

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: STREETWORKS

Report Number: P846282

Luminaire Tested: **GLAN-SB1D-830-U-SL4-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6101 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

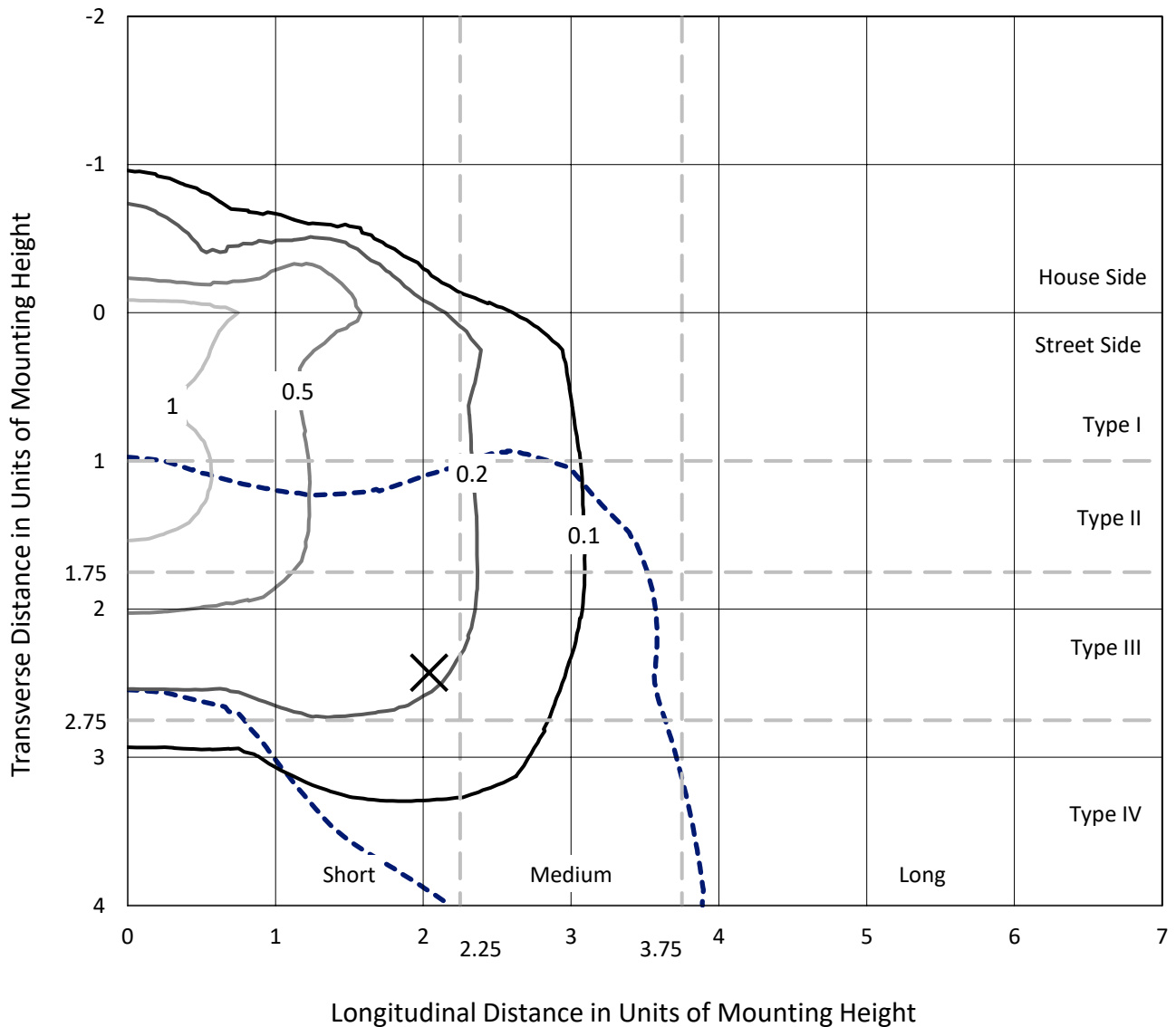
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

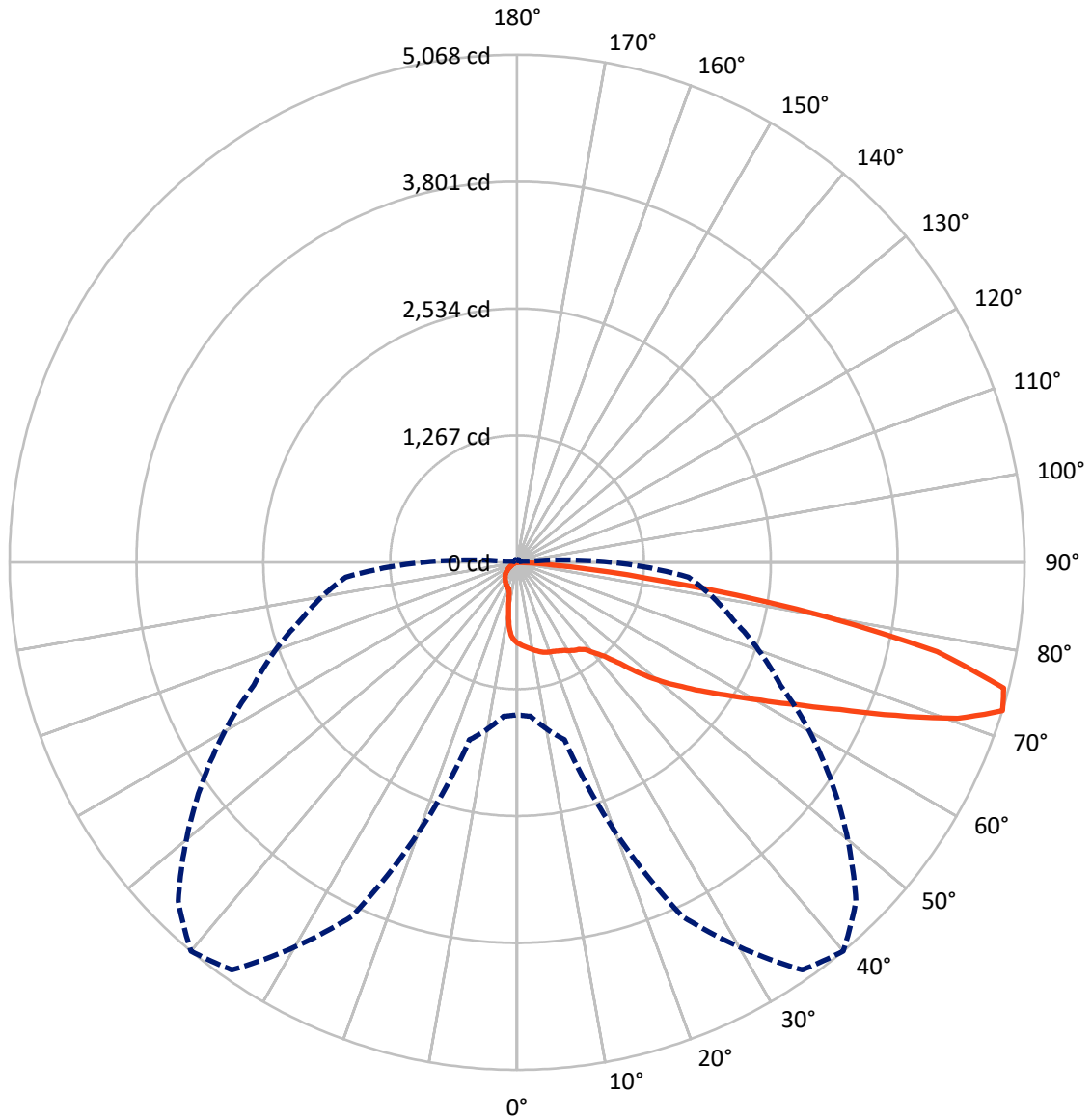
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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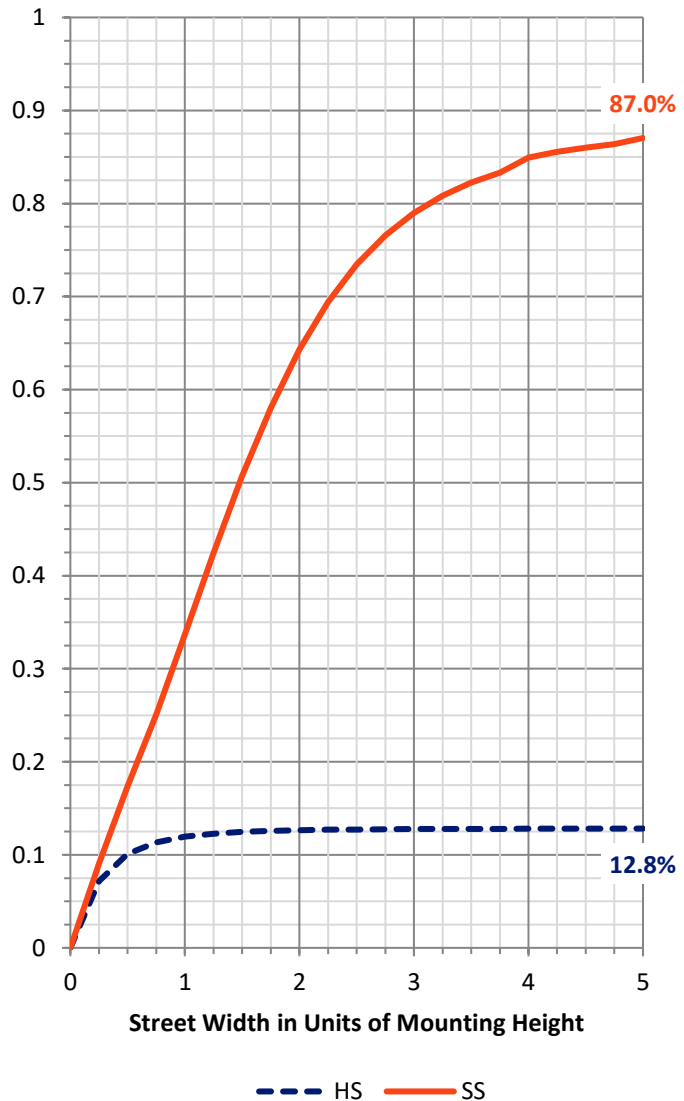
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 787.9 | 0.0 | 787.9 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 5313.1 | 0.0 | 5313.1 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 6101.0 | 0.0 | 6101.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 1.2 |
| 10°-20° | 200.3 | 3.3 |
| 20°-30° | 324.2 | 5.3 |
| 30°-40° | 478.6 | 7.8 |
| 40°-50° | 805.5 | 13.2 |
| 50°-60° | 1250.7 | 20.5 |
| 60°-70° | 1565.0 | 25.7 |
| 70°-80° | 1281.3 | 21.0 |
| 80°-90° | 121.5 | 2.0 |
| 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° | 6101.0 | 100.0 |
| 0°-180° | 6101.0 | 100.0 |

Coefficient of Utilization



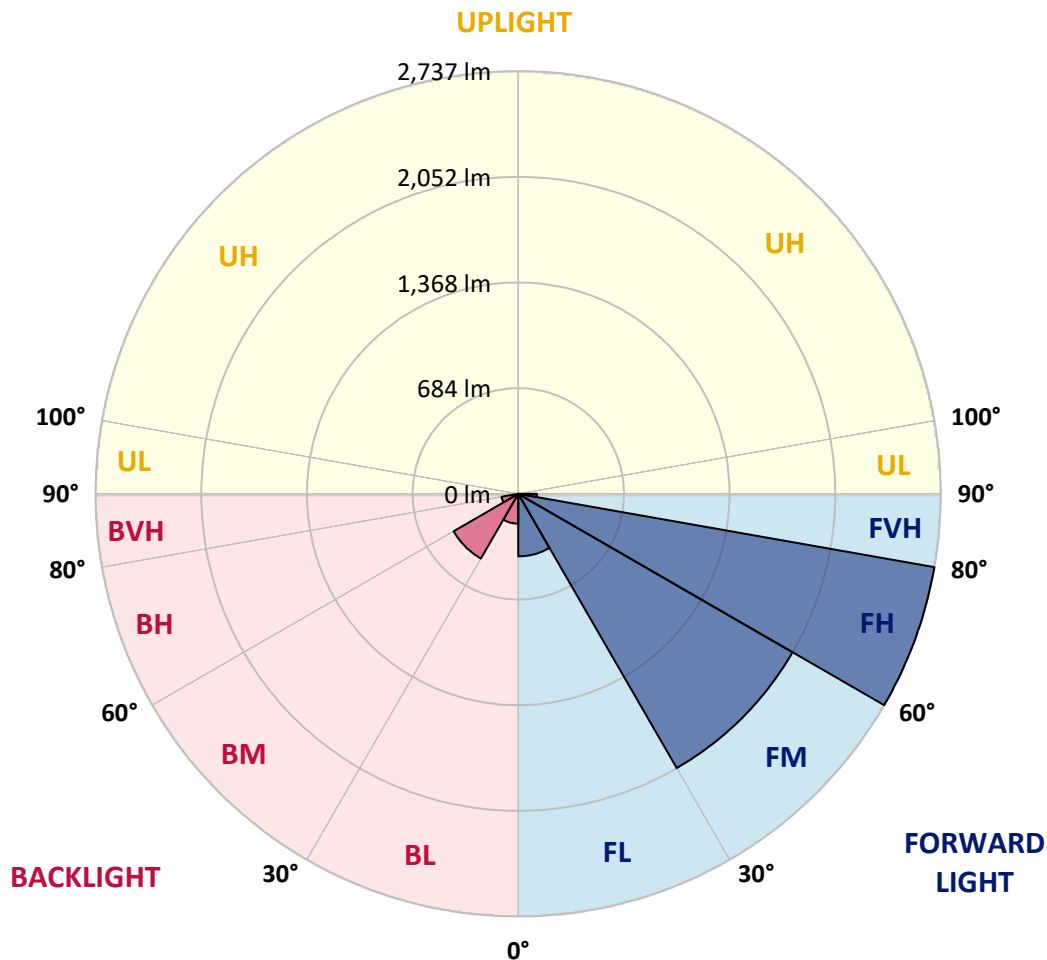
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 404.9 | 6.6 | | | |
