

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: P270007

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-5NQ-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8994.3 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 86
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

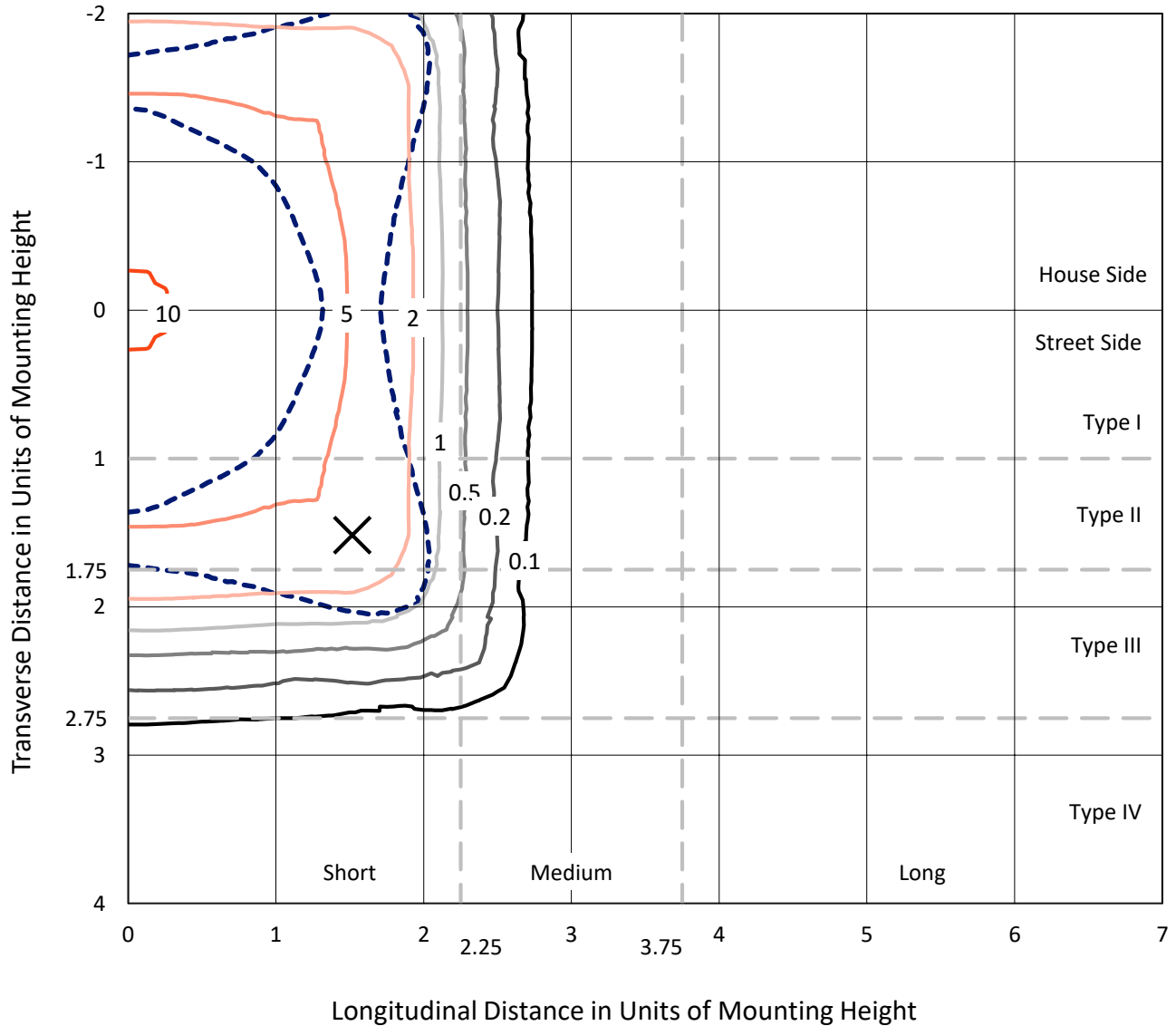


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Iso-Footcandle Lines of Horizontal Illumination

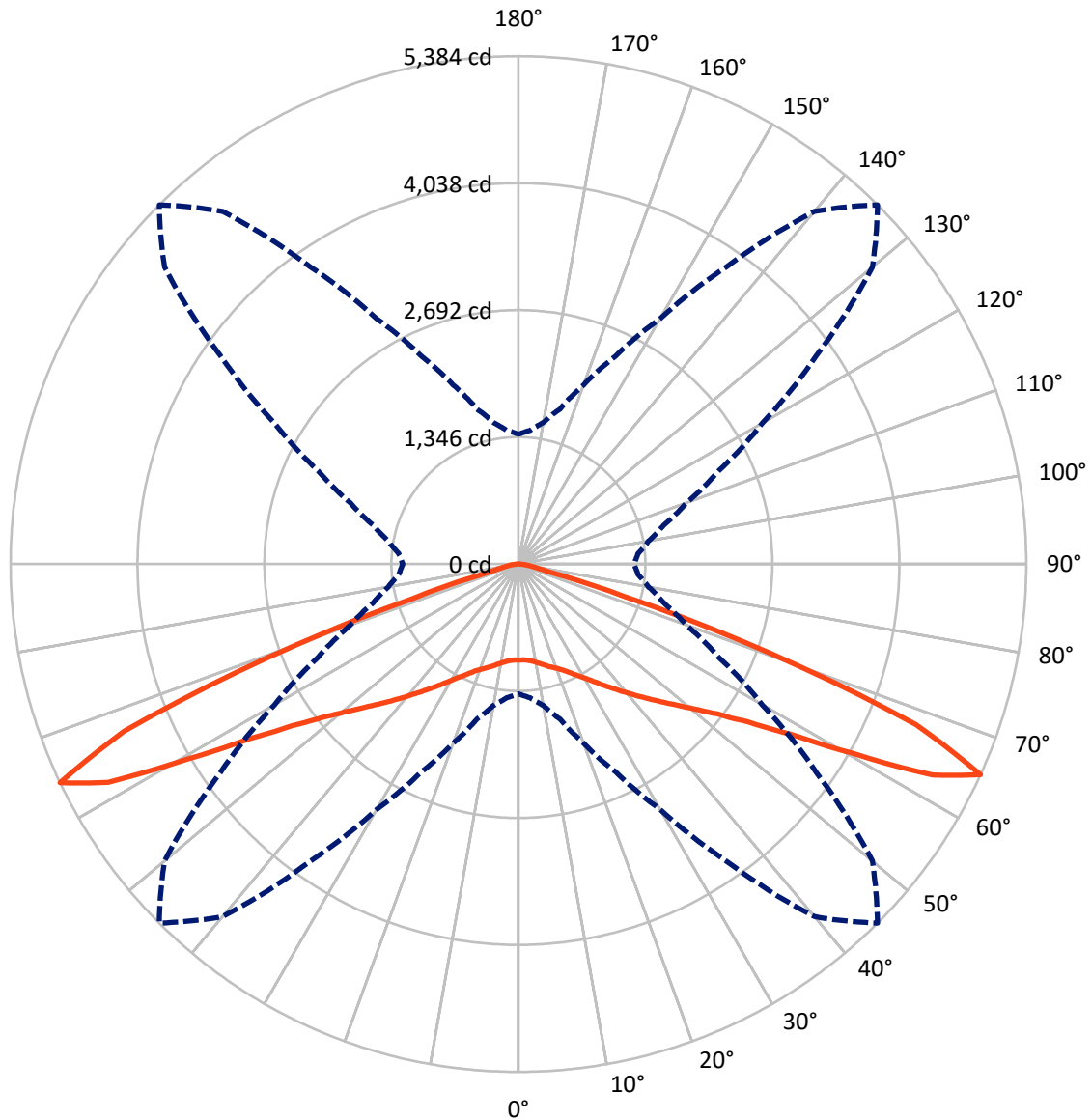
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4497.1 | 0.0 | 4497.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4497.1 | 0.0 | 4497.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8994.3 | 0.0 | 8994.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.2 | 1.1 |
| 10°-20° | 318.1 | 3.5 |
| 20°-30° | 594.8 | 6.6 |
| 30°-40° | 1006.0 | 11.2 |
| 40°-50° | 1645.0 | 18.3 |
| 50°-60° | 2615.8 | 29.1 |
| 60°-70° | 2364.5 | 26.3 |
| 70°-80° | 299.3 | 3.3 |
| 80°-90° | 51.5 | 0.6 |
| 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° | 8994.3 | 100.0 |
| 0°-180° | 8994.3 | 100.0 |



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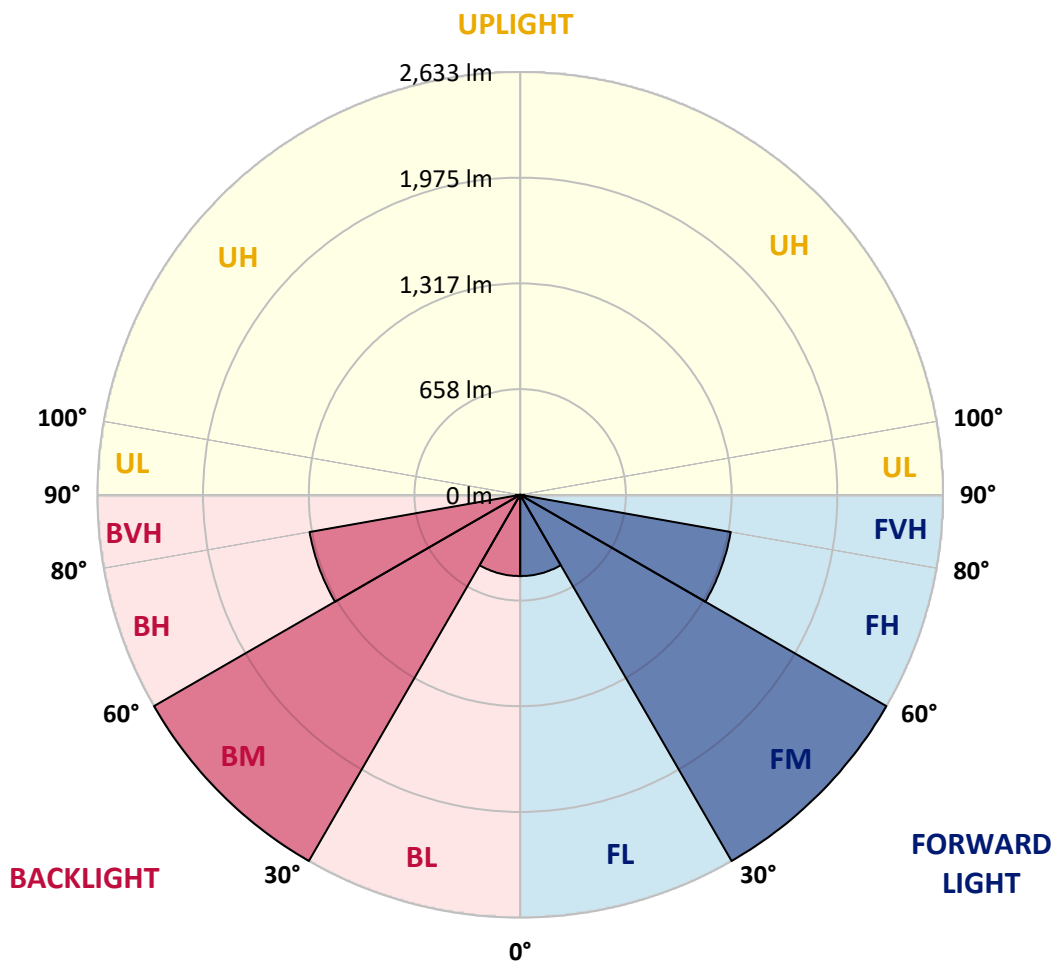
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 506.1 | 5.6 | | | |
| FM | (30°-60°) | 2633.4 | 29.3 | | | |
| FH | (60°-80°) | 1331.9 | 14.8 | | | G1/1800 |
