

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: P526680

Luminaire Tested: **GALN-SA1C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4386 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

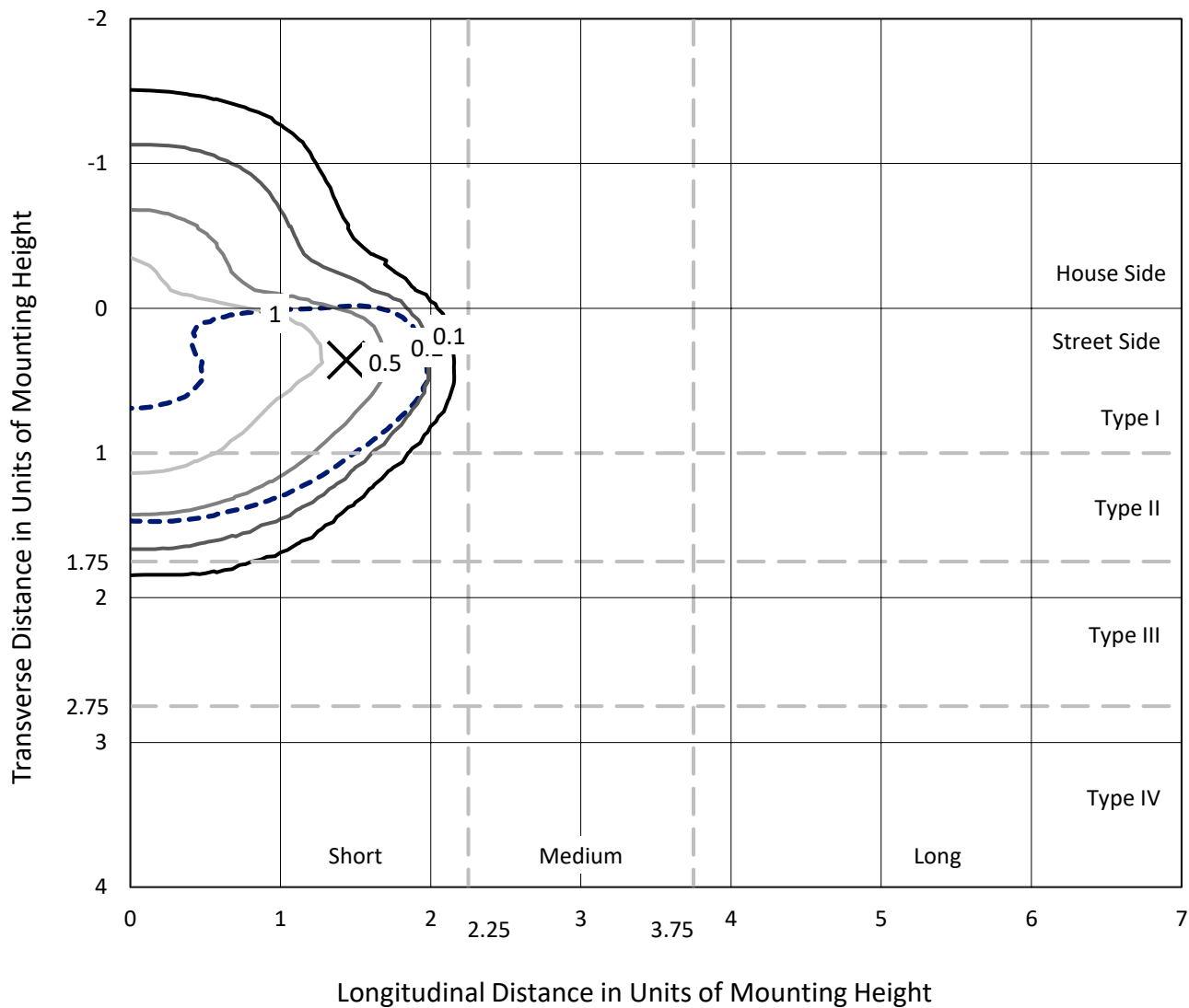
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

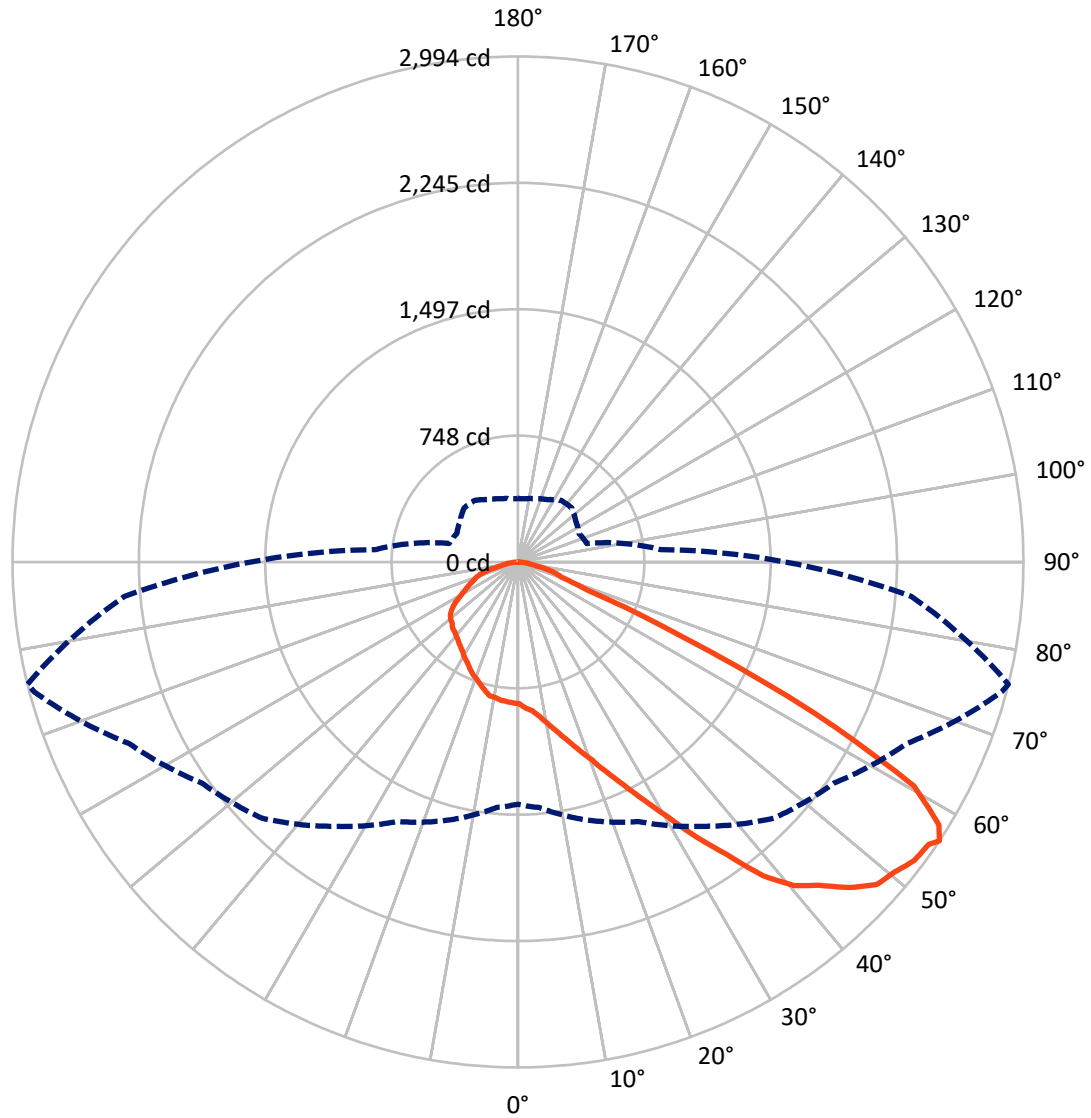
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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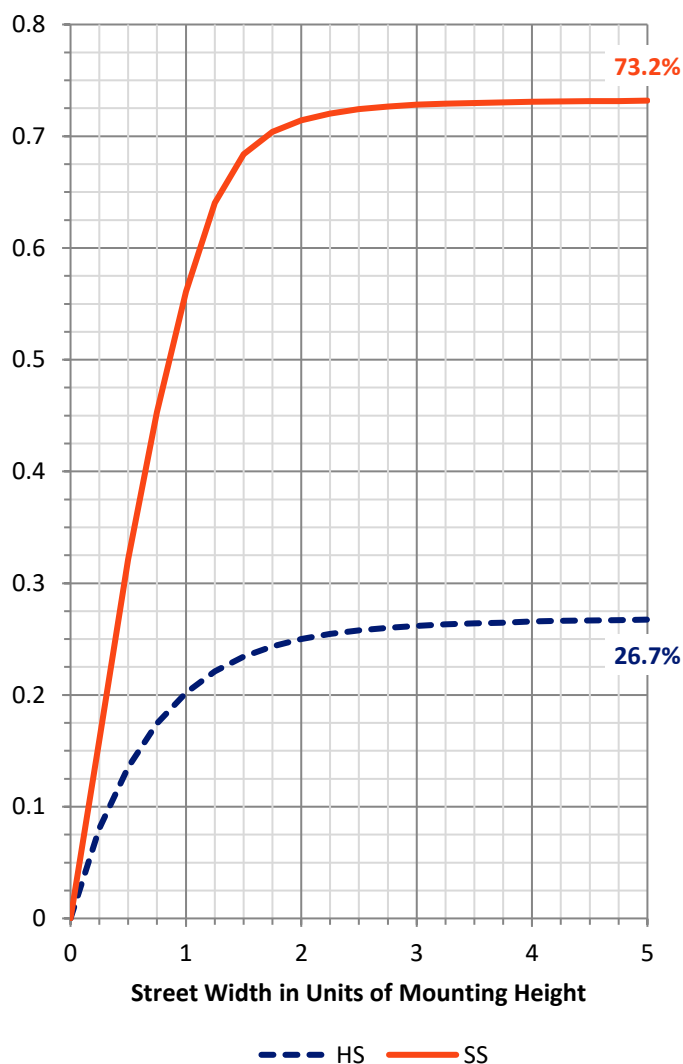
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1179.3 | 0.0 | 1179.3 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 3206.7 | 0.0 | 3206.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 4386.0 | 0.0 | 4386.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.2 | 1.9 |
| 10°-20° | 261.4 | 6.0 |
| 20°-30° | 457.2 | 10.4 |
| 30°-40° | 715.9 | 16.3 |
| 40°-50° | 1041.4 | 23.7 |
| 50°-60° | 1144.5 | 26.1 |
| 60°-70° | 510.9 | 11.6 |
| 70°-80° | 147.6 | 3.4 |
| 80°-90° | 23.9 | 0.5 |
| 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° | 4386.0 | 100.0 |
| 0°-180° | 4386.0 | 100.0 |

Coefficient of Utilization

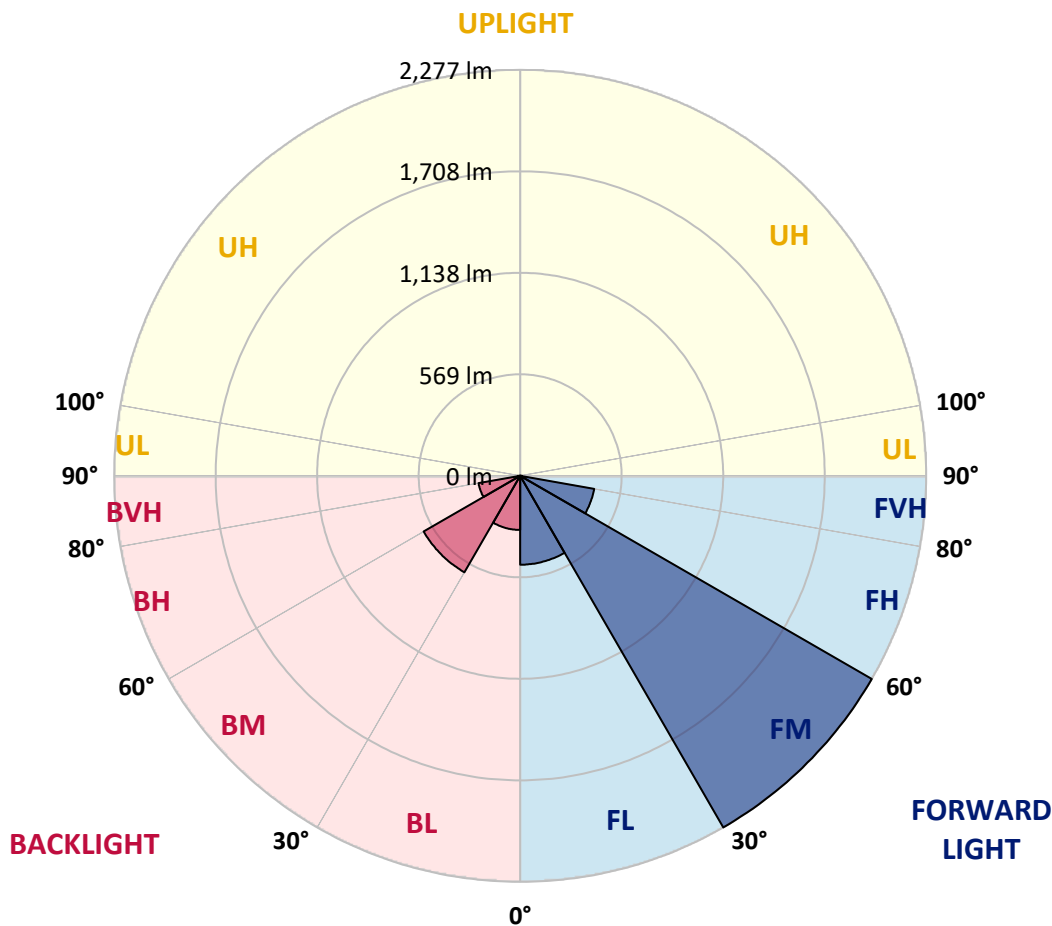


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 498.4 | 11.4 | | | |
| FM (30°-60°) | 2276.9 | 51.9 | | | |
