

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: P200012

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7767.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

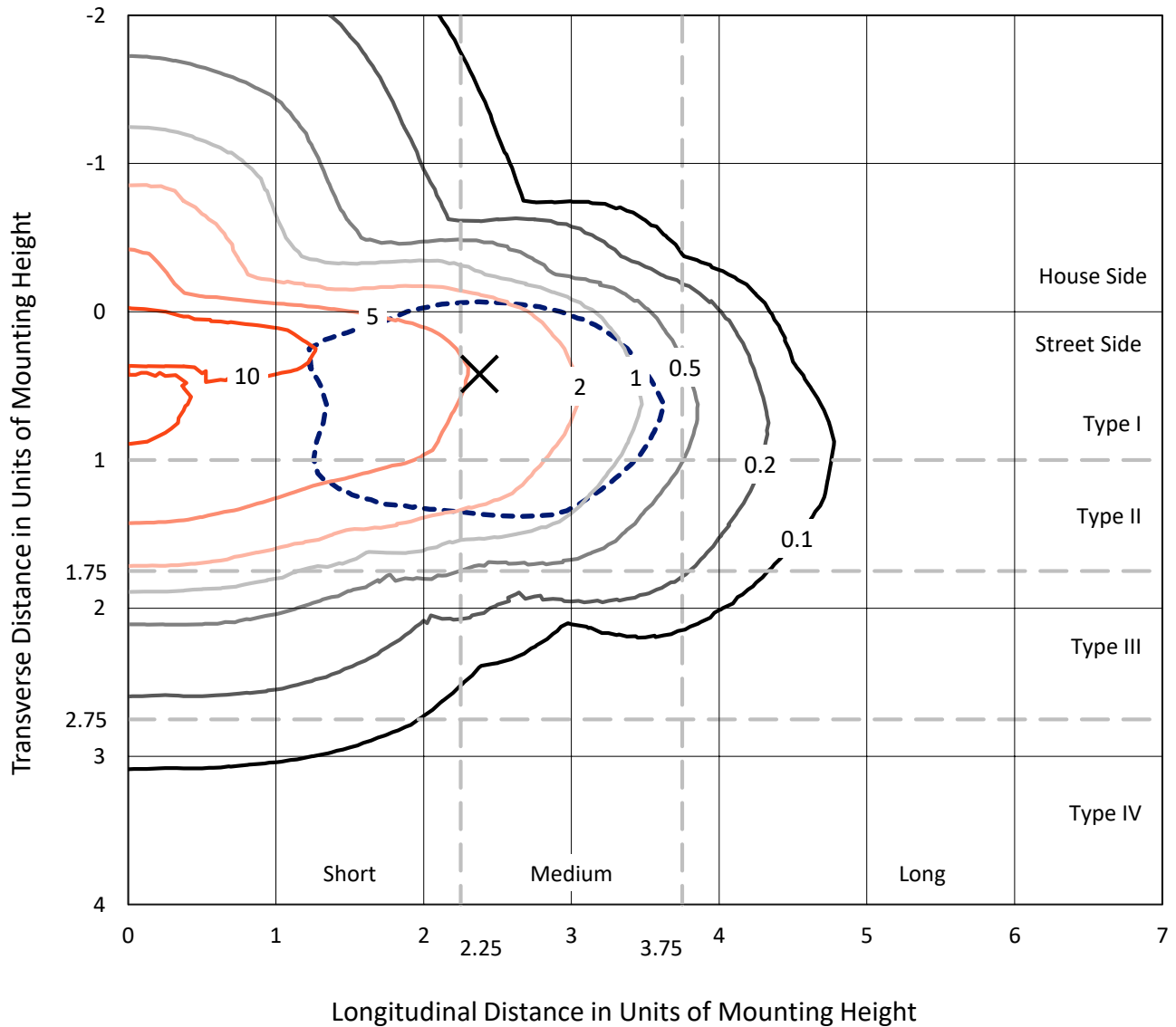
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

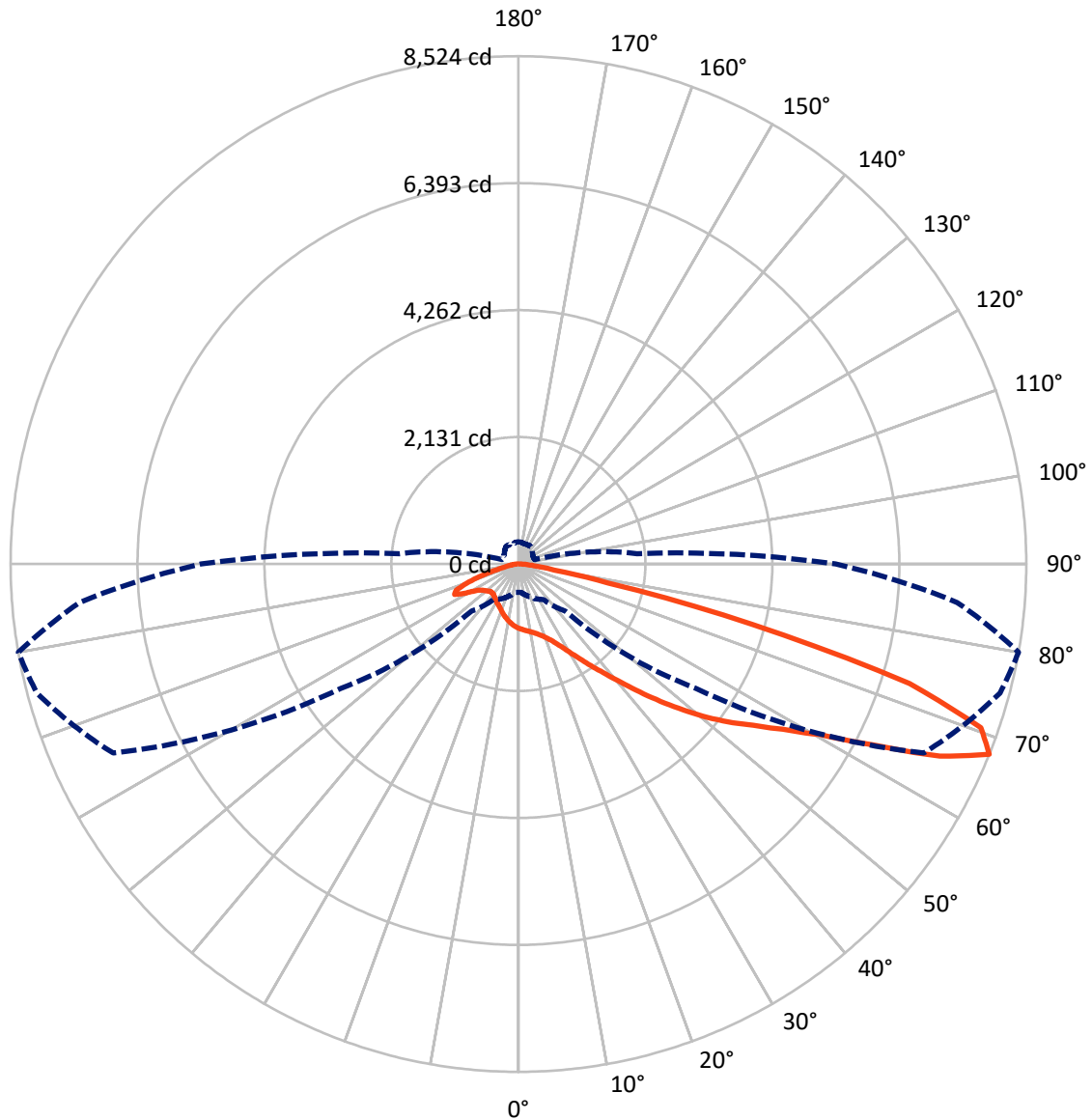
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1430.4 | 0.0 | 1430.4 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 6336.8 | 0.0 | 6336.8 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 7767.2 | 0.0 | 7767.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 1.3 |
| 10°-20° | 286.8 | 3.7 |
| 20°-30° | 474.6 | 6.1 |
| 30°-40° | 776.4 | 10.0 |
| 40°-50° | 1253.5 | 16.1 |
| 50°-60° | 1809.8 | 23.3 |
| 60°-70° | 1997.2 | 25.7 |
| 70°-80° | 920.6 | 11.9 |
| 80°-90° | 148.9 | 1.9 |
| 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° | 7767.2 | 100.0 |
| 0°-180° | 7767.2 | 100.0 |



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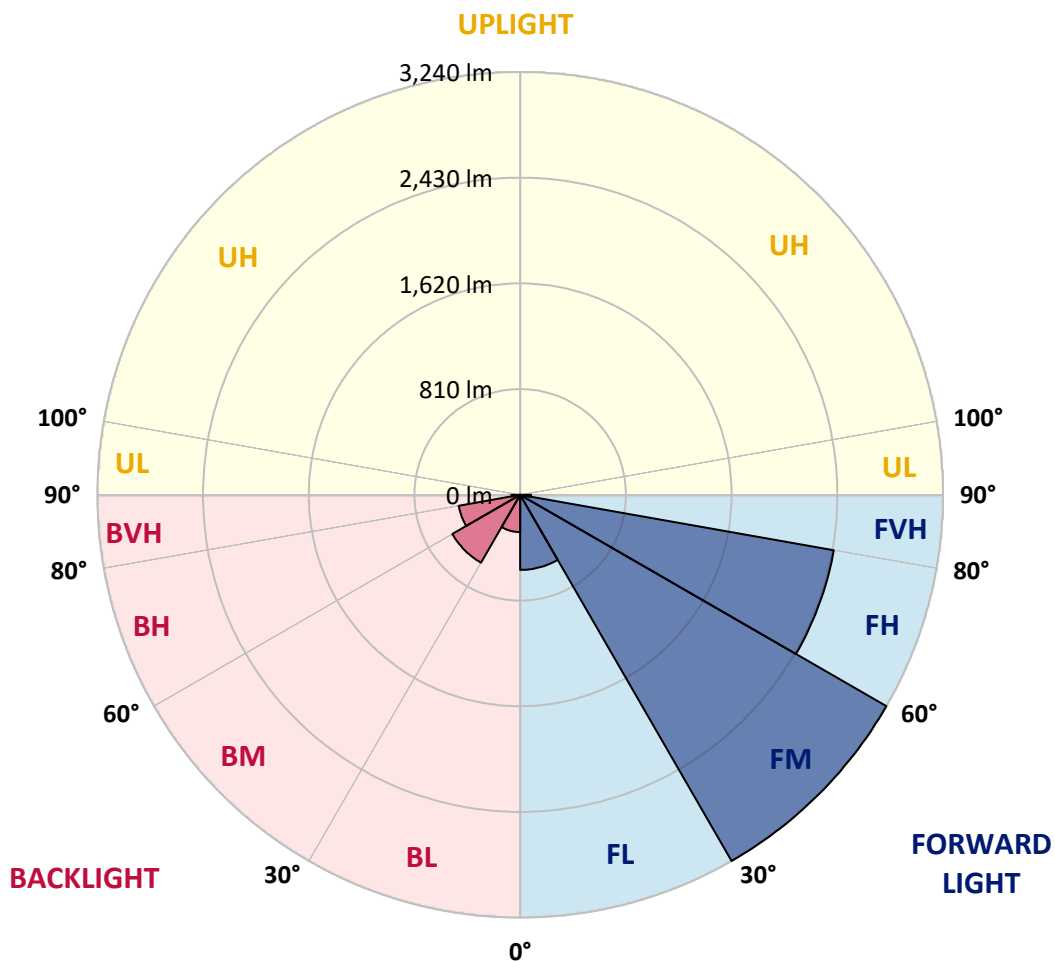
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 575.5 | 7.4 | | | |
| FM (30°-60°) | 3239.5 | 41.7 | | | |
| FH (60°-80°) | 2439.9 | 31.4 | | | G2/5000 |
| FVH (80°-90°) | 81.9 | 1.1 | | | G1/100 |
| BL (0°-30°) | 285.4 | 3.7 | B1/500 | | |
| BM (30°-60°) | 600.2 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 477.8 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 67.0 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 |
