

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: P200460

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7060-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6642 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

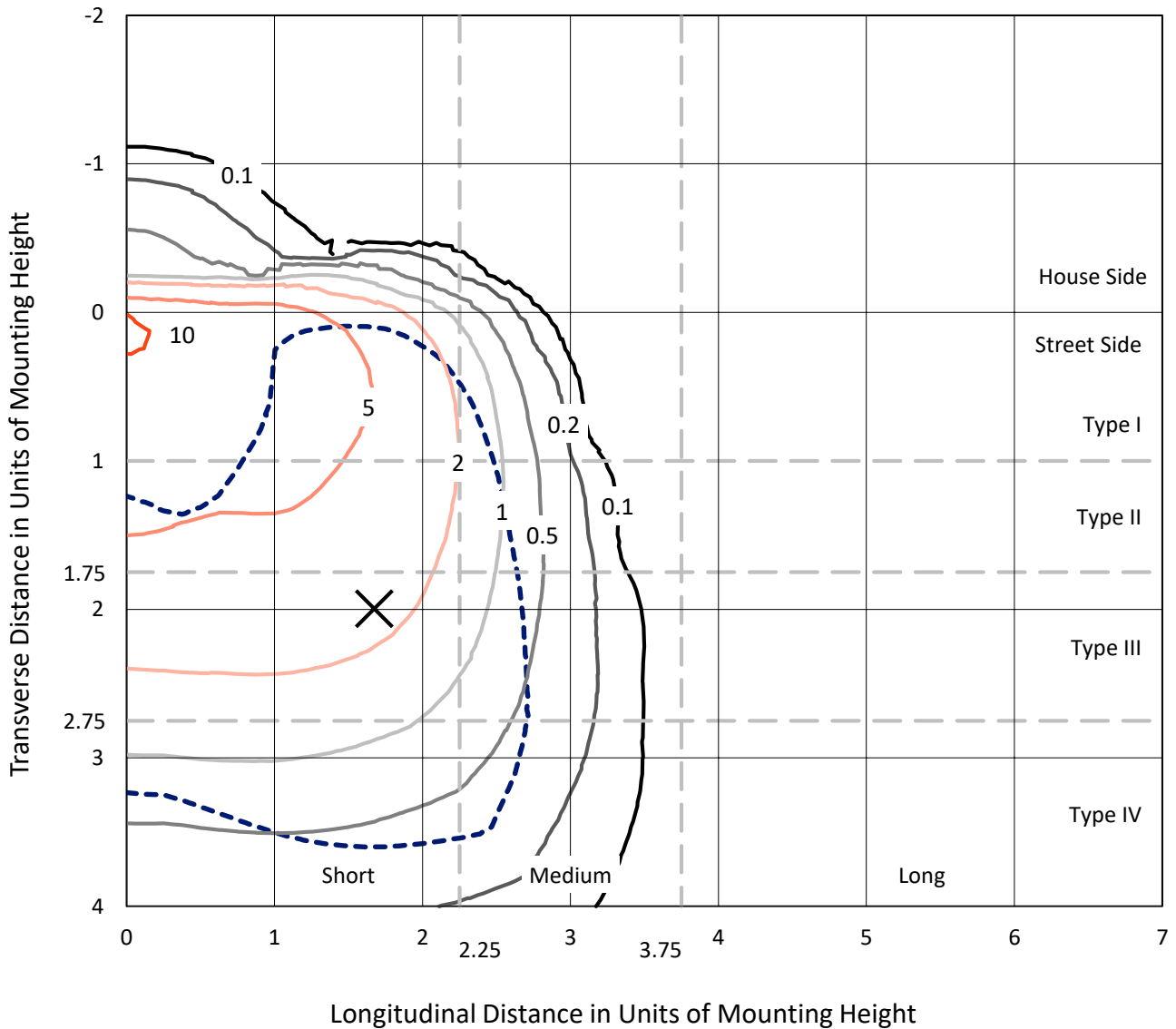


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

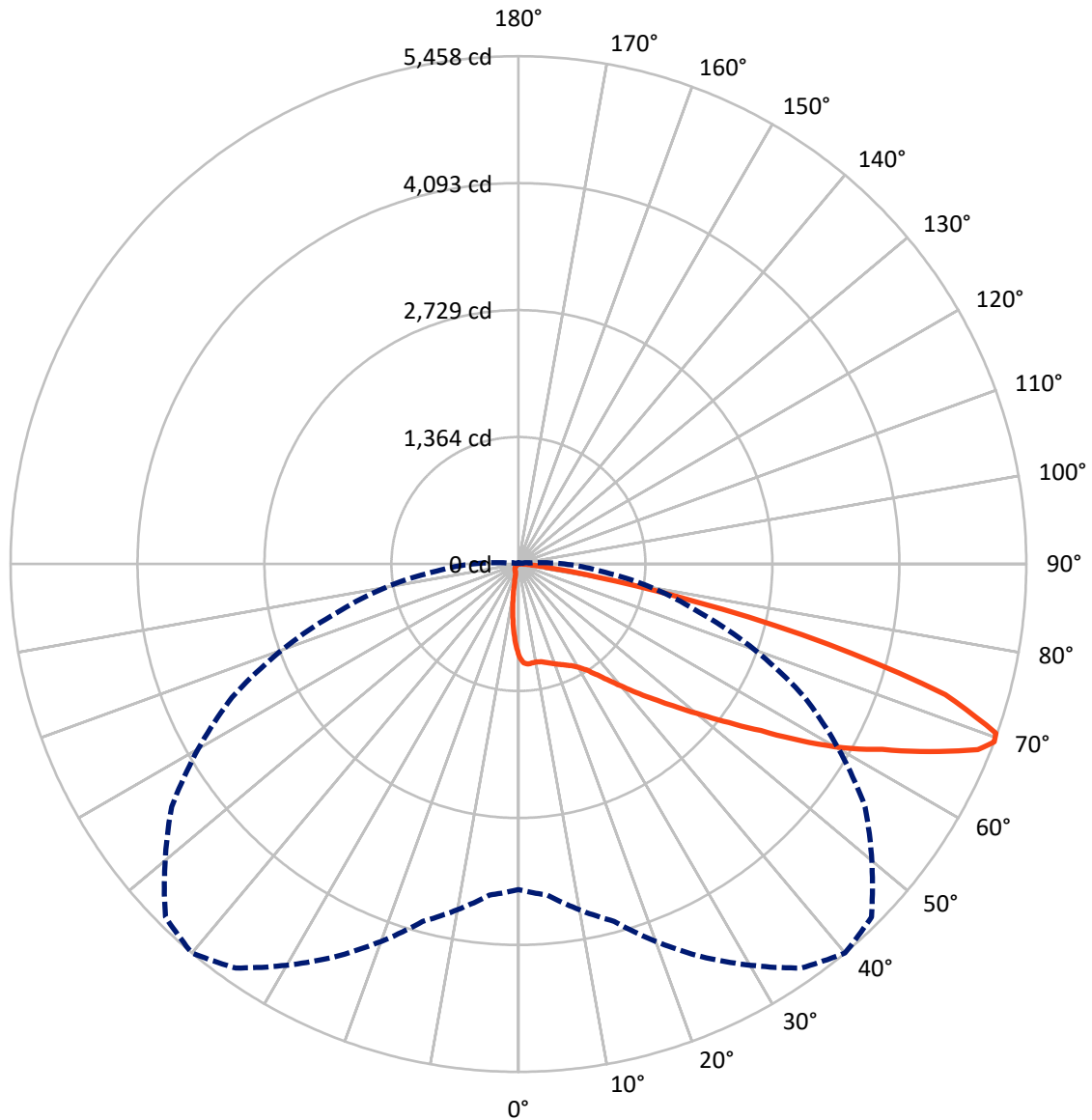


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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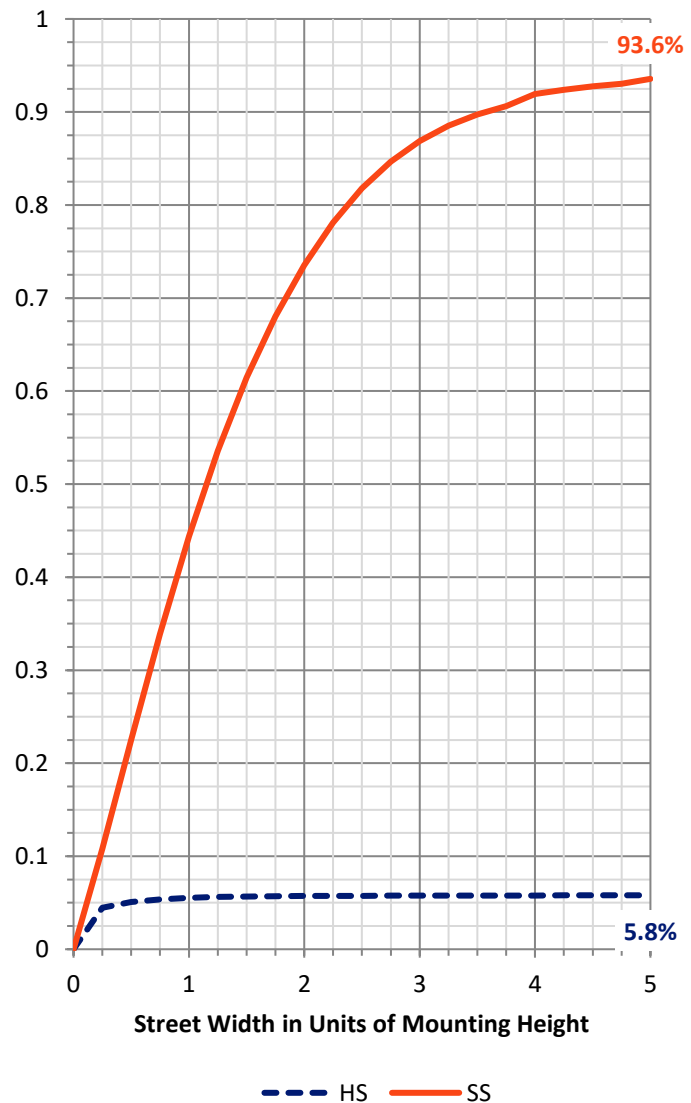
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 388.6 | 0.0 | 388.6 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 6253.4 | 0.0 | 6253.4 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 6642.0 | 0.0 | 6642.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.5 | 1.2 |
| 10°-20° | 197.9 | 3.0 |
| 20°-30° | 333.3 | 5.0 |
| 30°-40° | 545.6 | 8.2 |
| 40°-50° | 944.7 | 14.2 |
| 50°-60° | 1487.9 | 22.4 |
| 60°-70° | 1943.2 | 29.3 |
| 70°-80° | 1000.8 | 15.1 |
| 80°-90° | 108.2 | 1.6 |
| 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° | 6642.0 | 100.0 |
| 0°-180° | 6642.0 | 100.0 |



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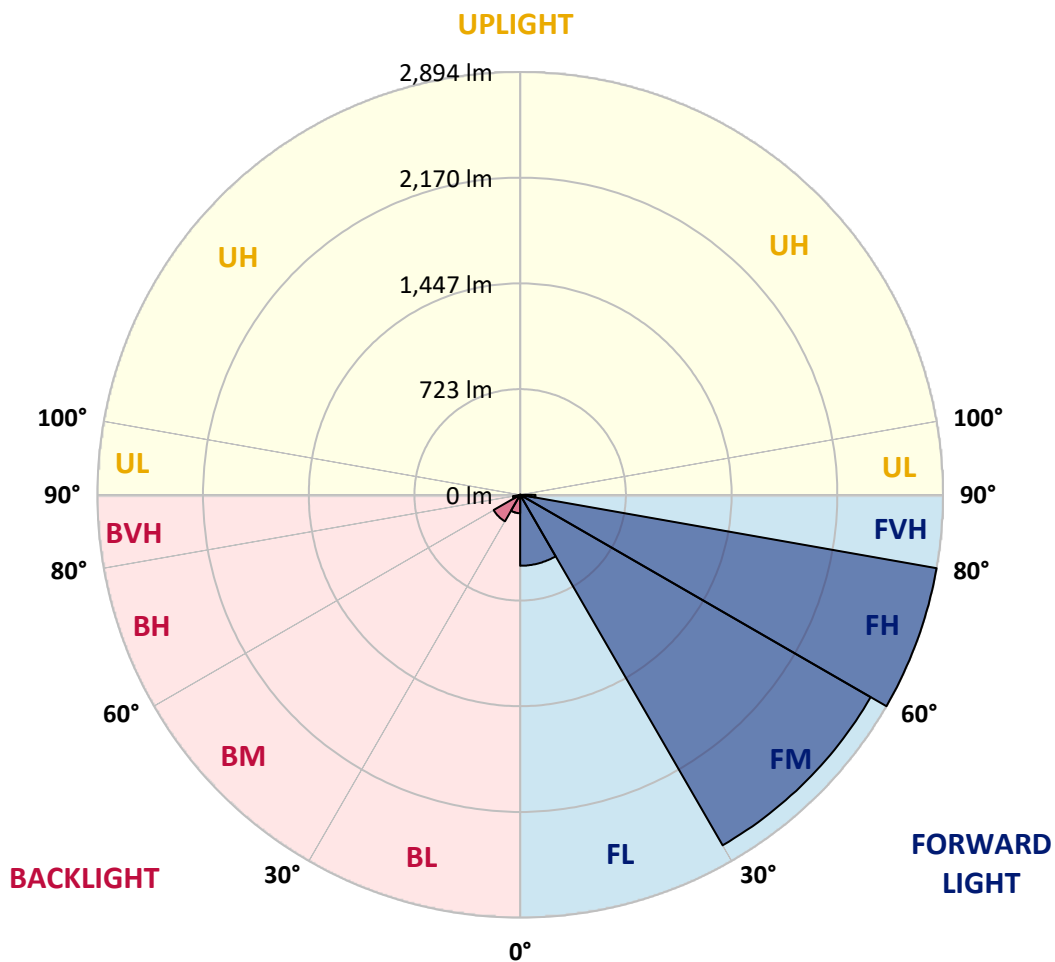