| FM (30°-60°) | 2051.1 | 33.6 | | | |
| FH (60°-80°) | 2736.6 | 44.9 | | | G2/5000 |
| FVH (80°-90°) | 120.6 | 2.0 | | | G2/225 |
| BL (0°-30°) | 193.4 | 3.2 | B1/500 | | |
| BM (30°-60°) | 483.8 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 109.8 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.9 | 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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 |
| 2.5° | 832.2 | 835.4 | 833.6 | 829.9 | 829.0 | 827.1 | 824.8 | 823.9 | 820.7 | 817.9 |
| 5° | 855.6 | 858.8 | 856.5 | 851.5 | 849.2 | 846.9 | 843.7 | 840.9 | 834.5 | 828.5 |
| 7.5° | 881.3 | 884.1 | 881.3 | 874.0 | 870.3 | 867.6 | 863.0 | 858.8 | 851.5 | 842.7 |
| 10° | 909.8 | 912.1 | 908.0 | 898.3 | 892.4 | 888.2 | 884.1 | 879.5 | 872.6 | 863.0 |
| 12.5° | 936.5 | 939.2 | 932.8 | 921.3 | 914.4 | 910.3 | 905.7 | 902.0 | 895.1 | 885.9 |
| 15° | 960.8 | 965.0 | 953.9 | 941.5 | 933.7 | 930.5 | 925.9 | 923.6 | 919.0 | 912.6 |
| 17.5° | 979.2 | 982.0 | 970.5 | 955.8 | 947.1 | 944.8 | 941.5 | 942.9 | 942.0 | 938.8 |
| 20° | 994.8 | 996.7 | 981.5 | 963.6 | 953.9 | 954.4 | 953.5 | 958.1 | 959.9 | 959.9 |
| 22.5° | 1014.1 | 1014.6 | 995.3 | 972.8 | 961.3 | 964.5 | 965.9 | 970.9 | 974.6 | 978.3 |
