

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: P193469

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193469
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: GLEON-AF-01-LED-E1-AFL-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4163 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

Input Watts (W): 59
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

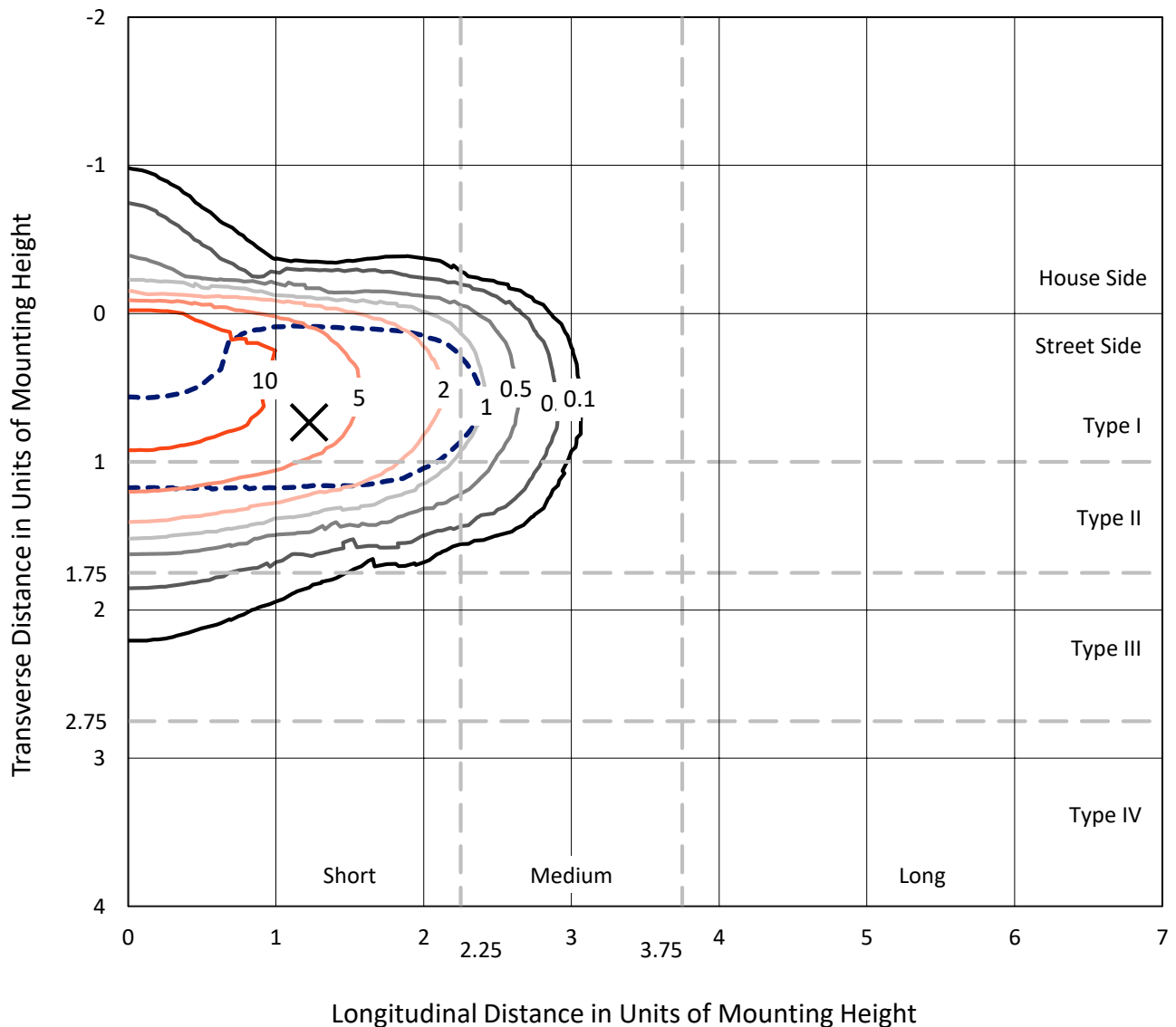


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

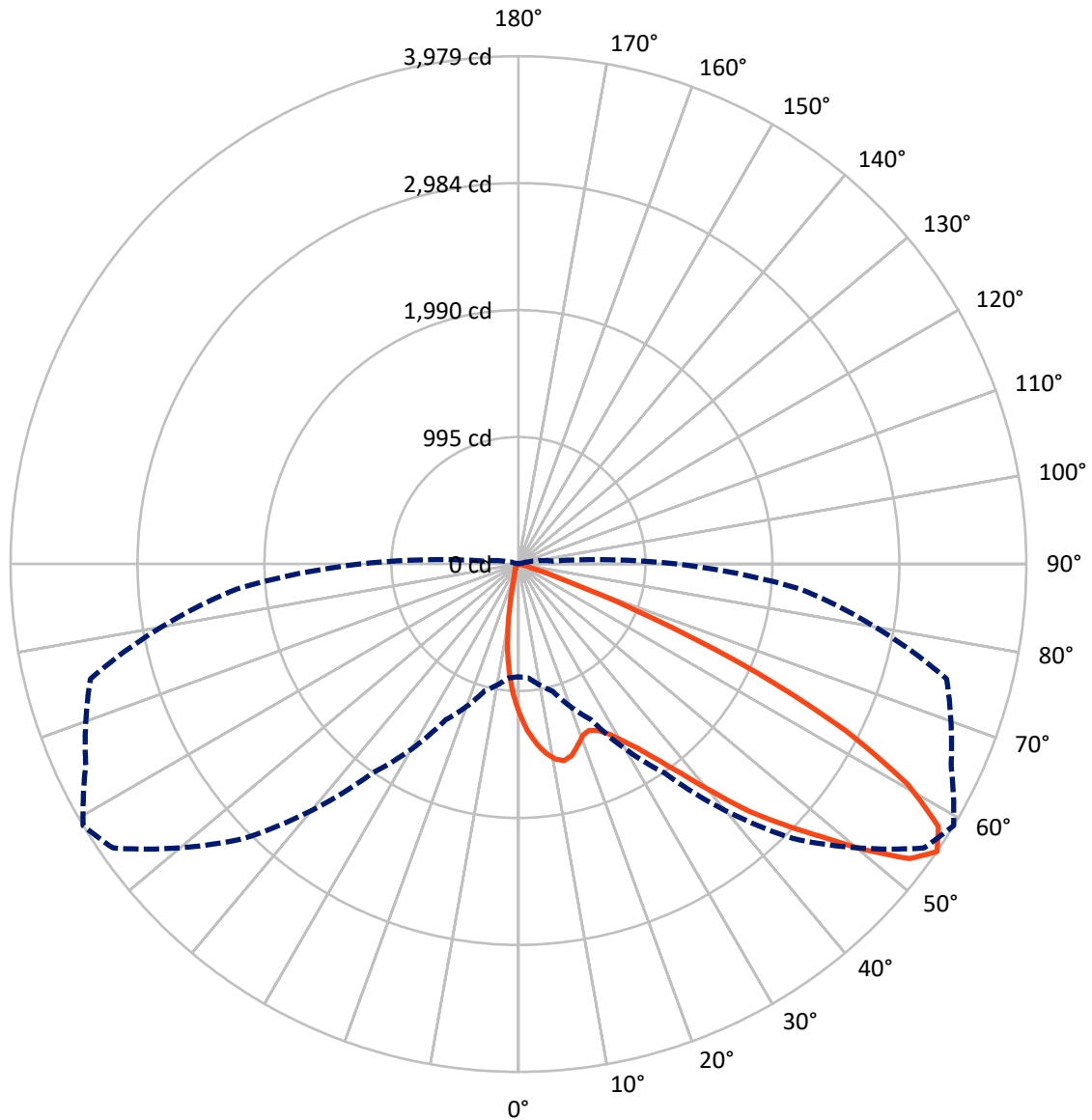


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - Full Cutoff

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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 | 232.5 | 0.0 | 232.5 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 3930.5 | 0.0 | 3930.5 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 4163.0 | 0.0 | 4163.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.2 | 2.4 |
| 10°-20° | 235.0 | 5.6 |
| 20°-30° | 399.9 | 9.6 |
| 30°-40° | 687.7 | 16.5 |
| 40°-50° | 1061.8 | 25.5 |
| 50°-60° | 1067.5 | 25.6 |
| 60°-70° | 547.4 | 13.1 |
| 70°-80° | 59.3 | 1.4 |
| 80°-90° | 6.2 | 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° | 4163.0 | 100.0 |
| 0°-180° | 4163.0 | 100.0 |



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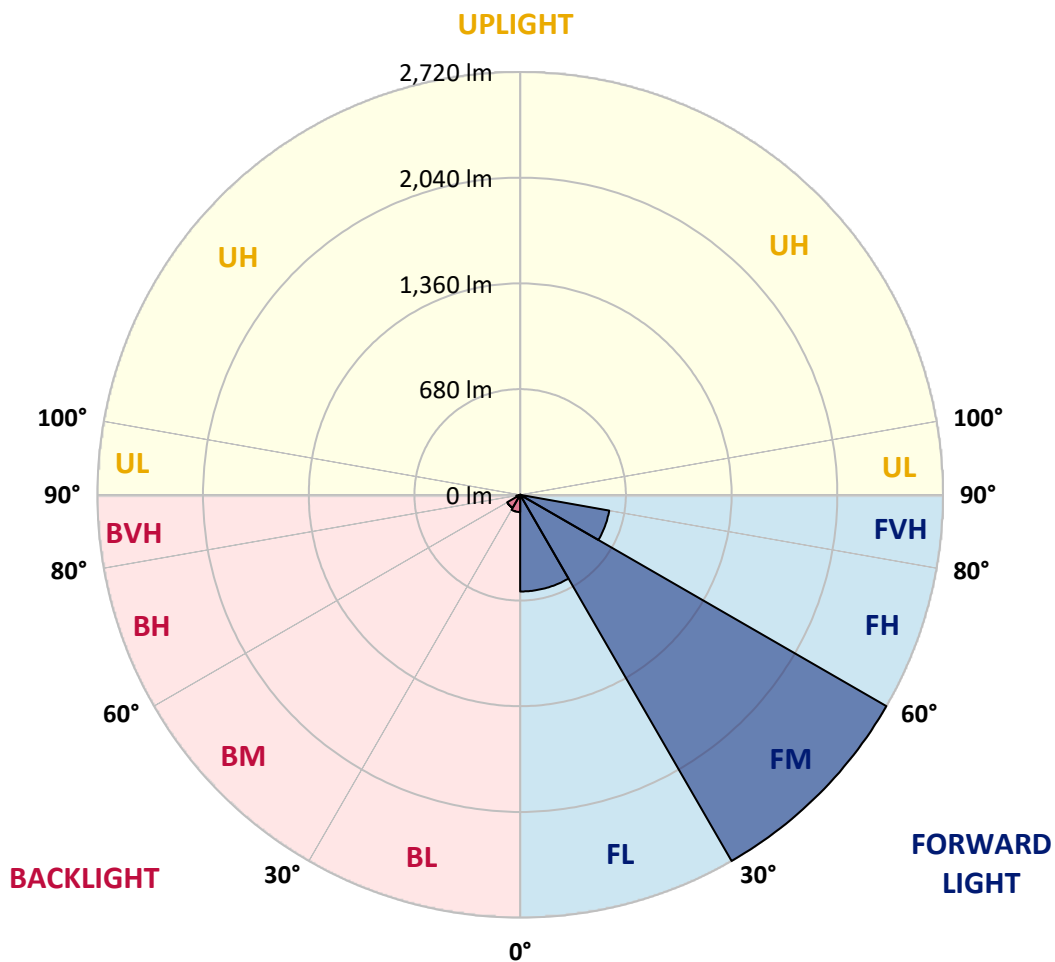