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 485.7 | 7.3 | | | |
| FM | (30°-60°) | 2769.3 | 41.7 | | | |
| FH | (60°-80°) | 2893.5 | 43.6 | | | G2/5000 |
| FVH | (80°-90°) | 104.9 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 125.9 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 208.9 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 50.5 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 |
| 2.5° | 1089.6 | 1083.7 | 1080.1 | 1075.4 | 1069.4 | 1064.3 | 1062.3 | 1047.7 | 1033.9 | 1014.9 | 993.1 |
| 5° | 1109.8 | 1107.8 | 1101.5 | 1095.1 | 1088.0 | 1080.1 | 1075.8 | 1058.4 | 1038.6 | 1010.9 | 973.0 |
| 7.5° | 1111.7 | 1109.4 | 1101.5 | 1092.8 | 1082.9 | 1073.4 | 1065.9 | 1048.5 | 1030.3 | 1002.2 | 956.0 |
| 10° | 1108.6 | 1105.8 | 1099.9 | 1090.4 | 1078.1 | 1069.0 | 1061.5 | 1044.9 | 1029.5 | 1004.2 | 952.8 |
| 12.5° | 1105.0 | 1102.3 | 1099.5 | 1094.7 | 1084.1 | 1077.7 | 1071.4 | 1055.6 | 1041.8 | 1020.4 | 964.3 |
| 15° | 1108.6 | 1107.0 | 1110.2 | 1108.2 | 1102.3 | 1096.7 | 1090.4 | 1076.2 | 1063.5 | 1045.7 | 985.2 |
| 17.5° | 1123.6 | 1123.6 | 1133.5 | 1134.7 | 1129.1 | 1121.2 | 1112.1 | 1097.9 | 1087.2 | 1072.2 | 1010.1 |
| 20° | 1158.8 | 1157.6 | 1170.3 | 1172.6 | 1159.2 | 1146.9 | 1133.5 | 1116.1 | 1107.8 | 1098.3 | 1034.7 |
