

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: P942025

Luminaire Tested: **GLAN-SB5D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45766 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

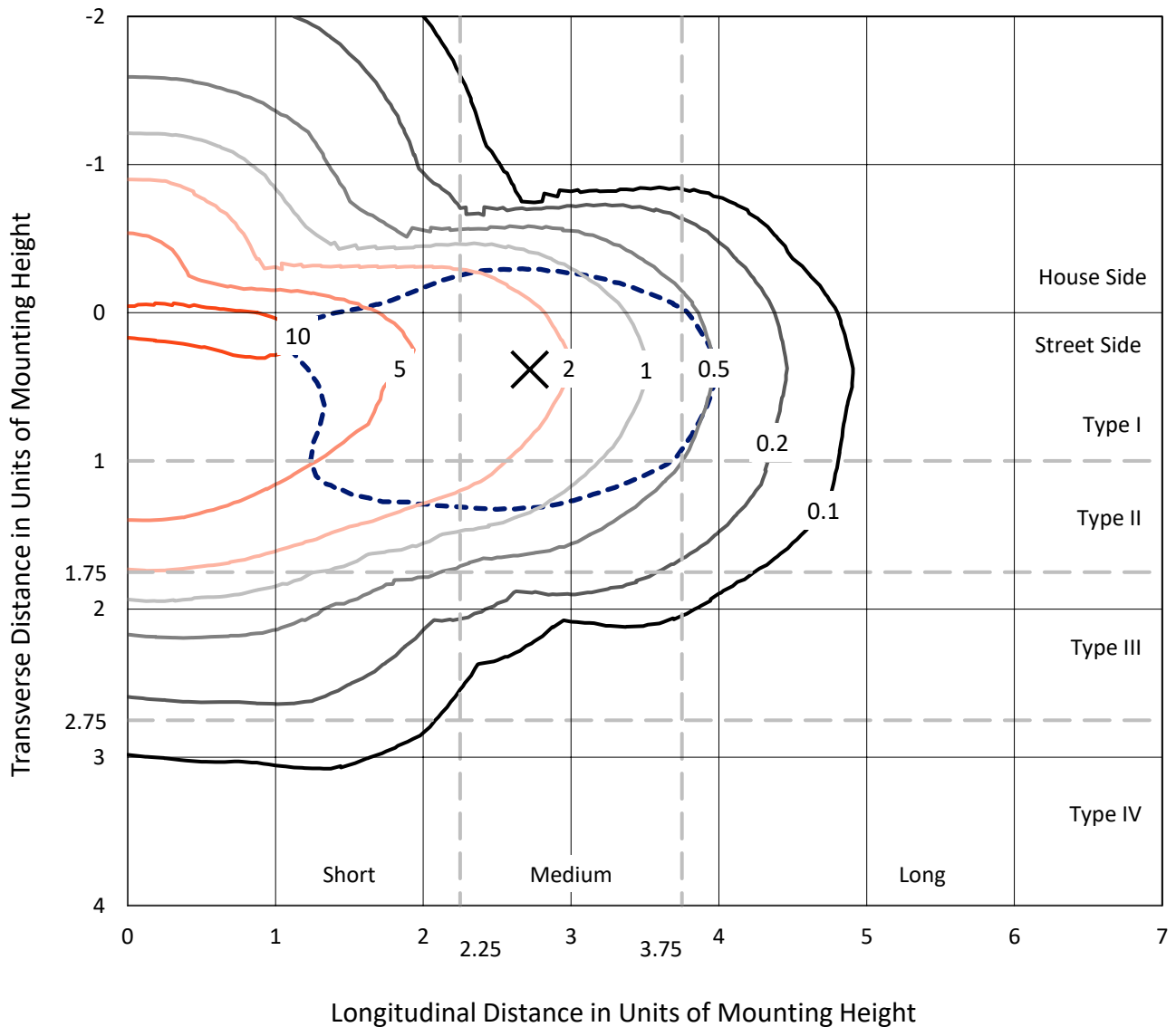
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

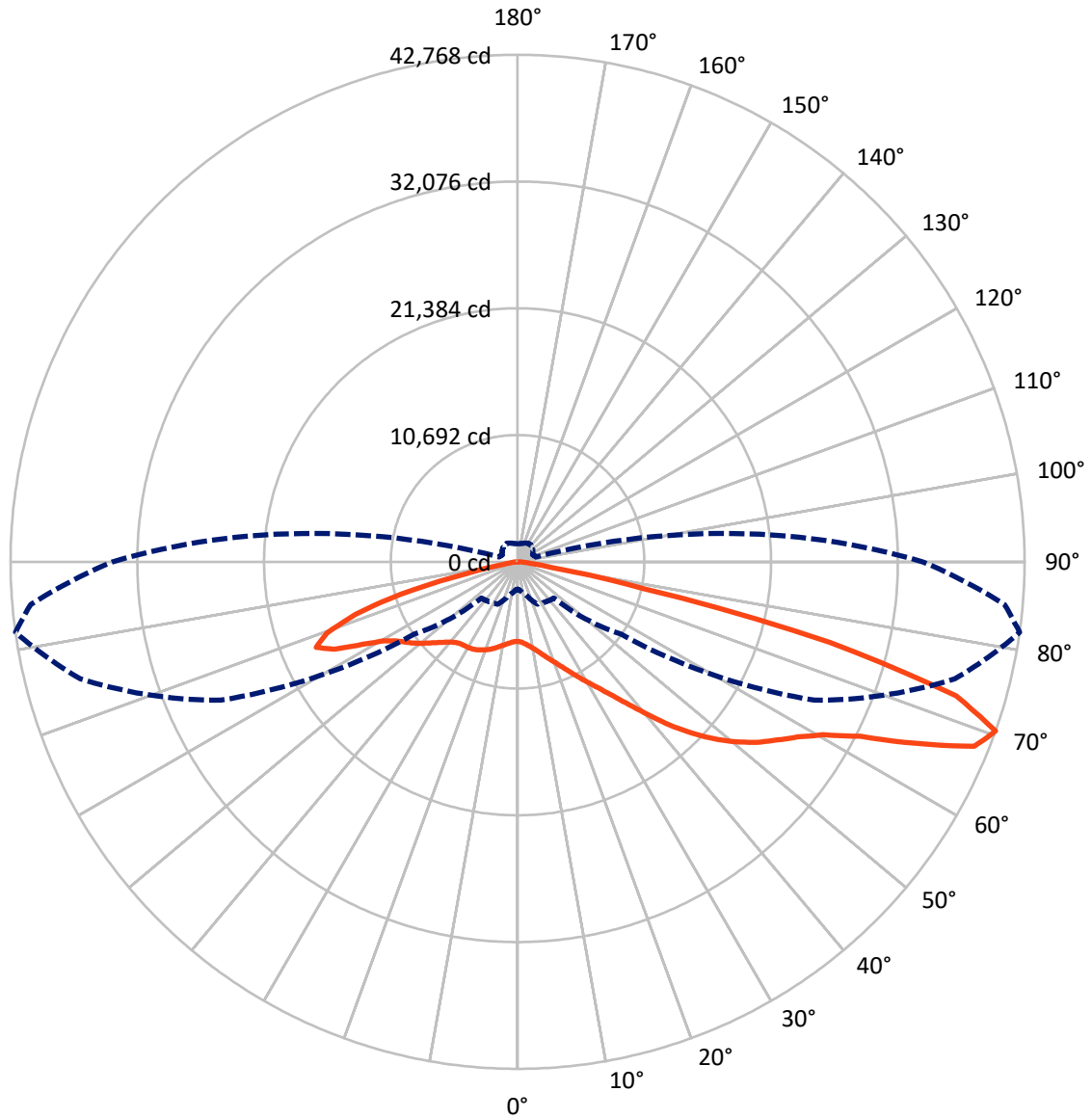
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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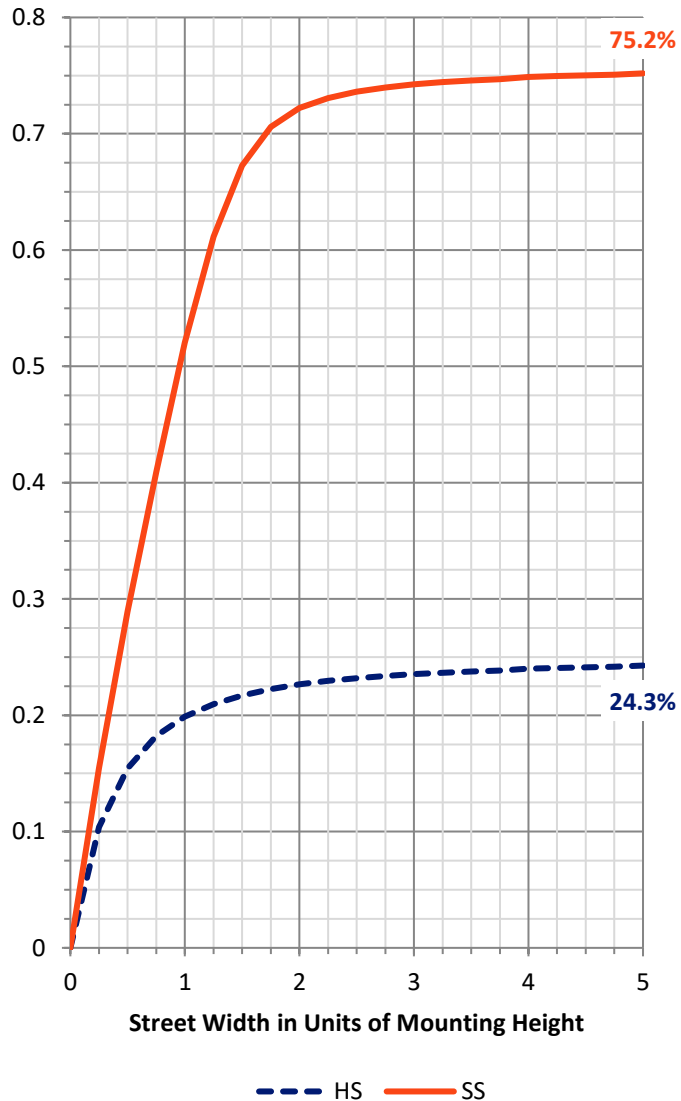
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11282.4 | 0.0 | 11282.4 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 34483.6 | 0.0 | 34483.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 45766.0 | 0.0 | 45766.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 633.5 | 1.4 |
| 10°-20° | 1820.2 | 4.0 |
| 20°-30° | 3045.0 | 6.7 |
| 30°-40° | 4757.0 | 10.4 |
| 40°-50° | 7576.1 | 16.6 |
| 50°-60° | 10543.1 | 23.0 |
| 60°-70° | 11028.5 | 24.1 |
| 70°-80° | 5764.1 | 12.6 |
| 80°-90° | 598.5 | 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° | 45766.0 | 100.0 |
| 0°-180° | 45766.0 | 100.0 |

Coefficient of Utilization



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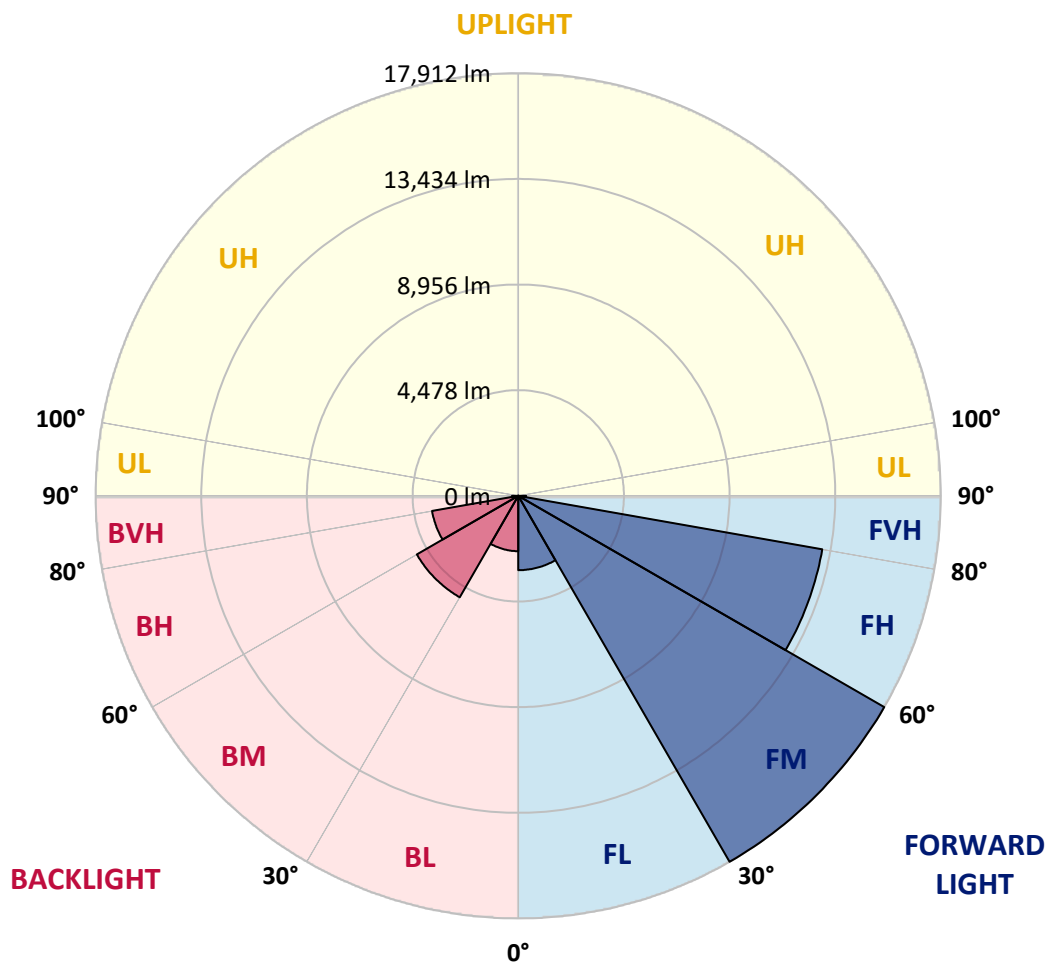
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3151.5 | 6.9 | | | |
| FM (30°-60°) | 17912.4 | 39.1 | | | |
| FH (60°-80°) | 13084.6 | 28.6 | | | G5 |
