

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: P200293

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL3-7050-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5137 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

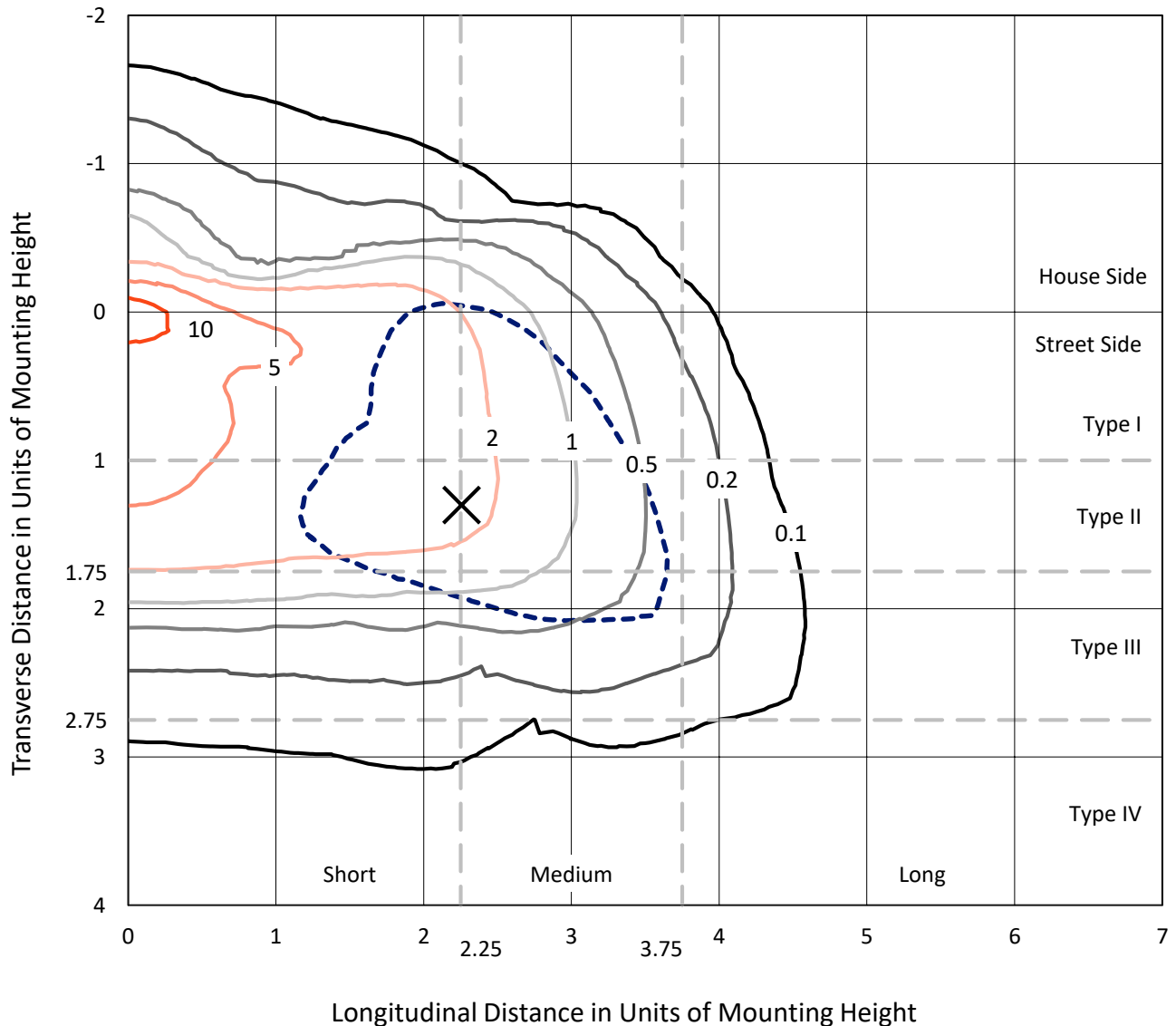
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

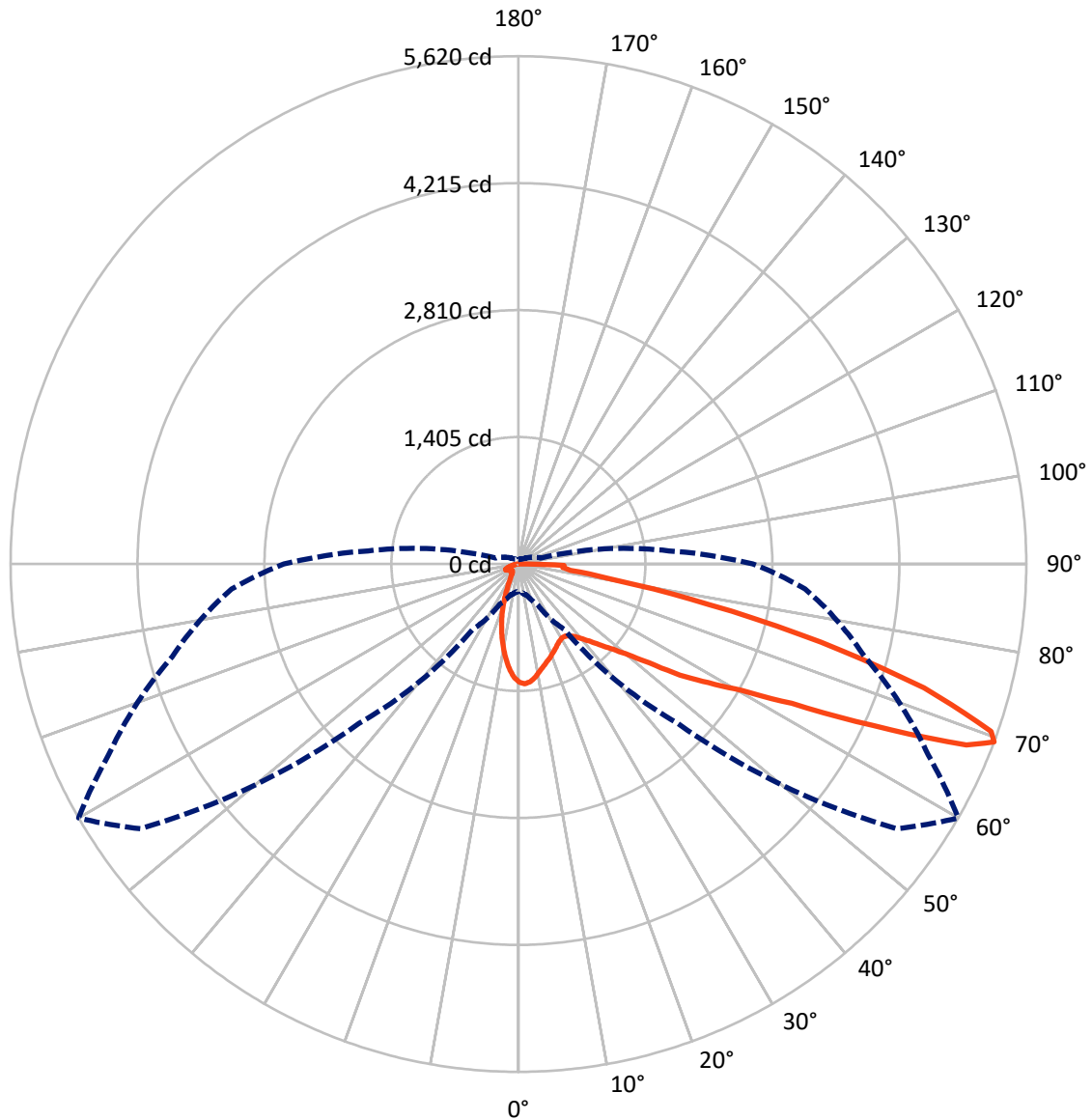
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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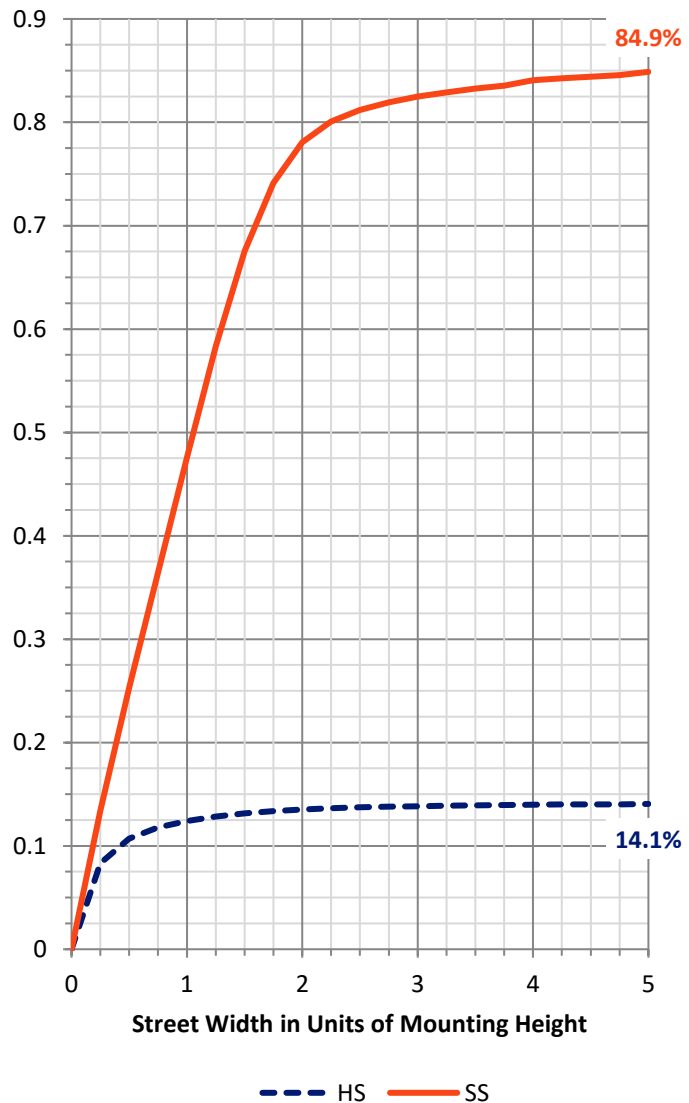
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 730.8 | 0.0 | 730.8 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 4406.2 | 0.0 | 4406.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 5137.0 | 0.0 | 5137.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.7 | 2.2 |
| 10°-20° | 235.8 | 4.6 |
| 20°-30° | 300.5 | 5.8 |
| 30°-40° | 413.1 | 8.0 |
| 40°-50° | 670.2 | 13.0 |
| 50°-60° | 1074.9 | 20.9 |
| 60°-70° | 1430.6 | 27.8 |
| 70°-80° | 772.4 | 15.0 |
| 80°-90° | 128.9 | 2.5 |
| 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° | 5137.0 | 100.0 |
| 0°-180° | 5137.0 | 100.0 |

Coefficient of Utilization



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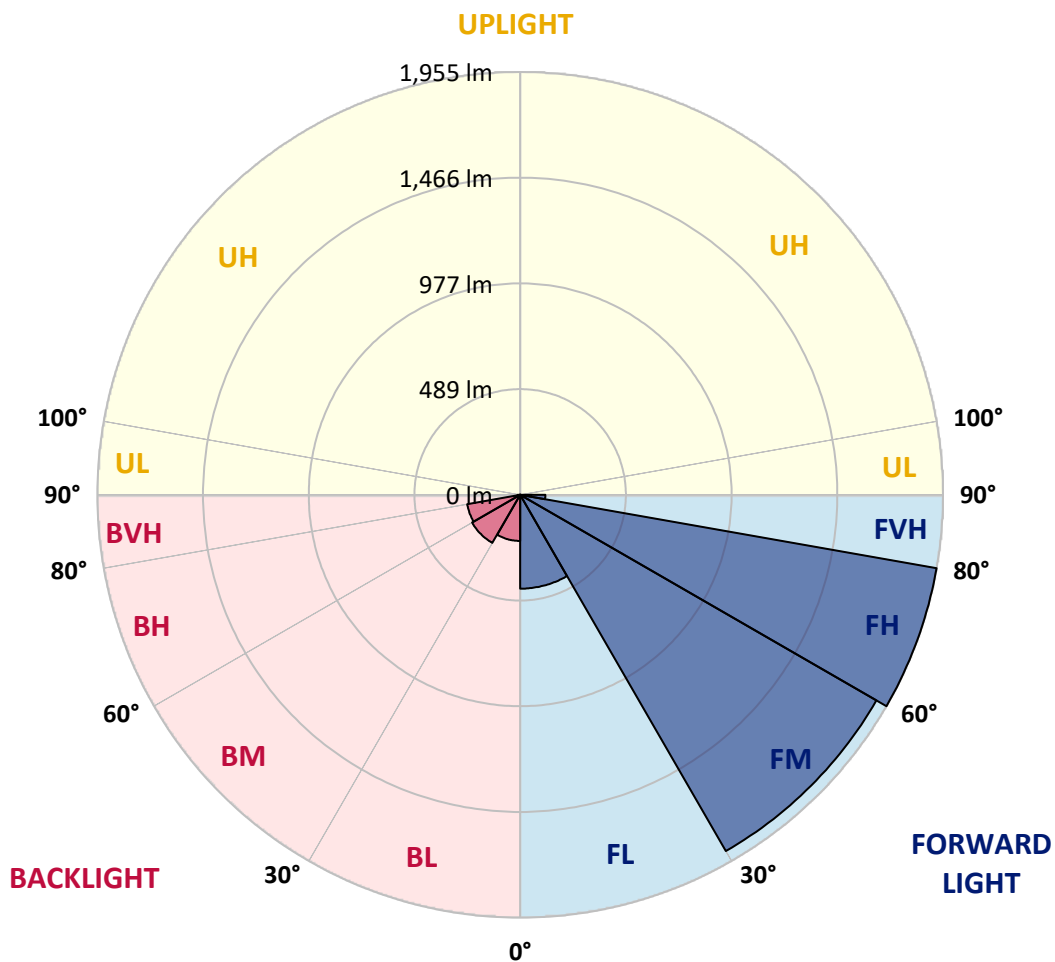