| FH (60°-80°) | 421.2 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 10.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 303.4 | 6.9 | B1/500 | | |
| BM (30°-60°) | 624.9 | 14.2 | B1/1000 | | |
| BH (60°-80°) | 237.3 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 |
| 2.5° | 924.5 | 909.7 | 908.6 | 904.6 | 906.9 | 896.6 | 885.8 | 871.6 | 856.8 | 865.9 | 844.3 |
| 5° | 989.3 | 969.4 | 977.4 | 963.7 | 965.4 | 951.8 | 929.6 | 913.1 | 894.9 | 884.1 | 868.8 |
| 7.5° | 1012.0 | 1013.8 | 1019.4 | 1017.2 | 1005.8 | 1005.8 | 991.0 | 962.0 | 930.2 | 923.9 | 898.3 |
| 10° | 1042.8 | 1043.3 | 1037.1 | 1038.8 | 1054.7 | 1047.3 | 1034.2 | 1021.7 | 980.8 | 973.4 | 927.9 |
| 12.5° | 1053.6 | 1043.3 | 1053.6 | 1062.7 | 1081.4 | 1091.6 | 1088.8 | 1079.7 | 1035.9 | 1030.8 | 964.3 |
| 15° | 1055.3 | 1049.0 | 1057.5 | 1078.0 | 1094.5 | 1137.7 | 1159.3 | 1153.1 | 1095.1 | 1095.6 | 1005.2 |
| 17.5° | 1047.3 | 1055.8 | 1059.2 | 1076.9 | 1115.0 | 1155.3 | 1217.9 | 1226.4 | 1178.6 | 1171.2 | 1057.0 |
| 20° | 1058.1 | 1051.8 | 1056.4 | 1072.3 | 1122.9 | 1186.0 | 1267.9 | 1324.2 | 1257.1 | 1252.0 | 1110.4 |
| 22.5° | 1099.6 | 1091.1 | 1089.9 | 1100.2 | 1136.6 | 1202.0 | 1320.8 | 1422.0 | 1352.6 | 1355.5 | 1176.9 |