| 25° | 1039.4 | 1038.5 | 1015.5 | 984.7 | 974.6 | 979.2 | 982.4 | 984.3 | 988.4 | 994.4 |
| 27.5° | 1077.1 | 1074.3 | 1044.9 | 1004.0 | 992.1 | 996.2 | 1002.2 | 1001.3 | 999.4 | 1004.0 |
| 30° | 1124.9 | 1121.2 | 1082.2 | 1031.1 | 1020.1 | 1023.8 | 1025.6 | 1017.4 | 1004.0 | 1008.2 |
| 32.5° | 1200.7 | 1194.3 | 1140.0 | 1061.5 | 1044.5 | 1048.6 | 1046.3 | 1029.3 | 1009.5 | 1013.7 |
| 35° | 1332.6 | 1317.0 | 1240.2 | 1124.9 | 1072.0 | 1067.4 | 1061.9 | 1045.4 | 1021.0 | 1016.9 |
| 37.5° | 1612.9 | 1585.3 | 1454.4 | 1248.5 | 1134.5 | 1104.7 | 1087.7 | 1071.1 | 1033.4 | 1016.9 |
| 40° | 1929.0 | 1901.0 | 1749.8 | 1455.3 | 1238.4 | 1187.8 | 1147.4 | 1101.4 | 1046.3 | 1022.9 |
| 42.5° | 2259.0 | 2228.2 | 2072.9 | 1711.7 | 1386.8 | 1283.0 | 1207.6 | 1125.8 | 1067.4 | 1041.3 |
| 45° | 2627.5 | 2588.9 | 2385.8 | 1979.1 | 1602.3 | 1441.0 | 1304.6 | 1175.9 | 1104.2 | 1073.9 |
| 47.5° | 3016.2 | 2966.1 | 2697.8 | 2238.7 | 1834.4 | 1659.8 | 1481.9 | 1265.5 | 1158.4 | 1122.6 |
| 50° | 3360.9 | 3311.2 | 3019.9 | 2510.3 | 2051.3 | 1867.9 | 1684.1 | 1389.6 | 1239.8 | 1191.5 |
| 52.5° | 3608.5 | 3570.9 | 3313.1 | 2790.6 | 2276.9 | 2063.2 | 1867.5 | 1533.9 | 1342.7 | 1279.7 |
| 55° | 3774.4 | 3740.0 | 3520.8 | 3056.2 | 2539.3 | 2278.3 | 2048.0 | 1690.5 | 1466.8 | 1385.4 |
