

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: P948985

Luminaire Tested: **GLAN-SB3D-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948985
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-SB3D-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29981 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

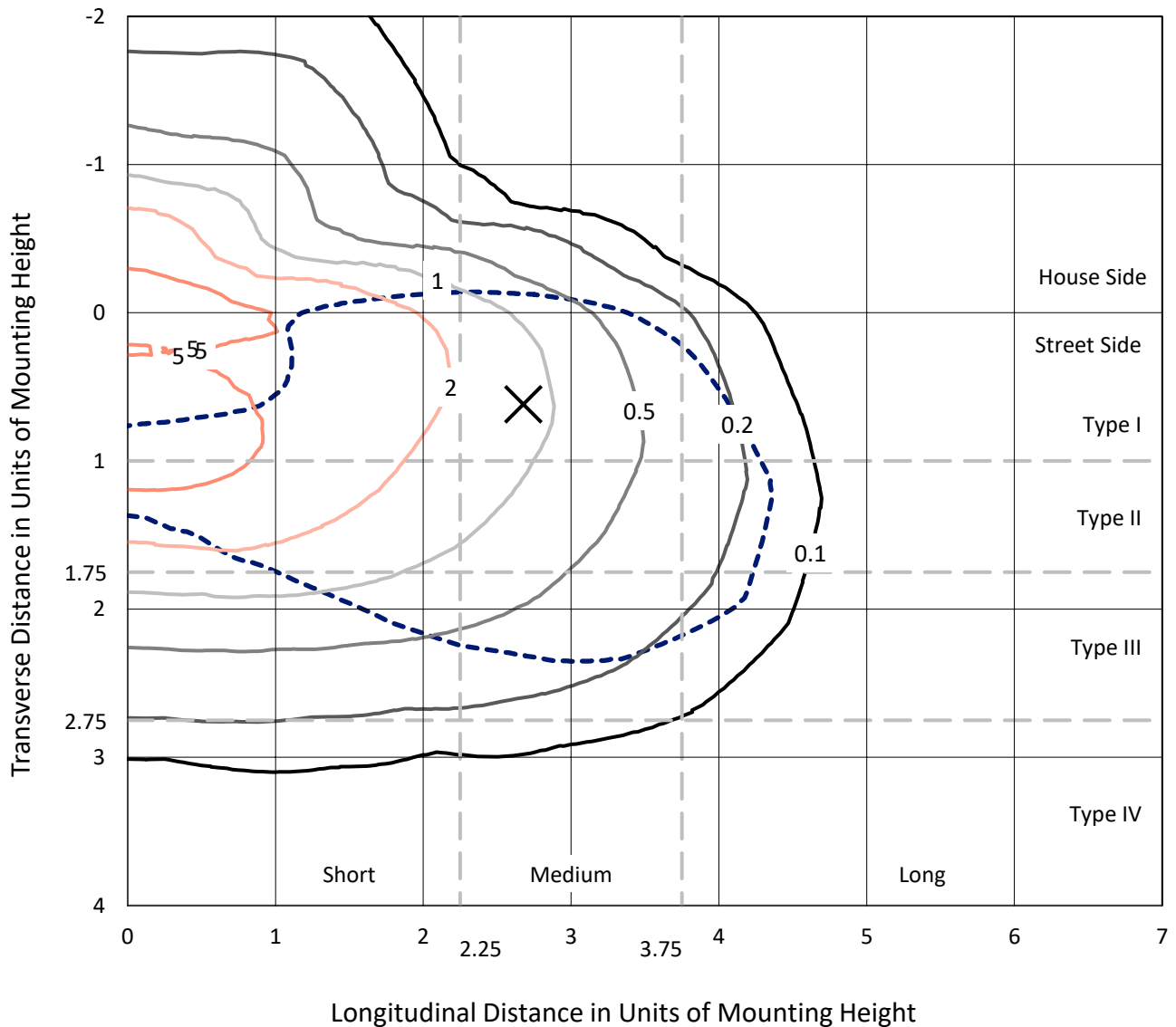
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

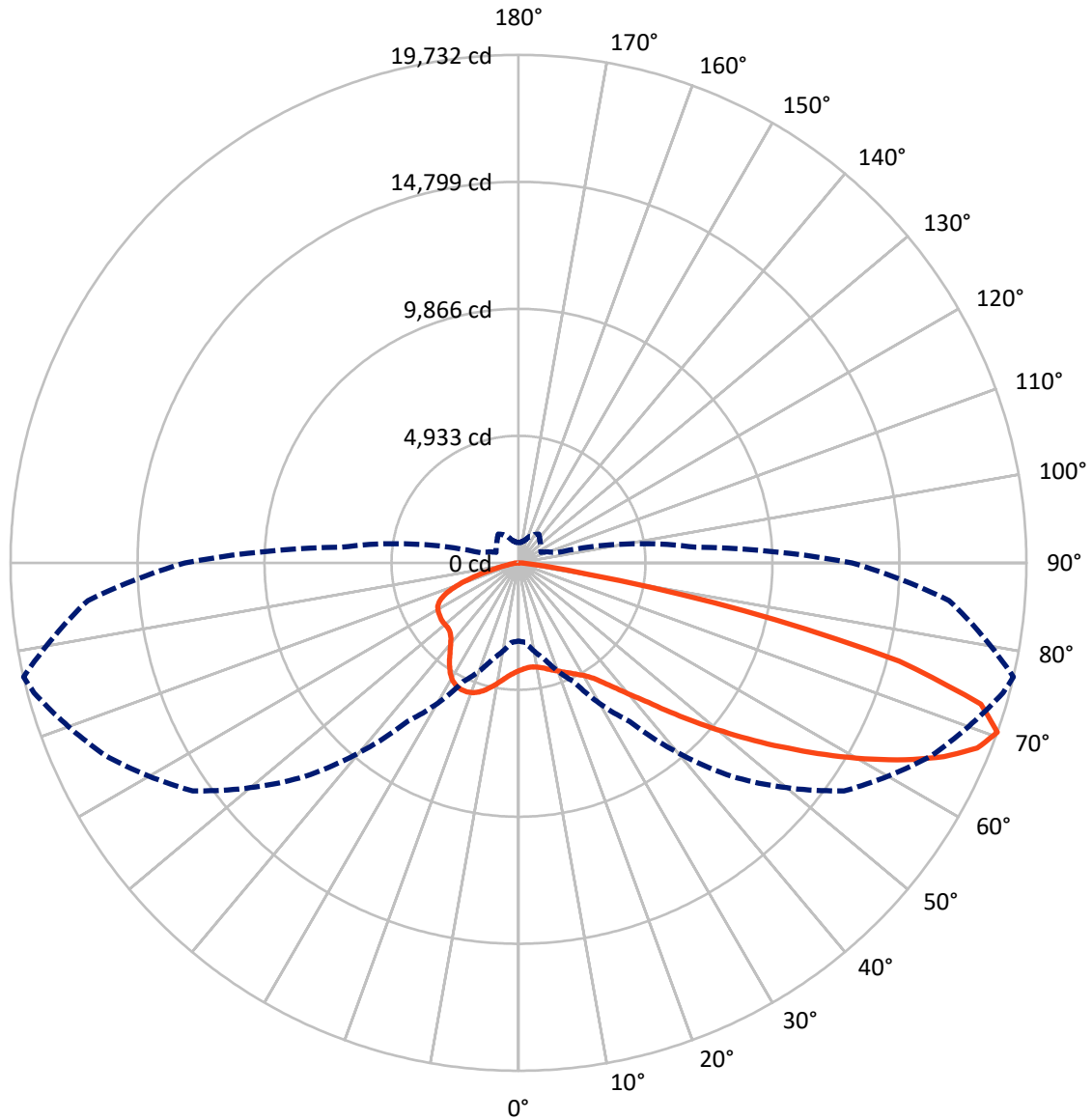
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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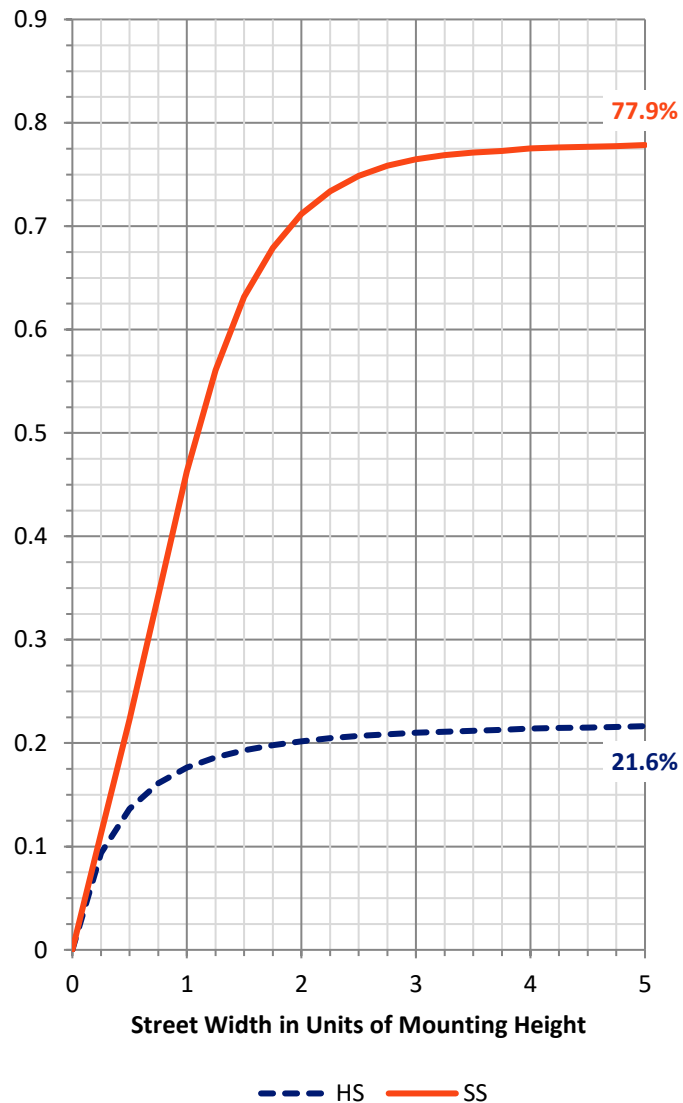
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6565.4 | 0.0 | 6565.4 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 23415.6 | 0.0 | 23415.6 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 29981.0 | 0.0 | 29981.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 398.9 | 1.3 |
| 10°-20° | 1151.3 | 3.8 |
| 20°-30° | 1968.9 | 6.6 |
| 30°-40° | 3166.1 | 10.6 |
| 40°-50° | 4943.2 | 16.5 |
| 50°-60° | 6602.9 | 22.0 |
| 60°-70° | 7037.7 | 23.5 |
| 70°-80° | 4332.4 | 14.5 |
| 80°-90° | 379.6 | 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° | 29981.0 | 100.0 |
| 0°-180° | 29981.0 | 100.0 |

Coefficient of Utilization

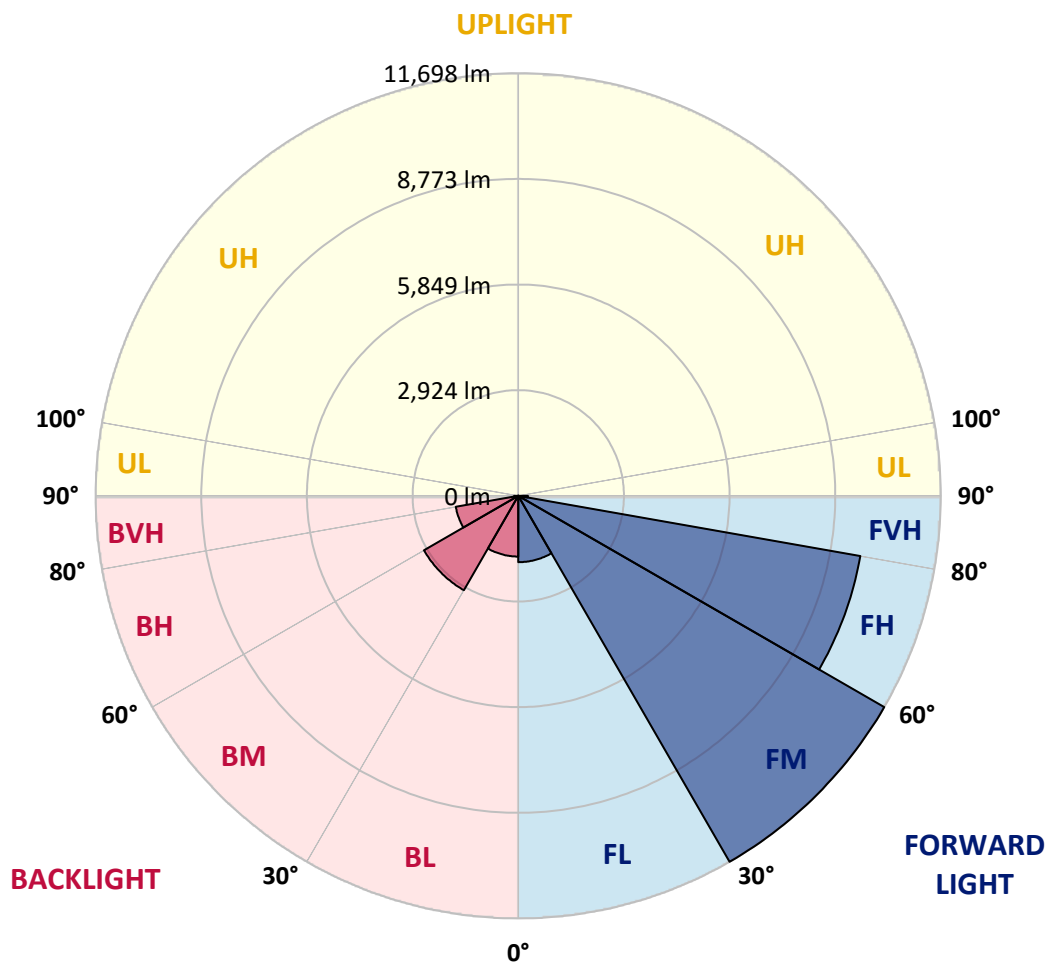


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1836.8 | 6.1 | | | |