| 2.5° | 1180.4 | 1173.6 | 1174.6 | 1172.8 | 1167.0 | 1157.0 | 1146.3 | 1126.9 | 1106.6 | 1095.9 | 1087.4 |
| 5° | 1279.1 | 1277.1 | 1274.5 | 1268.4 | 1253.9 | 1233.2 | 1207.6 | 1173.1 | 1136.1 | 1116.5 | 1097.8 |
| 7.5° | 1352.8 | 1351.7 | 1348.3 | 1344.4 | 1330.3 | 1305.4 | 1266.9 | 1217.9 | 1163.9 | 1137.2 | 1108.1 |
| 10° | 1358.9 | 1361.0 | 1363.5 | 1373.9 | 1375.8 | 1362.5 | 1323.0 | 1263.8 | 1193.0 | 1158.5 | 1121.5 |
| 12.5° | 1307.0 | 1311.2 | 1321.5 | 1347.9 | 1375.8 | 1392.3 | 1372.0 | 1311.9 | 1227.1 | 1185.4 | 1138.4 |
| 15° | 1238.1 | 1240.4 | 1253.1 | 1289.4 | 1339.5 | 1390.4 | 1409.5 | 1365.0 | 1271.0 | 1219.8 | 1163.6 |
| 17.5° | 1208.7 | 1209.8 | 1218.7 | 1242.8 | 1289.4 | 1362.0 | 1430.5 | 1422.9 | 1325.0 | 1262.6 | 1194.5 |
| 20° | 1193.7 | 1196.5 | 1209.1 | 1232.8 | 1262.3 | 1325.8 | 1433.6 | 1485.2 | 1389.2 | 1316.1 | 1233.5 |
| 22.5° | 1236.3 | 1235.0 | 1239.6 | 1251.6 | 1276.3 | 1314.6 | 1431.3 | 1549.4 | 1471.0 | 1385.0 | 1284.5 |
| 25° | 1335.2 | 1339.5 | 1331.5 | 1318.1 | 1326.1 | 1352.8 | 1443.6 | 1619.0 | 1573.6 | 1473.4 | 1351.0 |
| 27.5° | 1476.4 | 1472.2 | 1460.4 | 1429.0 | 1412.5 | 1423.9 | 1484.1 | 1693.9 | 1700.8 | 1589.6 | 1439.0 |
| 30° | 1617.1 | 1613.6 | 1602.2 | 1563.9 | 1530.2 | 1520.8 | 1562.9 | 1780.1 | 1852.7 | 1729.1 | 1546.8 |
| 32.5° | 1763.2 | 1759.4 | 1748.7 | 1710.5 | 1669.9 | 1647.7 | 1674.8 | 1879.5 | 2031.5 | 1895.8 | 1673.8 |
