

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: P270159

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270159
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-SL3-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 4462.8 lumens
Efficiency: N/A
Efficacy: 101.4 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

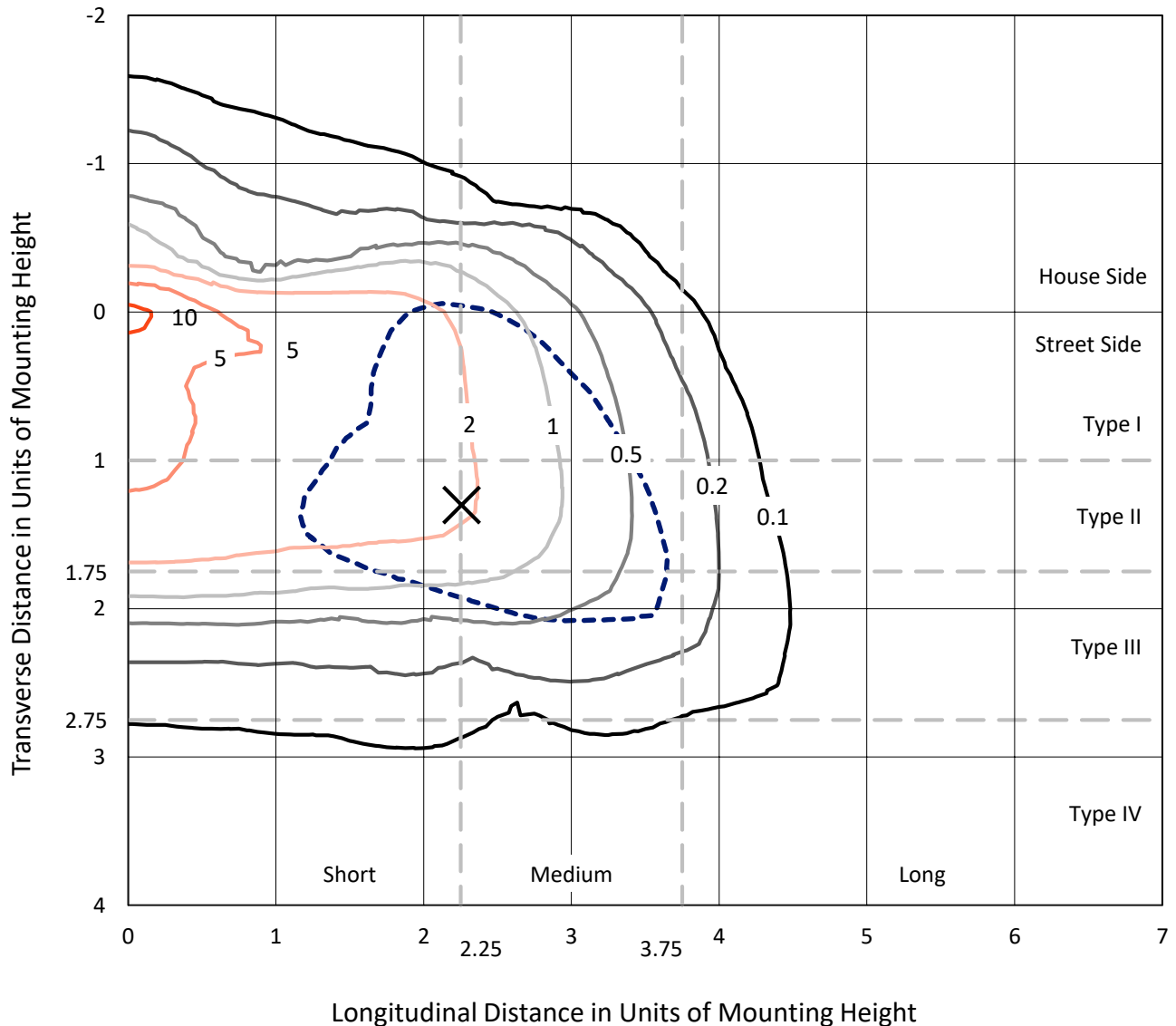


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

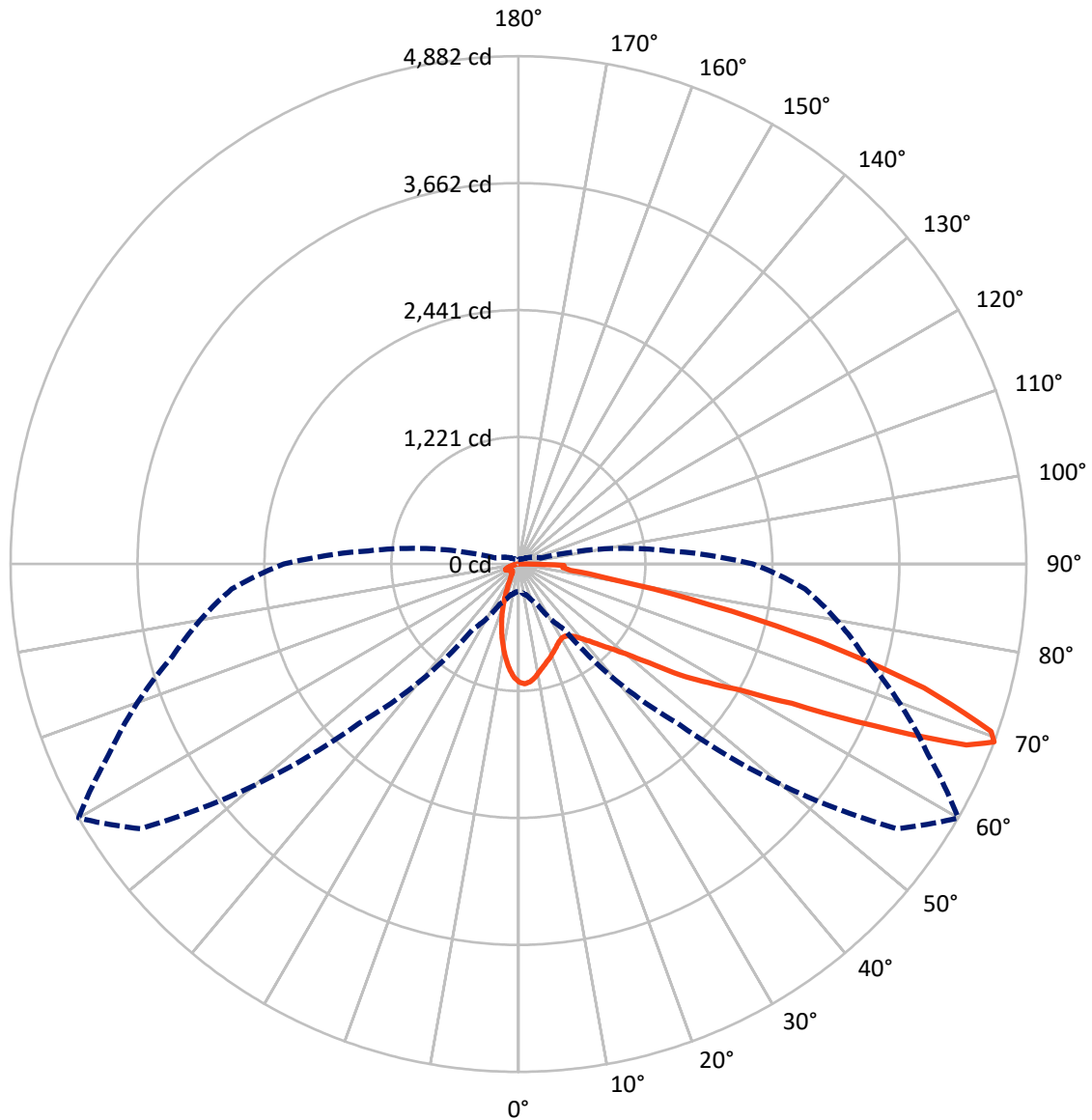


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - Non-Cutoff

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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 | 634.9 | 0.0 | 634.9 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 3827.9 | 0.0 | 3827.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 4462.8 | 0.0 | 4462.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.2 | 2.2 |
| 10°-20° | 204.9 | 4.6 |
| 20°-30° | 261.0 | 5.8 |
| 30°-40° | 358.9 | 8.0 |
| 40°-50° | 582.3 | 13.0 |
| 50°-60° | 933.8 | 20.9 |
| 60°-70° | 1242.8 | 27.8 |
| 70°-80° | 671.0 | 15.0 |
| 80°-90° | 112.0 | 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° | 4462.8 | 100.0 |
| 0°-180° | 4462.8 | 100.0 |



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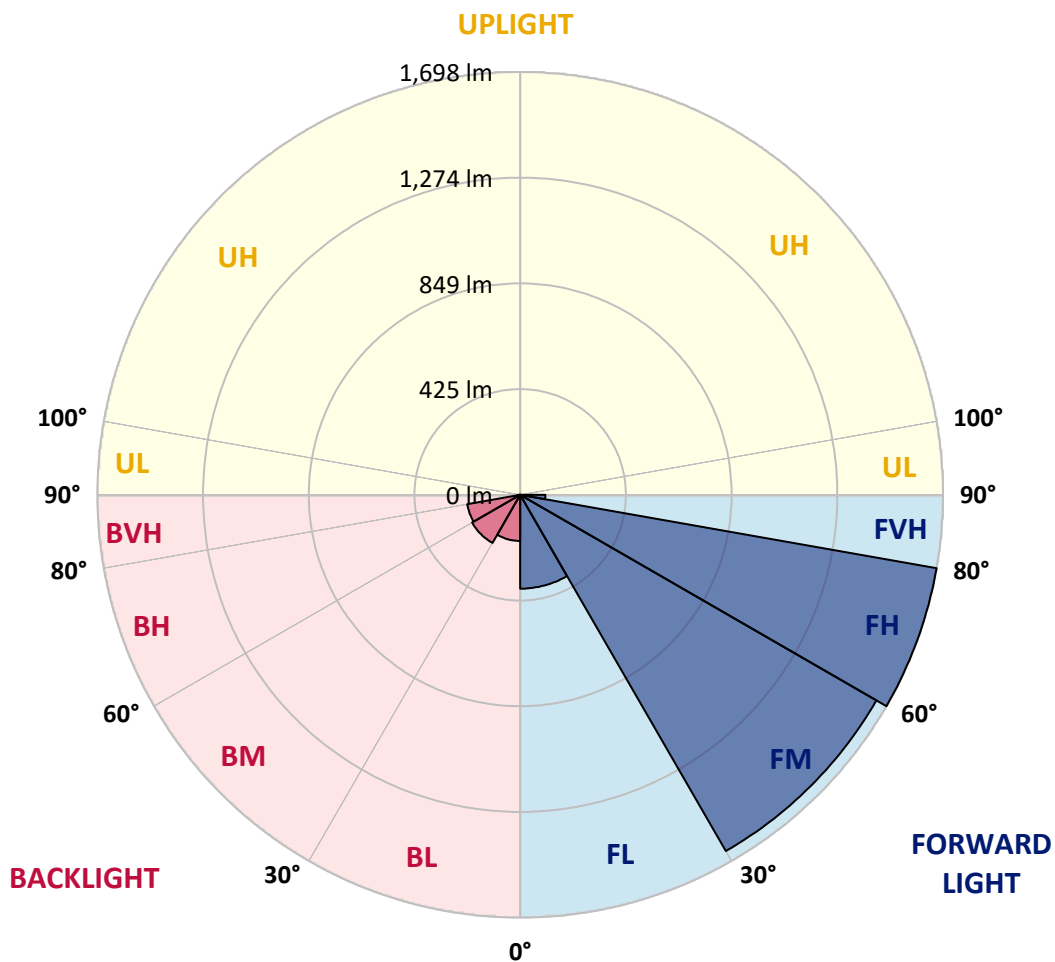
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 376.8 | 8.4 | | | |
| FM (30°-60°) | 1651.9 | 37.0 | | | |
| FH (60°-80°) | 1698.0 | 38.0 | | | G1/1800 |
| FVH (80°-90°) | 101.2 | 2.3 | | | G2/225 |
