

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: P950308

Luminaire Tested: **GLAN-SB4D-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44295 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

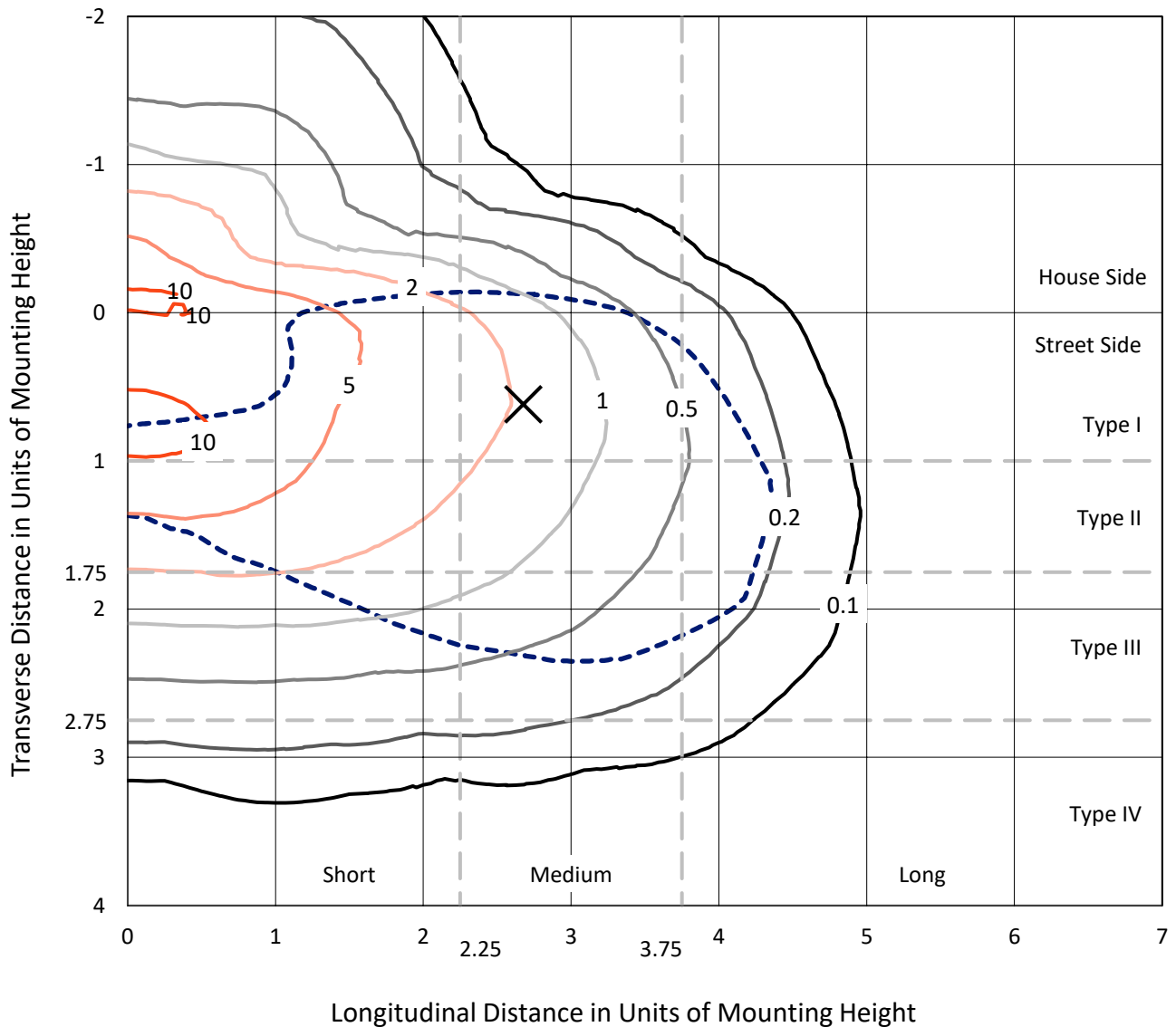
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

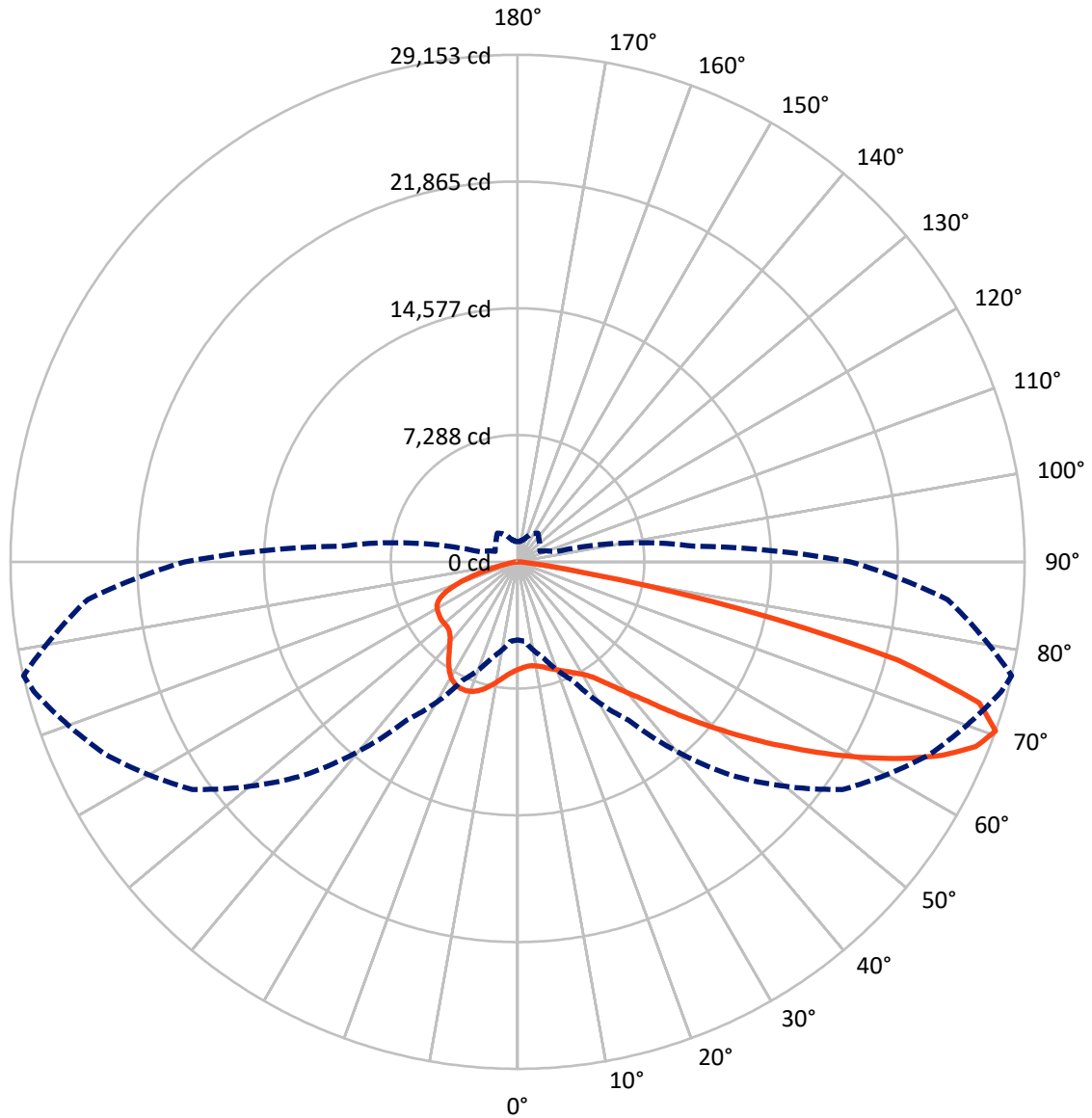
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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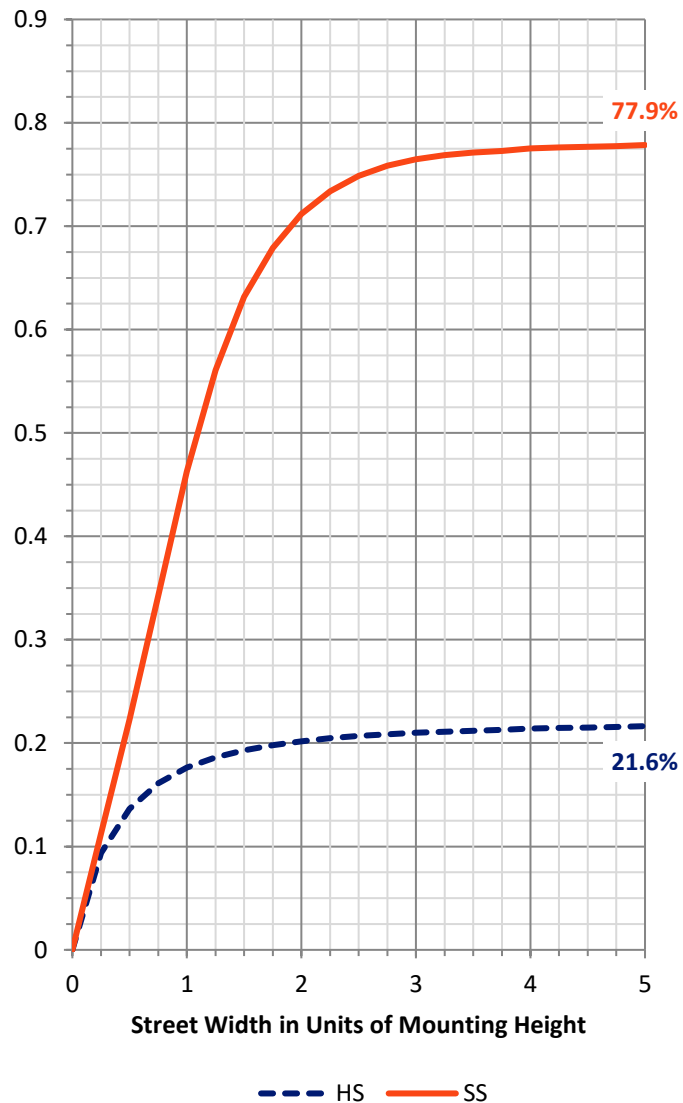
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9699.9 | 0.0 | 9699.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 34595.1 | 0.0 | 34595.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 44295.0 | 0.0 | 44295.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.4 | 1.3 |
| 10°-20° | 1701.0 | 3.8 |
| 20°-30° | 2908.9 | 6.6 |
| 30°-40° | 4677.8 | 10.6 |
| 40°-50° | 7303.2 | 16.5 |
| 50°-60° | 9755.4 | 22.0 |
| 60°-70° | 10397.7 | 23.5 |
| 70°-80° | 6400.8 | 14.5 |
| 80°-90° | 560.9 | 1.3 |
| 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° | 44295.0 | 100.0 |
| 0°-180° | 44295.0 | 100.0 |

Coefficient of Utilization

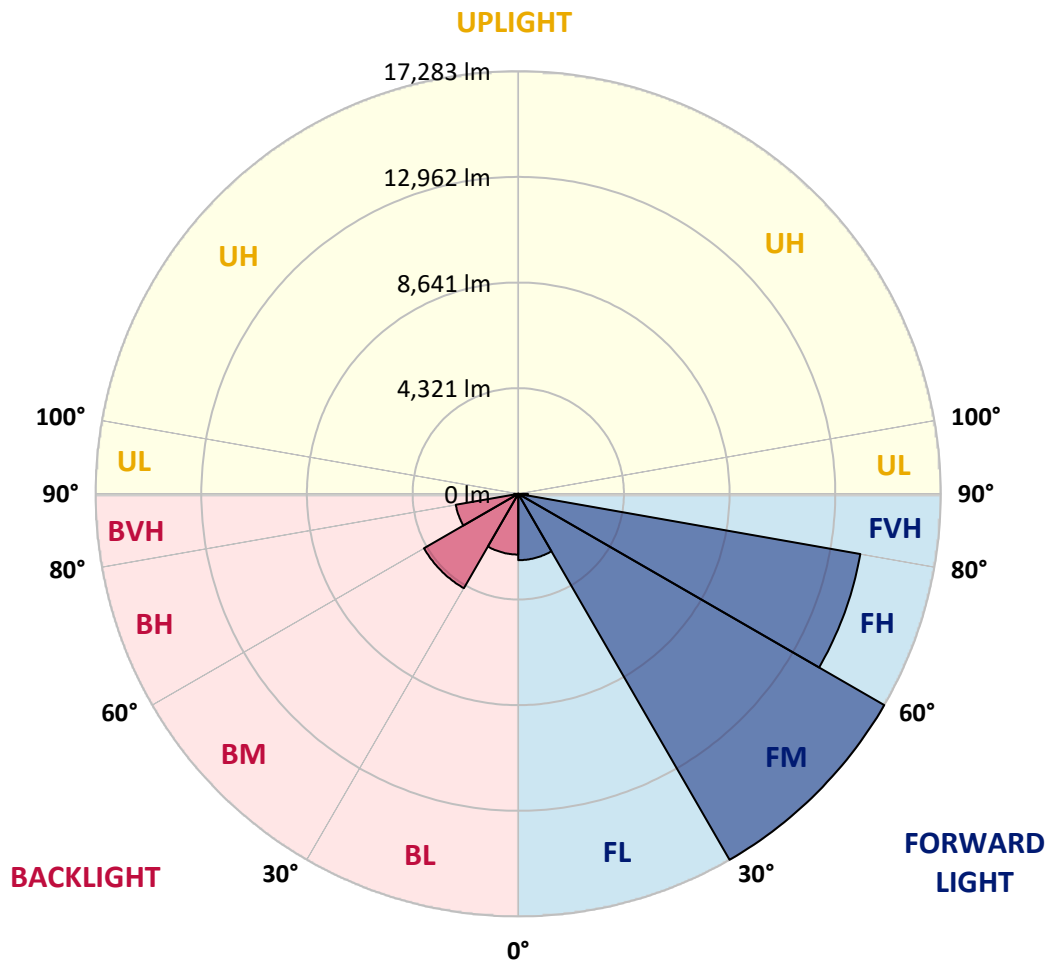


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2713.8 | 6.1 | | | |
| FM (30°-60°) | 17283.0 | 39.0 | | | |
| FH (60°-80°) | 14206.1 | 32.1 | | | G5 |