| FVH | (80°-90°) | 25.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 506.1 | 5.6 | B2/1000 | | |
| BM | (30°-60°) | 2633.4 | 29.3 | B3/5000 | | |
| BH | (60°-80°) | 1331.9 | 14.8 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 25.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 |
| 2.5° | 1018.6 | 1019.3 | 1020.3 | 1019.3 | 1020.3 | 1018.9 | 1018.0 | 1019.3 | 1018.0 | 1016.9 | 1017.7 |
| 5° | 1027.4 | 1027.8 | 1027.8 | 1026.6 | 1027.8 | 1027.0 | 1025.8 | 1027.4 | 1026.1 | 1024.8 | 1025.8 |
| 7.5° | 1042.2 | 1043.8 | 1042.6 | 1041.2 | 1042.2 | 1041.2 | 1040.4 | 1040.9 | 1040.4 | 1039.2 | 1039.6 |
| 10° | 1061.9 | 1063.2 | 1062.3 | 1061.9 | 1062.8 | 1062.3 | 1061.4 | 1061.1 | 1061.4 | 1060.3 | 1060.3 |
| 12.5° | 1086.0 | 1085.5 | 1085.2 | 1085.5 | 1086.8 | 1086.8 | 1086.4 | 1086.8 | 1087.7 | 1088.0 | 1087.2 |
| 15° | 1109.5 | 1110.3 | 1110.3 | 1110.3 | 1112.9 | 1115.1 | 1116.2 | 1117.1 | 1118.7 | 1119.2 | 1117.5 |
| 17.5° | 1139.1 | 1139.1 | 1138.6 | 1139.1 | 1141.6 | 1144.9 | 1146.1 | 1147.9 | 1149.6 | 1150.8 | 1148.8 |
| 20° | 1171.8 | 1172.7 | 1172.7 | 1173.5 | 1176.9 | 1180.7 | 1180.7 | 1181.6 | 1180.7 | 1181.6 | 1180.4 |
| 22.5° | 1212.0 | 1214.4 | 1214.4 | 1214.9 | 1218.2 | 1222.9 | 1221.5 | 1222.9 | 1220.7 | 1222.5 | 1220.7 |
| 25° | 1264.2 | 1267.9 | 1267.1 | 1267.1 | 1269.7 | 1272.5 | 1273.0 | 1275.6 | 1275.1 | 1277.2 | 1276.0 |