| 25° | 1132.0 | 1136.6 | 1132.6 | 1132.0 | 1154.8 | 1225.8 | 1390.7 | 1538.5 | 1482.3 | 1465.8 | 1255.4 |
| 27.5° | 1187.7 | 1198.5 | 1190.6 | 1201.4 | 1196.3 | 1261.7 | 1440.7 | 1667.6 | 1622.1 | 1599.9 | 1326.5 |
| 30° | 1265.1 | 1270.7 | 1263.4 | 1263.4 | 1248.0 | 1311.7 | 1486.2 | 1802.4 | 1783.6 | 1753.5 | 1410.0 |
| 32.5° | 1366.8 | 1375.4 | 1360.6 | 1352.1 | 1349.8 | 1386.2 | 1568.1 | 1935.4 | 1967.2 | 1941.7 | 1520.9 |
| 35° | 1501.6 | 1496.5 | 1478.8 | 1470.9 | 1440.2 | 1500.4 | 1689.8 | 2088.3 | 2171.9 | 2126.4 | 1655.1 |
| 37.5° | 1620.4 | 1612.5 | 1611.3 | 1567.0 | 1574.4 | 1623.8 | 1793.3 | 2204.3 | 2370.4 | 2357.3 | 1796.7 |
| 40° | 1731.3 | 1738.7 | 1750.6 | 1725.6 | 1714.2 | 1768.8 | 1913.8 | 2293.0 | 2524.4 | 2519.3 | 1905.8 |
| 42.5° | 1850.1 | 1843.3 | 1864.3 | 1843.3 | 1826.2 | 1903.6 | 2044.6 | 2354.4 | 2659.8 | 2617.7 | 2020.1 |
| 45° | 2022.4 | 2000.8 | 2008.2 | 2009.9 | 1997.4 | 2025.8 | 2098.6 | 2398.8 | 2754.7 | 2750.2 | 2103.7 |
| 47.5° | 2166.2 | 2166.8 | 2154.3 | 2144.6 | 2106.5 | 2135.0 | 2158.8 | 2426.6 | 2863.9 | 2856.5 | 2136.1 |
| 50° | 2219.7 | 2212.3 | 2248.7 | 2269.7 | 2272.0 | 2214.0 | 2206.0 | 2442.0 | 2921.3 | 2888.9 | 2168.5 |
| 52.5° | 2027.5 | 2034.3 | 2091.8 | 2216.8 | 2289.1 | 2295.3 | 2261.2 | 2473.8 | 2944.6 | 2937.8 | 2194.7 |