CATALOG NUMBER: GWC-AF-01-LED-E1-SL3-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 433.7 | 8.4 | | | |
| FM (30°-60°) | 1901.4 | 37.0 | | | |
| FH (60°-80°) | 1954.5 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 116.5 | 2.3 | | | G2/225 |
| BL (0°-30°) | 213.2 | 4.2 | B1/500 | | |
| BM (30°-60°) | 256.8 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 248.5 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 |
| 2.5° | 1335.8 | 1338.8 | 1337.5 | 1336.8 | 1339.0 | 1335.5 | 1328.3 | 1326.1 | 1322.6 | 1314.4 | 1300.5 |
| 5° | 1285.7 | 1294.6 | 1294.1 | 1300.8 | 1312.0 | 1314.9 | 1311.7 | 1312.2 | 1305.8 | 1295.6 | 1272.5 |
| 7.5° | 1199.1 | 1202.8 | 1204.8 | 1219.4 | 1239.8 | 1256.1 | 1270.0 | 1274.5 | 1271.5 | 1262.8 | 1233.1 |
| 10° | 1109.7 | 1112.7 | 1117.4 | 1134.5 | 1160.3 | 1182.9 | 1209.2 | 1224.4 | 1230.8 | 1229.3 | 1196.1 |
| 12.5° | 1033.0 | 1036.0 | 1042.2 | 1061.6 | 1092.4 | 1120.1 | 1158.4 | 1177.2 | 1192.6 | 1201.8 | 1166.1 |
| 15° | 964.3 | 970.8 | 976.7 | 999.0 | 1033.5 | 1070.0 | 1113.2 | 1137.0 | 1160.8 | 1181.4 | 1139.5 |
| 17.5° | 910.7 | 917.2 | 920.6 | 941.0 | 977.7 | 1022.4 | 1073.0 | 1101.0 | 1130.8 | 1164.6 | 1113.2 |
| 20° | 879.7 | 882.7 | 881.2 | 892.6 | 925.6 | 973.0 | 1033.0 | 1065.6 | 1101.5 | 1148.7 | 1086.9 |