| 35° | 1943.2 | 1936.1 | 1913.4 | 1860.3 | 1820.6 | 1803.4 | 1816.0 | 2004.5 | 2238.0 | 2093.2 | 1827.8 |
| 37.5° | 2112.6 | 2123.8 | 2100.8 | 2027.5 | 1975.9 | 1969.7 | 1983.8 | 2157.0 | 2460.6 | 2313.8 | 2004.9 |
| 40° | 2282.9 | 2284.7 | 2264.1 | 2204.1 | 2150.9 | 2140.9 | 2176.6 | 2342.1 | 2723.4 | 2577.7 | 2220.1 |
| 42.5° | 2458.8 | 2462.6 | 2427.7 | 2372.3 | 2333.3 | 2335.2 | 2375.8 | 2559.0 | 3024.8 | 2888.6 | 2467.9 |
| 45° | 2667.1 | 2672.9 | 2634.7 | 2562.0 | 2526.4 | 2597.9 | 2581.1 | 2802.2 | 3355.1 | 3241.8 | 2752.5 |
| 47.5° | 2885.1 | 2894.0 | 2864.9 | 2796.8 | 2752.5 | 2850.7 | 2786.4 | 3071.8 | 3710.7 | 3620.9 | 3064.8 |
| 50° | 3004.1 | 3016.6 | 3044.9 | 3040.0 | 3030.5 | 3014.0 | 3015.5 | 3360.9 | 4077.3 | 4015.5 | 3386.1 |
| 52.5° | 2940.1 | 2939.8 | 3043.1 | 3168.4 | 3302.3 | 3312.2 | 3294.6 | 3665.5 | 4420.0 | 4401.3 | 3688.5 |
| 55° | 2648.0 | 2667.9 | 2824.4 | 3067.1 | 3432.7 | 3661.0 | 3712.9 | 4014.7 | 4756.5 | 4778.4 | 3995.6 |
| 57.5° | 2161.5 | 2178.1 | 2389.2 | 2727.5 | 3256.8 | 3868.3 | 4308.0 | 4522.1 | 5132.8 | 5234.5 | 4404.3 |
| 60° | 1466.0 | 1485.9 | 1709.7 | 2116.2 | 2783.4 | 3752.7 | 4874.3 | 5427.6 | 5583.2 | 5814.6 | 4978.0 |
| 62.5° | 861.5 | 879.5 | 1061.9 | 1334.9 | 1959.8 | 3216.3 | 5122.8 | 6715.8 | 6298.7 | 6689.8 | 5852.8 |
| 65° | 593.1 | 605.3 | 694.1 | 830.9 | 1126.1 | 2166.2 | 4814.6 | 7605.3 | 7399.6 | 7774.4 | 6867.3 |
| 67.5° | 477.3 | 475.8 | 546.1 | 639.3 | 725.1 | 1116.9 | 3640.7 | 7504.7 | 8367.7 | 8524.2 | 7393.8 |