| BL (0°-30°) | 185.2 | 4.2 | B1/500 | | |
| BM (30°-60°) | 223.1 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 215.9 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.8 | 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° | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 |
| 2.5° | 1160.5 | 1163.0 | 1162.0 | 1161.2 | 1163.2 | 1160.3 | 1154.1 | 1152.0 | 1149.0 | 1141.9 | 1129.9 |
| 5° | 1117.0 | 1124.7 | 1124.3 | 1130.1 | 1139.8 | 1142.4 | 1139.6 | 1139.9 | 1134.4 | 1125.5 | 1105.5 |
| 7.5° | 1041.7 | 1044.9 | 1046.6 | 1059.5 | 1077.1 | 1091.4 | 1103.4 | 1107.3 | 1104.6 | 1097.1 | 1071.1 |
| 10° | 964.2 | 966.7 | 970.8 | 985.6 | 1008.1 | 1027.8 | 1050.5 | 1063.7 | 1069.3 | 1067.9 | 1039.1 |
| 12.5° | 897.4 | 900.0 | 905.4 | 922.3 | 949.0 | 973.1 | 1006.3 | 1022.7 | 1036.0 | 1044.1 | 1013.0 |
| 15° | 837.8 | 843.4 | 848.4 | 867.9 | 897.9 | 929.6 | 967.0 | 987.7 | 1008.4 | 1026.4 | 989.9 |
| 17.5° | 791.1 | 796.7 | 799.9 | 817.5 | 849.3 | 888.2 | 932.3 | 956.5 | 982.3 | 1011.8 | 967.0 |
| 20° | 764.3 | 766.9 | 765.5 | 775.4 | 804.2 | 845.2 | 897.4 | 925.8 | 957.0 | 997.9 | 944.3 |
| 22.5° | 756.7 | 756.9 | 752.2 | 751.2 | 769.6 | 804.3 | 860.3 | 894.6 | 933.0 | 988.9 | 924.6 |
| 25° | 775.0 | 774.3 | 761.5 | 750.9 | 752.8 | 773.1 | 824.6 | 864.4 | 912.9 | 986.9 | 909.5 |
| 27.5° | 815.8 | 817.6 | 798.6 | 778.7 | 759.1 | 758.3 | 797.4 | 839.5 | 896.6 | 995.9 | 903.1 |
| 30° | 873.0 | 876.1 | 855.6 | 830.5 | 793.6 | 763.2 | 786.8 | 824.6 | 886.4 | 1014.0 | 902.0 |