| FM (30°-60°) | 11697.9 | 39.0 | | | |
| FH (60°-80°) | 9615.4 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 265.5 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1682.3 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 3014.3 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1754.6 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 114.2 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 |
| 2.5° | 3855.6 | 3854.0 | 3874.0 | 3880.1 | 3917.0 | 3943.1 | 3992.2 | 4044.4 | 4112.0 | 4119.7 |
| 5° | 3632.9 | 3632.9 | 3656.0 | 3680.5 | 3728.1 | 3780.3 | 3855.6 | 3946.2 | 4062.9 | 4081.3 |
| 7.5° | 3444.1 | 3456.3 | 3476.3 | 3523.9 | 3579.2 | 3654.4 | 3769.6 | 3898.6 | 4052.1 | 4081.3 |
| 10° | 3292.0 | 3305.9 | 3330.4 | 3368.8 | 3451.7 | 3556.2 | 3706.6 | 3872.5 | 4078.2 | 4124.3 |
| 12.5° | 3244.5 | 3258.3 | 3272.1 | 3301.3 | 3378.0 | 3500.9 | 3680.5 | 3884.7 | 4141.2 | 4187.2 |
| 15° | 3355.0 | 3371.9 | 3361.1 | 3353.5 | 3393.4 | 3505.5 | 3692.8 | 3929.3 | 4219.5 | 4285.5 |
| 17.5° | 3609.9 | 3616.0 | 3591.5 | 3519.3 | 3513.2 | 3573.0 | 3751.2 | 3990.7 | 4317.7 | 4389.9 |
| 20° | 4021.4 | 4010.7 | 3960.0 | 3817.2 | 3735.8 | 3723.5 | 3851.0 | 4082.8 | 4419.1 | 4495.9 |
| 22.5° | 4580.3 | 4568.0 | 4466.7 | 4241.0 | 4059.8 | 3940.0 | 3995.3 | 4202.6 | 4532.7 | 4618.7 |
| 25° | 5277.4 | 5260.5 | 5111.6 | 4804.5 | 4523.5 | 4227.2 | 4191.8 | 4360.7 | 4672.4 | 4752.3 |