| 22.5° | 871.0 | 871.3 | 865.8 | 864.6 | 885.9 | 925.8 | 990.4 | 1029.8 | 1074.0 | 1138.3 | 1064.3 |
| 25° | 892.1 | 891.4 | 876.5 | 864.3 | 866.5 | 889.9 | 949.2 | 995.1 | 1050.9 | 1136.0 | 1046.9 |
| 27.5° | 939.0 | 941.2 | 919.1 | 896.3 | 873.7 | 873.0 | 917.9 | 966.3 | 1032.1 | 1146.2 | 1039.5 |
| 30° | 1004.8 | 1008.5 | 984.9 | 955.9 | 913.4 | 878.4 | 905.7 | 949.2 | 1020.4 | 1167.3 | 1038.3 |
| 32.5° | 1076.7 | 1080.7 | 1062.8 | 1032.3 | 976.7 | 912.2 | 914.2 | 950.7 | 1019.9 | 1196.8 | 1046.7 |
| 35° | 1153.4 | 1157.9 | 1148.7 | 1122.9 | 1061.1 | 974.5 | 946.4 | 974.7 | 1036.0 | 1242.0 | 1069.3 |
| 37.5° | 1239.0 | 1246.0 | 1248.4 | 1223.9 | 1157.9 | 1056.6 | 999.3 | 1020.4 | 1072.5 | 1304.8 | 1110.7 |
| 40° | 1362.3 | 1372.0 | 1371.3 | 1336.0 | 1268.8 | 1167.5 | 1080.9 | 1086.4 | 1129.3 | 1388.6 | 1177.0 |
| 42.5° | 1598.6 | 1600.6 | 1538.8 | 1462.1 | 1390.9 | 1284.2 | 1177.2 | 1172.8 | 1207.7 | 1494.8 | 1274.5 |
| 45° | 1899.1 | 1890.9 | 1753.4 | 1605.3 | 1518.4 | 1418.2 | 1302.5 | 1280.7 | 1307.2 | 1624.4 | 1396.6 |
| 47.5° | 2148.5 | 2129.6 | 1955.9 | 1751.4 | 1653.4 | 1563.8 | 1449.7 | 1411.5 | 1426.1 | 1771.3 | 1554.4 |
| 50° | 2235.1 | 2220.9 | 2077.0 | 1873.0 | 1781.2 | 1741.5 | 1630.8 | 1576.7 | 1580.7 | 1946.5 | 1739.3 |
| 52.5° | 2216.5 | 2214.5 | 2118.4 | 1953.2 | 1900.8 | 1928.1 | 1887.4 | 1814.2 | 1775.5 | 2141.0 | 1938.8 |