| 55° | 1631.8 | 1664.8 | 1759.1 | 1903.6 | 2074.7 | 2262.9 | 2320.9 | 2506.8 | 2957.1 | 2951.4 | 2310.7 |
| 56° | 1434.5 | 1460.1 | 1582.9 | 1696.0 | 1911.0 | 2145.2 | 2283.4 | 2542.1 | 2966.8 | 2993.5 | 2337.9 |
| 57.5° | 1154.8 | 1184.3 | 1272.5 | 1400.9 | 1654.5 | 1921.2 | 2179.9 | 2498.9 | 2929.3 | 2939.5 | 2357.8 |
| 60° | 722.1 | 724.9 | 830.7 | 915.4 | 1093.9 | 1354.3 | 1663.6 | 2174.2 | 2710.9 | 2696.1 | 2117.9 |
| 62.5° | 473.6 | 474.2 | 570.3 | 639.6 | 720.9 | 780.6 | 979.1 | 1441.9 | 2000.2 | 1974.1 | 1507.8 |
| 65° | 332.6 | 340.0 | 414.5 | 507.2 | 540.1 | 508.9 | 502.6 | 760.2 | 1117.2 | 1079.7 | 810.2 |
| 67.5° | 243.3 | 243.9 | 309.9 | 409.4 | 457.1 | 387.2 | 314.4 | 371.3 | 442.3 | 441.2 | 375.3 |
| 70° | 160.9 | 167.7 | 218.3 | 305.9 | 360.5 | 311.0 | 257.0 | 265.5 | 281.4 | 281.4 | 279.2 |
| 72.5° | 93.8 | 100.1 | 133.6 | 193.9 | 202.4 | 194.4 | 203.5 | 227.4 | 237.7 | 237.1 | 234.2 |
| 75° | 53.4 | 56.3 | 63.7 | 80.7 | 100.6 | 118.8 | 149.5 | 172.3 | 182.5 | 188.8 | 181.4 |
| 77.5° | 31.3 | 33.0 | 37.5 | 46.1 | 52.3 | 64.2 | 81.3 | 97.2 | 110.9 | 109.2 | 110.3 |
| 80° | 16.5 | 16.5 | 21.0 | 27.3 | 36.4 | 45.5 | 54.0 | 63.1 | 70.5 | 72.2 | 73.9 |
| 82.5° | 9.7 | 10.2 | 13.6 | 19.9 | 26.2 | 32.4 | 41.5 | 47.8 | 54.6 | 55.2 | 56.3 |