| 32.5° | 935.5 | 938.9 | 923.4 | 896.8 | 848.4 | 792.5 | 794.2 | 825.9 | 886.1 | 1039.8 | 909.4 |
| 35° | 1002.0 | 1005.9 | 997.9 | 975.5 | 921.8 | 846.7 | 822.2 | 846.8 | 900.0 | 1079.0 | 928.9 |
| 37.5° | 1076.3 | 1082.5 | 1084.7 | 1063.2 | 1005.9 | 918.0 | 868.1 | 886.4 | 931.7 | 1133.5 | 964.9 |
| 40° | 1183.5 | 1192.0 | 1191.3 | 1160.7 | 1102.3 | 1014.2 | 939.1 | 943.8 | 981.0 | 1206.5 | 1022.5 |
| 42.5° | 1388.8 | 1390.4 | 1336.8 | 1270.3 | 1208.3 | 1115.7 | 1022.7 | 1018.9 | 1049.2 | 1298.7 | 1107.3 |
| 45° | 1649.8 | 1642.7 | 1523.3 | 1394.6 | 1319.2 | 1232.0 | 1131.5 | 1112.6 | 1135.6 | 1411.1 | 1213.3 |
| 47.5° | 1866.5 | 1850.1 | 1699.2 | 1521.5 | 1436.4 | 1358.5 | 1259.5 | 1226.2 | 1238.9 | 1538.7 | 1350.4 |
| 50° | 1941.7 | 1929.5 | 1804.4 | 1627.2 | 1547.4 | 1512.9 | 1416.7 | 1369.7 | 1373.2 | 1691.0 | 1510.9 |
| 52.5° | 1925.5 | 1923.8 | 1840.4 | 1696.9 | 1651.4 | 1675.1 | 1639.6 | 1576.0 | 1542.5 | 1860.0 | 1684.3 |
| 55° | 1887.3 | 1891.1 | 1860.8 | 1777.8 | 1770.1 | 1831.6 | 1930.9 | 1883.9 | 1779.5 | 2030.6 | 1863.4 |
| 57.5° | 1754.7 | 1764.4 | 1830.7 | 1879.9 | 1961.4 | 2052.7 | 2165.5 | 2152.1 | 2034.4 | 2215.0 | 2076.5 |
| 60° | 1413.8 | 1435.9 | 1613.8 | 1860.0 | 2158.2 | 2444.1 | 2494.6 | 2463.4 | 2297.4 | 2443.6 | 2357.8 |
| 62.5° | 990.7 | 1013.5 | 1225.2 | 1610.4 | 2125.8 | 2886.0 | 3082.7 | 2948.6 | 2675.2 | 2780.6 | 2722.0 |
| 65° | 530.3 | 541.3 | 703.1 | 1117.3 | 1794.8 | 2977.2 | 3942.1 | 3738.3 | 3273.2 | 3196.0 | 3033.4 |