| FVH (80°-90°) | 392.2 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2485.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 4453.4 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2592.4 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 168.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 |
| 2.5° | 5696.4 | 5694.1 | 5723.6 | 5732.7 | 5787.1 | 5825.7 | 5898.3 | 5975.4 | 6075.2 | 6086.5 |
| 5° | 5367.4 | 5367.4 | 5401.4 | 5437.7 | 5508.1 | 5585.2 | 5696.4 | 5830.2 | 6002.6 | 6029.8 |
| 7.5° | 5088.4 | 5106.5 | 5136.0 | 5206.3 | 5288.0 | 5399.2 | 5569.3 | 5759.9 | 5986.7 | 6029.8 |
| 10° | 4863.8 | 4884.2 | 4920.5 | 4977.2 | 5099.7 | 5254.0 | 5476.3 | 5721.3 | 6025.3 | 6093.4 |
| 12.5° | 4793.5 | 4813.9 | 4834.3 | 4877.4 | 4990.8 | 5172.3 | 5437.7 | 5739.5 | 6118.3 | 6186.4 |
| 15° | 4956.8 | 4981.8 | 4965.9 | 4954.5 | 5013.5 | 5179.1 | 5455.9 | 5805.2 | 6234.0 | 6331.6 |
| 17.5° | 5333.4 | 5342.5 | 5306.2 | 5199.5 | 5190.5 | 5278.9 | 5542.1 | 5896.0 | 6379.2 | 6485.8 |
| 20° | 5941.4 | 5925.5 | 5850.6 | 5639.6 | 5519.4 | 5501.3 | 5689.5 | 6032.1 | 6528.9 | 6642.3 |
| 22.5° | 6767.1 | 6749.0 | 6599.2 | 6265.8 | 5998.1 | 5821.1 | 5902.8 | 6209.0 | 6696.8 | 6823.8 |
| 25° | 7797.0 | 7772.1 | 7552.0 | 7098.3 | 6683.2 | 6245.3 | 6193.2 | 6442.7 | 6903.2 | 7021.2 |
| 27.5° | 8999.4 | 8979.0 | 8740.8 | 8141.9 | 7543.0 | 6826.1 | 6553.9 | 6717.2 | 7118.7 | 7252.6 |