| 22.5° | 1219.3 | 1213.7 | 1221.3 | 1218.9 | 1192.4 | 1173.4 | 1156.8 | 1135.5 | 1131.1 | 1126.8 | 1061.9 |
| 25° | 1298.0 | 1294.8 | 1299.9 | 1276.6 | 1230.0 | 1204.3 | 1184.5 | 1160.4 | 1160.4 | 1164.7 | 1092.8 |
| 27.5° | 1412.2 | 1400.4 | 1383.0 | 1341.8 | 1271.9 | 1239.1 | 1217.7 | 1192.0 | 1198.7 | 1214.9 | 1133.5 |
| 30° | 1529.2 | 1516.2 | 1476.3 | 1413.0 | 1322.9 | 1288.5 | 1263.6 | 1236.7 | 1252.5 | 1282.1 | 1188.1 |
| 32.5° | 1644.7 | 1630.1 | 1573.5 | 1493.7 | 1396.0 | 1361.6 | 1337.5 | 1307.8 | 1334.3 | 1384.1 | 1267.9 |
| 35° | 1756.6 | 1743.5 | 1678.3 | 1584.2 | 1493.3 | 1464.8 | 1442.7 | 1417.0 | 1451.0 | 1520.5 | 1380.6 |
| 37.5° | 1882.3 | 1868.1 | 1788.6 | 1686.6 | 1611.5 | 1590.9 | 1574.7 | 1549.0 | 1608.3 | 1710.3 | 1537.5 |
| 40° | 2036.9 | 2012.8 | 1905.6 | 1804.0 | 1748.3 | 1738.4 | 1727.3 | 1723.8 | 1815.9 | 1957.0 | 1746.7 |
| 42.5° | 2214.0 | 2174.5 | 2028.2 | 1927.8 | 1898.5 | 1905.6 | 1902.9 | 1918.7 | 2075.6 | 2263.8 | 2001.3 |
| 45° | 2391.1 | 2340.1 | 2164.6 | 2059.8 | 2063.8 | 2088.7 | 2104.1 | 2167.4 | 2401.0 | 2615.7 | 2275.3 |
| 47.5° | 2541.4 | 2491.2 | 2295.4 | 2202.5 | 2250.0 | 2299.0 | 2340.9 | 2460.7 | 2735.5 | 2962.0 | 2488.4 |
| 50° | 2669.9 | 2622.4 | 2434.2 | 2359.5 | 2466.2 | 2545.3 | 2613.3 | 2790.8 | 3095.3 | 3225.7 | 2637.8 |