| 55° | 2172.5 | 2176.8 | 2142.0 | 2046.5 | 2037.6 | 2108.3 | 2222.7 | 2168.6 | 2048.2 | 2337.3 | 2145.0 |
| 57.5° | 2019.9 | 2030.9 | 2107.3 | 2163.9 | 2257.7 | 2362.9 | 2492.7 | 2477.3 | 2341.8 | 2549.5 | 2390.2 |
| 60° | 1627.4 | 1652.7 | 1857.6 | 2141.0 | 2484.2 | 2813.3 | 2871.3 | 2835.6 | 2644.5 | 2812.8 | 2714.0 |
| 62.5° | 1140.2 | 1166.5 | 1410.2 | 1853.7 | 2447.0 | 3322.0 | 3548.3 | 3394.2 | 3079.3 | 3200.6 | 3133.1 |
| 65° | 610.4 | 623.1 | 809.2 | 1286.2 | 2065.8 | 3426.9 | 4537.7 | 4303.2 | 3767.6 | 3678.8 | 3491.7 |
| 67.5° | 336.7 | 343.7 | 414.9 | 649.4 | 1323.1 | 3017.7 | 5167.9 | 5345.1 | 4628.0 | 3997.2 | 3426.4 |
| 69° | 304.5 | 310.9 | 357.6 | 491.8 | 885.4 | 2495.1 | 5106.4 | 5619.8 | 5005.2 | 3965.7 | 3185.2 |
| 70° | 297.8 | 303.7 | 345.7 | 453.4 | 716.7 | 2056.7 | 4900.2 | 5549.6 | 5095.0 | 3852.8 | 2974.8 |
| 72.5° | 268.0 | 274.5 | 315.1 | 407.2 | 612.4 | 1025.4 | 3881.5 | 4692.2 | 4625.7 | 3340.6 | 2256.4 |
| 75° | 249.9 | 255.8 | 324.8 | 398.8 | 586.4 | 648.9 | 2558.9 | 3458.2 | 3400.4 | 2336.8 | 1216.7 |
| 77.5° | 107.0 | 106.5 | 150.6 | 337.5 | 595.1 | 628.3 | 1375.0 | 2160.4 | 1971.0 | 998.8 | 349.4 |
| 80° | 71.5 | 70.2 | 71.5 | 99.3 | 545.7 | 631.8 | 720.4 | 1096.6 | 828.3 | 254.6 | 172.2 |
