

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: P944452

Luminaire Tested: **GLAN-SB9B-930-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9B-930-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35368 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

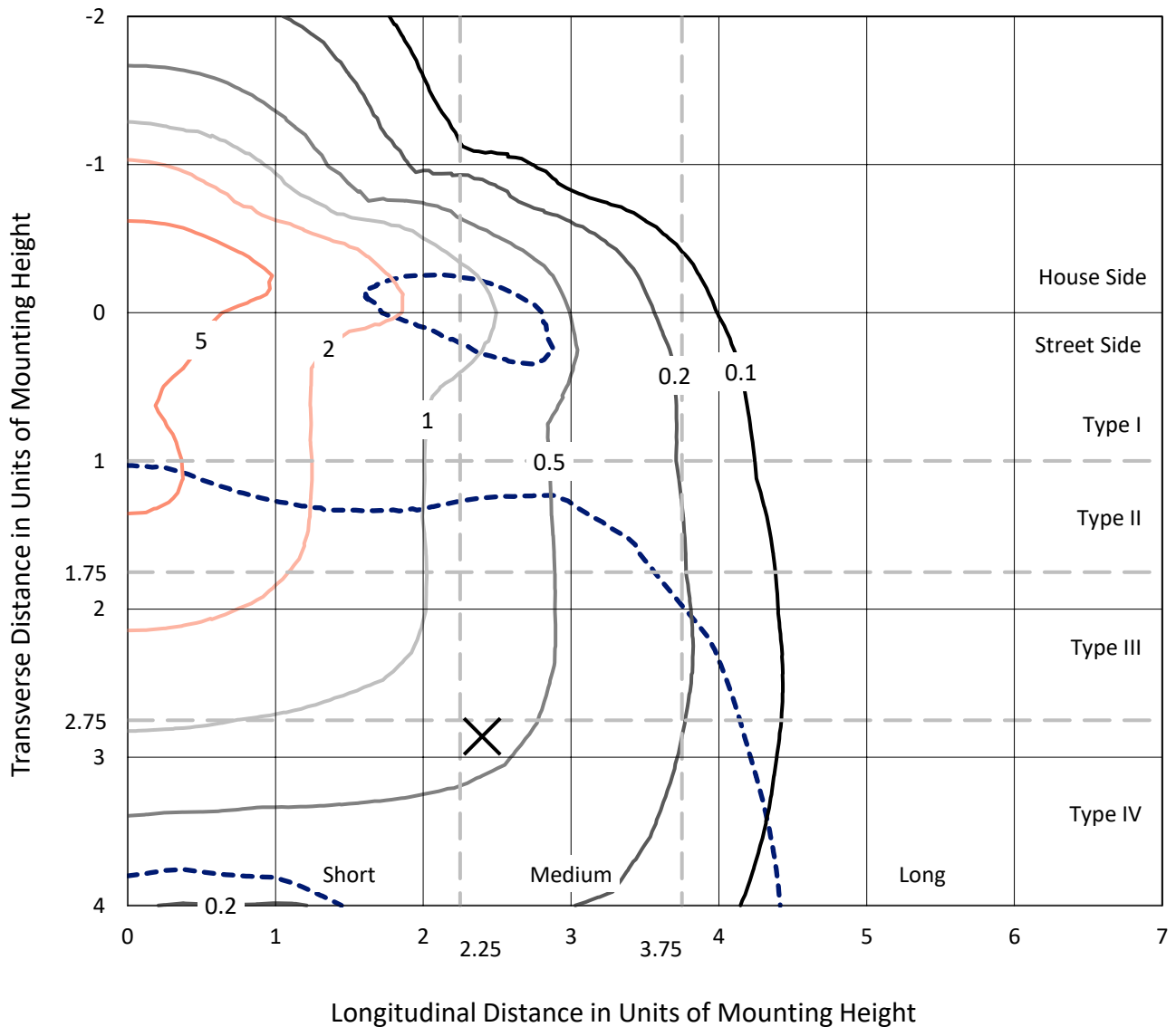
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