| 52.5° | 2775.0 | 2743.4 | 2578.1 | 2539.4 | 2713.3 | 2829.2 | 2928.8 | 3141.5 | 3413.9 | 3440.0 | 2754.1 |
| 55° | 2877.4 | 2854.9 | 2732.7 | 2753.3 | 3003.5 | 3161.3 | 3287.4 | 3513.5 | 3688.3 | 3618.7 | 2865.6 |
| 57.5° | 2995.2 | 2974.7 | 2909.0 | 3024.5 | 3385.1 | 3583.5 | 3721.1 | 3843.3 | 3929.9 | 3801.4 | 2970.7 |
| 60° | 3115.4 | 3103.6 | 3105.1 | 3325.8 | 3823.1 | 4013.7 | 4089.6 | 4121.2 | 4167.1 | 3973.3 | 2976.7 |
| 62.5° | 3230.1 | 3252.6 | 3329.3 | 3661.0 | 4242.6 | 4388.9 | 4427.2 | 4458.5 | 4404.7 | 4000.6 | 2750.1 |
| 65° | 3424.2 | 3461.0 | 3644.0 | 4109.7 | 4704.0 | 4860.5 | 4900.1 | 4792.9 | 4442.2 | 3648.0 | 2236.9 |
| 67.5° | 3519.1 | 3586.3 | 3912.9 | 4528.0 | 5151.5 | 5325.5 | 5310.8 | 4814.7 | 3986.4 | 2781.7 | 1435.5 |
| 69° | 3499.3 | 3570.9 | 3974.9 | 4656.1 | 5300.2 | 5457.9 | 5365.0 | 4548.6 | 3396.1 | 2015.1 | 881.3 |
| 70° | 3421.0 | 3493.4 | 3942.9 | 4651.4 | 5319.1 | 5444.1 | 5264.6 | 4220.1 | 2871.5 | 1473.5 | 551.1 |
| 72.5° | 2856.9 | 2919.3 | 3500.5 | 4204.2 | 4900.1 | 4798.5 | 4404.3 | 2923.7 | 1399.2 | 401.3 | 124.1 |
| 75° | 1758.6 | 1793.3 | 2511.7 | 3167.2 | 3700.9 | 3440.0 | 2934.3 | 1454.5 | 417.1 | 113.5 | 68.8 |
