

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: P648286

Luminaire Tested: **GALN-SA2B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5350.2 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

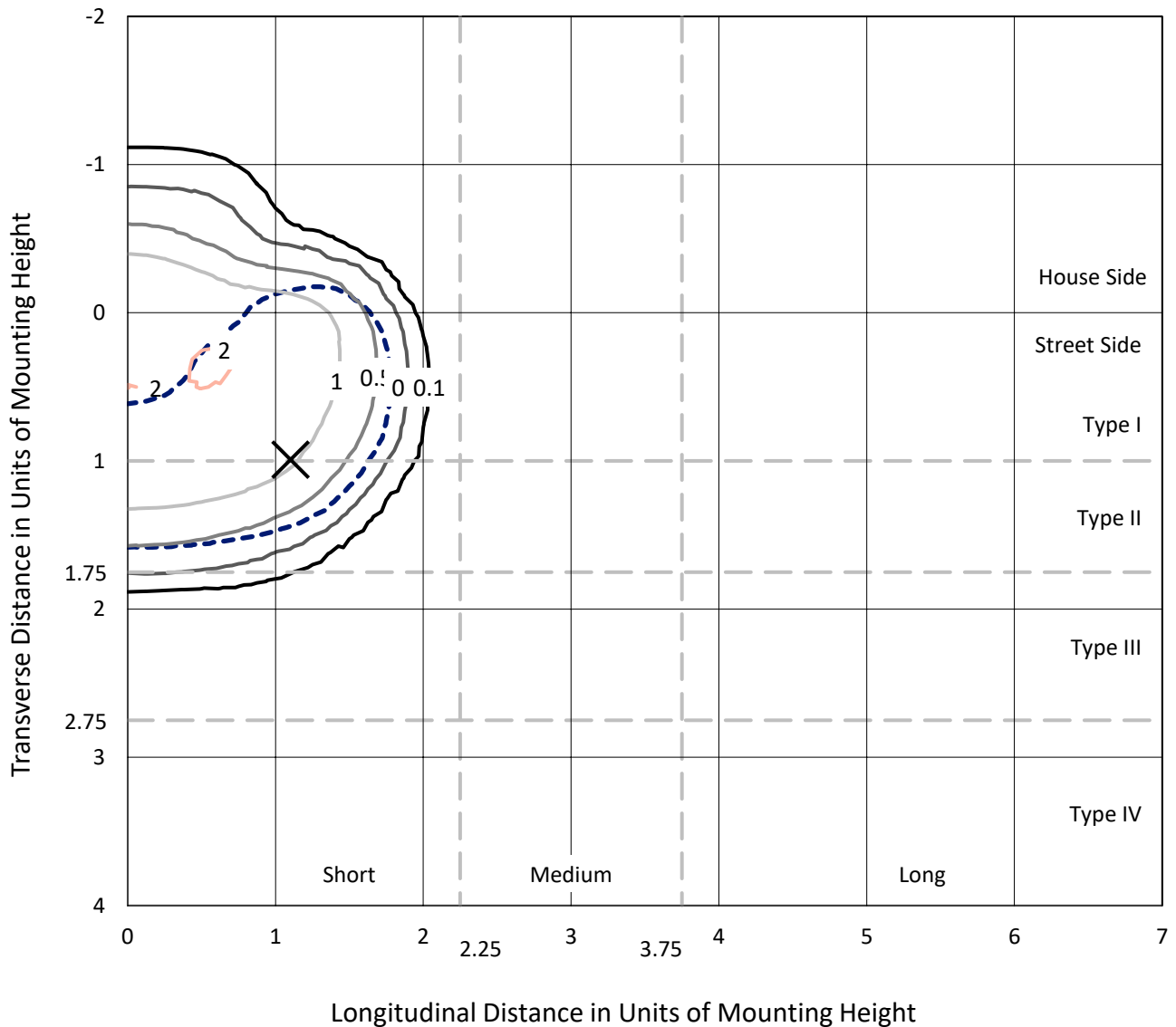
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

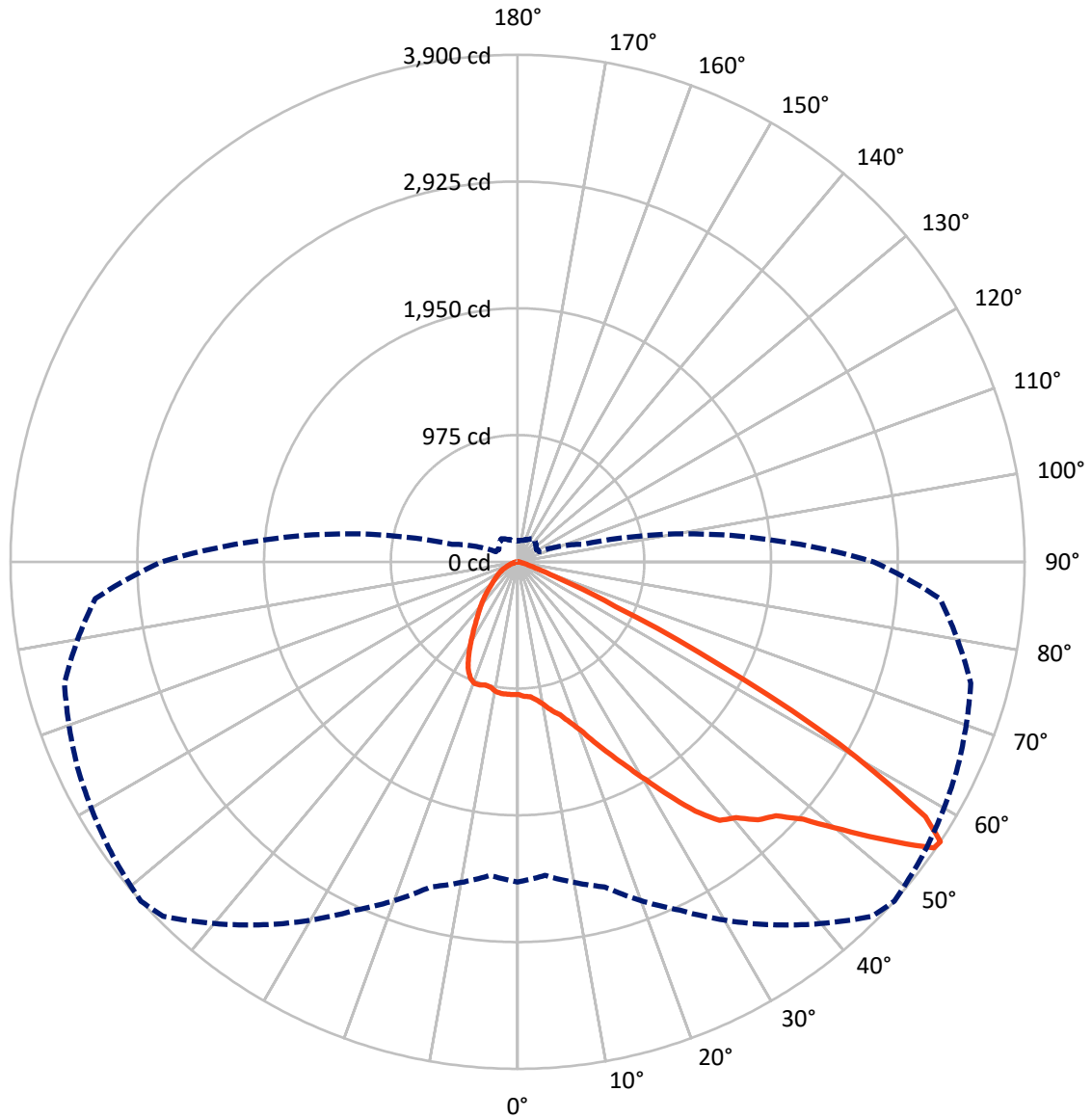
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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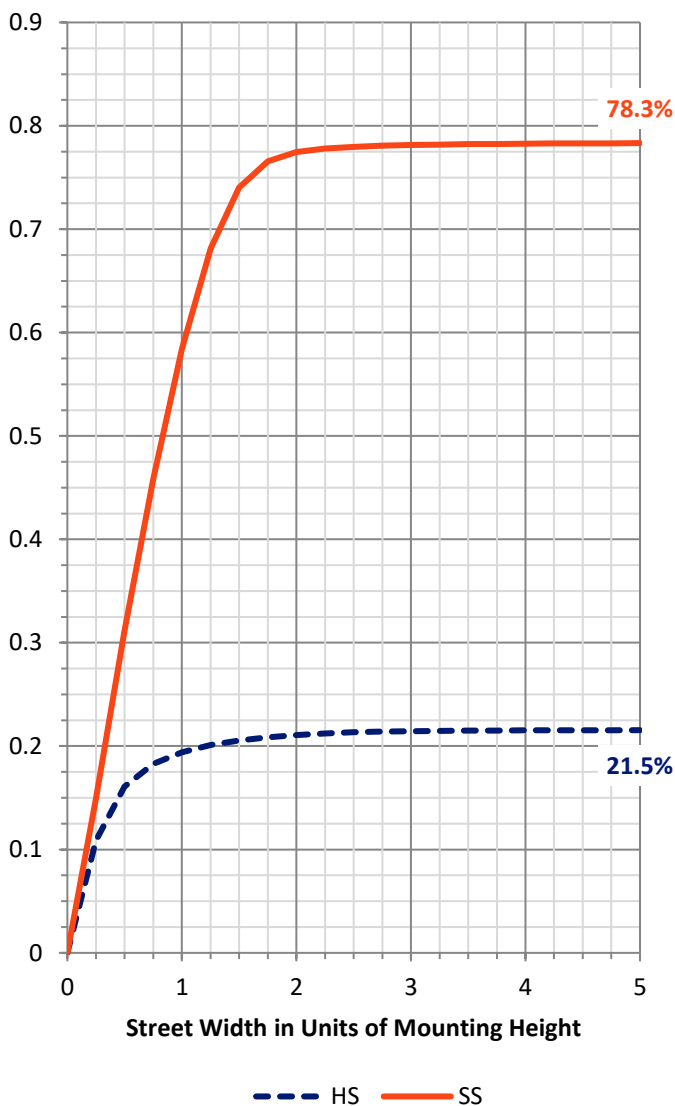
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1163.6 | 0.0 | 1163.6 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 4186.7 | 0.0 | 4186.7 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 5350.2 | 0.0 | 5350.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 1.9 |
| 10°-20° | 318.1 | 5.9 |
| 20°-30° | 577.0 | 10.8 |
| 30°-40° | 906.4 | 16.9 |
| 40°-50° | 1322.2 | 24.7 |
| 50°-60° | 1593.0 | 29.8 |
| 60°-70° | 466.4 | 8.7 |
| 70°-80° | 59.2 | 1.1 |
| 80°-90° | 8.3 | 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° | 5350.2 | 100.0 |
| 0°-180° | 5350.2 | 100.0 |

Coefficient of Utilization

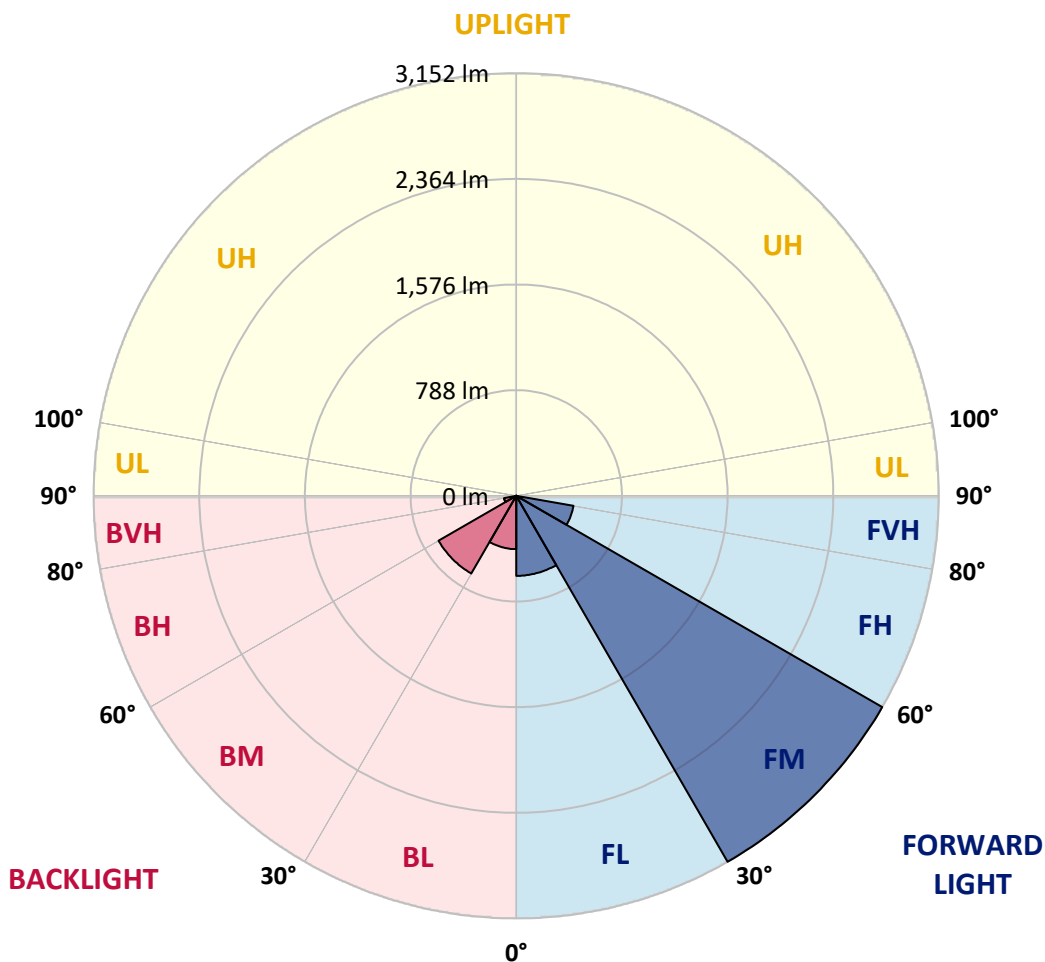


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 597.0 | 11.2 | | | |
| FM (30°-60°) | 3152.4 | 58.9 | | | |