| 27.5° | 1323.2 | 1329.0 | 1330.7 | 1330.3 | 1331.9 | 1334.9 | 1335.7 | 1338.7 | 1336.9 | 1338.7 | 1337.8 |
| 30° | 1393.9 | 1396.3 | 1399.7 | 1401.0 | 1403.2 | 1406.0 | 1406.0 | 1406.4 | 1404.4 | 1406.9 | 1408.3 |
| 32.5° | 1467.2 | 1471.9 | 1475.1 | 1482.7 | 1486.5 | 1488.6 | 1488.2 | 1489.1 | 1487.0 | 1490.4 | 1492.9 |
| 35° | 1564.0 | 1567.5 | 1572.9 | 1578.9 | 1583.8 | 1583.4 | 1582.2 | 1582.5 | 1582.5 | 1585.6 | 1588.1 |
| 37.5° | 1680.6 | 1681.5 | 1688.8 | 1697.2 | 1699.8 | 1697.2 | 1689.6 | 1687.8 | 1684.1 | 1687.8 | 1692.0 |
| 40° | 1804.2 | 1807.1 | 1821.5 | 1827.0 | 1828.2 | 1823.5 | 1812.6 | 1806.2 | 1797.9 | 1802.4 | 1808.4 |
| 42.5° | 1933.5 | 1939.4 | 1952.5 | 1962.1 | 1966.3 | 1963.3 | 1948.2 | 1938.5 | 1927.7 | 1930.1 | 1935.9 |
| 45° | 2076.7 | 2083.9 | 2102.5 | 2111.6 | 2119.7 | 2115.0 | 2100.2 | 2085.5 | 2068.3 | 2069.5 | 2078.8 |
| 47.5° | 2236.8 | 2244.0 | 2268.0 | 2283.5 | 2287.8 | 2286.8 | 2270.5 | 2250.3 | 2226.7 | 2225.8 | 2233.8 |
| 50° | 2416.3 | 2423.4 | 2453.4 | 2477.3 | 2489.6 | 2488.2 | 2468.9 | 2440.2 | 2411.6 | 2411.9 | 2422.1 |
| 52.5° | 2591.4 | 2600.4 | 2631.4 | 2672.7 | 2696.7 | 2714.0 | 2702.2 | 2675.3 | 2640.3 | 2641.1 | 2650.4 |
| 55° | 2755.7 | 2770.6 | 2806.2 | 2862.3 | 2906.9 | 2955.5 | 2969.3 | 2968.4 | 2947.3 | 2953.3 | 2962.6 |
| 57.5° | 2835.3 | 2857.2 | 2912.5 | 3000.9 | 3091.8 | 3190.4 | 3273.9 | 3336.1 | 3362.7 | 3402.8 | 3393.4 |