| 77.5° | 929.1 | 944.9 | 1375.1 | 1866.9 | 2346.1 | 1941.2 | 1503.9 | 567.3 | 192.1 | 71.2 | 49.8 |
| 80° | 549.2 | 561.0 | 740.5 | 853.6 | 1015.3 | 848.0 | 601.3 | 348.3 | 137.6 | 44.7 | 44.3 |
| 82.5° | 314.3 | 321.8 | 536.9 | 474.4 | 400.1 | 341.6 | 299.3 | 330.1 | 82.6 | 30.0 | 45.9 |
| 85° | 115.4 | 117.0 | 302.1 | 361.0 | 238.0 | 141.5 | 148.7 | 273.6 | 22.1 | 19.0 | 36.0 |
| 87.5° | 53.8 | 52.6 | 155.4 | 221.0 | 139.2 | 89.7 | 115.8 | 60.1 | 8.7 | 12.3 | 9.9 |
| 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° | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 | 992.3 |
| 2.5° | 980.5 | 965.9 | 939.4 | 912.1 | 884.4 | 863.1 | 842.1 | 825.5 | 820.0 | 809.7 | 810.5 |
| 5° | 950.4 | 923.6 | 868.2 | 812.1 | 753.6 | 705.3 | 659.9 | 623.1 | 605.3 | 587.1 | 587.1 |
| 7.5° | 924.3 | 885.2 | 798.6 | 707.3 | 612.8 | 533.3 | 461.8 | 408.0 | 378.4 | 354.6 | 354.2 |
| 10° | 914.5 | 861.5 | 740.5 | 609.6 | 478.0 | 369.7 | 284.7 | 230.1 | 202.0 | 183.8 | 183.1 |
| 12.5° | 918.8 | 853.2 | 695.8 | 519.5 | 354.2 | 237.6 | 164.9 | 129.7 | 117.8 | 112.3 | 112.3 |
| 15° | 931.5 | 850.8 | 651.2 | 431.3 | 250.3 | 148.7 | 109.5 | 100.0 | 99.2 | 99.2 | 99.2 |
| 17.5° | 946.9 | 851.6 | 605.3 | 345.5 | 170.4 | 106.4 | 94.5 | 93.3 | 94.1 | 94.1 | 94.1 |