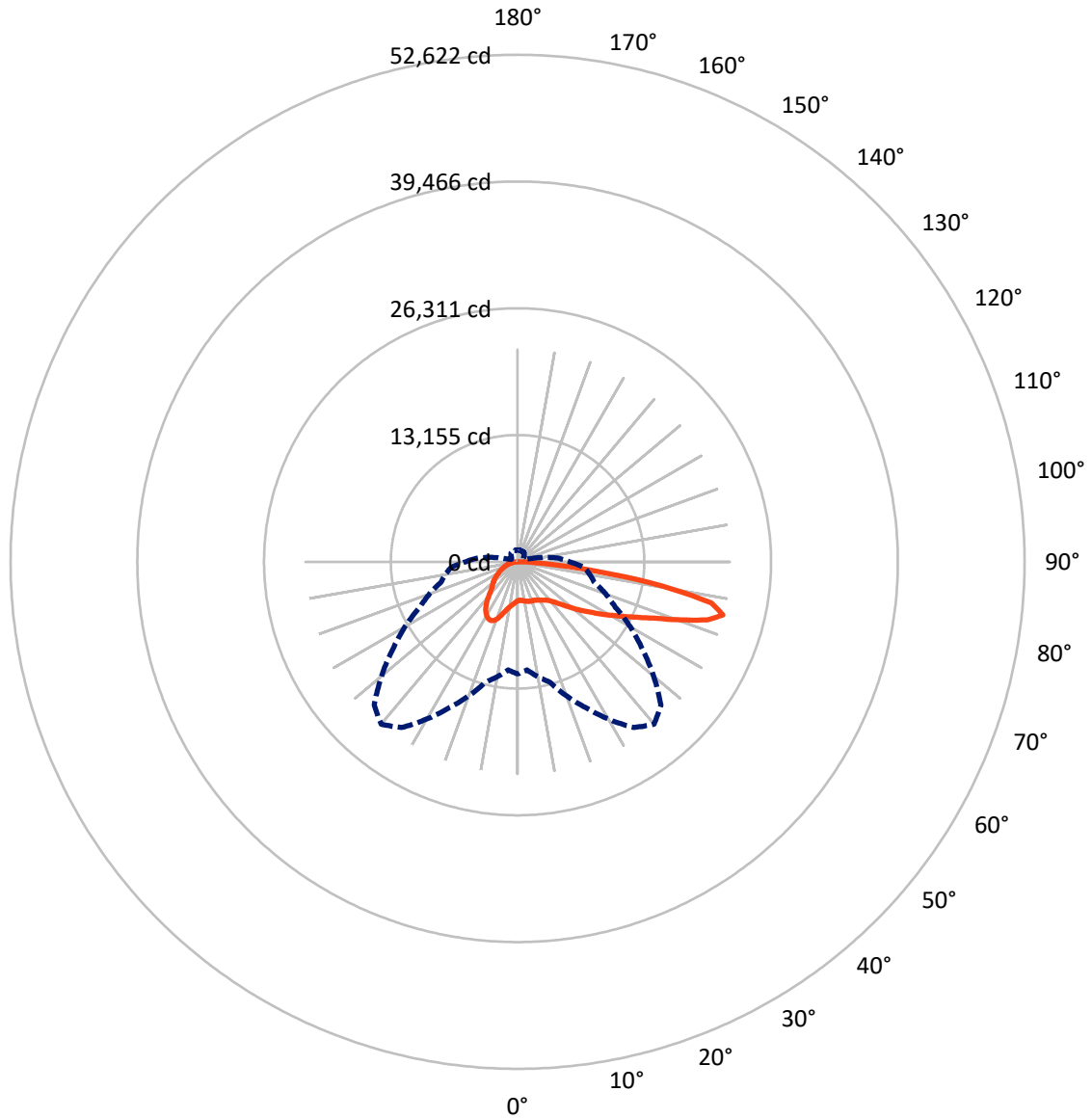
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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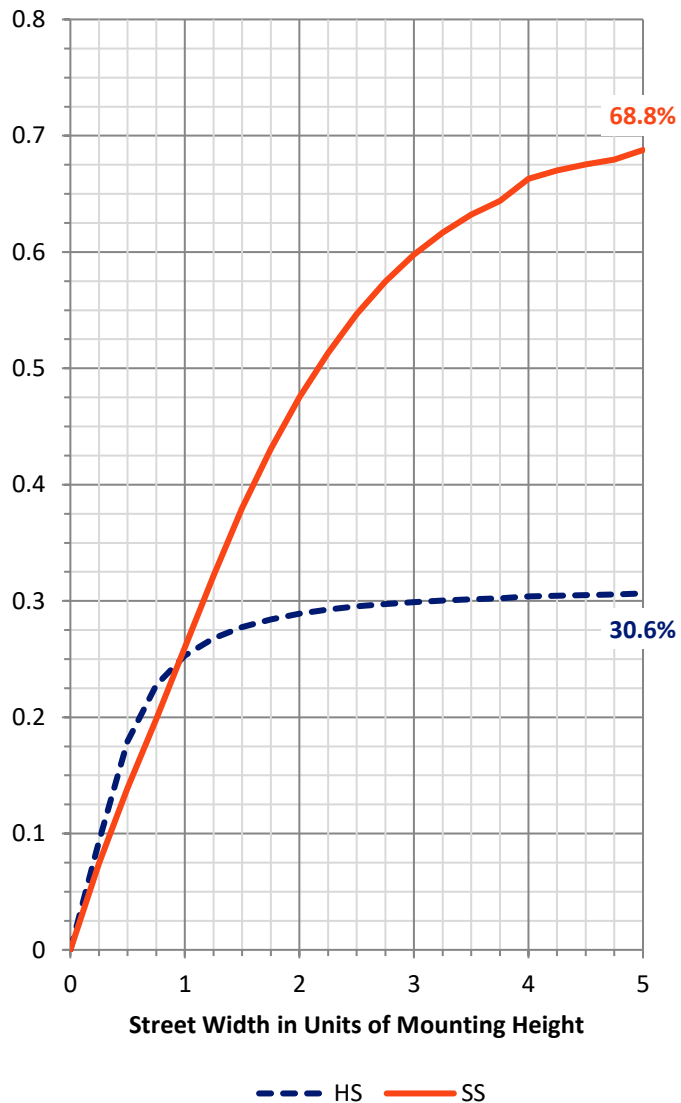
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10958.2 | 0.0 | 10958.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 24409.8 | 0.0 | 24409.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 35368.0 | 0.0 | 35368.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 403.7 | 1.1 |
| 10°-20° | 1355.4 | 3.8 |
| 20°-30° | 2474.9 | 7.0 |
| 30°-40° | 3510.1 | 9.9 |
| 40°-50° | 4739.7 | 13.4 |
| 50°-60° | 6376.1 | 18.0 |
| 60°-70° | 8092.8 | 22.9 |
| 70°-80° | 7344.7 | 20.8 |
| 80°-90° | 1070.6 | 3.0 |
| 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° | 35368.0 | 100.0 |
| 0°-180° | 35368.0 | 100.0 |