| 30° | 10292.5 | 10351.4 | 9929.5 | 9285.2 | 8527.5 | 7583.8 | 7039.3 | 7055.2 | 7397.8 | 7518.0 |
| 32.5° | 11812.4 | 11914.5 | 11406.3 | 10589.6 | 9555.2 | 8407.3 | 7651.9 | 7527.1 | 7803.8 | 7903.7 |
| 35° | 13318.7 | 13434.4 | 13012.5 | 12109.6 | 10918.6 | 9378.2 | 8291.6 | 8069.3 | 8343.8 | 8452.7 |
| 37.5° | 14620.9 | 14775.1 | 14557.3 | 13772.4 | 12377.3 | 10548.8 | 9126.4 | 8706.7 | 9008.5 | 9144.6 |
| 40° | 15648.5 | 15884.5 | 15868.6 | 15378.6 | 14096.8 | 11968.9 | 10185.8 | 9493.9 | 9834.2 | 9981.7 |
| 42.5° | 16483.4 | 16687.5 | 16864.5 | 16839.5 | 15891.3 | 13581.9 | 11431.3 | 10517.0 | 10775.7 | 10945.8 |
| 45° | 17059.6 | 17277.4 | 17658.5 | 18069.1 | 17617.6 | 15308.2 | 12858.2 | 11730.7 | 11966.7 | 12223.0 |
| 47.5° | 17574.5 | 17821.8 | 18316.4 | 18967.4 | 19083.1 | 17041.4 | 14421.2 | 13144.0 | 13359.5 | 13625.0 |
| 50° | 17619.9 | 17833.1 | 18599.9 | 19523.2 | 20124.4 | 18706.5 | 16100.0 | 14729.8 | 14931.7 | 15215.2 |
| 52.5° | 16524.2 | 16859.9 | 18198.4 | 19507.3 | 20603.1 | 20099.4 | 17767.4 | 16379.0 | 16605.9 | 16946.1 |
| 55° | 12826.4 | 13318.7 | 17021.0 | 18899.4 | 20432.9 | 21000.1 | 19353.1 | 18132.6 | 18423.0 | 18779.1 |
| 57.5° | 11047.9 | 11263.4 | 13511.5 | 17792.3 | 19657.1 | 21233.7 | 20691.5 | 19904.3 | 20371.7 | 20761.9 |
| 60° | 9929.5 | 10108.7 | 11438.1 | 16070.5 | 18636.2 | 20863.9 | 21726.0 | 21555.9 | 22363.5 | 22828.5 |