| FVH (80°-90°) | 335.1 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2347.2 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 4963.8 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 3708.0 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 263.5 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 |
| 2.5° | 6870.1 | 6909.0 | 6896.9 | 6884.7 | 6884.7 | 6867.7 | 6865.3 | 6841.0 | 6821.6 | 6790.0 |
| 5° | 6957.6 | 6998.9 | 6994.0 | 7003.7 | 7035.3 | 7042.6 | 7049.9 | 7035.3 | 6996.4 | 6957.6 |
| 7.5° | 6879.9 | 6926.0 | 6940.6 | 6998.9 | 7096.0 | 7183.4 | 7249.0 | 7275.7 | 7239.3 | 7183.4 |
| 10° | 6617.6 | 6668.6 | 6719.6 | 6858.0 | 7030.4 | 7236.8 | 7411.7 | 7516.1 | 7508.8 | 7455.4 |
| 12.5° | 6085.8 | 6139.2 | 6248.5 | 6518.0 | 6833.7 | 7198.0 | 7523.4 | 7742.0 | 7817.3 | 7778.4 |
| 15° | 5660.8 | 5706.9 | 5789.5 | 6066.3 | 6476.7 | 7030.4 | 7564.7 | 7989.7 | 8181.5 | 8159.7 |
| 17.5° | 5648.6 | 5668.1 | 5719.1 | 5850.2 | 6165.9 | 6768.2 | 7521.0 | 8232.5 | 8599.2 | 8596.8 |
| 20° | 5862.3 | 5869.6 | 5898.8 | 5925.5 | 6105.2 | 6569.0 | 7409.3 | 8434.1 | 9067.9 | 9067.9 |
| 22.5° | 6158.6 | 6153.7 | 6182.9 | 6158.6 | 6246.0 | 6552.0 | 7338.8 | 8611.4 | 9590.0 | 9628.9 |
| 25° | 6603.0 | 6578.7 | 6571.4 | 6515.6 | 6532.6 | 6709.9 | 7416.6 | 8812.9 | 10209.3 | 10289.4 |
| 27.5° | 7195.6 | 7156.7 | 7130.0 | 7001.3 | 6957.6 | 7035.3 | 7654.5 | 9055.8 | 10899.0 | 11037.4 |