| 70° | 393.2 | 391.5 | 439.3 | 516.6 | 579.3 | 629.0 | 1983.0 | 6333.1 | 8170.4 | 8233.9 | 6909.0 |
| 72.5° | 328.9 | 330.4 | 361.0 | 418.4 | 475.3 | 473.7 | 871.5 | 4455.1 | 6427.5 | 6866.5 | 5507.5 |
| 75° | 277.6 | 278.4 | 298.6 | 339.1 | 385.8 | 381.7 | 472.6 | 2413.6 | 3736.3 | 4041.8 | 3052.9 |
| 77.5° | 236.3 | 237.1 | 250.1 | 272.6 | 305.9 | 304.4 | 344.9 | 1042.8 | 1558.6 | 1539.5 | 1044.3 |
| 80° | 210.7 | 210.7 | 216.8 | 221.0 | 239.4 | 232.5 | 255.7 | 501.0 | 658.9 | 608.3 | 416.9 |
| 82.5° | 165.2 | 166.0 | 203.4 | 201.9 | 188.5 | 179.7 | 179.7 | 295.2 | 349.1 | 322.8 | 243.9 |
| 85° | 92.9 | 92.6 | 131.1 | 158.3 | 166.0 | 126.5 | 125.4 | 165.2 | 190.0 | 167.5 | 118.1 |
| 87.5° | 39.8 | 40.5 | 60.7 | 70.4 | 94.1 | 78.7 | 77.6 | 85.2 | 96.7 | 83.7 | 54.6 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 | 1079.1 |
| 2.5° | 1079.5 | 1069.5 | 1047.7 | 1020.6 | 996.1 | 980.0 | 965.6 | 944.5 | 945.6 | 931.1 | 920.4 |
| 5° | 1078.7 | 1058.0 | 1007.6 | 947.6 | 889.8 | 848.2 | 816.8 | 788.6 | 781.6 | 768.2 | 760.2 |
| 7.5° | 1079.5 | 1045.8 | 960.9 | 865.0 | 793.4 | 740.7 | 713.9 | 699.0 | 695.6 | 690.9 | 691.4 |
| 10° | 1082.1 | 1034.6 | 909.7 | 787.8 | 712.8 | 678.0 | 671.5 | 676.1 | 681.4 | 683.0 | 683.3 |
| 12.5° | 1088.2 | 1024.8 | 853.6 | 718.9 | 662.3 | 651.6 | 662.6 | 678.4 | 688.7 | 693.7 | 693.2 |
| 15° | 1102.0 | 1017.1 | 799.6 | 665.0 | 634.4 | 640.1 | 660.8 | 683.0 | 697.8 | 704.7 | 705.2 |
