

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: P200083

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-AFL-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3506.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

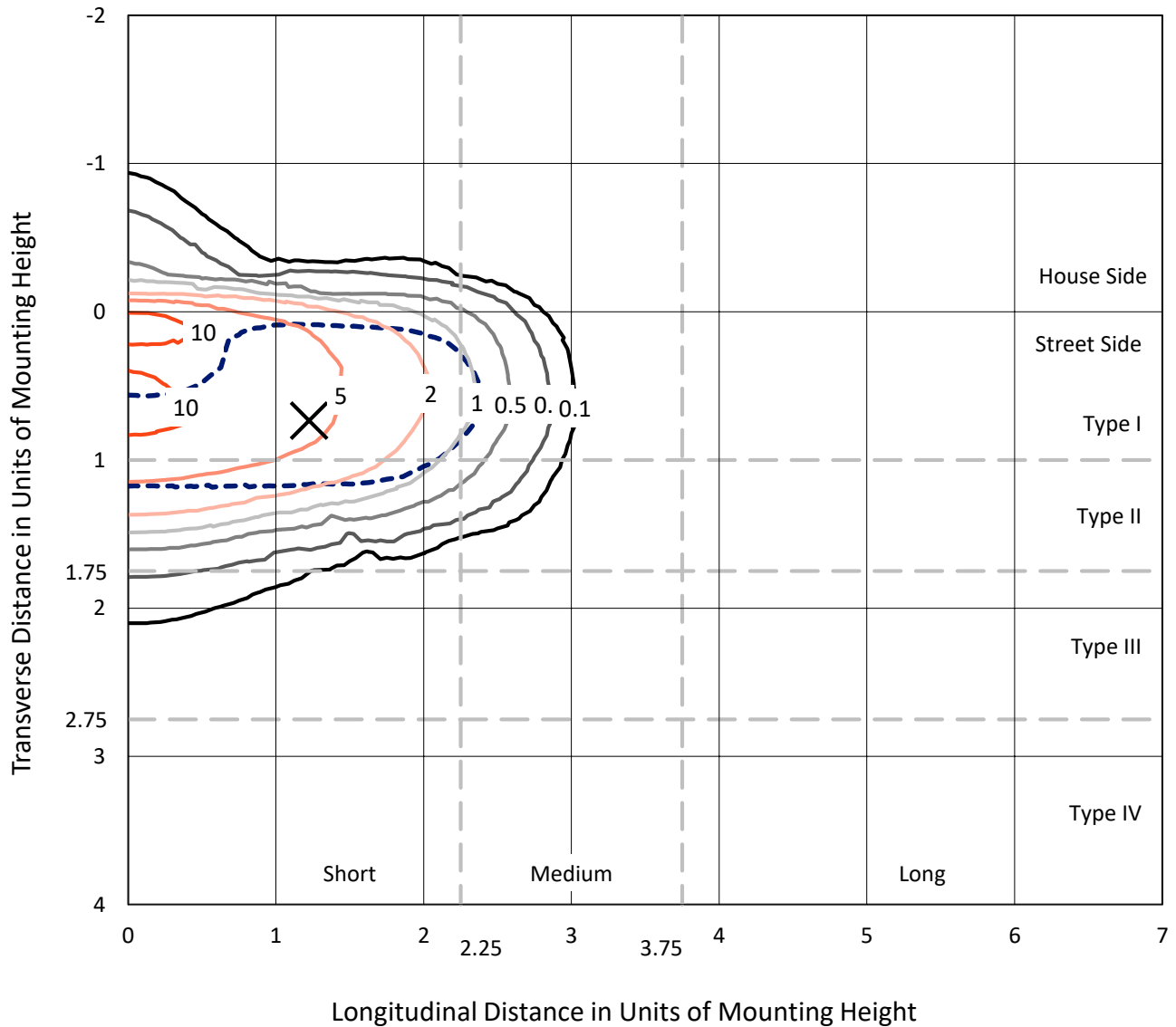
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

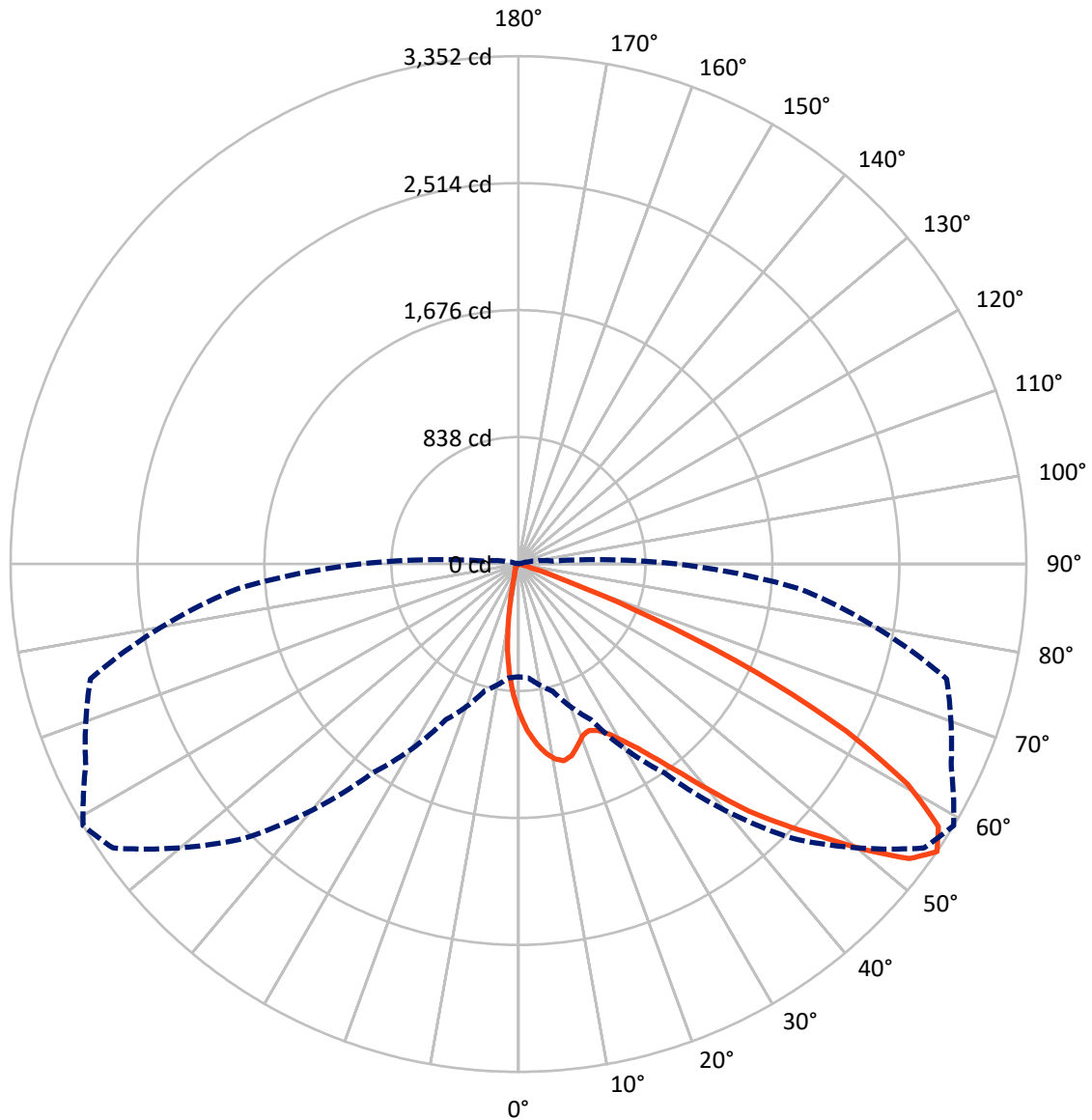
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 195.9 | 0.0 | 195.9 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 3310.8 | 0.0 | 3310.8 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 3506.7 | 0.0 | 3506.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.7 | 2.4 |
| 10°-20° | 198.0 | 5.6 |
| 20°-30° | 336.9 | 9.6 |
| 30°-40° | 579.3 | 16.5 |
| 40°-50° | 894.4 | 25.5 |
| 50°-60° | 899.2 | 25.6 |
| 60°-70° | 461.1 | 13.1 |
| 70°-80° | 50.0 | 1.4 |
| 80°-90° | 5.2 | 0.1 |
| 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° | 3506.7 | 100.0 |
| 0°-180° | 3506.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P200083

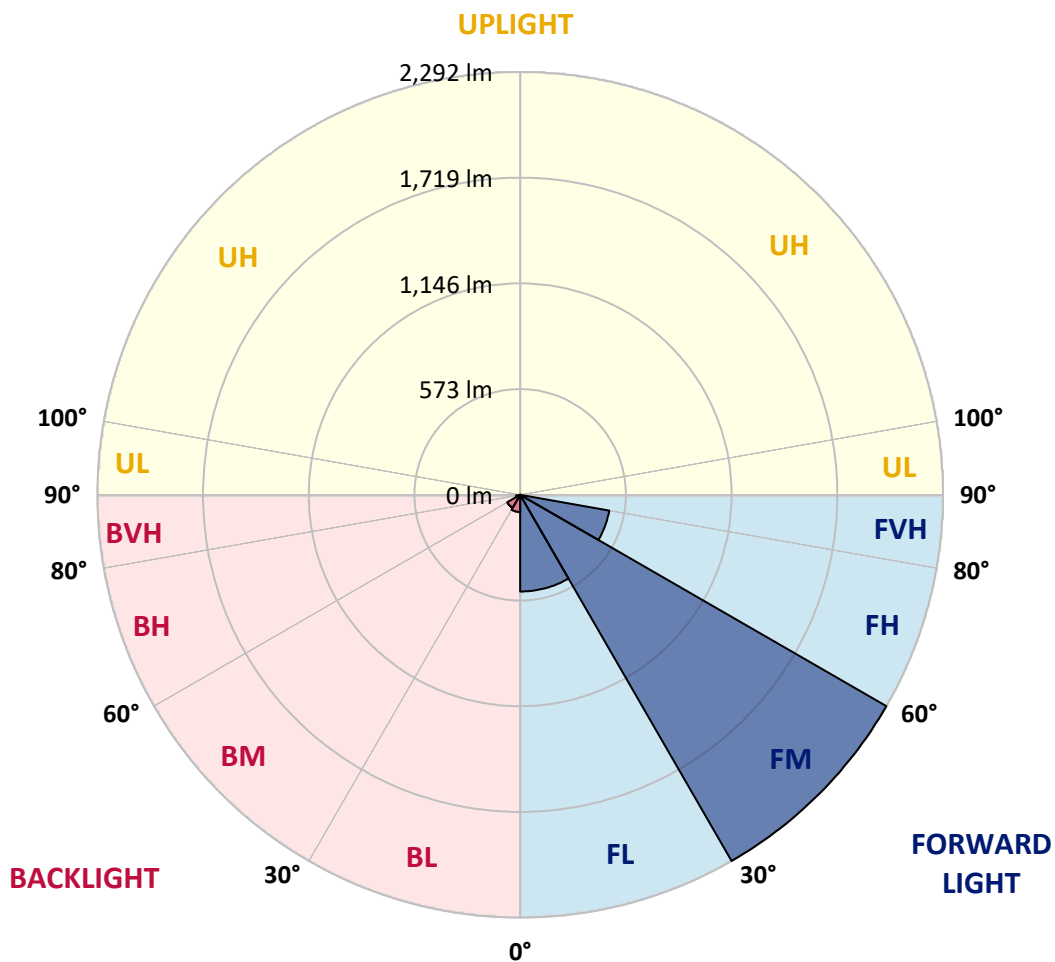
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 524.0 | 14.9 | | | |
| FM | (30°-60°) | 2291.6 | 65.3 | | | |
| FH | (60°-80°) | 490.1 | 14.0 | | | G0/660 |
| FVH | (80°-90°) | 5.1 | 0.1 | | | G0/10 |
| BL | (0°-30°) | 93.5 | 2.7 | B0/110 | | |