| 82.5° | 61.5 | 60.5 | 62.8 | 60.5 | 191.8 | 721.1 | 612.4 | 583.1 | 393.8 | 144.7 | 85.4 |
| 85° | 41.4 | 39.7 | 54.1 | 54.3 | 90.6 | 640.7 | 689.9 | 492.6 | 318.6 | 85.9 | 42.2 |
| 87.5° | 19.9 | 19.4 | 31.5 | 38.5 | 53.1 | 260.3 | 774.0 | 504.7 | 321.4 | 43.9 | 20.1 |
| 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° | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 | 1309.0 |
| 2.5° | 1296.3 | 1286.2 | 1276.2 | 1264.3 | 1251.9 | 1238.0 | 1231.1 | 1224.1 | 1222.4 | 1220.4 | 1213.4 |
| 5° | 1260.6 | 1246.2 | 1221.4 | 1194.1 | 1165.3 | 1137.3 | 1115.9 | 1102.5 | 1092.4 | 1087.1 | 1078.0 |
| 7.5° | 1214.4 | 1193.3 | 1149.9 | 1102.8 | 1054.4 | 1010.2 | 972.0 | 947.9 | 925.1 | 914.4 | 902.3 |
| 10° | 1170.5 | 1139.0 | 1071.5 | 1002.0 | 932.5 | 865.8 | 803.0 | 758.6 | 719.1 | 697.1 | 681.4 |
| 12.5° | 1132.8 | 1089.6 | 996.1 | 902.0 | 806.7 | 711.7 | 617.6 | 543.7 | 481.9 | 449.4 | 432.8 |
| 15° | 1096.1 | 1044.0 | 924.4 | 805.0 | 682.7 | 553.4 | 429.8 | 345.9 | 294.8 | 274.5 | 267.5 |
| 17.5° | 1062.8 | 996.1 | 852.4 | 707.2 | 554.6 | 398.3 | 288.8 | 242.7 | 223.1 | 216.4 | 214.2 |
| 20° | 1026.8 | 947.7 | 777.7 | 605.0 | 421.1 | 278.4 | 225.6 | 205.2 | 197.3 | 195.3 | 194.3 |
| 22.5° | 992.1 | 900.0 | 706.2 | 495.6 | 302.5 | 214.9 | 193.8 | 185.4 | 184.1 | 185.9 | 185.9 |