| 57.5° | 3875.1 | 3855.3 | 3671.0 | 3293.3 | 2799.3 | 2513.5 | 2254.8 | 1862.9 | 1612.9 | 1510.0 |
| 60° | 3910.9 | 3894.8 | 3764.3 | 3519.4 | 3113.7 | 2796.1 | 2497.9 | 2057.2 | 1790.3 | 1651.5 |
| 62.5° | 3815.3 | 3818.5 | 3831.4 | 3787.3 | 3445.0 | 3127.0 | 2789.2 | 2290.7 | 1986.9 | 1811.9 |
| 65° | 3365.5 | 3392.1 | 3636.6 | 4084.1 | 3883.8 | 3541.5 | 3160.1 | 2575.6 | 2212.1 | 1994.3 |
| 67.5° | 2786.5 | 2825.1 | 3129.3 | 4257.8 | 4351.6 | 4079.5 | 3676.6 | 2938.6 | 2480.4 | 2179.9 |
| 70° | 2133.1 | 2174.4 | 2542.9 | 4221.5 | 4789.5 | 4667.7 | 4315.3 | 3400.4 | 2758.4 | 2308.6 |
| 72.5° | 1522.4 | 1543.5 | 1833.9 | 3898.5 | 4969.2 | 5068.4 | 4785.8 | 3837.8 | 2900.4 | 2237.4 |
| 75° | 1069.7 | 1066.1 | 1258.6 | 3139.4 | 4689.3 | 5019.7 | 4620.9 | 3601.2 | 2624.7 | 1777.4 |
| 77.5° | 465.9 | 466.9 | 628.6 | 1906.5 | 3742.7 | 4287.2 | 3841.1 | 2255.7 | 1829.8 | 942.0 |
| 80° | 120.9 | 124.5 | 230.7 | 759.1 | 2253.4 | 2829.7 | 2342.6 | 991.6 | 845.5 | 229.8 |
| 82.5° | 42.7 | 45.5 | 106.1 | 238.5 | 831.3 | 1297.7 | 1043.1 | 317.1 | 220.6 | 65.7 |
| 85° | 12.4 | 14.7 | 57.0 | 73.1 | 171.9 | 366.7 | 253.2 | 61.6 | 54.2 | 34.0 |
| 87.5° | 0.0 | 1.8 | 11.5 | 10.1 | 10.1 | 6.9 | 12.9 | 6.9 | 8.7 | 4.1 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 807.8 | 0° | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 | 807.8 |