| 85° | 5.1 | 5.7 | 8.5 | 13.1 | 17.6 | 19.9 | 20.5 | 19.3 | 21.0 | 19.9 | 22.7 |
| 87.5° | 1.7 | 1.7 | 2.8 | 2.3 | 2.3 | 2.8 | 3.4 | 3.4 | 4.5 | 4.5 | 4.5 |
| 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° | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 | 839.2 |
| 2.5° | 843.8 | 843.8 | 834.1 | 815.9 | 813.1 | 805.7 | 798.8 | 798.3 | 793.2 | 788.6 | 786.3 |
| 5° | 859.7 | 842.0 | 827.8 | 811.3 | 792.0 | 782.9 | 772.7 | 761.3 | 756.8 | 761.3 | 760.7 |
| 7.5° | 877.9 | 863.1 | 820.4 | 789.7 | 767.6 | 758.5 | 747.1 | 735.2 | 736.3 | 736.3 | 728.3 |
| 10° | 895.5 | 875.6 | 807.4 | 768.1 | 735.7 | 728.9 | 722.6 | 727.2 | 732.9 | 734.0 | 728.9 |
| 12.5° | 925.1 | 880.1 | 801.1 | 746.5 | 726.1 | 711.3 | 715.3 | 727.8 | 739.7 | 736.3 | 740.3 |
| 15° | 947.2 | 884.1 | 772.7 | 724.4 | 698.8 | 705.6 | 719.8 | 728.3 | 748.2 | 746.0 | 749.9 |
| 17.5° | 968.8 | 886.4 | 744.8 | 694.8 | 684.0 | 702.7 | 713.6 | 738.0 | 744.3 | 757.9 | 763.0 |
| 20° | 1013.2 | 890.9 | 716.4 | 676.6 | 673.2 | 694.8 | 713.6 | 724.9 | 738.6 | 750.5 | 750.5 |
| 22.5° | 1035.9 | 888.7 | 697.6 | 652.7 | 663.5 | 677.2 | 694.2 | 713.6 | 713.6 | 724.9 | 725.5 |
| 25° | 1064.4 | 879.6 | 668.1 | 641.3 | 649.3 | 662.4 | 681.7 | 674.9 | 682.3 | 682.3 | 691.4 |