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 622.1 | 14.9 | | | |
| FM | (30°-60°) | 2720.5 | 65.3 | | | |
| FH | (60°-80°) | 581.8 | 14.0 | | | G0/660 |
| FVH | (80°-90°) | 6.1 | 0.1 | | | G0/10 |
| BL | (0°-30°) | 111.0 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 96.5 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 24.9 | 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: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 |
| 2.5° | 1386.6 | 1371.8 | 1367.4 | 1364.5 | 1351.0 | 1334.0 | 1310.9 | 1300.1 | 1278.0 | 1242.4 | 1198.6 |
| 5° | 1513.6 | 1510.9 | 1501.1 | 1495.7 | 1481.2 | 1457.1 | 1420.2 | 1402.6 | 1367.4 | 1307.5 | 1229.1 |
| 7.5° | 1458.1 | 1475.0 | 1488.5 | 1511.1 | 1539.6 | 1538.7 | 1507.7 | 1489.3 | 1450.0 | 1370.9 | 1263.0 |
| 10° | 1243.6 | 1257.4 | 1279.5 | 1330.8 | 1435.5 | 1527.9 | 1564.2 | 1550.9 | 1519.5 | 1429.1 | 1295.7 |
| 12.5° | 1201.6 | 1200.1 | 1204.1 | 1219.0 | 1273.8 | 1405.5 | 1554.6 | 1581.4 | 1575.0 | 1482.4 | 1326.6 |
| 15° | 1224.0 | 1222.2 | 1221.7 | 1226.9 | 1240.2 | 1295.7 | 1482.6 | 1559.5 | 1608.9 | 1531.8 | 1352.9 |
| 17.5° | 1286.6 | 1279.2 | 1275.3 | 1271.1 | 1267.2 | 1280.9 | 1396.2 | 1498.4 | 1614.1 | 1575.0 | 1374.8 |
| 20° | 1394.0 | 1381.7 | 1367.2 | 1343.6 | 1321.5 | 1314.6 | 1359.8 | 1435.5 | 1595.7 | 1607.9 | 1389.0 |
| 22.5° | 1528.8 | 1513.1 | 1488.1 | 1445.1 | 1400.1 | 1374.1 | 1377.7 | 1415.6 | 1568.1 | 1643.8 | 1395.7 |
