037.8 | 5406.1 |
| 57.5° | 3186.8 | 3247.9 | 3411.6 | 3777.2 | 4625.1 | 5899.8 | 6419.1 | 6358.0 | 5961.0 | 6128.9 | 5548.4 |
| 60° | 2316.1 | 2301.9 | 2411.4 | 2656.1 | 3485.5 | 5084.6 | 6069.2 | 6131.7 | 5737.6 | 5524.3 | 4575.3 |
| 62.5° | 1886.4 | 1866.5 | 1875.1 | 1883.6 | 2249.3 | 3374.6 | 4492.8 | 4491.4 | 4418.8 | 3970.7 | 3085.8 |
| 65° | 1508.0 | 1555.0 | 1559.2 | 1623.3 | 1670.2 | 2016.0 | 2603.5 | 2742.9 | 2388.7 | 1959.0 | 1421.3 |
| 67.5° | 1136.7 | 1119.6 | 1176.6 | 1404.2 | 1492.4 | 1455.4 | 1421.3 | 1436.9 | 1021.5 | 737.0 | 694.2 |
| 70° | 670.1 | 663.0 | 731.2 | 978.8 | 1229.2 | 1156.6 | 1071.3 | 1072.7 | 701.4 | 515.0 | 573.3 |
| 72.5° | 367.0 | 365.7 | 379.9 | 496.5 | 698.5 | 725.5 | 643.0 | 663.0 | 418.2 | 416.9 | 448.2 |
| 75° | 204.9 | 200.6 | 196.3 | 219.1 | 251.8 | 266.0 | 271.7 | 274.6 | 287.4 | 321.5 | 334.3 |
| 77.5° | 75.4 | 72.6 | 72.6 | 83.9 | 106.7 | 133.7 | 169.3 | 172.2 | 203.4 | 233.3 | 246.2 |
| 80° | 25.6 | 28.4 | 38.4 | 52.6 | 71.1 | 95.3 | 115.2 | 118.1 | 143.7 | 163.6 | 167.9 |
| 82.5° | 15.6 | 17.1 | 25.6 | 37.0 | 51.2 | 66.9 | 85.4 | 86.8 | 106.7 | 119.5 | 125.2 |
| 85° | 7.1 | 8.5 | 14.2 | 22.8 | 32.7 | 44.1 | 45.5 | 45.5 | 44.1 | 45.5 | 42.6 |
| 87.5° | 0.0 | 0.0 | 2.9 | 2.9 | 2.9 | 4.3 | 5.7 | 4.3 | 7.1 | 8.5 | 8.5 |
| 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° | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 | 4302.1 |
| 2.5° | 4263.8 | 4248.1 | 4199.7 | 4157.1 | 4144.3 | 4087.3 | 4003.4 | 4013.3 | 3952.2 | 3980.6 | 3950.8 |
| 5° | 4205.4 | 4152.8 | 4029.0 | 3976.3 | 3838.4 | 3775.8 | 3733.1 | 3626.4 | 3576.6 | 3566.7 | 3524.0 |
| 7.5° | 4056.1 | 4023.3 | 3868.3 | 3726.0 | 3579.5 | 3454.2 | 3293.5 | 3183.9 | 3105.7 | 3084.4 | 3021.8 |
| 10° | 3938.0 | 3865.4 | 3650.6 | 3434.3 | 3225.2 | 3007.5 | 2798.4 | 2634.8 | 2555.1 | 2462.6 | 2431.3 |
| 12.5° | 3821.3 | 3711.8 | 3421.5 | 3144.1 | 2873.8 | 2599.2 | 2346.0 | 2146.8 | 1973.2 | 1932.0 | 1917.7 |
| 15° | 3748.8 | 3558.1 | 3216.7 | 2882.4 | 2498.2 | 2139.7 | 1886.4 | 1755.6 | 1648.9 | 1604.8 | 1636.1 |
| 17.5° | 3653.4 | 3431.4 | 3020.4 | 2575.1 | 2152.5 | 1822.4 | 1610.4 | 1529.4 | 1490.9 | 1495.2 | 1482.4 |
| 20° | 3533.9 | 3311.9 | 2762.9 | 2296.2 | 1843.8 | 1580.6 | 1459.6 | 1429.8 | 1435.5 | 1445.4 | 1441.1 |
| 22.5° | 3448.5 | 3166.9 | 2576.5 | 2011.7 | 1593.4 | 1446.9 | 1397.1 | 1375.7 | 1394.2 | 1402.8 | 1395.6 |
| 25° | 3383.1 | 3043.1 | 2350.3 | 1759.9 | 1448.3 | 1371.4 | 1348.7 | 1347.3 | 1375.7 | 1387.1 | 1380.0 |
