

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: P199904

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5MQ-7030
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12621.6 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

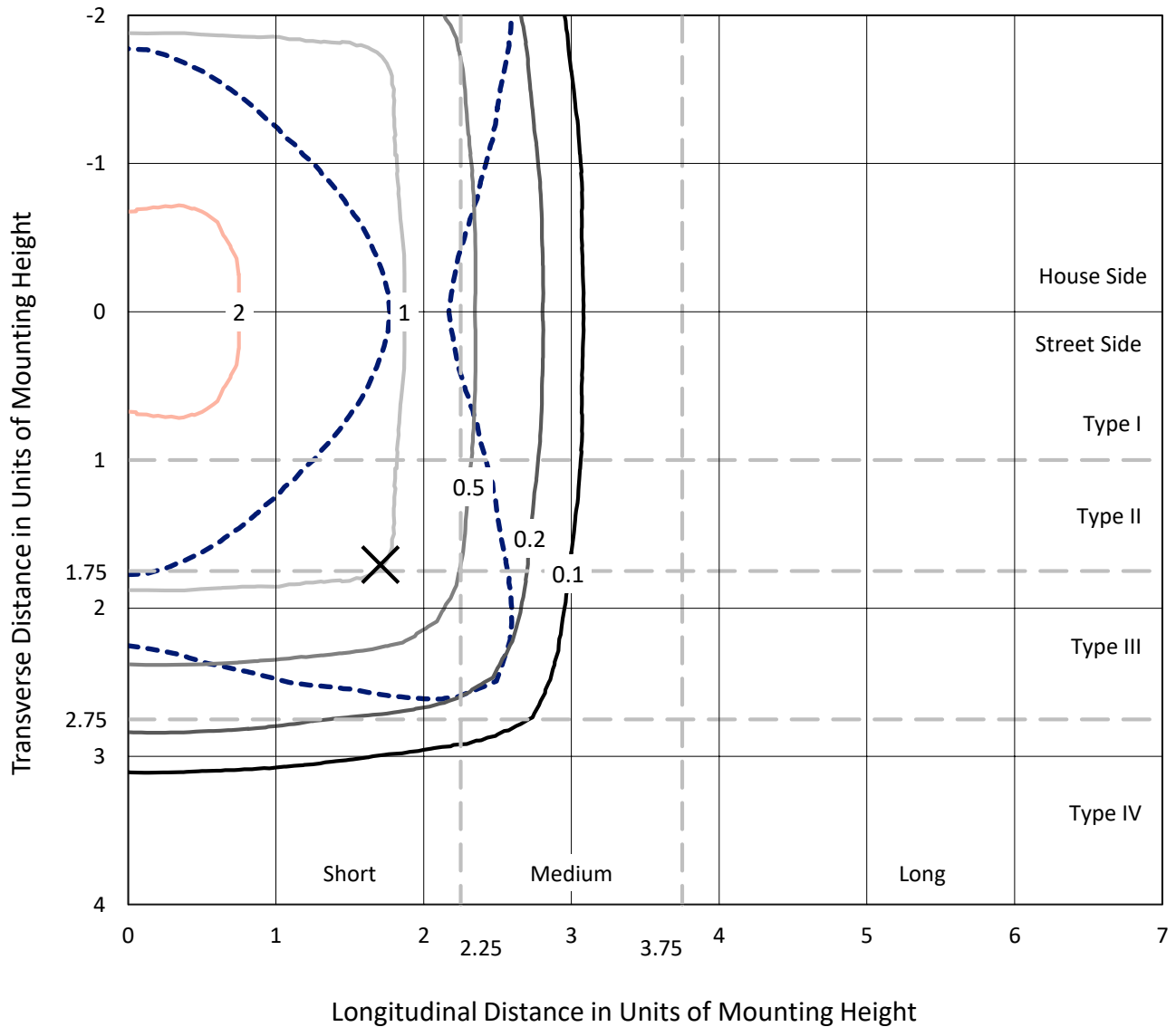
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

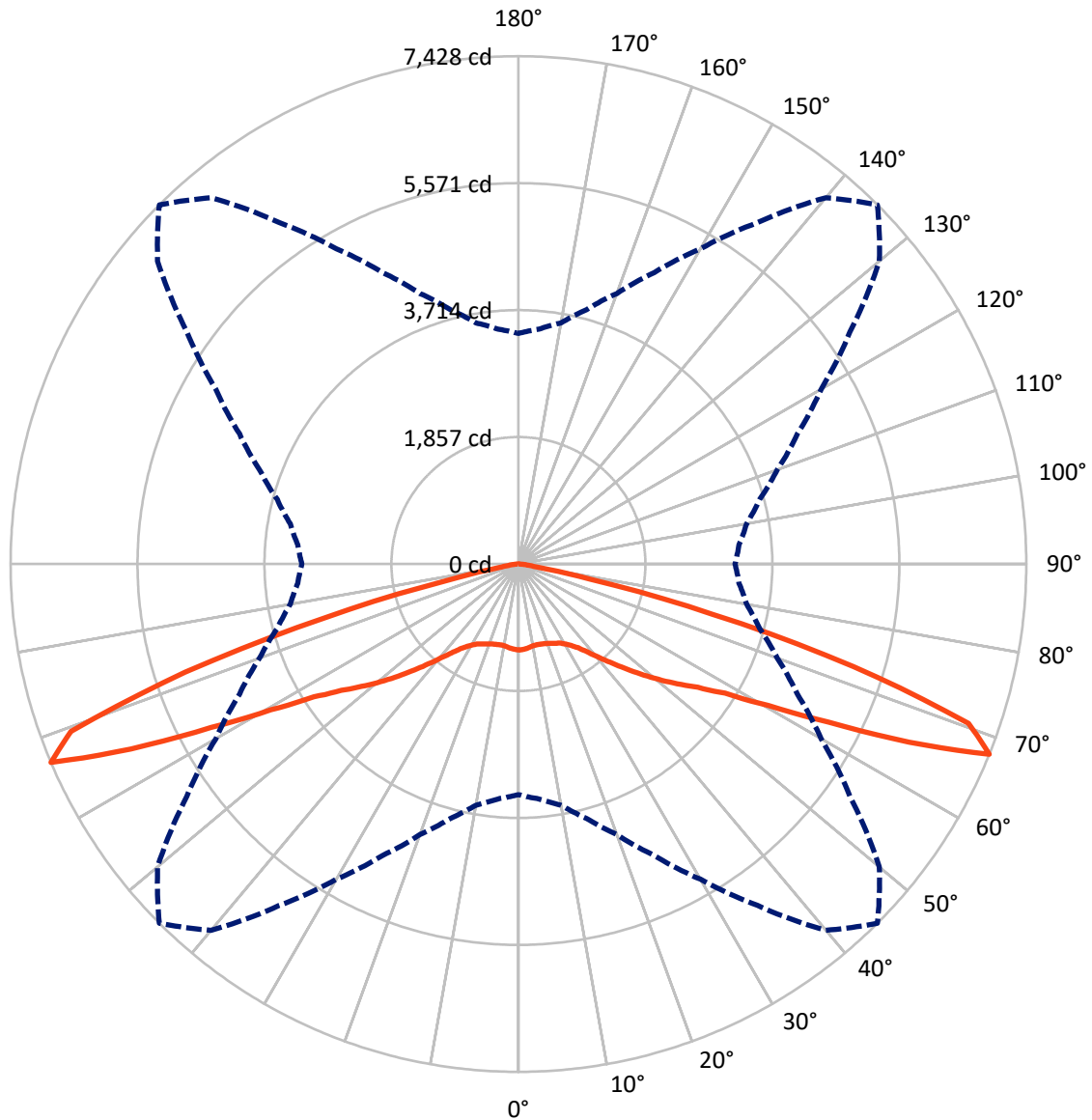
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6310.8 | 0.0 | 6310.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6310.8 | 0.0 | 6310.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12621.6 | 0.0 | 12621.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.7 | 0.9 |
| 10°-20° | 341.6 | 2.7 |
| 20°-30° | 580.7 | 4.6 |
| 30°-40° | 949.3 | 7.5 |
| 40°-50° | 1694.7 | 13.4 |
| 50°-60° | 2857.3 | 22.6 |
| 60°-70° | 4434.2 | 35.1 |
| 70°-80° | 1558.0 | 12.3 |
| 80°-90° | 88.0 | 0.7 |
| 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° | 12621.6 | 100.0 |
| 0°-180° | 12621.6 | 100.0 |



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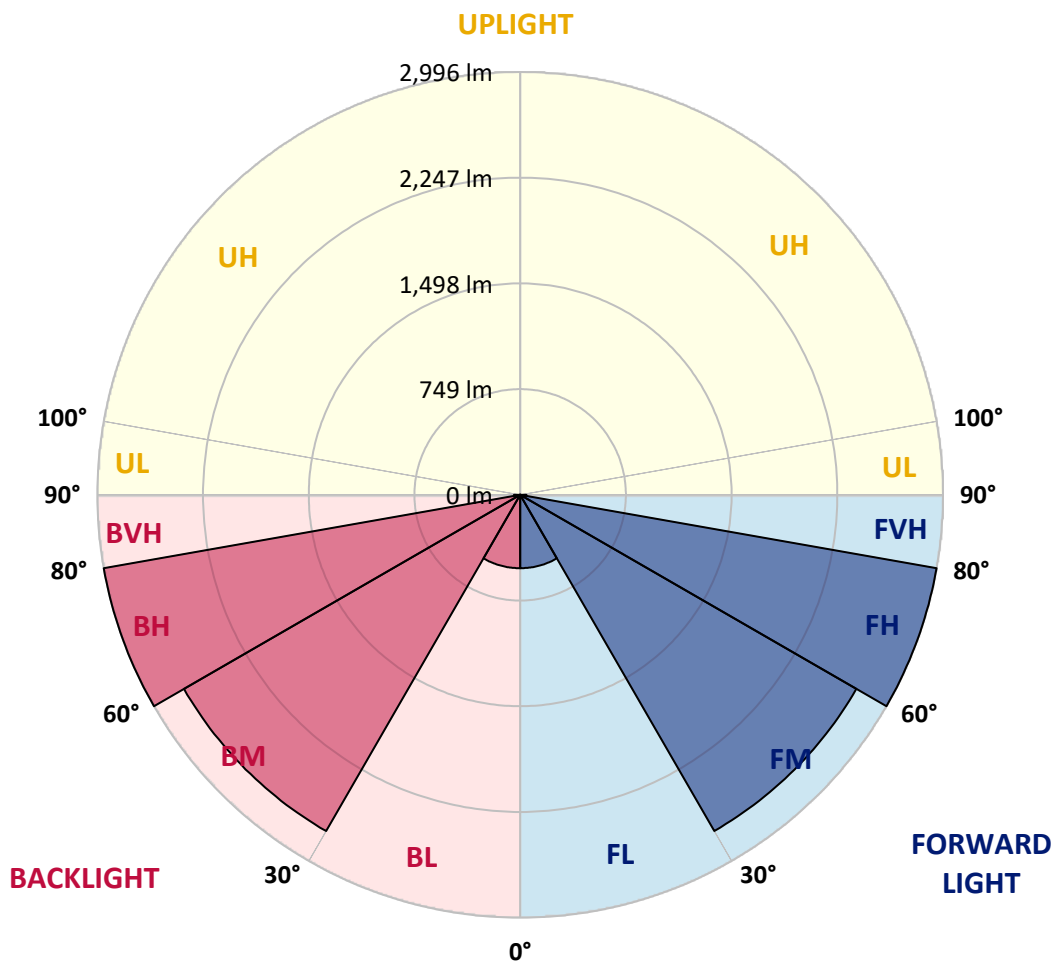
CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 520.0 | 4.1 | | | |
| FM | (30°-60°) | 2750.7 | 21.8 | | | |
| FH | (60°-80°) | 2996.1 | 23.7 | | | G2/5000 |
| FVH | (80°-90°) | 44.0 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 520.0 | 4.1 | B2/1000 | | |