| 67.5° | 292.6 | 298.5 | 360.5 | 564.1 | 1149.6 | 2621.7 | 4489.6 | 4643.6 | 4020.5 | 3472.6 | 2976.8 |
| 69° | 264.6 | 270.1 | 310.6 | 427.2 | 769.2 | 2167.7 | 4436.2 | 4882.3 | 4348.2 | 3445.2 | 2767.1 |
| 70° | 258.7 | 263.8 | 300.4 | 393.8 | 622.5 | 1786.6 | 4257.1 | 4821.3 | 4426.3 | 3347.2 | 2584.3 |
| 72.5° | 232.8 | 238.4 | 273.9 | 353.8 | 532.1 | 890.8 | 3372.1 | 4076.4 | 4018.7 | 2902.2 | 1960.3 |
| 75° | 217.1 | 222.3 | 282.2 | 346.4 | 509.3 | 563.7 | 2223.0 | 3004.3 | 2954.0 | 2030.1 | 1056.9 |
| 77.5° | 93.0 | 92.4 | 130.9 | 293.1 | 517.0 | 545.8 | 1194.6 | 1876.9 | 1712.3 | 867.8 | 303.5 |
| 80° | 62.2 | 61.1 | 62.2 | 86.2 | 474.0 | 548.9 | 625.8 | 952.7 | 719.6 | 221.3 | 149.6 |
| 82.5° | 53.4 | 52.6 | 54.5 | 52.6 | 166.6 | 626.5 | 532.1 | 506.6 | 342.2 | 125.8 | 74.2 |
| 85° | 36.0 | 34.5 | 47.0 | 47.3 | 78.7 | 556.6 | 599.3 | 428.0 | 276.8 | 74.6 | 36.7 |
| 87.5° | 17.2 | 16.8 | 27.4 | 33.3 | 46.2 | 226.2 | 672.4 | 438.6 | 279.2 | 38.2 | 17.4 |
| 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° | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 | 1137.2 |
| 2.5° | 1126.1 | 1117.3 | 1108.8 | 1098.4 | 1087.6 | 1075.5 | 1069.5 | 1063.5 | 1061.9 | 1060.2 | 1054.3 |
| 5° | 1095.2 | 1082.6 | 1061.1 | 1037.4 | 1012.4 | 988.0 | 969.5 | 957.9 | 949.0 | 944.5 | 936.6 |
| 7.5° | 1055.1 | 1036.7 | 999.0 | 958.0 | 916.0 | 877.6 | 844.4 | 823.6 | 803.7 | 794.5 | 783.9 |
| 10° | 1016.9 | 989.6 | 930.9 | 870.5 | 810.1 | 752.2 | 697.7 | 659.0 | 624.7 | 605.5 | 592.1 |