| 62.5° | 8731.7 | 8901.8 | 10111.0 | 13418.5 | 17329.5 | 20249.2 | 22379.3 | 23080.3 | 24405.2 | 24913.3 |
| 65° | 7543.0 | 7688.1 | 8847.4 | 11274.7 | 15668.9 | 19634.4 | 22717.4 | 24398.4 | 26294.9 | 26821.2 |
| 67.5° | 6218.1 | 6338.4 | 7434.1 | 9512.1 | 13649.9 | 18792.7 | 22885.2 | 25435.1 | 27939.6 | 28391.0 |
| 70° | 4487.2 | 4580.2 | 5712.2 | 7522.5 | 11115.9 | 17345.4 | 22817.2 | 26170.1 | 28792.6 | 29153.3 |
| 72.5° | 2121.1 | 2205.0 | 3534.4 | 4884.2 | 7851.5 | 14527.9 | 21440.2 | 25587.1 | 27926.0 | 27746.8 |
| 75° | 1132.0 | 1204.6 | 2030.4 | 2679.2 | 4146.9 | 9959.0 | 17545.0 | 22041.3 | 23450.1 | 22579.0 |
| 77.5° | 766.8 | 823.5 | 1256.8 | 1608.4 | 1894.2 | 4727.7 | 11277.0 | 15260.6 | 14682.1 | 13243.9 |
| 80° | 608.0 | 667.0 | 1029.9 | 1088.9 | 916.5 | 1708.2 | 4659.6 | 7064.3 | 5074.8 | 4058.5 |
| 82.5° | 467.3 | 533.1 | 866.6 | 789.5 | 499.1 | 701.0 | 1356.6 | 2234.5 | 1299.9 | 989.1 |
| 85° | 285.8 | 356.2 | 680.6 | 503.6 | 281.3 | 319.9 | 460.5 | 621.6 | 397.0 | 331.2 |
| 87.5° | 145.2 | 204.2 | 344.8 | 183.8 | 127.0 | 74.9 | 122.5 | 122.5 | 104.4 | 90.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6179.6 | 0° | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 | 6179.6 |
| 6147.8 | 2.5° | 6202.2 | 6247.6 | 6324.7 | 6397.3 | 6454.1 | 6508.5 | 6562.9 | 6592.4 | 6601.5 | 6637.8 |
| 6181.8 | 5° | 6274.8 | 6358.8 | 6508.5 | 6649.1 | 6737.6 | 6792.1 | 6830.6 | 6853.3 | 6857.9 | 6869.2 |