| FH (60°-80°) | 433.1 | 8.1 | | | G0/660 |
| FVH (80°-90°) | 4.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 397.7 | 7.4 | B1/500 | | |
| BM (30°-60°) | 669.3 | 12.5 | B1/1000 | | |
| BH (60°-80°) | 92.5 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 |
| 2.5° | 1040.4 | 1035.5 | 1035.5 | 1027.8 | 1036.5 | 1032.6 | 1035.5 | 1025.8 | 1035.5 | 1021.0 | 1032.6 |
| 5° | 1045.3 | 1046.2 | 1042.3 | 1047.3 | 1047.3 | 1053.1 | 1043.3 | 1052.1 | 1057.0 | 1046.2 | 1041.4 |
| 7.5° | 1070.6 | 1072.6 | 1071.6 | 1067.7 | 1075.5 | 1074.5 | 1073.5 | 1066.7 | 1068.6 | 1064.7 | 1058.9 |
| 10° | 1120.3 | 1119.3 | 1124.2 | 1114.4 | 1108.6 | 1115.4 | 1117.3 | 1106.6 | 1098.9 | 1096.0 | 1077.4 |
| 12.5° | 1192.4 | 1180.7 | 1173.9 | 1164.2 | 1167.1 | 1157.3 | 1174.8 | 1156.3 | 1152.4 | 1134.9 | 1116.4 |
| 15° | 1250.8 | 1248.9 | 1249.8 | 1234.2 | 1216.7 | 1220.6 | 1220.6 | 1210.9 | 1205.0 | 1183.6 | 1157.3 |
| 17.5° | 1370.6 | 1329.8 | 1338.5 | 1319.0 | 1304.4 | 1303.5 | 1294.7 | 1296.6 | 1281.0 | 1236.2 | 1196.3 |
| 20° | 1464.1 | 1446.7 | 1433.0 | 1399.8 | 1377.5 | 1384.3 | 1380.4 | 1370.6 | 1365.8 | 1307.3 | 1250.8 |
| 22.5° | 1547.9 | 1553.8 | 1531.4 | 1522.6 | 1491.5 | 1494.4 | 1502.2 | 1493.4 | 1456.4 | 1396.0 | 1312.2 |