| 12.5° | 984.2 | 946.6 | 865.3 | 783.6 | 700.9 | 618.4 | 536.6 | 472.2 | 418.7 | 390.5 | 376.0 |
| 15° | 952.3 | 907.0 | 803.1 | 699.3 | 593.2 | 480.8 | 373.3 | 300.6 | 256.0 | 238.4 | 232.4 |
| 17.5° | 923.4 | 865.3 | 740.6 | 614.4 | 481.9 | 345.9 | 250.9 | 210.8 | 193.9 | 187.9 | 186.0 |
| 20° | 892.0 | 823.2 | 675.6 | 525.6 | 365.8 | 241.9 | 196.0 | 178.3 | 171.3 | 169.7 | 168.8 |
| 22.5° | 862.0 | 782.0 | 613.5 | 430.5 | 262.8 | 186.7 | 168.3 | 161.1 | 160.0 | 161.4 | 161.4 |
| 25° | 836.2 | 744.9 | 546.4 | 331.1 | 193.0 | 157.2 | 150.6 | 148.9 | 153.2 | 158.7 | 159.8 |
| 27.5° | 817.1 | 714.4 | 475.2 | 244.5 | 153.7 | 136.7 | 136.5 | 139.2 | 149.4 | 160.2 | 162.4 |
| 30° | 804.0 | 685.5 | 398.8 | 176.3 | 128.8 | 120.4 | 123.7 | 129.7 | 144.6 | 160.0 | 164.1 |
| 32.5° | 797.2 | 664.1 | 319.3 | 136.5 | 110.4 | 105.6 | 111.5 | 118.8 | 133.5 | 147.7 | 153.2 |
| 35° | 802.4 | 648.4 | 244.2 | 113.8 | 97.5 | 93.8 | 99.8 | 106.9 | 115.5 | 121.6 | 125.8 |
| 37.5° | 821.8 | 642.2 | 184.3 | 102.0 | 88.7 | 85.2 | 89.9 | 94.1 | 97.5 | 99.2 | 101.1 |
| 40° | 863.6 | 648.8 | 147.7 | 95.8 | 83.6 | 79.3 | 81.2 | 82.7 | 84.9 | 86.6 | 87.6 |
| 42.5° | 925.3 | 669.0 | 132.4 | 93.6 | 81.0 | 74.7 | 74.4 | 75.0 | 77.9 | 81.0 | 81.7 |
| 45° | 1011.5 | 704.4 | 131.3 | 95.1 | 79.8 | 71.1 | 69.2 | 70.1 | 74.4 | 79.3 | 80.2 |
| 47.5° | 1121.7 | 758.2 | 140.0 | 99.6 | 80.8 | 69.2 | 65.9 | 67.1 | 72.5 | 79.1 | 80.2 |
| 50° | 1255.1 | 833.4 | 154.4 | 106.3 | 85.6 | 69.6 | 64.9 | 65.5 | 71.1 | 78.5 | 79.6 |