| 25° | 1680.4 | 1660.3 | 1626.9 | 1567.2 | 1501.1 | 1454.9 | 1430.8 | 1444.1 | 1555.6 | 1685.8 | 1403.3 |
| 27.5° | 1842.8 | 1820.5 | 1776.7 | 1695.4 | 1620.5 | 1558.1 | 1508.9 | 1507.2 | 1577.0 | 1740.9 | 1415.6 |
| 30° | 2003.7 | 2000.3 | 1943.3 | 1857.3 | 1758.0 | 1682.1 | 1611.4 | 1602.3 | 1636.7 | 1817.0 | 1439.9 |
| 32.5° | 2218.4 | 2192.6 | 2122.9 | 2034.4 | 1919.9 | 1828.8 | 1745.0 | 1723.9 | 1728.3 | 1905.7 | 1477.5 |
| 35° | 2489.2 | 2460.9 | 2362.7 | 2240.6 | 2112.6 | 2005.0 | 1912.3 | 1883.6 | 1872.8 | 2050.9 | 1540.9 |
| 37.5° | 2664.1 | 2663.6 | 2601.9 | 2477.6 | 2340.3 | 2221.6 | 2120.9 | 2087.3 | 2065.4 | 2226.3 | 1639.1 |
| 40° | 2668.8 | 2680.3 | 2688.4 | 2687.2 | 2589.4 | 2480.1 | 2390.7 | 2349.1 | 2298.3 | 2460.7 | 1766.2 |
| 42.5° | 2525.5 | 2555.3 | 2626.8 | 2748.1 | 2806.1 | 2762.6 | 2687.2 | 2646.4 | 2570.7 | 2711.5 | 1920.9 |
| 45° | 2331.9 | 2352.6 | 2477.6 | 2701.2 | 2923.5 | 3042.7 | 2985.2 | 2912.2 | 2812.5 | 2973.2 | 2059.7 |
| 47.5° | 2245.2 | 2248.9 | 2329.7 | 2575.2 | 2932.4 | 3272.1 | 3307.0 | 3188.4 | 3032.1 | 3183.9 | 2168.3 |
| 50° | 1986.0 | 1992.7 | 2104.2 | 2356.8 | 2828.7 | 3380.5 | 3630.3 | 3517.8 | 3271.7 | 3346.3 | 2207.9 |
| 52.5° | 1496.9 | 1506.2 | 1647.7 | 1997.8 | 2543.7 | 3334.3 | 3861.8 | 3834.5 | 3534.0 | 3425.7 | 2210.1 |
| 55° | 883.2 | 895.5 | 1030.6 | 1344.8 | 2000.8 | 3040.5 | 3879.0 | 3979.2 | 3741.1 | 3472.6 | 2206.7 |