| 25° | 1665.8 | 1659.0 | 1628.8 | 1618.1 | 1588.9 | 1599.6 | 1629.8 | 1622.9 | 1599.6 | 1490.4 | 1359.9 |
| 27.5° | 1805.1 | 1781.7 | 1787.6 | 1738.9 | 1710.6 | 1740.8 | 1776.9 | 1811.0 | 1744.8 | 1601.5 | 1416.4 |
| 30° | 1903.6 | 1879.2 | 1877.2 | 1875.3 | 1868.5 | 1903.6 | 1945.4 | 1976.6 | 1923.0 | 1712.6 | 1509.9 |
| 32.5° | 1952.3 | 1958.0 | 1974.6 | 1968.8 | 2028.2 | 2100.3 | 2144.2 | 2189.0 | 2121.7 | 1893.8 | 1633.7 |
| 35° | 2081.8 | 2044.8 | 2081.8 | 2085.7 | 2147.1 | 2300.0 | 2355.5 | 2462.7 | 2446.1 | 2150.0 | 1784.7 |
| 37.5° | 2157.8 | 2154.8 | 2159.7 | 2196.7 | 2256.1 | 2445.2 | 2524.1 | 2606.8 | 2575.7 | 2303.9 | 1972.7 |
| 40° | 2283.5 | 2291.2 | 2290.3 | 2318.5 | 2383.8 | 2554.2 | 2586.4 | 2653.6 | 2656.6 | 2517.3 | 2249.3 |
| 42.5° | 2485.1 | 2453.9 | 2433.5 | 2462.7 | 2554.2 | 2648.7 | 2713.0 | 2699.4 | 2795.9 | 2776.4 | 2604.9 |
| 45° | 2666.3 | 2684.8 | 2654.6 | 2703.3 | 2736.4 | 2787.1 | 2785.1 | 2814.3 | 2937.1 | 3029.7 | 2872.8 |
| 47.5° | 2835.8 | 2847.5 | 2862.1 | 2895.2 | 2967.3 | 2975.1 | 2958.6 | 2945.9 | 3115.4 | 3210.8 | 3080.3 |
| 50° | 2937.1 | 2947.8 | 3016.0 | 3075.5 | 3209.9 | 3227.4 | 3237.2 | 3205.0 | 3319.9 | 3330.6 | 3276.2 |
| 52.5° | 2909.9 | 2921.5 | 3017.0 | 3212.8 | 3427.1 | 3587.9 | 3558.7 | 3504.1 | 3497.3 | 3539.2 | 3457.3 |