| 60° | 2684.6 | 2719.4 | 2800.8 | 2931.0 | 3110.8 | 3316.5 | 3536.6 | 3752.0 | 3935.7 | 4074.3 | 3994.7 |
| 62.5° | 2198.1 | 2243.4 | 2342.2 | 2508.8 | 2781.1 | 3110.0 | 3531.6 | 4040.4 | 4594.9 | 4929.3 | 4690.5 |
| 65° | 1375.3 | 1422.6 | 1522.7 | 1701.4 | 2019.7 | 2428.8 | 3000.9 | 3844.1 | 4880.0 | 5384.3 | 4898.2 |
| 67.5° | 536.3 | 561.9 | 616.2 | 730.4 | 969.7 | 1333.7 | 1907.8 | 2864.9 | 4103.6 | 4545.6 | 4027.5 |
| 70° | 268.8 | 271.3 | 281.3 | 302.5 | 353.8 | 459.6 | 699.2 | 1328.1 | 2353.5 | 2842.4 | 2268.8 |
| 72.5° | 194.3 | 194.7 | 199.7 | 208.9 | 225.4 | 248.9 | 294.5 | 406.6 | 765.4 | 1169.8 | 717.3 |
| 75° | 148.7 | 150.3 | 153.3 | 158.5 | 167.3 | 179.0 | 195.4 | 234.2 | 290.2 | 336.5 | 283.1 |
| 77.5° | 114.5 | 117.9 | 120.1 | 124.7 | 130.2 | 138.2 | 142.8 | 157.6 | 183.3 | 193.0 | 190.0 |
| 80° | 87.1 | 90.1 | 94.9 | 98.5 | 102.3 | 106.2 | 104.5 | 111.2 | 124.7 | 132.7 | 128.5 |
| 82.5° | 55.7 | 59.0 | 72.5 | 75.8 | 77.6 | 79.9 | 77.1 | 77.6 | 83.5 | 88.5 | 83.5 |
| 85° | 35.8 | 37.9 | 46.0 | 50.1 | 50.6 | 52.2 | 50.9 | 48.0 | 48.0 | 43.7 | 49.2 |
| 87.5° | 16.3 | 16.9 | 20.7 | 24.4 | 25.3 | 22.7 | 22.3 | 21.5 | 17.2 | 16.3 | 17.6 |
| 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° | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 | 1017.7 |
| 2.5° | 1017.3 | 1018.0 | 1018.6 | 1019.8 | 1020.3 | 1020.3 | 1020.7 | 1021.6 |