| BM | (30°-60°) | 81.3 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 21.0 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 |
| 2.5° | 1168.0 | 1155.5 | 1151.8 | 1149.4 | 1137.9 | 1123.7 | 1104.3 | 1095.2 | 1076.6 | 1046.5 | 1009.7 |
| 5° | 1275.0 | 1272.7 | 1264.5 | 1259.9 | 1247.7 | 1227.3 | 1196.3 | 1181.4 | 1151.8 | 1101.3 | 1035.3 |
| 7.5° | 1228.2 | 1242.5 | 1253.8 | 1272.9 | 1296.9 | 1296.1 | 1270.0 | 1254.4 | 1221.4 | 1154.7 | 1063.9 |
| 10° | 1047.5 | 1059.2 | 1077.8 | 1121.1 | 1209.1 | 1287.0 | 1317.6 | 1306.4 | 1279.9 | 1203.8 | 1091.4 |
| 12.5° | 1012.1 | 1010.9 | 1014.3 | 1026.8 | 1073.0 | 1184.0 | 1309.6 | 1332.1 | 1326.7 | 1248.7 | 1117.5 |
| 15° | 1031.0 | 1029.5 | 1029.1 | 1033.5 | 1044.6 | 1091.4 | 1248.9 | 1313.7 | 1355.3 | 1290.2 | 1139.7 |
| 17.5° | 1083.7 | 1077.6 | 1074.2 | 1070.7 | 1067.4 | 1079.0 | 1176.1 | 1262.1 | 1359.6 | 1326.7 | 1158.1 |
| 20° | 1174.1 | 1163.8 | 1151.6 | 1131.8 | 1113.2 | 1107.3 | 1145.4 | 1209.1 | 1344.1 | 1354.5 | 1170.1 |
| 22.5° | 1287.8 | 1274.6 | 1253.4 | 1217.2 | 1179.4 | 1157.5 | 1160.5 | 1192.5 | 1320.9 | 1384.7 | 1175.7 |
| 25° | 1415.5 | 1398.5 | 1370.3 | 1320.1 | 1264.5 | 1225.5 | 1205.2 | 1216.4 | 1310.4 | 1420.1 | 1182.0 |
| 27.5° | 1552.3 | 1533.4 | 1496.6 | 1428.1 | 1365.0 | 1312.4 | 1271.0 | 1269.6 | 1328.4 | 1466.4 | 1192.5 |