| 55° | 2668.2 | 2657.5 | 2789.0 | 3093.9 | 3495.3 | 3881.1 | 3884.9 | 3827.5 | 3717.4 | 3689.2 | 3430.0 |
| 56° | 2462.7 | 2420.8 | 2588.4 | 2956.6 | 3407.6 | 3855.7 | 3899.6 | 3838.2 | 3734.9 | 3608.3 | 3261.5 |
| 57.5° | 2017.5 | 2057.4 | 2224.0 | 2528.9 | 3104.7 | 3673.6 | 3698.9 | 3684.2 | 3606.3 | 3394.0 | 2869.9 |
| 60° | 1112.5 | 1182.6 | 1329.8 | 1702.9 | 2210.4 | 2819.2 | 2839.7 | 2958.6 | 2973.1 | 2599.1 | 1974.6 |
| 62.5° | 472.5 | 464.7 | 617.6 | 892.3 | 1258.6 | 1701.9 | 1739.8 | 1861.7 | 1884.1 | 1498.3 | 990.7 |
| 65° | 191.9 | 202.6 | 279.6 | 449.1 | 665.3 | 775.4 | 829.0 | 869.0 | 943.0 | 618.6 | 365.3 |
| 67.5° | 126.6 | 125.7 | 164.7 | 256.2 | 358.5 | 345.9 | 345.9 | 365.3 | 338.0 | 252.3 | 157.9 |
| 70° | 90.6 | 93.5 | 117.8 | 177.3 | 223.1 | 165.6 | 158.8 | 152.0 | 172.4 | 166.5 | 127.6 |
| 72.5° | 59.4 | 63.3 | 78.9 | 106.2 | 116.0 | 90.6 | 90.6 | 109.1 | 142.2 | 134.4 | 104.2 |
| 75° | 39.0 | 39.9 | 48.7 | 61.4 | 57.5 | 46.7 | 51.6 | 73.1 | 103.3 | 99.4 | 74.1 |
| 77.5° | 26.3 | 27.2 | 33.1 | 39.9 | 32.2 | 26.3 | 28.3 | 37.0 | 50.7 | 50.7 | 39.0 |
| 80° | 9.7 | 10.7 | 13.6 | 12.7 | 14.6 | 18.5 | 20.4 | 25.3 | 30.2 | 30.2 | 26.3 |
| 82.5° | 0.0 | 0.9 | 2.9 | 6.8 | 10.7 | 14.6 | 16.6 | 19.5 | 22.4 | 25.3 | 24.4 |