| 30° | 7967.8 | 7897.4 | 7858.5 | 7635.1 | 7477.3 | 7489.4 | 8014.0 | 9378.8 | 11620.2 | 11843.7 |
| 32.5° | 9021.8 | 8912.5 | 8808.1 | 8441.4 | 8152.4 | 8057.7 | 8477.8 | 9825.6 | 12402.2 | 12759.2 |
| 35° | 10202.0 | 10114.6 | 10002.9 | 9437.0 | 8992.6 | 8774.1 | 9104.3 | 10449.7 | 13317.7 | 13883.6 |
| 37.5° | 11338.5 | 11263.3 | 11316.7 | 10554.1 | 9981.0 | 9662.9 | 9925.2 | 11287.5 | 14447.0 | 15282.4 |
| 40° | 12513.9 | 12455.6 | 12462.9 | 11734.4 | 11066.5 | 10709.6 | 10920.8 | 12339.1 | 15741.4 | 16945.9 |
| 42.5° | 13791.3 | 13747.6 | 13601.9 | 12955.9 | 12205.5 | 11872.8 | 12067.1 | 13553.3 | 17130.4 | 18840.1 |
| 45° | 15221.7 | 15194.9 | 15059.0 | 14318.3 | 13458.6 | 13084.6 | 13346.9 | 14893.8 | 18526.8 | 20622.6 |
| 47.5° | 16457.8 | 16479.6 | 16462.6 | 15838.5 | 14947.2 | 14398.4 | 14711.7 | 16292.6 | 19826.0 | 22298.2 |
| 50° | 17052.7 | 17166.9 | 17334.4 | 17140.2 | 16586.5 | 16027.9 | 16088.6 | 17642.8 | 21064.6 | 23869.5 |
| 52.5° | 16741.9 | 16958.0 | 17414.6 | 17725.4 | 17939.1 | 17822.6 | 17659.8 | 18983.4 | 22230.2 | 25287.7 |
| 55° | 15583.5 | 15887.1 | 16644.7 | 17395.1 | 18485.5 | 19333.1 | 19546.8 | 20469.6 | 23366.8 | 26535.9 |
| 57.5° | 13473.2 | 13966.1 | 14646.1 | 16163.9 | 17999.8 | 20064.0 | 21747.0 | 22531.4 | 24571.3 | 27869.1 |
| 60° | 9854.7 | 10515.3 | 11360.4 | 13618.9 | 16299.9 | 19673.1 | 23619.3 | 25698.1 | 26283.4 | 29595.8 |