| 52.5° | 1412.8 | 940.2 | 170.0 | 112.7 | 90.5 | 72.5 | 65.8 | 64.3 | 69.3 | 75.8 | 77.2 |
| 55° | 1587.9 | 1077.1 | 186.3 | 118.5 | 93.2 | 75.8 | 67.5 | 62.5 | 66.1 | 71.5 | 72.7 |
| 57.5° | 1803.1 | 1268.4 | 214.2 | 124.1 | 94.9 | 78.2 | 69.2 | 60.7 | 62.2 | 65.9 | 66.8 |
| 60° | 2094.4 | 1539.2 | 263.7 | 133.5 | 98.8 | 79.1 | 69.0 | 59.3 | 58.0 | 60.1 | 60.5 |
| 62.5° | 2443.4 | 1833.4 | 304.9 | 145.0 | 105.2 | 79.8 | 67.7 | 58.2 | 54.5 | 54.5 | 54.9 |
| 65° | 2650.5 | 1912.0 | 282.0 | 154.8 | 110.6 | 79.1 | 66.1 | 57.1 | 51.9 | 49.5 | 49.8 |
| 67.5° | 2474.9 | 1681.5 | 241.6 | 156.8 | 110.4 | 76.0 | 63.8 | 55.2 | 49.3 | 45.8 | 45.5 |
| 69° | 2254.7 | 1450.9 | 223.6 | 151.5 | 105.2 | 72.3 | 60.7 | 53.0 | 47.4 | 43.6 | 43.3 |
| 70° | 2077.3 | 1310.1 | 211.7 | 146.0 | 99.6 | 69.3 | 58.4 | 51.2 | 46.0 | 42.3 | 41.9 |
| 72.5° | 1510.4 | 858.4 | 180.9 | 125.5 | 82.1 | 58.2 | 50.5 | 44.8 | 41.0 | 38.7 | 38.4 |
| 75° | 754.8 | 409.4 | 146.9 | 101.8 | 62.9 | 46.5 | 41.4 | 37.5 | 35.6 | 35.2 | 34.9 |
| 77.5° | 247.9 | 187.6 | 105.0 | 75.8 | 46.8 | 36.4 | 33.3 | 30.6 | 30.3 | 31.5 | 31.0 |
| 80° | 136.3 | 109.1 | 66.7 | 50.2 | 31.9 | 26.7 | 26.3 | 24.9 | 25.4 | 27.6 | 27.2 |
| 82.5° | 69.3 | 56.8 | 41.2 | 30.3 | 21.6 | 19.1 | 20.9 | 20.0 | 20.9 | 22.8 | 22.6 |
| 85° | 34.2 | 31.0 | 26.1 | 18.3 | 14.3 | 12.2 | 14.9 | 15.5 | 16.0 | 17.4 | 17.4 |
| 87.5° | 19.9 | 18.3 | 13.8 | 8.7 | 7.0 | 6.5 | 8.7 | 8.4 | 9.9 | 10.8 | 10.6 |
| 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)