| 814.7 | 2.5° | 812.0 | 808.7 | 801.8 | 794.5 | 787.6 | 781.2 | 779.3 | 772.4 | 769.2 | 769.7 |
| 821.1 | 5° | 816.1 | 810.1 | 796.8 | 780.7 | 764.2 | 745.3 | 729.7 | 707.6 | 688.8 | 686.5 |
| 833.6 | 7.5° | 827.1 | 817.5 | 795.9 | 764.6 | 723.3 | 671.3 | 623.1 | 575.3 | 548.2 | 533.5 |
| 851.9 | 10° | 844.1 | 831.3 | 798.2 | 738.4 | 650.7 | 557.8 | 484.8 | 424.6 | 393.8 | 379.6 |
| 874.5 | 12.5° | 864.3 | 850.1 | 801.8 | 693.9 | 556.9 | 435.2 | 356.1 | 319.4 | 312.9 | 312.0 |
| 902.0 | 15° | 892.8 | 877.2 | 806.0 | 633.7 | 455.4 | 331.3 | 295.0 | 295.5 | 300.5 | 303.3 |
| 931.9 | 17.5° | 924.5 | 908.9 | 800.0 | 560.1 | 355.2 | 283.1 | 282.1 | 286.3 | 293.6 | 296.4 |
| 959.5 | 20° | 956.7 | 942.0 | 778.9 | 473.8 | 287.2 | 269.7 | 273.4 | 278.0 | 285.4 | 289.0 |
| 986.6 | 22.5° | 989.8 | 976.9 | 745.3 | 381.9 | 259.2 | 260.1 | 264.7 | 269.3 | 277.5 | 281.7 |
| 1013.2 | 25° | 1025.2 | 1014.1 | 700.8 | 306.0 | 247.2 | 250.0 | 255.9 | 261.5 | 270.2 | 275.2 |
| 1035.7 | 27.5° | 1061.0 | 1052.7 | 650.2 | 255.5 | 236.2 | 239.4 | 246.3 | 253.7 | 262.4 | 268.4 |
| 1055.5 | 30° | 1100.1 | 1095.5 | 609.8 | 236.6 | 225.6 | 228.4 | 236.2 | 244.5 | 254.1 | 261.5 |