| 17.5° | 1116.9 | 1006.1 | 744.2 | 623.7 | 613.7 | 628.2 | 653.9 | 679.9 | 698.2 | 706.0 | 707.5 |
| 20° | 1136.4 | 992.3 | 686.0 | 592.7 | 594.3 | 610.6 | 634.8 | 660.8 | 681.0 | 687.6 | 690.6 |
| 22.5° | 1162.1 | 977.5 | 635.2 | 567.5 | 572.1 | 584.6 | 603.4 | 625.9 | 643.5 | 646.6 | 649.3 |
| 25° | 1196.5 | 961.4 | 594.6 | 544.5 | 546.4 | 553.7 | 566.3 | 579.7 | 591.9 | 588.5 | 591.2 |
| 27.5° | 1242.8 | 947.6 | 564.5 | 523.5 | 520.1 | 521.6 | 528.0 | 532.3 | 538.7 | 529.3 | 530.4 |
| 30° | 1297.0 | 932.6 | 541.1 | 505.1 | 495.6 | 492.9 | 494.4 | 496.7 | 501.7 | 488.7 | 486.7 |
| 32.5° | 1360.2 | 914.7 | 519.3 | 489.1 | 475.8 | 470.4 | 471.1 | 477.3 | 496.4 | 488.3 | 484.1 |
| 35° | 1433.6 | 894.4 | 496.4 | 471.5 | 462.2 | 454.6 | 453.9 | 473.0 | 530.0 | 525.0 | 521.1 |
| 37.5° | 1519.6 | 874.2 | 473.4 | 451.6 | 452.4 | 443.9 | 441.3 | 463.0 | 536.5 | 517.1 | 514.3 |
| 40° | 1628.9 | 863.4 | 453.9 | 430.6 | 440.1 | 439.0 | 433.6 | 444.6 | 493.7 | 458.2 | 453.5 |
| 42.5° | 1764.3 | 865.0 | 439.3 | 408.0 | 425.6 | 437.8 | 429.4 | 429.8 | 447.4 | 420.6 | 416.4 |
| 45° | 1931.4 | 883.0 | 429.1 | 390.0 | 409.1 | 436.7 | 427.9 | 421.7 | 423.3 | 409.1 | 406.9 |
| 47.5° | 2126.4 | 920.1 | 421.7 | 375.1 | 393.5 | 432.4 | 427.5 | 419.4 | 416.1 | 408.4 | 406.5 |
| 50° | 2343.3 | 973.9 | 416.4 | 361.0 | 379.3 | 425.6 | 427.9 | 417.2 | 413.3 | 410.3 | 409.1 |
| 52.5° | 2556.2 | 1035.4 | 408.4 | 348.7 | 368.2 | 417.2 | 429.1 | 414.8 | 410.7 | 408.4 | 407.2 |