| 62.5° | 6306.7 | 6714.7 | 7491.8 | 9619.2 | 12700.9 | 17669.6 | 24192.4 | 29656.5 | 29185.4 | 32427.4 |
| 65° | 4317.8 | 4580.1 | 5291.6 | 6486.4 | 8210.7 | 13152.6 | 22657.6 | 32624.1 | 33794.6 | 36915.2 |
| 67.5° | 3137.6 | 3336.7 | 3943.8 | 4990.5 | 5349.9 | 7783.3 | 17582.1 | 32488.1 | 38275.1 | 41539.0 |
| 70° | 2287.6 | 2428.5 | 2938.5 | 3943.8 | 4116.3 | 4330.0 | 10651.3 | 27616.6 | 38178.0 | 42767.8 |
| 72.5° | 1695.1 | 1792.2 | 2134.6 | 3059.9 | 3331.9 | 2923.9 | 5272.2 | 20071.3 | 32806.2 | 38683.1 |
| 75° | 1226.4 | 1299.2 | 1551.8 | 2341.0 | 2666.5 | 2226.9 | 2630.0 | 11729.5 | 22883.5 | 27211.0 |
| 77.5° | 937.4 | 993.2 | 1158.4 | 1714.5 | 2134.6 | 1670.8 | 1631.9 | 5396.1 | 10850.4 | 10903.8 |
| 80° | 752.8 | 789.3 | 879.1 | 1207.0 | 1636.8 | 1250.7 | 1063.7 | 2178.3 | 3429.0 | 2902.0 |
| 82.5° | 553.7 | 614.4 | 743.1 | 847.5 | 1170.5 | 862.1 | 648.4 | 1100.1 | 1304.1 | 1122.0 |
| 85° | 315.7 | 357.0 | 449.3 | 607.1 | 748.0 | 527.0 | 371.6 | 488.1 | 607.1 | 497.8 |
| 87.5° | 111.7 | 145.7 | 157.9 | 238.0 | 325.4 | 218.6 | 143.3 | 140.9 | 199.1 | 148.1 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6709.9 | 0° | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 | 6709.9 |
| 6782.7 | 2.5° | 6758.4 | 6746.3 | 6697.7 | 6632.2 | 6564.2 | 6498.6 | 6476.7 | 6430.6 | 6399.0 | 6382.0 |
| 6940.6 | 5° | 6894.4 | 6855.6 | 6741.4 | 6595.7 | 6442.7 | 6277.6 | 6161.0 | 6054.2 | 5976.5 | 5903.6 |