| 5° | 1025.2 | 1026.6 | 1027.0 | 1028.6 | 1029.1 | 1028.6 | 1029.5 | 1029.9 |
| 7.5° | 1039.6 | 1041.8 | 1042.6 | 1044.3 | 1043.0 | 1044.6 | 1045.1 | 1045.1 |
| 10° | 1060.7 | 1062.8 | 1063.2 | 1064.9 | 1064.0 | 1064.9 | 1064.9 | 1064.0 |
| 12.5° | 1088.4 | 1088.8 | 1087.7 | 1088.8 | 1087.2 | 1088.0 | 1086.8 | 1086.0 |
| 15° | 1119.2 | 1118.0 | 1115.1 | 1115.1 | 1112.6 | 1112.9 | 1112.6 | 1112.0 |
| 17.5° | 1149.1 | 1146.5 | 1144.5 | 1143.6 | 1141.6 | 1141.1 | 1139.9 | 1139.9 |
| 20° | 1182.0 | 1180.7 | 1179.5 | 1177.8 | 1175.7 | 1173.5 | 1173.1 | 1173.9 |
| 22.5° | 1221.5 | 1221.2 | 1221.2 | 1220.3 | 1217.4 | 1215.2 | 1214.0 | 1214.0 |
| 25° | 1274.7 | 1270.9 | 1270.9 | 1270.5 | 1269.1 | 1267.9 | 1265.4 | 1266.7 |
| 27.5° | 1334.5 | 1332.4 | 1334.1 | 1333.7 | 1332.4 | 1332.4 | 1330.7 | 1330.7 |
| 30° | 1408.3 | 1407.4 | 1409.9 | 1407.7 | 1403.5 | 1403.2 | 1401.4 | 1399.4 |
| 32.5° | 1493.3 | 1492.4 | 1496.2 | 1493.7 | 1487.0 | 1483.2 | 1479.8 | 1478.2 |
| 35° | 1588.1 | 1588.6 | 1593.1 | 1591.4 | 1583.8 | 1581.3 | 1575.4 | 1574.5 |
| 37.5° | 1691.7 | 1698.4 | 1706.4 | 1708.0 | 1701.7 | 1700.1 | 1693.8 | 1690.4 |
| 40° | 1813.4 | 1822.3 | 1834.5 | 1837.5 | 1830.7 | 1829.5 | 1820.5 | 1816.0 |
| 42.5° | 1943.2 | 1958.3 | 1973.4 | 1976.0 | 1969.3 | 1962.5 | 1954.2 | 1950.8 |
| 45° | 2088.1 | 2106.2 | 2126.0 | 2131.0 | 2120.9 | 2113.0 | 2101.9 | 2101.9 |