| 57.5° | 412.5 | 421.1 | 498.5 | 692.8 | 1244.3 | 2402.9 | 3620.0 | 3879.9 | 3855.4 | 3497.4 | 2231.0 |
| 60° | 219.1 | 221.6 | 240.3 | 300.0 | 562.3 | 1523.7 | 3114.7 | 3503.6 | 3751.2 | 3531.8 | 2260.7 |
| 62.5° | 167.6 | 168.3 | 167.3 | 174.4 | 236.3 | 676.3 | 2354.3 | 2880.3 | 3331.8 | 3506.0 | 2227.8 |
| 65° | 145.2 | 146.4 | 139.5 | 137.8 | 151.6 | 241.3 | 1398.6 | 2053.1 | 2618.2 | 3157.9 | 2003.5 |
| 67.5° | 130.2 | 130.7 | 122.3 | 115.2 | 117.7 | 130.5 | 551.8 | 1124.0 | 1733.0 | 2314.7 | 1452.2 |
| 70° | 119.9 | 119.4 | 110.3 | 99.0 | 95.8 | 89.2 | 175.4 | 412.0 | 828.2 | 1173.8 | 675.4 |
| 72.5° | 106.1 | 106.4 | 102.0 | 87.2 | 79.6 | 62.4 | 81.3 | 120.1 | 247.1 | 319.9 | 158.2 |
| 75° | 94.1 | 92.9 | 87.5 | 78.1 | 65.6 | 41.0 | 40.3 | 53.6 | 76.2 | 75.7 | 34.1 |
| 77.5° | 68.1 | 66.8 | 68.5 | 64.1 | 50.4 | 26.5 | 20.1 | 25.8 | 31.0 | 30.0 | 9.6 |
| 80° | 49.9 | 49.1 | 44.2 | 53.3 | 44.5 | 18.2 | 12.5 | 13.8 | 16.0 | 13.5 | 2.9 |
| 82.5° | 34.1 | 33.9 | 31.2 | 29.5 | 25.3 | 11.1 | 7.9 | 8.6 | 10.3 | 7.6 | 1.5 |
| 85° | 5.4 | 6.1 | 22.6 | 17.9 | 15.0 | 4.9 | 5.4 | 5.9 | 6.9 | 4.2 | 0.5 |
| 87.5° | 0.0 | 0.0 | 10.6 | 9.3 | 2.9 | 2.0 | 3.2 | 3.4 | 3.4 | 2.2 | 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° | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 | 1171.9 |