| 7156.7 | 7.5° | 7088.7 | 7020.7 | 6824.0 | 6569.0 | 6297.0 | 6022.6 | 5818.6 | 5663.2 | 5558.8 | 5490.8 |
| 7409.3 | 10° | 7314.6 | 7210.1 | 6909.0 | 6527.7 | 6107.6 | 5714.2 | 5473.8 | 5340.2 | 5274.6 | 5238.2 |
| 7698.3 | 12.5° | 7574.4 | 7426.3 | 6996.4 | 6433.0 | 5818.6 | 5369.4 | 5204.2 | 5165.4 | 5167.8 | 5170.2 |
| 8062.5 | 15° | 7895.0 | 7688.5 | 7066.9 | 6226.6 | 5442.2 | 5104.6 | 5075.5 | 5138.6 | 5204.2 | 5235.8 |
| 8475.4 | 17.5° | 8256.8 | 7965.4 | 7079.0 | 5886.6 | 5073.1 | 4934.7 | 5026.9 | 5162.9 | 5262.5 | 5306.2 |
| 8936.8 | 20° | 8645.4 | 8247.1 | 6991.6 | 5405.8 | 4769.5 | 4796.2 | 4961.4 | 5136.2 | 5245.5 | 5301.4 |
| 9463.8 | 22.5° | 9089.8 | 8548.2 | 6782.7 | 4900.7 | 4521.8 | 4645.7 | 4839.9 | 5009.9 | 5124.1 | 5179.9 |
| 10083.0 | 25° | 9597.3 | 8885.8 | 6454.9 | 4475.7 | 4308.1 | 4475.7 | 4670.0 | 4810.8 | 4903.1 | 4954.1 |
| 10775.1 | 27.5° | 10160.7 | 9237.9 | 6017.8 | 4138.1 | 4121.1 | 4300.8 | 4461.1 | 4570.4 | 4619.0 | 4657.8 |
| 11511.0 | 30° | 10726.6 | 9558.5 | 5488.3 | 3883.1 | 3958.4 | 4128.4 | 4242.5 | 4291.1 | 4305.7 | 4313.0 |
| 12331.8 | 32.5° | 11338.5 | 9835.3 | 4932.2 | 3671.8 | 3803.0 | 3960.8 | 4028.8 | 4050.7 | 3982.7 | 3936.6 |
| 13327.5 | 35° | 12079.2 | 10131.6 | 4388.2 | 3504.3 | 3650.0 | 3786.0 | 3807.8 | 3788.4 | 3708.3 | 3613.6 |
| 14575.7 | 37.5° | 12994.8 | 10500.7 | 3953.6 | 3385.3 | 3506.7 | 3596.6 | 3569.9 | 3565.0 | 3572.3 | 3460.6 |