| BM | (30°-60°) | 2750.7 | 21.8 | B3/5000 | | |
| BH | (60°-80°) | 2996.1 | 23.7 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 44.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 |
| 2.5° | 1253.2 | 1254.3 | 1254.3 | 1254.3 | 1253.8 | 1253.8 | 1252.5 | 1253.8 | 1253.2 | 1251.4 | 1252.0 |
| 5° | 1242.8 | 1243.9 | 1243.9 | 1243.3 | 1245.0 | 1244.5 | 1242.8 | 1243.9 | 1243.3 | 1242.2 | 1242.8 |
| 7.5° | 1227.6 | 1229.3 | 1229.3 | 1228.7 | 1230.5 | 1229.9 | 1228.7 | 1229.3 | 1229.3 | 1227.6 | 1227.6 |
| 10° | 1210.8 | 1211.9 | 1211.9 | 1211.3 | 1214.3 | 1214.3 | 1213.7 | 1215.4 | 1216.0 | 1214.3 | 1213.1 |
| 12.5° | 1195.1 | 1196.8 | 1196.8 | 1199.1 | 1202.1 | 1203.3 | 1206.1 | 1208.4 | 1210.8 | 1210.1 | 1207.9 |
| 15° | 1185.8 | 1187.0 | 1189.3 | 1192.2 | 1196.8 | 1200.9 | 1205.5 | 1210.8 | 1215.4 | 1216.6 | 1213.1 |
| 17.5° | 1180.0 | 1181.7 | 1185.3 | 1189.3 | 1195.8 | 1202.6 | 1209.6 | 1216.6 | 1222.9 | 1225.4 | 1221.2 |
| 20° | 1178.3 | 1179.5 | 1183.0 | 1189.9 | 1198.6 | 1209.1 | 1218.9 | 1227.0 | 1235.7 | 1238.7 | 1235.7 |
| 22.5° | 1181.7 | 1184.1 | 1188.2 | 1196.3 | 1207.9 | 1221.2 | 1232.9 | 1243.9 | 1254.9 | 1260.1 | 1256.1 |
| 25° | 1197.5 | 1199.7 | 1205.0 | 1215.4 | 1228.2 | 1242.2 | 1255.5 | 1268.3 | 1278.2 | 1283.4 | 1280.4 |
| 27.5° | 1226.4 | 1229.3 | 1235.7 | 1246.2 | 1260.1 | 1275.2 | 1289.7 | 1300.1 | 1308.3 | 1310.0 | 1306.5 |