| 27.5° | 6091.2 | 6077.4 | 5916.2 | 5510.8 | 5105.4 | 4620.2 | 4436.0 | 4546.5 | 4818.3 | 4908.9 |
| 30° | 6966.4 | 7006.4 | 6720.8 | 6284.7 | 5771.8 | 5133.1 | 4764.6 | 4775.3 | 5007.2 | 5088.6 |
| 32.5° | 7995.2 | 8064.3 | 7720.3 | 7167.6 | 6467.4 | 5690.5 | 5179.1 | 5094.7 | 5282.0 | 5349.6 |
| 35° | 9014.8 | 9093.1 | 8807.5 | 8196.3 | 7390.2 | 6347.6 | 5612.1 | 5461.7 | 5647.5 | 5721.2 |
| 37.5° | 9896.1 | 10000.5 | 9853.1 | 9321.8 | 8377.5 | 7139.9 | 6177.2 | 5893.1 | 6097.4 | 6189.5 |
| 40° | 10591.7 | 10751.4 | 10740.6 | 10409.0 | 9541.4 | 8101.1 | 6894.3 | 6425.9 | 6656.3 | 6756.1 |
| 42.5° | 11156.7 | 11294.9 | 11414.7 | 11397.8 | 10756.0 | 9192.9 | 7737.2 | 7118.4 | 7293.5 | 7408.6 |
| 45° | 11546.7 | 11694.1 | 11952.1 | 12230.0 | 11924.5 | 10361.4 | 8703.0 | 7939.9 | 8099.6 | 8273.1 |
| 47.5° | 11895.3 | 12062.7 | 12397.4 | 12838.1 | 12916.4 | 11534.5 | 9761.0 | 8896.5 | 9042.4 | 9222.0 |
| 50° | 11926.0 | 12070.3 | 12589.3 | 13214.3 | 13621.2 | 12661.5 | 10897.2 | 9969.8 | 10106.5 | 10298.4 |
| 52.5° | 11184.4 | 11411.6 | 12317.5 | 13203.5 | 13945.1 | 13604.3 | 12025.8 | 11086.1 | 11239.6 | 11470.0 |
| 55° | 8681.6 | 9014.8 | 11520.6 | 12792.0 | 13830.0 | 14213.9 | 13099.1 | 12273.0 | 12469.6 | 12710.6 |
| 57.5° | 7477.7 | 7623.6 | 9145.3 | 12042.7 | 13304.9 | 14372.0 | 14005.0 | 13472.2 | 13788.5 | 14052.6 |