| 27.5° | 3323.4 | 2927.9 | 2125.5 | 1567.8 | 1351.6 | 1313.1 | 1306.0 | 1323.1 | 1341.6 | 1353.0 | 1362.9 |
| 30° | 3287.8 | 2839.6 | 1915.0 | 1407.0 | 1303.1 | 1284.7 | 1271.8 | 1287.5 | 1297.5 | 1308.8 | 1303.1 |
| 32.5° | 3322.0 | 2777.1 | 1711.4 | 1316.0 | 1263.4 | 1244.8 | 1261.9 | 1251.9 | 1269.0 | 1279.0 | 1263.4 |
| 35° | 3428.7 | 2721.6 | 1566.4 | 1267.6 | 1217.8 | 1224.9 | 1227.8 | 1223.5 | 1230.6 | 1222.1 | 1240.6 |
| 37.5° | 3533.9 | 2701.6 | 1432.6 | 1226.3 | 1196.5 | 1196.5 | 1193.6 | 1185.1 | 1199.4 | 1196.5 | 1205.0 |
| 40° | 3667.7 | 2714.5 | 1318.9 | 1182.3 | 1176.6 | 1173.7 | 1162.3 | 1160.9 | 1155.2 | 1156.6 | 1159.5 |
| 42.5° | 3784.3 | 2742.9 | 1253.3 | 1153.8 | 1158.1 | 1163.8 | 1142.4 | 1125.3 | 1132.4 | 1118.2 | 1118.2 |
| 45° | 3908.0 | 2768.5 | 1195.1 | 1133.8 | 1129.6 | 1128.2 | 1111.1 | 1101.1 | 1095.5 | 1096.9 | 1109.7 |
| 47.5° | 4103.0 | 2805.5 | 1150.9 | 1106.8 | 1109.7 | 1088.3 | 1084.0 | 1071.3 | 1077.0 | 1085.5 | 1086.9 |
| 50° | 4241.0 | 2883.8 | 1116.8 | 1075.6 | 1085.5 | 1071.3 | 1045.7 | 1040.0 | 1040.0 | 1054.2 | 1051.3 |
| 52.5° | 4337.7 | 2993.3 | 1084.0 | 1041.4 | 1045.7 | 1034.3 | 1025.8 | 1013.0 | 1004.4 | 1024.3 | 1034.3 |
| 55° | 4633.7 | 3175.4 | 1075.6 | 1013.0 | 1011.6 | 1000.1 | 984.5 | 971.7 | 967.4 | 970.3 | 990.2 |
| 57.5° | 4605.2 | 3118.5 | 1048.5 | 963.1 | 960.3 | 944.7 | 929.0 | 924.8 | 923.3 | 926.2 | 931.8 |
| 60° | 3738.7 | 2303.3 | 936.1 | 906.3 | 902.0 | 899.1 | 883.5 | 866.4 | 857.9 | 866.4 | 859.3 |
| 62.5° | 2474.1 | 1542.1 | 825.2 | 838.0 | 840.8 | 833.7 | 808.1 | 791.0 | 793.8 | 803.8 | 788.2 |
| 65° | 1215.0 | 906.3 | 748.3 | 782.5 | 785.3 | 765.4 | 741.2 | 721.3 | 711.3 | 719.9 | 712.7 |
| 67.5° | 694.2 | 692.8 | 685.8 | 721.3 | 719.9 | 700.0 | 661.5 | 644.5 | 627.4 | 630.2 | 626.0 |
| 70° | 589.0 | 600.4 | 614.6 | 636.0 | 634.5 | 611.7 | 566.2 | 553.4 | 529.2 | 526.4 | 519.2 |
| 72.5° | 463.8 | 483.7 | 515.0 | 530.7 | 517.9 | 489.4 | 459.5 | 438.2 | 416.9 | 404.0 | 408.3 |
| 75° | 344.3 | 372.7 | 389.8 | 399.8 | 379.9 | 364.2 | 340.0 | 314.4 | 288.8 | 277.4 | 273.2 |
| 77.5° | 250.4 | 258.9 | 274.6 | 281.7 | 268.9 | 253.2 | 239.0 | 213.4 | 189.2 | 173.6 | 169.3 |
| 80° | 175.0 | 180.6 | 192.1 | 192.1 | 192.1 | 184.9 | 166.4 | 140.9 | 125.2 | 110.9 | 108.2 |
| 82.5° | 122.4 | 128.0 | 139.4 | 133.7 | 132.3 | 123.8 | 112.4 | 92.5 | 75.4 | 65.4 | 62.6 |
| 85° | 42.6 | 46.9 | 56.9 | 68.3 | 72.6 | 71.1 | 64.0 | 51.2 | 39.9 | 32.7 | 29.9 |
| 87.5° | 9.9 | 9.9 | 11.4 | 9.9 | 9.9 | 11.4 | 9.9 | 9.9 | 9.9 | 7.1 | 5.7 |
| 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)