| 55° | 2793.8 | 1112.4 | 396.2 | 338.3 | 359.0 | 406.5 | 429.1 | 411.5 | 406.9 | 407.2 | 406.9 |
| 57.5° | 3114.6 | 1236.6 | 381.7 | 329.6 | 348.0 | 393.5 | 421.7 | 407.6 | 401.8 | 402.3 | 402.6 |
| 60° | 3615.8 | 1455.8 | 364.1 | 320.7 | 334.3 | 378.1 | 411.8 | 399.3 | 393.5 | 395.0 | 395.4 |
| 62.5° | 4353.1 | 1777.3 | 341.1 | 307.8 | 319.7 | 361.7 | 398.0 | 388.5 | 382.7 | 386.6 | 386.6 |
| 65° | 5119.4 | 2061.0 | 312.8 | 291.4 | 304.4 | 343.7 | 380.9 | 375.1 | 369.4 | 378.1 | 377.8 |
| 67.5° | 5325.6 | 1997.6 | 284.5 | 273.3 | 289.1 | 323.9 | 360.2 | 357.2 | 354.1 | 369.4 | 368.6 |
| 70° | 4730.9 | 1603.7 | 258.5 | 255.0 | 272.3 | 302.4 | 338.0 | 338.0 | 336.1 | 347.6 | 344.9 |
| 72.5° | 3604.4 | 1137.2 | 233.6 | 235.6 | 253.2 | 279.1 | 313.9 | 316.7 | 313.6 | 319.2 | 317.0 |
| 75° | 1929.5 | 650.8 | 208.8 | 214.1 | 229.5 | 255.4 | 287.2 | 289.9 | 287.9 | 287.6 | 288.7 |
| 77.5° | 641.3 | 318.2 | 182.8 | 191.2 | 204.6 | 231.0 | 259.3 | 263.5 | 258.8 | 258.1 | 257.8 |
| 80° | 285.6 | 200.0 | 154.0 | 165.2 | 177.0 | 203.0 | 229.8 | 233.3 | 228.3 | 235.1 | 226.3 |
| 82.5° | 183.5 | 131.5 | 123.5 | 135.7 | 147.2 | 175.2 | 200.4 | 201.1 | 196.5 | 228.3 | 194.6 |
| 85° | 89.0 | 81.4 | 92.9 | 104.1 | 113.9 | 137.6 | 166.0 | 166.3 | 154.8 | 141.1 | 136.1 |
| 87.5° | 44.4 | 47.4 | 62.0 | 71.9 | 76.8 | 94.4 | 120.8 | 118.5 | 113.5 | 103.2 | 95.2 |
| 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)