| 60° | 6720.8 | 6842.1 | 7741.8 | 10877.3 | 12613.9 | 14121.7 | 14705.2 | 14590.0 | 15136.7 | 15451.4 |
| 62.5° | 5910.0 | 6025.2 | 6843.6 | 9082.3 | 11729.5 | 13705.6 | 15147.4 | 15621.9 | 16518.6 | 16862.5 |
| 65° | 5105.4 | 5203.7 | 5988.3 | 7631.3 | 10605.5 | 13289.5 | 15376.2 | 16514.0 | 17797.6 | 18153.9 |
| 67.5° | 4208.7 | 4290.1 | 5031.7 | 6438.2 | 9238.9 | 12719.8 | 15489.8 | 17215.7 | 18910.9 | 19216.4 |
| 70° | 3037.2 | 3100.1 | 3866.3 | 5091.6 | 7523.8 | 11740.2 | 15443.8 | 17713.2 | 19488.2 | 19732.3 |
| 72.5° | 1435.7 | 1492.5 | 2392.3 | 3305.9 | 5314.3 | 9833.2 | 14511.7 | 17318.6 | 18901.6 | 18780.3 |
| 75° | 766.2 | 815.3 | 1374.2 | 1813.4 | 2806.8 | 6740.7 | 11875.3 | 14918.6 | 15872.2 | 15282.5 |
| 77.5° | 519.0 | 557.4 | 850.7 | 1088.6 | 1282.1 | 3199.9 | 7632.8 | 10329.1 | 9937.6 | 8964.1 |
| 80° | 411.5 | 451.4 | 697.1 | 737.0 | 620.3 | 1156.2 | 3153.9 | 4781.5 | 3434.8 | 2747.0 |
| 82.5° | 316.3 | 360.8 | 586.5 | 534.3 | 337.8 | 474.5 | 918.2 | 1512.4 | 879.8 | 669.5 |
| 85° | 193.5 | 241.1 | 460.6 | 340.9 | 190.4 | 216.5 | 311.7 | 420.7 | 268.7 | 224.2 |
| 87.5° | 98.3 | 138.2 | 233.4 | 124.4 | 86.0 | 50.7 | 82.9 | 82.9 | 70.6 | 61.4 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4182.6 | 0° | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 | 4182.6 |
| 4161.1 | 2.5° | 4198.0 | 4228.7 | 4280.9 | 4330.0 | 4368.4 | 4405.3 | 4442.1 | 4462.1 | 4468.2 | 4492.8 |