| 30° | 1687.9 | 1684.9 | 1636.9 | 1564.5 | 1480.9 | 1416.9 | 1357.4 | 1349.7 | 1378.6 | 1530.5 | 1212.9 |
| 32.5° | 1868.7 | 1846.9 | 1788.2 | 1713.6 | 1617.3 | 1540.5 | 1469.9 | 1452.1 | 1455.9 | 1605.2 | 1244.5 |
| 35° | 2096.7 | 2072.9 | 1990.2 | 1887.3 | 1779.5 | 1688.9 | 1610.8 | 1586.6 | 1577.5 | 1727.6 | 1297.9 |
| 37.5° | 2244.0 | 2243.6 | 2191.8 | 2087.0 | 1971.3 | 1871.4 | 1786.6 | 1758.1 | 1739.7 | 1875.3 | 1380.7 |
| 40° | 2248.0 | 2257.8 | 2264.6 | 2263.6 | 2181.1 | 2089.1 | 2013.8 | 1978.8 | 1935.9 | 2072.7 | 1487.7 |
| 42.5° | 2127.3 | 2152.4 | 2212.6 | 2314.8 | 2363.7 | 2327.1 | 2263.6 | 2229.2 | 2165.5 | 2284.0 | 1618.1 |
| 45° | 1964.3 | 1981.7 | 2087.0 | 2275.3 | 2462.7 | 2563.0 | 2514.5 | 2453.1 | 2369.1 | 2504.4 | 1735.0 |
| 47.5° | 1891.2 | 1894.4 | 1962.4 | 2169.2 | 2470.0 | 2756.2 | 2785.7 | 2685.7 | 2554.1 | 2682.0 | 1826.5 |
| 50° | 1672.9 | 1678.6 | 1772.5 | 1985.2 | 2382.8 | 2847.5 | 3058.0 | 2963.2 | 2755.8 | 2818.7 | 1859.8 |
| 52.5° | 1260.9 | 1268.8 | 1387.9 | 1682.9 | 2142.7 | 2808.6 | 3252.9 | 3230.0 | 2976.9 | 2885.6 | 1861.7 |
| 55° | 744.0 | 754.3 | 868.1 | 1132.8 | 1685.3 | 2561.2 | 3267.4 | 3351.8 | 3151.3 | 2925.1 | 1858.8 |
| 57.5° | 347.5 | 354.7 | 419.9 | 583.6 | 1048.1 | 2024.1 | 3049.3 | 3268.2 | 3247.6 | 2946.0 | 1879.3 |