| 27.5° | 1096.8 | 860.2 | 642.5 | 620.9 | 636.8 | 651.0 | 653.9 | 649.3 | 640.8 | 639.6 | 636.2 |
| 30° | 1122.9 | 836.4 | 623.7 | 614.1 | 627.1 | 635.1 | 626.0 | 616.3 | 601.5 | 600.4 | 592.4 |
| 32.5° | 1158.7 | 806.8 | 600.4 | 597.0 | 611.8 | 612.3 | 609.5 | 594.7 | 573.1 | 564.0 | 554.9 |
| 35° | 1219.0 | 789.7 | 582.8 | 587.9 | 592.4 | 590.7 | 585.6 | 569.7 | 548.1 | 544.1 | 540.7 |
| 37.5° | 1263.4 | 777.2 | 564.6 | 570.8 | 574.8 | 577.1 | 561.7 | 544.1 | 544.7 | 536.7 | 534.5 |
| 40° | 1313.4 | 769.3 | 549.8 | 552.6 | 553.2 | 560.6 | 541.8 | 533.3 | 537.3 | 532.2 | 535.6 |
| 42.5° | 1377.6 | 771.5 | 534.5 | 532.2 | 543.0 | 540.1 | 531.0 | 519.7 | 521.9 | 506.6 | 508.9 |
| 45° | 1411.8 | 786.9 | 525.4 | 515.1 | 527.1 | 526.5 | 514.6 | 503.8 | 490.1 | 460.5 | 461.7 |
| 47.5° | 1434.5 | 790.9 | 503.8 | 496.9 | 509.4 | 516.8 | 503.2 | 478.2 | 458.8 | 437.8 | 432.7 |
| 50° | 1457.8 | 798.3 | 493.5 | 479.3 | 484.4 | 502.0 | 485.0 | 461.1 | 442.3 | 423.6 | 426.4 |
| 52.5° | 1478.3 | 812.5 | 473.6 | 452.6 | 461.7 | 481.0 | 471.9 | 442.9 | 422.4 | 407.1 | 402.5 |
| 55° | 1569.2 | 844.3 | 440.1 | 412.8 | 434.4 | 458.8 | 453.7 | 418.5 | 396.3 | 388.3 | 387.2 |
| 56° | 1583.5 | 845.5 | 422.4 | 399.1 | 419.0 | 451.4 | 445.2 | 407.7 | 387.8 | 375.3 | 375.8 |