| 16076.5 | 40° | 14116.7 | 10981.5 | 3635.4 | 3293.0 | 3390.1 | 3409.6 | 3334.3 | 3375.6 | 3412.0 | 3242.0 |
| 17723.0 | 42.5° | 15362.5 | 11562.0 | 3433.9 | 3229.9 | 3293.0 | 3246.9 | 3130.3 | 3176.4 | 3171.6 | 2948.2 |
| 19376.8 | 45° | 16632.6 | 12193.4 | 3363.4 | 3183.7 | 3203.2 | 3110.9 | 2982.2 | 2994.3 | 2892.3 | 2690.7 |
| 20962.6 | 47.5° | 17895.4 | 12870.9 | 3407.1 | 3144.9 | 3091.4 | 2987.0 | 2887.5 | 2834.0 | 2683.5 | 2532.9 |
| 22482.8 | 50° | 19133.9 | 13582.4 | 3567.4 | 3067.2 | 2938.5 | 2877.7 | 2804.9 | 2710.2 | 2549.9 | 2421.2 |
| 23920.4 | 52.5° | 20282.6 | 14298.8 | 3747.1 | 2938.5 | 2746.6 | 2783.0 | 2736.9 | 2627.6 | 2469.8 | 2338.6 |
| 25280.4 | 55° | 21370.6 | 15015.2 | 3817.6 | 2761.2 | 2566.9 | 2700.5 | 2673.7 | 2472.2 | 2282.8 | 2175.9 |
| 26703.5 | 57.5° | 22555.6 | 15877.3 | 3739.8 | 2535.3 | 2421.2 | 2605.8 | 2503.8 | 2280.3 | 2171.1 | 2090.9 |
| 28556.4 | 60° | 24197.3 | 17230.0 | 3572.3 | 2256.1 | 2282.8 | 2464.9 | 2290.0 | 2197.8 | 2078.8 | 1988.9 |
| 31334.6 | 62.5° | 26924.5 | 19753.2 | 3302.7 | 1979.2 | 2120.1 | 2256.1 | 2188.1 | 2095.8 | 1974.3 | 1886.9 |
| 36084.7 | 65° | 30955.7 | 23259.9 | 2795.2 | 1763.1 | 1937.9 | 2052.1 | 2078.8 | 1986.5 | 1860.2 | 1767.9 |
| 40247.1 | 67.5° | 34355.6 | 25460.1 | 2115.2 | 1583.4 | 1750.9 | 1886.9 | 1962.2 | 1872.4 | 1738.8 | 1648.9 |