| 85° | 0.0 | 0.9 | 2.9 | 4.9 | 7.8 | 8.8 | 9.7 | 6.8 | 5.9 | 5.9 | 4.9 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.0 | 0.9 | 0.9 |
| 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° | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 | 1021.9 |
| 2.5° | 1021.9 | 1021.0 | 1021.0 | 1018.0 | 1023.9 | 1021.0 | 1022.9 | 1021.9 | 1009.2 | 1019.0 | 1012.2 |
| 5° | 1032.6 | 1039.4 | 1028.7 | 1026.7 | 1019.0 | 1021.9 | 1021.9 | 1012.2 | 1021.0 | 1019.9 | 1018.0 |
| 7.5° | 1059.9 | 1048.2 | 1036.5 | 1024.8 | 1022.9 | 1019.9 | 1009.2 | 1005.4 | 1012.2 | 1004.4 | 1016.0 |
| 10° | 1071.6 | 1073.5 | 1056.0 | 1040.4 | 1025.8 | 1005.4 | 990.7 | 982.0 | 971.2 | 982.9 | 989.7 |
| 12.5° | 1125.2 | 1105.7 | 1075.5 | 1051.1 | 1001.5 | 981.0 | 966.4 | 962.5 | 981.0 | 984.9 | 978.0 |
| 15° | 1143.6 | 1140.8 | 1101.8 | 1047.3 | 995.6 | 971.2 | 974.1 | 966.4 | 968.3 | 958.5 | 960.5 |
| 17.5° | 1181.6 | 1148.5 | 1102.8 | 1034.6 | 994.6 | 988.8 | 971.2 | 940.1 | 922.5 | 914.8 | 921.6 |
| 20° | 1223.5 | 1191.4 | 1125.2 | 1039.4 | 1003.4 | 987.8 | 930.4 | 892.3 | 856.3 | 836.8 | 837.8 |
| 22.5° | 1260.6 | 1220.6 | 1115.4 | 1041.4 | 1011.2 | 946.9 | 877.7 | 802.7 | 757.9 | 727.7 | 728.7 |