| 4184.2 | 5° | 4247.1 | 4303.9 | 4405.3 | 4500.5 | 4560.3 | 4597.2 | 4623.3 | 4638.7 | 4641.7 | 4649.4 |
| 4247.1 | 7.5° | 4337.7 | 4428.3 | 4569.6 | 4664.8 | 4709.3 | 4706.2 | 4695.5 | 4657.1 | 4641.7 | 4627.9 |
| 4339.2 | 10° | 4465.1 | 4584.9 | 4758.4 | 4824.4 | 4796.8 | 4723.1 | 4627.9 | 4515.8 | 4463.6 | 4412.9 |
| 4465.1 | 12.5° | 4623.3 | 4775.3 | 4945.8 | 4942.7 | 4806.0 | 4617.2 | 4396.1 | 4224.1 | 4115.1 | 4036.8 |
| 4620.2 | 15° | 4815.2 | 4990.3 | 5120.8 | 5016.4 | 4717.0 | 4377.6 | 4053.6 | 3829.5 | 3731.2 | 3645.2 |
| 4776.9 | 17.5° | 5013.3 | 5200.6 | 5260.5 | 4993.4 | 4492.8 | 4022.9 | 3656.0 | 3479.4 | 3382.6 | 3336.6 |
| 4945.8 | 20° | 5206.8 | 5392.6 | 5343.4 | 4861.3 | 4151.9 | 3620.6 | 3293.6 | 3196.9 | 3176.9 | 3187.6 |
| 5110.0 | 22.5° | 5411.0 | 5576.8 | 5360.3 | 4606.4 | 3717.4 | 3209.1 | 3029.5 | 3032.6 | 3077.1 | 3109.3 |
| 5282.0 | 25° | 5619.8 | 5731.9 | 5315.8 | 4237.9 | 3250.6 | 2906.6 | 2862.1 | 2911.3 | 2998.8 | 3061.7 |
| 5475.5 | 27.5° | 5821.0 | 5870.1 | 5219.1 | 3781.9 | 2849.8 | 2690.1 | 2697.8 | 2799.2 | 2931.2 | 3018.7 |
| 5710.4 | 30° | 6048.2 | 5992.9 | 5033.3 | 3269.0 | 2571.9 | 2504.4 | 2568.8 | 2687.1 | 2819.1 | 2897.4 |
| 6006.8 | 32.5° | 6304.6 | 6098.9 | 4738.5 | 2794.6 | 2375.4 | 2355.4 | 2461.4 | 2538.1 | 2596.5 | 2619.5 |
| 6399.8 | 35° | 6624.0 | 6247.8 | 4360.7 | 2461.4 | 2198.8 | 2246.4 | 2347.7 | 2309.3 | 2286.3 | 2274.0 |