| 60° | 184.6 | 186.7 | 202.3 | 252.7 | 473.7 | 1283.5 | 2623.7 | 2951.2 | 3159.8 | 2975.0 | 1904.3 |
| 62.5° | 141.2 | 141.8 | 141.0 | 146.9 | 199.1 | 569.7 | 1983.1 | 2426.2 | 2806.6 | 2953.3 | 1876.6 |
| 65° | 122.3 | 123.4 | 117.5 | 116.1 | 127.7 | 203.3 | 1178.1 | 1729.4 | 2205.4 | 2660.1 | 1687.7 |
| 67.5° | 109.7 | 110.1 | 103.0 | 97.1 | 99.1 | 109.9 | 464.8 | 946.7 | 1459.8 | 1949.8 | 1223.2 |
| 70° | 101.0 | 100.6 | 92.9 | 83.4 | 80.7 | 75.1 | 147.7 | 347.1 | 697.7 | 988.8 | 568.9 |
| 72.5° | 89.4 | 89.6 | 85.9 | 73.4 | 67.0 | 52.6 | 68.5 | 101.2 | 208.2 | 269.4 | 133.3 |
| 75° | 79.3 | 78.3 | 73.7 | 65.8 | 55.2 | 34.6 | 34.0 | 45.1 | 64.1 | 63.7 | 28.7 |
| 77.5° | 57.3 | 56.3 | 57.7 | 54.0 | 42.5 | 22.3 | 17.0 | 21.7 | 26.1 | 25.3 | 8.1 |
| 80° | 42.0 | 41.4 | 37.2 | 44.9 | 37.4 | 15.3 | 10.5 | 11.6 | 13.4 | 11.4 | 2.5 |
| 82.5° | 28.7 | 28.5 | 26.3 | 24.9 | 21.3 | 9.3 | 6.6 | 7.3 | 8.7 | 6.4 | 1.2 |
| 85° | 4.6 | 5.2 | 19.0 | 15.1 | 12.6 | 4.1 | 4.6 | 5.0 | 5.8 | 3.5 | 0.4 |
| 87.5° | 0.0 | 0.0 | 8.9 | 7.9 | 2.5 | 1.6 | 2.7 | 2.9 | 2.9 | 1.8 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 | 987.1 |
| 2.5° | 990.8 | 970.2 | 931.9 | 892.3 | 855.7 | 812.0 | 782.0 | 759.4 | 733.5 | 726.4 | 741.6 |
| 5° | 997.7 | 958.6 | 876.2 | 786.5 | 702.4 | 609.1 | 537.7 | 481.1 | 430.0 | 412.7 | 428.4 |