| 25° | 1305.4 | 1248.9 | 1119.3 | 1045.3 | 990.7 | 881.6 | 782.2 | 709.2 | 655.6 | 635.2 | 642.0 |
| 27.5° | 1330.7 | 1266.4 | 1140.8 | 1054.1 | 937.2 | 789.1 | 681.9 | 613.7 | 582.6 | 572.8 | 571.8 |
| 30° | 1406.7 | 1305.4 | 1167.1 | 1036.5 | 847.5 | 689.7 | 590.4 | 548.5 | 518.3 | 509.5 | 511.5 |
| 32.5° | 1519.7 | 1376.5 | 1201.1 | 990.7 | 756.0 | 601.0 | 531.0 | 499.7 | 471.5 | 454.9 | 453.0 |
| 35° | 1614.2 | 1498.3 | 1237.2 | 919.6 | 649.7 | 532.8 | 489.1 | 450.1 | 407.2 | 388.7 | 383.8 |
| 37.5° | 1794.4 | 1635.6 | 1229.4 | 812.4 | 548.5 | 482.2 | 444.2 | 396.5 | 359.5 | 334.1 | 331.2 |
| 40° | 2034.1 | 1796.4 | 1191.4 | 681.9 | 473.5 | 437.4 | 396.5 | 350.7 | 304.9 | 283.4 | 281.6 |
| 42.5° | 2325.4 | 1993.1 | 1122.3 | 549.4 | 398.5 | 392.6 | 355.6 | 302.9 | 262.1 | 246.5 | 247.4 |
| 45° | 2562.1 | 2161.7 | 1052.1 | 441.3 | 342.9 | 348.7 | 316.6 | 266.9 | 238.7 | 226.0 | 226.0 |
| 47.5° | 2772.4 | 2275.6 | 976.1 | 364.3 | 291.3 | 304.9 | 276.6 | 247.4 | 223.1 | 213.4 | 211.4 |
| 50° | 2975.1 | 2391.6 | 900.1 | 295.2 | 248.4 | 262.1 | 259.1 | 235.8 | 216.3 | 204.6 | 205.5 |
| 52.5° | 3101.8 | 2410.1 | 803.7 | 241.6 | 217.2 | 232.9 | 242.6 | 221.1 | 199.7 | 192.9 | 191.0 |
| 55° | 2946.8 | 2171.4 | 623.5 | 198.7 | 184.1 | 204.6 | 223.1 | 198.7 | 182.2 | 170.5 | 169.5 |