Coefficient of Utilization

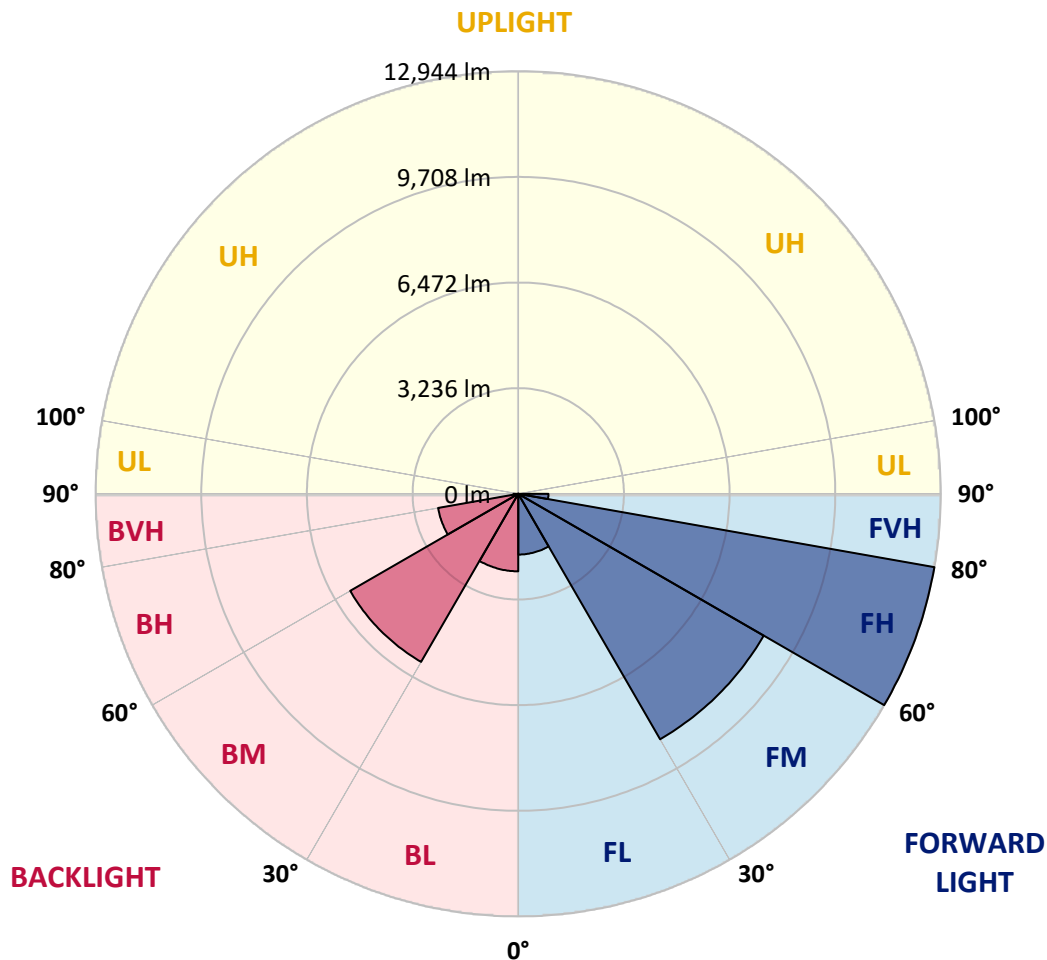


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1860.4 | 5.3 | | | |
| FM (30°-60°) | 8682.1 | 24.5 | | | |
| FH (60°-80°) | 12944.1 | 36.6 | | | G5 |
| FVH (80°-90°) | 923.2 | 2.6 | | | G5 |
| BL (0°-30°) | 2373.6 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5943.8 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2493.3 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.4 | 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 IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 |
| 2.5° | 3982.5 | 4005.0 | 3999.4 | 3991.9 | 3991.9 | 3993.7 | 3991.9 | 4005.0 | 4018.1 | 4031.2 |
| 5° | 4023.7 | 4046.3 | 4035.0 | 4025.6 | 4018.1 | 4016.2 | 4010.6 | 4008.7 | 4016.2 | 4033.1 |
| 7.5° | 4104.4 | 4126.9 | 4110.0 | 4093.2 | 4078.1 | 4070.6 | 4063.1 | 4051.9 | 4046.3 | 4055.6 |
| 10° | 4194.4 | 4217.0 | 4196.3 | 4166.3 | 4141.9 | 4132.5 | 4125.0 | 4113.8 | 4106.3 | 4111.9 |
| 12.5° | 4284.5 | 4307.0 | 4278.9 | 4237.6 | 4205.7 | 4200.1 | 4190.7 | 4186.9 | 4185.1 | 4183.2 |
| 15° | 4368.9 | 4387.7 | 4352.0 | 4303.2 | 4269.5 | 4260.1 | 4250.7 | 4256.4 | 4265.7 | 4277.0 |
| 17.5° | 4434.6 | 4453.3 | 4400.8 | 4337.0 | 4305.1 | 4301.4 | 4295.7 | 4314.5 | 4340.8 | 4368.9 |