| 20° | 962.7 | 852.0 | 555.9 | 266.1 | 120.2 | 92.5 | 89.0 | 88.6 | 89.4 | 89.4 | 89.7 |
| 22.5° | 982.1 | 854.0 | 506.5 | 198.9 | 99.2 | 87.4 | 84.6 | 84.6 | 85.0 | 85.0 | 84.6 |
| 25° | 1004.2 | 857.9 | 455.1 | 147.5 | 90.5 | 83.8 | 81.4 | 81.0 | 81.4 | 81.0 | 80.7 |
| 27.5° | 1031.9 | 863.5 | 397.7 | 115.4 | 86.6 | 80.3 | 78.3 | 78.3 | 77.9 | 77.5 | 77.1 |
| 30° | 1066.7 | 869.8 | 333.3 | 98.0 | 82.6 | 77.1 | 75.1 | 74.7 | 74.3 | 73.5 | 73.5 |
| 32.5° | 1119.7 | 883.6 | 269.6 | 89.0 | 78.3 | 72.7 | 71.2 | 71.2 | 70.4 | 69.6 | 69.2 |
| 35° | 1201.1 | 910.9 | 212.7 | 83.4 | 73.5 | 68.0 | 66.0 | 66.0 | 65.2 | 64.8 | 64.4 |
| 37.5° | 1313.8 | 952.4 | 165.3 | 78.3 | 68.8 | 62.9 | 60.9 | 60.5 | 59.7 | 58.9 | 58.5 |
| 40° | 1463.6 | 1003.8 | 130.1 | 73.5 | 64.0 | 57.7 | 56.1 | 55.4 | 53.8 | 52.6 | 52.6 |
| 42.5° | 1651.8 | 1062.3 | 105.6 | 68.4 | 58.5 | 53.0 | 51.8 | 50.6 | 47.8 | 46.7 | 46.3 |
| 45° | 1848.7 | 1114.9 | 89.4 | 62.5 | 53.0 | 48.2 | 47.4 | 45.5 | 41.9 | 40.7 | 40.7 |
| 47.5° | 1990.6 | 1127.2 | 78.7 | 56.9 | 47.8 | 43.1 | 42.7 | 39.1 | 36.0 | 35.2 | 34.8 |
| 50° | 2079.2 | 1103.0 | 70.0 | 51.4 | 43.1 | 38.3 | 37.2 | 32.8 | 30.8 | 30.0 | 29.7 |
| 52.5° | 2138.9 | 1060.0 | 62.9 | 46.7 | 38.7 | 34.0 | 31.2 | 28.1 | 26.5 | 25.7 | 25.7 |