| 30° | 1270.0 | 1276.3 | 1283.9 | 1295.5 | 1311.7 | 1324.5 | 1339.1 | 1348.4 | 1358.2 | 1358.2 | 1355.4 |
| 32.5° | 1337.9 | 1344.3 | 1352.4 | 1363.4 | 1376.2 | 1390.1 | 1402.9 | 1411.1 | 1421.5 | 1422.0 | 1415.1 |
| 35° | 1439.5 | 1442.3 | 1449.4 | 1456.3 | 1467.9 | 1480.1 | 1491.2 | 1496.3 | 1505.0 | 1505.6 | 1499.2 |
| 37.5° | 1573.6 | 1574.1 | 1578.8 | 1581.1 | 1591.6 | 1604.9 | 1615.4 | 1618.7 | 1627.0 | 1625.8 | 1619.4 |
| 40° | 1729.7 | 1732.7 | 1734.4 | 1737.8 | 1748.8 | 1761.6 | 1772.6 | 1774.4 | 1783.1 | 1781.4 | 1773.3 |
| 42.5° | 1910.2 | 1911.4 | 1921.3 | 1926.5 | 1936.9 | 1943.2 | 1957.3 | 1958.9 | 1969.4 | 1964.8 | 1955.5 |
| 45° | 2112.7 | 2123.2 | 2132.5 | 2143.0 | 2153.9 | 2161.5 | 2172.5 | 2170.2 | 2177.2 | 2170.2 | 2165.0 |
| 47.5° | 2325.8 | 2333.3 | 2354.2 | 2370.5 | 2388.5 | 2394.9 | 2410.6 | 2403.6 | 2410.6 | 2400.7 | 2398.9 |
| 50° | 2560.3 | 2573.6 | 2591.6 | 2610.2 | 2629.4 | 2639.8 | 2660.1 | 2651.4 | 2660.7 | 2651.4 | 2646.2 |
| 52.5° | 2791.3 | 2794.8 | 2834.3 | 2861.5 | 2888.3 | 2900.4 | 2912.7 | 2908.6 | 2909.1 | 2908.6 | 2903.3 |
| 55° | 3010.7 | 3018.9 | 3058.2 | 3095.5 | 3141.9 | 3176.1 | 3197.0 | 3194.7 | 3189.5 | 3184.3 | 3175.5 |
| 57.5° | 3258.0 | 3266.1 | 3311.3 | 3357.2 | 3410.1 | 3458.8 | 3501.2 | 3544.7 | 3561.6 | 3566.2 | 3547.0 |