| 7.5° | 1008.4 | 950.3 | 816.0 | 668.4 | 521.9 | 376.2 | 276.5 | 210.8 | 169.1 | 156.6 | 163.3 |
| 10° | 1019.2 | 938.3 | 746.2 | 528.6 | 328.2 | 183.1 | 119.2 | 95.2 | 86.3 | 84.4 | 85.4 |
| 12.5° | 1028.1 | 922.1 | 661.1 | 375.8 | 175.5 | 98.1 | 78.1 | 74.1 | 72.8 | 72.8 | 73.2 |
| 15° | 1033.5 | 897.7 | 560.4 | 239.1 | 101.0 | 74.1 | 68.1 | 66.8 | 66.8 | 67.0 | 67.4 |
| 17.5° | 1032.9 | 866.6 | 450.1 | 144.6 | 75.5 | 65.6 | 62.1 | 61.1 | 60.9 | 61.3 | 61.5 |
| 20° | 1025.2 | 826.1 | 339.4 | 95.4 | 65.8 | 59.8 | 56.3 | 54.4 | 54.2 | 54.6 | 55.0 |
| 22.5° | 1010.7 | 776.0 | 242.7 | 73.4 | 59.4 | 54.2 | 49.9 | 48.2 | 48.2 | 48.6 | 49.0 |
| 25° | 993.1 | 714.7 | 165.9 | 62.3 | 53.6 | 48.2 | 44.1 | 42.7 | 43.1 | 44.1 | 44.3 |
| 27.5° | 971.2 | 645.9 | 112.8 | 53.4 | 46.5 | 42.2 | 39.1 | 38.1 | 39.1 | 40.6 | 41.0 |
| 30° | 952.4 | 574.1 | 80.5 | 46.1 | 39.5 | 36.4 | 34.6 | 34.6 | 36.0 | 38.7 | 39.3 |
| 32.5° | 937.8 | 504.5 | 62.1 | 40.8 | 34.4 | 31.7 | 30.6 | 31.7 | 34.0 | 36.6 | 37.2 |
| 35° | 936.0 | 447.2 | 52.6 | 36.4 | 30.6 | 27.9 | 27.5 | 29.4 | 31.7 | 33.8 | 34.2 |
| 37.5° | 950.3 | 394.2 | 47.4 | 32.9 | 27.3 | 24.9 | 24.4 | 26.7 | 28.9 | 31.4 | 32.1 |
| 40° | 977.4 | 352.6 | 43.7 | 29.6 | 24.7 | 21.9 | 21.1 | 22.8 | 25.9 | 29.2 | 30.0 |