| 6928.0 | 37.5° | 7038.6 | 6449.0 | 3918.5 | 2244.9 | 2056.0 | 2168.1 | 2209.5 | 2089.8 | 1999.2 | 1954.7 |
| 7568.3 | 40° | 7537.6 | 6743.8 | 3493.2 | 2077.5 | 1965.4 | 2100.5 | 2028.4 | 1884.0 | 1768.9 | 1705.9 |
| 8288.5 | 42.5° | 8091.9 | 7052.4 | 3135.4 | 1951.6 | 1914.7 | 2045.2 | 1894.8 | 1722.8 | 1537.0 | 1517.0 |
| 9146.8 | 45° | 8673.9 | 7370.3 | 2891.3 | 1854.8 | 1890.2 | 1997.6 | 1818.0 | 1540.1 | 1408.0 | 1489.4 |
| 10008.2 | 47.5° | 9255.8 | 7662.0 | 2743.9 | 1782.7 | 1877.9 | 1943.9 | 1750.4 | 1438.7 | 1345.1 | 1463.3 |
| 10931.0 | 50° | 9903.8 | 7923.0 | 2677.9 | 1730.5 | 1864.1 | 1922.4 | 1649.1 | 1412.6 | 1279.0 | 1357.4 |
| 11886.1 | 52.5° | 10547.2 | 8125.7 | 2628.7 | 1678.3 | 1844.1 | 1905.5 | 1600.0 | 1381.9 | 1199.2 | 1203.8 |
| 12847.3 | 55° | 11189.0 | 8257.8 | 2575.0 | 1609.2 | 1799.6 | 1868.7 | 1595.4 | 1348.1 | 1139.3 | 1117.8 |
| 13863.8 | 57.5° | 11873.8 | 8333.0 | 2509.0 | 1532.4 | 1722.8 | 1775.0 | 1590.7 | 1322.0 | 1120.9 | 1085.6 |
| 14903.3 | 60° | 12570.9 | 8443.6 | 2423.0 | 1438.7 | 1619.9 | 1662.9 | 1580.0 | 1312.8 | 1110.1 | 1050.3 |
| 15882.9 | 62.5° | 13195.8 | 8481.9 | 2320.1 | 1349.7 | 1487.9 | 1552.4 | 1557.0 | 1305.2 | 1081.0 | 978.1 |
| 16696.7 | 65° | 13605.8 | 8316.1 | 2140.4 | 1248.3 | 1345.1 | 1438.7 | 1512.4 | 1279.0 | 1028.8 | 925.9 |