| 25° | 962.6 | 857.4 | 629.1 | 381.2 | 222.1 | 180.9 | 173.5 | 171.5 | 176.2 | 182.6 | 183.9 |
| 27.5° | 940.5 | 822.4 | 546.9 | 281.4 | 176.9 | 157.3 | 157.1 | 160.3 | 172.0 | 184.4 | 186.9 |
| 30° | 925.3 | 789.1 | 459.1 | 203.0 | 148.4 | 138.5 | 142.4 | 149.4 | 166.5 | 184.1 | 188.8 |
| 32.5° | 917.7 | 764.5 | 367.5 | 157.1 | 127.1 | 121.6 | 128.3 | 136.7 | 153.6 | 170.0 | 176.2 |
| 35° | 923.6 | 746.4 | 281.2 | 131.0 | 112.2 | 107.9 | 114.9 | 123.1 | 133.0 | 140.0 | 144.7 |
| 37.5° | 945.9 | 739.2 | 212.2 | 117.4 | 102.0 | 98.0 | 103.5 | 108.2 | 112.2 | 114.1 | 116.4 |
| 40° | 994.1 | 746.9 | 170.0 | 110.4 | 96.3 | 91.3 | 93.6 | 95.3 | 97.8 | 99.8 | 100.7 |
| 42.5° | 1065.1 | 770.0 | 152.4 | 107.7 | 93.3 | 86.1 | 85.6 | 86.4 | 89.6 | 93.3 | 94.0 |
| 45° | 1164.3 | 810.7 | 151.1 | 109.4 | 91.8 | 81.9 | 79.7 | 80.6 | 85.6 | 91.3 | 92.3 |
| 47.5° | 1291.1 | 872.7 | 161.0 | 114.6 | 93.1 | 79.7 | 75.9 | 77.2 | 83.4 | 91.1 | 92.3 |
| 50° | 1444.7 | 959.3 | 177.7 | 122.3 | 98.5 | 80.2 | 74.7 | 75.4 | 81.9 | 90.3 | 91.6 |
| 52.5° | 1626.1 | 1082.2 | 195.8 | 129.8 | 104.2 | 83.4 | 75.7 | 73.9 | 79.9 | 87.3 | 88.8 |
| 55° | 1827.9 | 1239.8 | 214.4 | 136.5 | 107.2 | 87.3 | 77.7 | 72.0 | 76.2 | 82.4 | 83.6 |