| 42.5° | 1012.6 | 318.2 | 39.5 | 26.3 | 21.9 | 18.2 | 17.2 | 19.0 | 22.3 | 25.9 | 26.9 |
| 45° | 1046.1 | 288.7 | 35.0 | 22.6 | 18.4 | 14.1 | 13.7 | 16.2 | 17.8 | 21.3 | 22.1 |
| 47.5° | 1064.5 | 262.6 | 31.0 | 18.4 | 14.3 | 11.4 | 11.4 | 12.0 | 13.7 | 17.8 | 18.6 |
| 50° | 1058.3 | 241.7 | 26.9 | 13.7 | 9.9 | 8.7 | 8.7 | 8.5 | 10.9 | 14.3 | 14.9 |
| 52.5° | 1045.9 | 229.8 | 23.2 | 10.5 | 6.9 | 6.2 | 5.6 | 6.2 | 7.7 | 9.1 | 9.3 |
| 55° | 1044.0 | 227.6 | 19.4 | 8.5 | 4.8 | 4.1 | 3.1 | 3.1 | 3.1 | 2.9 | 2.5 |
| 57.5° | 1058.5 | 231.0 | 16.4 | 6.9 | 3.5 | 2.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1073.4 | 234.5 | 14.1 | 4.8 | 2.5 | 1.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1048.6 | 226.6 | 11.8 | 2.9 | 1.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 921.1 | 192.8 | 9.3 | 2.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 655.2 | 129.1 | 6.2 | 1.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 299.0 | 54.0 | 3.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 63.9 | 16.8 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 13.0 | 12.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.1 | 19.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 2.5 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.4 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)