| 57.5° | 1585.7 | 831.8 | 397.4 | 386.6 | 403.7 | 440.6 | 432.7 | 399.1 | 371.8 | 360.5 | 357.1 |
| 60° | 1395.3 | 649.3 | 366.2 | 359.3 | 379.2 | 407.7 | 404.8 | 375.8 | 345.1 | 332.0 | 338.3 |
| 62.5° | 951.2 | 475.9 | 341.7 | 340.6 | 350.8 | 378.7 | 371.3 | 345.1 | 319.5 | 311.0 | 307.0 |
| 65° | 553.8 | 361.0 | 317.8 | 313.3 | 321.8 | 336.6 | 341.7 | 314.4 | 287.7 | 282.0 | 280.3 |
| 67.5° | 326.9 | 298.5 | 287.1 | 279.7 | 276.9 | 286.0 | 290.0 | 274.0 | 247.3 | 239.4 | 246.2 |
| 70° | 273.5 | 265.5 | 266.1 | 253.6 | 246.8 | 240.5 | 237.1 | 222.9 | 200.7 | 190.5 | 187.6 |
| 72.5° | 236.0 | 232.5 | 230.3 | 218.9 | 212.6 | 198.4 | 183.6 | 169.4 | 152.9 | 144.4 | 145.0 |
| 75° | 180.2 | 179.1 | 180.2 | 174.6 | 163.7 | 152.4 | 138.7 | 120.5 | 108.0 | 97.2 | 99.5 |
| 77.5° | 107.5 | 110.9 | 112.6 | 110.3 | 105.8 | 95.5 | 87.0 | 75.1 | 63.1 | 54.6 | 53.4 |
| 80° | 73.9 | 76.8 | 79.6 | 76.8 | 72.2 | 64.8 | 55.7 | 46.6 | 38.1 | 33.5 | 32.4 |
| 82.5° | 56.3 | 59.1 | 60.8 | 58.0 | 52.3 | 44.3 | 38.1 | 31.8 | 25.0 | 20.5 | 19.3 |
| 85° | 20.5 | 23.3 | 22.7 | 27.3 | 29.6 | 28.4 | 24.4 | 18.8 | 14.2 | 10.2 | 9.7 |
| 87.5° | 5.7 | 5.1 | 5.7 | 5.7 | 5.7 | 5.1 | 4.5 | 4.5 | 4.5 | 2.8 | 2.3 |
| 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)