| 47.5° | 2250.7 | 2273.4 | 2295.8 | 2309.6 | 2300.4 | 2291.9 | 2278.9 | 2270.5 |
| 50° | 2442.8 | 2473.9 | 2502.9 | 2517.3 | 2502.6 | 2486.6 | 2463.8 | 2456.2 |
| 52.5° | 2683.6 | 2717.5 | 2742.6 | 2735.1 | 2712.3 | 2690.1 | 2665.2 | 2655.1 |
| 55° | 2991.1 | 3002.6 | 3002.6 | 2973.8 | 2928.5 | 2890.9 | 2851.8 | 2838.7 |
| 57.5° | 3375.8 | 3332.1 | 3264.6 | 3179.1 | 3071.7 | 2978.2 | 2915.0 | 2885.0 |
| 60° | 3827.8 | 3617.1 | 3379.2 | 3145.3 | 2953.3 | 2794.8 | 2700.9 | 2658.1 |
| 62.5° | 4129.0 | 3577.9 | 3101.2 | 2725.8 | 2449.5 | 2258.7 | 2129.0 | 2078.4 |
| 65° | 3858.9 | 2984.0 | 2345.5 | 1896.4 | 1595.2 | 1401.0 | 1272.5 | 1225.4 |
| 67.5° | 2826.4 | 1869.9 | 1249.0 | 895.2 | 655.9 | 523.2 | 470.5 | 448.7 |
| 70° | 1268.8 | 658.4 | 403.6 | 315.0 | 271.6 | 249.4 | 239.7 | 236.3 |
| 72.5° | 382.5 | 276.8 | 233.4 | 210.7 | 193.3 | 182.4 | 174.5 | 173.6 |
| 75° | 230.9 | 192.1 | 170.6 | 157.2 | 146.2 | 137.4 | 133.0 | 131.8 |
| 77.5° | 161.3 | 141.2 | 131.1 | 121.4 | 112.8 | 106.2 | 102.3 | 99.4 |
| 80° | 113.4 | 103.7 | 99.1 | 93.6 | 88.0 | 81.7 | 76.3 | 73.8 |
| 82.5° | 75.8 | 73.8 | 73.8 | 70.3 | 65.8 | 59.7 | 48.9 | 46.4 |
| 85° | 48.9 | 48.5 | 49.2 | 48.0 | 44.6 | 38.4 | 31.6 | 30.0 |
| 87.5° | 22.7 | 23.1 | 25.7 | 25.3 | 24.4 | 20.2 | 16.0 | 15.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)