| 57.5° | 2075.5 | 1460.1 | 246.7 | 142.9 | 109.2 | 90.1 | 79.7 | 70.0 | 71.5 | 75.9 | 76.9 |
| 60° | 2410.8 | 1771.8 | 303.5 | 153.6 | 113.7 | 91.1 | 79.4 | 68.2 | 66.8 | 69.2 | 69.7 |
| 62.5° | 2812.5 | 2110.3 | 350.9 | 167.0 | 121.1 | 91.8 | 77.9 | 67.0 | 62.8 | 62.8 | 63.3 |
| 65° | 3051.0 | 2200.8 | 324.6 | 178.2 | 127.3 | 91.1 | 76.2 | 65.8 | 59.8 | 57.1 | 57.3 |
| 67.5° | 2848.7 | 1935.6 | 278.2 | 180.4 | 127.1 | 87.6 | 73.5 | 63.5 | 56.8 | 52.6 | 52.4 |
| 69° | 2595.4 | 1670.0 | 257.3 | 174.4 | 121.1 | 83.1 | 70.0 | 61.0 | 54.6 | 50.1 | 49.9 |
| 70° | 2391.2 | 1508.0 | 243.7 | 168.0 | 114.6 | 79.9 | 67.2 | 58.8 | 52.9 | 48.6 | 48.1 |
| 72.5° | 1738.5 | 988.1 | 208.2 | 144.4 | 94.5 | 67.0 | 58.1 | 51.6 | 47.1 | 44.7 | 44.2 |
| 75° | 868.8 | 471.2 | 169.0 | 117.1 | 72.5 | 53.6 | 47.6 | 43.2 | 40.9 | 40.4 | 40.2 |
| 77.5° | 285.4 | 215.9 | 120.8 | 87.3 | 53.8 | 41.9 | 38.5 | 35.2 | 34.7 | 36.2 | 35.7 |
| 80° | 156.8 | 125.6 | 76.7 | 57.8 | 36.7 | 30.8 | 30.3 | 28.5 | 29.3 | 31.8 | 31.3 |
| 82.5° | 79.9 | 65.3 | 47.4 | 34.7 | 24.8 | 22.1 | 24.1 | 23.1 | 24.1 | 26.3 | 26.1 |
| 85° | 39.5 | 35.7 | 30.0 | 21.1 | 16.4 | 14.1 | 17.1 | 17.9 | 18.4 | 20.1 | 20.1 |
| 87.5° | 22.8 | 21.1 | 15.9 | 9.9 | 8.2 | 7.4 | 9.9 | 9.7 | 11.4 | 12.4 | 12.2 |
| 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)