| 6274.8 | 7.5° | 6408.7 | 6542.5 | 6751.2 | 6891.9 | 6957.7 | 6953.1 | 6937.3 | 6880.5 | 6857.9 | 6837.4 |
| 6410.9 | 10° | 6597.0 | 6773.9 | 7030.3 | 7127.8 | 7087.0 | 6978.1 | 6837.4 | 6671.8 | 6594.7 | 6519.8 |
| 6597.0 | 12.5° | 6830.6 | 7055.2 | 7307.0 | 7302.5 | 7100.6 | 6821.6 | 6494.9 | 6240.8 | 6079.7 | 5964.0 |
| 6826.1 | 15° | 7114.2 | 7372.8 | 7565.6 | 7411.4 | 6969.0 | 6467.7 | 5989.0 | 5657.8 | 5512.6 | 5385.6 |
| 7057.5 | 17.5° | 7406.8 | 7683.6 | 7772.1 | 7377.4 | 6637.8 | 5943.6 | 5401.4 | 5140.6 | 4997.6 | 4929.6 |
| 7307.0 | 20° | 7692.7 | 7967.2 | 7894.6 | 7182.3 | 6134.2 | 5349.3 | 4866.1 | 4723.1 | 4693.6 | 4709.5 |
| 7549.8 | 22.5° | 7994.4 | 8239.4 | 7919.5 | 6805.7 | 5492.2 | 4741.3 | 4475.9 | 4480.4 | 4546.2 | 4593.8 |
| 7803.8 | 25° | 8302.9 | 8468.5 | 7853.8 | 6261.2 | 4802.5 | 4294.4 | 4228.6 | 4301.2 | 4430.5 | 4523.5 |
| 8089.7 | 27.5° | 8600.1 | 8672.7 | 7710.8 | 5587.5 | 4210.4 | 3974.5 | 3985.9 | 4135.6 | 4330.7 | 4460.0 |
| 8436.8 | 30° | 8935.9 | 8854.2 | 7436.3 | 4829.8 | 3799.8 | 3700.0 | 3795.3 | 3970.0 | 4165.1 | 4280.8 |
| 8874.6 | 32.5° | 9314.7 | 9010.7 | 7000.8 | 4128.8 | 3509.5 | 3480.0 | 3636.5 | 3749.9 | 3836.1 | 3870.2 |
| 9455.4 | 35° | 9786.6 | 9230.8 | 6442.7 | 3636.5 | 3248.6 | 3318.9 | 3468.6 | 3411.9 | 3377.9 | 3359.7 |