| 60° | 3592.3 | 3591.7 | 3652.1 | 3707.8 | 3783.2 | 3855.9 | 3948.7 | 4043.2 | 4151.9 | 4202.3 | 4135.6 |
| 62.5° | 3932.5 | 3946.3 | 4033.5 | 4132.0 | 4287.7 | 4439.2 | 4610.4 | 4778.7 | 4950.5 | 5090.4 | 4941.8 |
| 65° | 3891.9 | 3945.3 | 4074.6 | 4298.2 | 4585.4 | 4926.7 | 5295.9 | 5686.5 | 6039.5 | 6282.1 | 6009.8 |
| 67.5° | 3373.0 | 3449.0 | 3580.7 | 3852.4 | 4211.6 | 4703.8 | 5323.7 | 6096.3 | 6994.2 | 7428.4 | 6890.3 |
| 70° | 2444.7 | 2530.7 | 2668.8 | 2934.0 | 3289.9 | 3757.8 | 4431.0 | 5358.5 | 6547.3 | 6985.0 | 6392.3 |
| 72.5° | 1216.6 | 1263.0 | 1348.4 | 1517.3 | 1786.6 | 2166.2 | 2776.9 | 3668.4 | 4720.1 | 5121.7 | 4580.1 |
| 75° | 413.2 | 434.8 | 449.3 | 504.4 | 589.7 | 738.9 | 1042.5 | 1603.7 | 2446.6 | 2932.9 | 2411.7 |
| 77.5° | 238.5 | 239.2 | 249.0 | 258.8 | 273.3 | 289.6 | 330.3 | 433.5 | 749.9 | 1065.1 | 776.1 |
| 80° | 154.4 | 153.8 | 161.9 | 169.5 | 179.4 | 187.5 | 189.8 | 200.8 | 231.6 | 274.6 | 245.5 |
| 82.5° | 80.1 | 89.9 | 107.9 | 117.8 | 136.3 | 139.9 | 135.3 | 131.2 | 138.8 | 143.9 | 147.4 |
| 85° | 44.1 | 38.4 | 57.5 | 74.3 | 82.4 | 83.6 | 83.6 | 78.8 | 81.8 | 80.1 | 87.1 |
| 87.5° | 20.3 | 18.6 | 22.6 | 36.6 | 38.9 | 33.1 | 34.9 | 30.8 | 22.1 | 21.6 | 24.4 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 | 1257.8 |
| 2.5° | 1252.0 | 1252.5 | 1252.5 | 1254.3 | 1254.9 | 1256.1 | 1257.2 | 1257.8 |