| 1075.3 | 32.5° | 1140.0 | 1139.1 | 590.0 | 250.4 | 216.0 | 217.8 | 224.7 | 233.0 | 244.9 | 254.1 |
| 1091.8 | 35° | 1179.6 | 1181.4 | 578.5 | 289.5 | 212.8 | 207.7 | 212.3 | 219.6 | 233.9 | 245.4 |
| 1110.6 | 37.5° | 1230.1 | 1234.7 | 578.1 | 331.8 | 220.6 | 197.6 | 200.8 | 205.9 | 218.3 | 231.6 |
| 1140.0 | 40° | 1305.5 | 1329.8 | 607.5 | 368.1 | 234.4 | 188.4 | 189.3 | 190.2 | 196.7 | 207.7 |
| 1179.1 | 42.5° | 1405.6 | 1476.9 | 713.6 | 392.9 | 239.9 | 180.1 | 176.9 | 171.9 | 170.9 | 176.9 |
| 1232.4 | 45° | 1530.2 | 1654.7 | 900.2 | 406.7 | 234.4 | 170.9 | 162.2 | 148.9 | 143.8 | 148.0 |
| 1304.6 | 47.5° | 1676.8 | 1849.5 | 1121.2 | 409.9 | 225.2 | 159.5 | 143.8 | 126.4 | 122.2 | 123.6 |
| 1401.5 | 50° | 1819.7 | 1995.7 | 1315.6 | 383.2 | 210.0 | 144.7 | 123.6 | 108.9 | 106.1 | 106.6 |
| 1515.9 | 52.5° | 1946.0 | 2045.7 | 1370.7 | 320.3 | 189.8 | 126.8 | 106.1 | 96.0 | 94.2 | 94.2 |
| 1642.3 | 55° | 2029.7 | 1991.5 | 1222.3 | 244.9 | 164.5 | 108.4 | 91.0 | 85.9 | 85.0 | 84.6 |
| 1783.4 | 57.5° | 2047.1 | 1815.1 | 923.2 | 176.9 | 128.7 | 91.4 | 80.9 | 78.1 | 76.3 | 74.4 |
| 1928.1 | 60° | 1984.6 | 1521.0 | 587.7 | 123.6 | 96.5 | 78.1 | 71.7 | 69.8 | 66.2 | 62.5 |
| 2064.1 | 62.5° | 1849.5 | 1148.8 | 325.3 | 85.9 | 77.7 | 66.6 | 63.4 | 61.1 | 54.2 | 48.2 |