| 10235.7 | 37.5° | 10399.1 | 9528.0 | 5789.4 | 3316.6 | 3037.6 | 3203.2 | 3264.5 | 3087.5 | 2953.7 | 2887.9 |
| 11181.7 | 40° | 11136.4 | 9963.5 | 5161.0 | 3069.4 | 2903.8 | 3103.4 | 2996.8 | 2783.5 | 2613.4 | 2520.4 |
| 12245.7 | 42.5° | 11955.3 | 10419.5 | 4632.4 | 2883.3 | 2828.9 | 3021.7 | 2799.4 | 2545.3 | 2270.8 | 2241.3 |
| 13513.8 | 45° | 12815.1 | 10889.1 | 4271.7 | 2740.4 | 2792.6 | 2951.4 | 2686.0 | 2275.4 | 2080.3 | 2200.5 |
| 14786.5 | 47.5° | 13674.9 | 11320.1 | 4053.9 | 2633.8 | 2774.4 | 2872.0 | 2586.2 | 2125.6 | 1987.3 | 2161.9 |
| 16149.9 | 50° | 14632.2 | 11705.8 | 3956.4 | 2556.7 | 2754.0 | 2840.2 | 2436.4 | 2087.1 | 1889.7 | 2005.4 |
| 17560.9 | 52.5° | 15582.7 | 12005.2 | 3883.8 | 2479.5 | 2724.5 | 2815.3 | 2363.8 | 2041.7 | 1771.7 | 1778.6 |
| 18981.0 | 55° | 16531.0 | 12200.3 | 3804.4 | 2377.5 | 2658.8 | 2760.8 | 2357.0 | 1991.8 | 1683.3 | 1651.5 |
| 20482.8 | 57.5° | 17542.8 | 12311.5 | 3706.8 | 2264.0 | 2545.3 | 2622.5 | 2350.2 | 1953.2 | 1656.0 | 1603.9 |
| 22018.6 | 60° | 18572.7 | 12474.8 | 3579.8 | 2125.6 | 2393.3 | 2456.9 | 2334.3 | 1939.6 | 1640.2 | 1551.7 |
| 23466.0 | 62.5° | 19496.0 | 12531.5 | 3427.8 | 1994.1 | 2198.2 | 2293.5 | 2300.3 | 1928.3 | 1597.1 | 1445.1 |
| 24668.3 | 65° | 20101.7 | 12286.5 | 3162.4 | 1844.3 | 1987.3 | 2125.6 | 2234.5 | 1889.7 | 1519.9 | 1367.9 |
| 25262.7 | 67.5° | 20076.8 | 11587.8 | 2747.2 | 1651.5 | 1783.1 | 1939.6 | 2139.3 | 1823.9 | 1426.9 | 1272.7 |