| 17099.0 | 67.5° | 13588.9 | 7843.2 | 1859.5 | 1117.8 | 1206.9 | 1312.8 | 1447.9 | 1234.5 | 965.8 | 861.4 |
| 16795.0 | 70° | 12956.3 | 6909.6 | 1503.2 | 965.8 | 1054.9 | 1177.7 | 1365.0 | 1168.5 | 890.6 | 790.8 |
| 14934.0 | 72.5° | 11112.2 | 5407.9 | 1091.7 | 787.7 | 878.3 | 1038.0 | 1257.6 | 1088.6 | 813.8 | 727.8 |
| 11037.0 | 75° | 7938.4 | 3422.6 | 740.1 | 605.0 | 683.3 | 879.8 | 1124.0 | 995.0 | 743.2 | 730.9 |
| 5527.7 | 77.5° | 4055.2 | 1635.3 | 489.8 | 442.2 | 476.0 | 694.0 | 944.3 | 889.0 | 753.9 | 603.4 |
| 1572.3 | 80° | 1319.0 | 603.4 | 308.6 | 301.0 | 316.3 | 462.2 | 730.9 | 729.3 | 571.2 | 410.0 |
| 380.8 | 82.5° | 420.7 | 259.5 | 201.1 | 193.5 | 185.8 | 290.2 | 509.8 | 577.3 | 385.4 | 259.5 |
| 136.7 | 85° | 167.4 | 155.1 | 118.2 | 109.0 | 78.3 | 136.7 | 267.2 | 383.9 | 287.1 | 187.3 |
| 35.3 | 87.5° | 61.4 | 61.4 | 32.2 | 23.0 | 16.9 | 46.1 | 72.2 | 115.2 | 164.3 | 96.7 |
| 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> |
|--------------|
| 4182.6 |
| 4506.6 |
| 4661.7 |
| 4631.0 |
| 4397.6 |
| 4018.3 |
| 3636.0 |
| 3350.4 |
| 3183.0 |
| 3117.0 |
| 3078.6 |
| 3040.2 |
| 2915.9 |
| 2631.8 |
| 2286.3 |
| 1965.4 |
| 1710.5 |
| 1537.0 |
| 1532.4 |
| 1518.6 |
| 1415.7 |
| 1236.1 |
| 1133.2 |
| 1090.2 |
| 1054.9 |
| 978.1 |
| 925.9 |
| 866.0 |
| <i>800.0</i> |
| 723.2 |
| 689.4 |
| 537.4 |
| 362.4 |
| 258.0 |
| 191.9 |
| 95.2 |
| 0.0 |

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