| 5° | 1242.2 | 1243.9 | 1242.8 | 1244.5 | 1244.5 | 1245.5 | 1245.5 | 1246.2 |
| 7.5° | 1227.6 | 1229.3 | 1229.3 | 1229.3 | 1228.7 | 1230.5 | 1230.5 | 1230.5 |
| 10° | 1212.6 | 1213.7 | 1213.1 | 1211.9 | 1210.8 | 1212.6 | 1211.9 | 1211.3 |
| 12.5° | 1207.9 | 1205.0 | 1202.6 | 1201.6 | 1199.1 | 1199.7 | 1198.0 | 1198.0 |
| 15° | 1210.8 | 1205.5 | 1201.6 | 1199.7 | 1197.5 | 1196.3 | 1195.1 | 1195.8 |
| 17.5° | 1218.4 | 1211.9 | 1206.8 | 1203.8 | 1200.9 | 1199.1 | 1196.8 | 1197.5 |
| 20° | 1231.7 | 1224.1 | 1216.6 | 1210.8 | 1205.5 | 1202.6 | 1200.9 | 1200.3 |
| 22.5° | 1251.4 | 1240.4 | 1229.3 | 1220.7 | 1213.7 | 1209.6 | 1207.9 | 1206.8 |
| 25° | 1274.1 | 1261.8 | 1249.1 | 1239.2 | 1232.2 | 1227.0 | 1223.6 | 1223.6 |
| 27.5° | 1302.5 | 1292.6 | 1281.1 | 1269.4 | 1263.0 | 1257.8 | 1255.5 | 1254.3 |
| 30° | 1350.1 | 1340.8 | 1331.6 | 1320.5 | 1312.3 | 1307.2 | 1303.0 | 1299.6 |
| 32.5° | 1411.1 | 1403.4 | 1395.9 | 1387.8 | 1380.3 | 1373.3 | 1367.0 | 1364.0 |
| 35° | 1497.0 | 1491.2 | 1485.9 | 1476.6 | 1473.7 | 1469.6 | 1466.1 | 1463.3 |
| 37.5° | 1615.4 | 1613.0 | 1613.0 | 1603.2 | 1600.8 | 1599.1 | 1595.6 | 1596.2 |
| 40° | 1770.9 | 1773.3 | 1770.3 | 1766.8 | 1765.1 | 1760.5 | 1760.5 | 1764.5 |
| 42.5° | 1954.8 | 1956.7 | 1963.1 | 1957.3 | 1963.6 | 1957.8 | 1954.3 | 1957.3 |
| 45° | 2168.5 | 2175.0 | 2187.7 | 2181.8 | 2186.0 | 2176.0 | 2163.9 | 2164.4 |