| 55° | 2186.7 | 999.1 | 55.7 | 42.3 | 35.2 | 30.4 | 26.5 | 24.1 | 22.5 | 21.7 | 21.7 |
| 57.5° | 2200.2 | 916.4 | 48.6 | 38.7 | 31.6 | 26.9 | 22.5 | 21.0 | 19.0 | 18.6 | 18.6 |
| 60° | 2102.5 | 767.4 | 43.1 | 34.4 | 28.5 | 23.3 | 19.8 | 17.8 | 15.8 | 15.4 | 15.0 |
| 62.5° | 1845.1 | 593.8 | 38.0 | 30.4 | 24.9 | 20.2 | 17.0 | 14.6 | 13.0 | 13.0 | 13.0 |
| 65° | 1407.5 | 398.1 | 33.2 | 26.5 | 21.7 | 17.0 | 14.6 | 11.9 | 11.1 | 11.1 | 11.5 |
| 67.5° | 842.5 | 216.7 | 28.5 | 22.5 | 18.6 | 14.2 | 12.3 | 10.3 | 9.9 | 10.3 | 10.3 |
| 69° | 493.8 | 127.3 | 25.7 | 20.2 | 16.2 | 12.7 | 10.7 | 9.1 | 9.9 | 10.3 | 10.3 |
| 70° | 304.8 | 85.8 | 23.7 | 18.2 | 14.6 | 11.5 | 9.9 | 8.7 | 9.5 | 9.9 | 9.9 |
| 72.5° | 85.0 | 44.3 | 19.0 | 14.2 | 11.9 | 9.5 | 7.9 | 7.9 | 9.1 | 9.5 | 9.5 |
| 75° | 55.4 | 32.8 | 14.6 | 10.7 | 9.1 | 7.5 | 6.7 | 7.5 | 8.7 | 9.1 | 9.1 |
| 77.5° | 45.9 | 26.9 | 11.9 | 8.7 | 7.5 | 7.1 | 6.3 | 6.7 | 7.9 | 8.3 | 8.3 |
| 80° | 41.9 | 19.0 | 9.5 | 7.9 | 6.7 | 6.3 | 5.9 | 5.5 | 7.1 | 7.5 | 7.5 |
| 82.5° | 39.9 | 15.0 | 8.3 | 7.1 | 6.3 | 5.5 | 5.1 | 5.5 | 6.3 | 6.7 | 7.1 |
| 85° | 24.9 | 9.9 | 7.5 | 6.7 | 5.5 | 5.1 | 5.1 | 5.1 | 5.9 | 6.3 | 6.3 |
| 87.5° | 9.1 | 7.9 | 6.7 | 5.5 | 4.7 | 4.7 | 4.7 | 4.7 | 5.1 | 5.9 | 5.9 |
| 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)