| 56° | 2738.4 | 1941.5 | 521.2 | 183.1 | 174.4 | 196.8 | 216.3 | 190.0 | 171.5 | 164.7 | 159.7 |
| 57.5° | 2318.5 | 1588.9 | 384.8 | 162.7 | 161.7 | 183.1 | 205.5 | 181.2 | 159.7 | 153.9 | 153.9 |
| 60° | 1445.7 | 894.3 | 232.9 | 136.4 | 140.3 | 162.7 | 185.1 | 161.7 | 142.2 | 142.2 | 145.2 |
| 62.5° | 658.5 | 372.2 | 141.3 | 116.0 | 120.8 | 140.3 | 164.7 | 146.1 | 135.4 | 146.1 | 148.1 |
| 65° | 224.1 | 160.7 | 102.3 | 92.6 | 95.4 | 116.0 | 141.3 | 148.1 | 147.1 | 153.9 | 157.9 |
| 67.5° | 125.7 | 103.3 | 85.7 | 77.0 | 75.0 | 85.7 | 116.0 | 148.1 | 142.2 | 139.3 | 141.3 |
| 70° | 106.2 | 87.7 | 76.0 | 68.2 | 65.3 | 69.1 | 89.7 | 112.0 | 100.3 | 97.4 | 95.4 |
| 72.5° | 85.7 | 73.1 | 66.2 | 61.4 | 52.6 | 44.8 | 41.0 | 42.8 | 47.8 | 50.7 | 55.5 |
| 75° | 60.4 | 55.5 | 55.5 | 49.7 | 38.0 | 28.3 | 22.4 | 18.5 | 12.7 | 8.8 | 9.7 |
| 77.5° | 34.1 | 34.1 | 35.1 | 30.2 | 24.4 | 18.5 | 13.6 | 9.7 | 4.9 | 2.0 | 0.9 |
| 80° | 23.4 | 25.3 | 27.2 | 24.4 | 20.4 | 16.6 | 11.7 | 6.8 | 2.9 | 0.0 | 0.0 |
| 82.5° | 23.4 | 26.3 | 28.3 | 24.4 | 20.4 | 15.6 | 11.7 | 6.8 | 2.9 | 0.9 | 0.0 |
| 85° | 4.9 | 5.9 | 6.8 | 7.8 | 11.7 | 11.7 | 8.8 | 5.9 | 2.9 | 0.9 | 0.0 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 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)