| 2172.1 | 65° | 1668.0 | 763.7 | 143.8 | 67.1 | 63.4 | 56.1 | 54.2 | 51.0 | 42.7 | 35.8 |
| 2213.0 | 67.5° | 1485.6 | 439.8 | 64.8 | 53.8 | 51.0 | 46.0 | 44.6 | 42.3 | 36.3 | 29.9 |
| 2108.7 | 70° | 1277.4 | 222.9 | 44.6 | 42.7 | 39.5 | 34.9 | 36.3 | 35.8 | 29.9 | 24.4 |
| 1720.0 | 72.5° | 951.2 | 110.7 | 33.5 | 32.2 | 28.5 | 24.8 | 29.9 | 29.4 | 23.4 | 18.4 |
| 1060.6 | 75° | 538.5 | 54.7 | 24.4 | 22.5 | 17.0 | 18.4 | 23.9 | 22.5 | 16.1 | 11.9 |
| 447.6 | 77.5° | 213.7 | 28.0 | 16.1 | 13.8 | 10.1 | 12.4 | 17.5 | 15.2 | 8.3 | 5.1 |
| 85.5 | 80° | 49.2 | 13.8 | 8.3 | 6.0 | 4.6 | 7.4 | 9.2 | 5.5 | 2.3 | 0.5 |
| 23.0 | 82.5° | 13.8 | 6.0 | 2.8 | 2.3 | 2.3 | 2.8 | 2.3 | 0.9 | 0.0 | 0.0 |
| 6.0 | 85° | 4.6 | 2.8 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 1.8 | 87.5° | 1.8 | 0.9 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 807.8 |
| 769.2 |
| 685.1 |
| 532.6 |
| 376.8 |
| 311.5 |
| 302.8 |
| 295.9 |
| 289.0 |
| 281.7 |
| 275.2 |
| 268.8 |
| 262.4 |
| 255.0 |
| 247.2 |
| 233.9 |
| 211.4 |
| 180.1 |
| 148.0 |
| 123.1 |
| 106.6 |
| 93.7 |
| 83.6 |
| 73.5 |
| 61.1 |
| 46.4 |
| 34.5 |
| 28.9 |
| 23.4 |
| 17.5 |
| 11.0 |
| 4.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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