| 41220.9 | 70° | 34168.6 | 23862.2 | 1614.9 | 1406.1 | 1585.8 | 1724.2 | 1821.4 | 1750.9 | 1607.6 | 1522.7 |
| 37442.2 | 72.5° | 30348.6 | 19962.0 | 1306.5 | 1226.4 | 1418.2 | 1554.2 | 1670.8 | 1617.4 | 1471.7 | 1389.1 |
| 27429.6 | 75° | 22295.8 | 14170.1 | 1044.2 | 1044.2 | 1209.4 | 1376.9 | 1505.7 | 1471.7 | 1338.1 | 1279.8 |
| 11515.8 | 77.5° | 9398.2 | 5944.9 | 818.4 | 867.0 | 1005.4 | 1182.7 | 1342.9 | 1355.1 | 1238.5 | 1311.4 |
| 3045.3 | 80° | 2498.9 | 1639.2 | 624.1 | 682.4 | 789.3 | 976.2 | 1168.1 | 1163.2 | 1037.0 | 969.0 |
| 1131.7 | 82.5° | 952.0 | 646.0 | 444.4 | 480.8 | 570.7 | 748.0 | 925.2 | 954.4 | 828.1 | 716.4 |
| 444.4 | 85° | 366.7 | 276.8 | 274.4 | 289.0 | 332.7 | 495.4 | 699.4 | 723.7 | 624.1 | 529.4 |
| 123.9 | 87.5° | 94.7 | 82.6 | 102.0 | 97.1 | 153.0 | 264.7 | 400.7 | 415.3 | 381.3 | 221.0 |
| 0.0 | 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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| 180° |
|--------|
| 6709.9 |
| 6401.5 |
| 5932.8 |
| 5505.3 |
| 5247.9 |
| 5175.1 |
| 5233.4 |
| 5315.9 |
| 5315.9 |
| 5194.5 |
| 4968.7 |
| 4672.4 |
| 4330.0 |
| 3951.1 |
| 3618.4 |
| 3467.9 |
| 3246.9 |
| 2945.7 |
| 2698.0 |
| 2532.9 |
| 2411.5 |
| 2341.0 |
| 2166.2 |
| 2083.6 |
| 1984.1 |
| 1886.9 |
| 1772.8 |
| 1651.4 |
| 1529.9 |
| 1389.1 |
| 1262.8 |
| 1190.0 |
| 901.0 |
| 716.4 |
| 546.4 |
| 315.7 |
| 0.0 |

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