| 2.5° | 1176.3 | 1151.7 | 1106.3 | 1059.4 | 1015.9 | 964.0 | 928.4 | 901.6 | 870.7 | 862.3 | 880.5 |
| 5° | 1184.4 | 1138.0 | 1040.2 | 933.8 | 833.8 | 723.0 | 638.3 | 571.2 | 510.5 | 489.9 | 508.5 |
| 7.5° | 1197.2 | 1128.1 | 968.7 | 793.5 | 619.6 | 446.6 | 328.2 | 250.3 | 200.7 | 186.0 | 193.8 |
| 10° | 1209.9 | 1113.9 | 885.9 | 627.5 | 389.6 | 217.4 | 141.5 | 113.0 | 102.4 | 100.2 | 101.5 |
| 12.5° | 1220.5 | 1094.7 | 784.9 | 446.1 | 208.3 | 116.4 | 92.6 | 88.0 | 86.5 | 86.5 | 87.0 |
| 15° | 1226.9 | 1065.7 | 665.3 | 283.8 | 119.9 | 88.0 | 80.8 | 79.4 | 79.4 | 79.6 | 80.1 |
| 17.5° | 1226.2 | 1028.9 | 534.3 | 171.7 | 89.7 | 77.9 | 73.7 | 72.5 | 72.2 | 72.7 | 73.0 |
| 20° | 1217.1 | 980.7 | 402.9 | 113.3 | 78.1 | 71.0 | 66.8 | 64.6 | 64.4 | 64.9 | 65.3 |
| 22.5° | 1199.9 | 921.3 | 288.2 | 87.2 | 70.5 | 64.4 | 59.2 | 57.2 | 57.2 | 57.7 | 58.2 |
| 25° | 1179.0 | 848.6 | 197.0 | 73.9 | 63.6 | 57.2 | 52.3 | 50.6 | 51.1 | 52.3 | 52.6 |
| 27.5° | 1153.0 | 766.8 | 133.9 | 63.4 | 55.3 | 50.1 | 46.4 | 45.2 | 46.4 | 48.2 | 48.6 |
| 30° | 1130.6 | 681.5 | 95.6 | 54.8 | 46.9 | 43.2 | 41.0 | 41.0 | 42.7 | 45.9 | 46.7 |
| 32.5° | 1113.4 | 599.0 | 73.7 | 48.4 | 40.8 | 37.6 | 36.4 | 37.6 | 40.3 | 43.5 | 44.2 |
| 35° | 1111.2 | 530.9 | 62.4 | 43.2 | 36.4 | 33.2 | 32.7 | 34.9 | 37.6 | 40.0 | 40.5 |
| 37.5° | 1128.1 | 468.0 | 56.3 | 39.1 | 32.4 | 29.5 | 29.0 | 31.7 | 34.4 | 37.3 | 38.1 |