| 24813.5 | 70° | 19142.1 | 10208.5 | 2220.9 | 1426.9 | 1558.5 | 1740.0 | 2016.7 | 1726.4 | 1315.8 | 1168.3 |
| 22064.0 | 72.5° | 16417.6 | 7989.9 | 1612.9 | 1163.8 | 1297.6 | 1533.5 | 1858.0 | 1608.4 | 1202.3 | 1075.3 |
| 16306.4 | 75° | 11728.5 | 5056.6 | 1093.4 | 893.8 | 1009.5 | 1299.9 | 1660.6 | 1470.0 | 1098.0 | 1079.8 |
| 8166.8 | 77.5° | 5991.3 | 2416.0 | 723.7 | 653.3 | 703.3 | 1025.4 | 1395.2 | 1313.5 | 1113.9 | 891.5 |
| 2323.0 | 80° | 1948.7 | 891.5 | 456.0 | 444.6 | 467.3 | 682.8 | 1079.8 | 1077.6 | 843.9 | 605.7 |
| 562.6 | 82.5° | 621.6 | 383.4 | 297.2 | 285.8 | 274.5 | 428.8 | 753.2 | 853.0 | 569.4 | 383.4 |
| 201.9 | 85° | 247.3 | 229.1 | 174.7 | 161.1 | 115.7 | 201.9 | 394.7 | 567.1 | 424.2 | 276.8 |
| 52.2 | 87.5° | 90.7 | 90.7 | 47.6 | 34.0 | 25.0 | 68.1 | 106.6 | 170.1 | 242.7 | 142.9 |
| 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> |
|---------------|
| 6179.6 |
| 6658.2 |
| 6887.3 |
| 6842.0 |
| 6497.2 |
| 5936.8 |
| 5371.9 |
| 4950.0 |
| 4702.7 |
| 4605.2 |
| 4548.5 |
| 4491.7 |
| 4308.0 |
| 3888.3 |
| 3377.9 |
| 2903.8 |
| 2527.2 |
| 2270.8 |
| 2264.0 |
| 2243.6 |
| 2091.6 |
| 1826.2 |
| 1674.2 |
| 1610.7 |
| 1558.5 |
| 1445.1 |
| 1367.9 |
| 1279.5 |
| <i>1181.9</i> |
| 1068.5 |
| 1018.6 |
| 794.0 |
| 535.4 |
| 381.1 |
| 283.6 |
| 140.7 |
| 0.0 |

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