| 47.5° | 2408.2 | 2414.0 | 2419.2 | 2415.1 | 2415.7 | 2399.6 | 2383.3 | 2379.2 |
| 50° | 2657.1 | 2659.6 | 2662.4 | 2656.6 | 2657.8 | 2639.8 | 2621.2 | 2621.7 |
| 52.5° | 2903.3 | 2914.4 | 2926.0 | 2910.3 | 2906.9 | 2886.5 | 2860.4 | 2849.9 |
| 55° | 3184.8 | 3200.5 | 3187.2 | 3159.9 | 3132.6 | 3105.3 | 3071.1 | 3065.3 |
| 57.5° | 3532.0 | 3505.2 | 3463.4 | 3411.8 | 3374.0 | 3335.8 | 3300.9 | 3286.4 |
| 60° | 4014.8 | 3914.4 | 3839.0 | 3762.4 | 3714.2 | 3667.2 | 3621.3 | 3614.4 |
| 62.5° | 4697.5 | 4523.9 | 4373.5 | 4215.1 | 4085.6 | 3984.6 | 3904.0 | 3881.3 |
| 65° | 5553.0 | 5142.7 | 4786.8 | 4454.8 | 4166.4 | 3948.7 | 3811.7 | 3751.3 |
| 67.5° | 5921.0 | 5110.7 | 4500.7 | 4029.4 | 3652.1 | 3388.5 | 3240.5 | 3166.9 |
| 70° | 5203.0 | 4238.2 | 3574.9 | 3103.0 | 2759.4 | 2478.4 | 2344.3 | 2265.4 |
| 72.5° | 3579.6 | 2696.1 | 2131.9 | 1740.2 | 1465.6 | 1230.5 | 1137.6 | 1130.8 |
| 75° | 1607.2 | 1064.5 | 733.6 | 565.3 | 476.0 | 413.9 | 394.7 | 380.2 |
| 77.5° | 449.8 | 332.5 | 296.6 | 277.4 | 258.8 | 237.4 | 229.2 | 231.0 |
| 80° | 218.8 | 206.6 | 198.6 | 186.3 | 169.5 | 151.6 | 143.3 | 146.9 |
| 82.5° | 145.1 | 143.3 | 148.6 | 139.9 | 115.5 | 98.2 | 82.4 | 75.5 |
| 85° | 88.2 | 89.4 | 91.1 | 91.7 | 77.8 | 54.5 | 37.1 | 41.7 |
| 87.5° | 34.9 | 40.1 | 43.4 | 45.3 | 42.4 | 26.1 | 20.9 | 21.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)