| 40° | 1160.3 | 418.6 | 51.8 | 35.1 | 29.2 | 26.0 | 25.1 | 27.0 | 30.7 | 34.6 | 35.6 |
| 42.5° | 1202.1 | 377.8 | 46.9 | 31.2 | 26.0 | 21.6 | 20.4 | 22.6 | 26.5 | 30.7 | 31.9 |
| 45° | 1241.9 | 342.7 | 41.5 | 26.8 | 21.9 | 16.7 | 16.2 | 19.2 | 21.1 | 25.3 | 26.3 |
| 47.5° | 1263.8 | 311.8 | 36.9 | 21.9 | 17.0 | 13.5 | 13.5 | 14.2 | 16.2 | 21.1 | 22.1 |
| 50° | 1256.4 | 286.9 | 31.9 | 16.2 | 11.8 | 10.3 | 10.3 | 10.1 | 13.0 | 17.0 | 17.7 |
| 52.5° | 1241.6 | 272.7 | 27.5 | 12.5 | 8.1 | 7.4 | 6.6 | 7.4 | 9.1 | 10.8 | 11.1 |
| 55° | 1239.4 | 270.2 | 23.1 | 10.1 | 5.7 | 4.9 | 3.7 | 3.7 | 3.7 | 3.4 | 2.9 |
| 57.5° | 1256.6 | 274.2 | 19.4 | 8.1 | 4.2 | 3.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1274.3 | 278.3 | 16.7 | 5.7 | 2.9 | 1.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1244.8 | 269.0 | 14.0 | 3.4 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1093.5 | 229.0 | 11.1 | 2.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 777.8 | 153.3 | 7.4 | 1.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 355.0 | 64.1 | 4.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 75.9 | 19.9 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 15.5 | 14.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.9 | 22.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 2.9 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.5 | 2.5 | 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)