| 20° | 4494.6 | 4513.3 | 4445.8 | 4359.5 | 4322.0 | 4322.0 | 4323.9 | 4363.3 | 4400.8 | 4442.1 |
| 22.5° | 4579.0 | 4594.0 | 4511.5 | 4393.3 | 4338.9 | 4342.6 | 4357.6 | 4397.0 | 4443.9 | 4500.2 |
| 25° | 4704.7 | 4715.9 | 4614.6 | 4457.1 | 4395.2 | 4406.4 | 4419.6 | 4438.3 | 4483.3 | 4549.0 |
| 27.5° | 4907.3 | 4916.7 | 4783.5 | 4569.6 | 4475.8 | 4494.6 | 4513.3 | 4500.2 | 4520.8 | 4577.1 |
| 30° | 5192.4 | 5198.0 | 5029.2 | 4746.0 | 4612.8 | 4622.1 | 4625.9 | 4571.5 | 4532.1 | 4577.1 |
| 32.5° | 5530.1 | 5528.2 | 5327.5 | 4959.8 | 4768.5 | 4759.1 | 4727.2 | 4620.3 | 4528.4 | 4567.7 |
| 35° | 6053.4 | 6032.8 | 5773.9 | 5259.9 | 4944.8 | 4886.6 | 4811.6 | 4674.7 | 4547.1 | 4558.4 |
| 37.5° | 6920.1 | 6856.3 | 6498.0 | 5751.4 | 5207.4 | 5059.2 | 4948.5 | 4762.8 | 4588.4 | 4554.6 |
| 40° | 7897.4 | 7816.8 | 7422.8 | 6424.9 | 5601.4 | 5363.1 | 5184.9 | 4888.5 | 4655.9 | 4571.5 |
| 42.5° | 9056.7 | 8942.3 | 8518.3 | 7218.4 | 6100.3 | 5755.2 | 5486.9 | 5048.0 | 4755.3 | 4625.9 |
| 45° | 10480.5 | 10328.5 | 9728.3 | 8113.1 | 6728.7 | 6269.2 | 5910.9 | 5290.0 | 4907.3 | 4730.9 |
| 47.5° | 11919.3 | 11956.8 | 11103.3 | 9137.4 | 7482.8 | 6903.2 | 6441.7 | 5653.9 | 5128.6 | 4899.8 |
| 50° | 13448.1 | 13474.4 | 12470.8 | 10272.3 | 8338.2 | 7619.8 | 7038.3 | 6060.9 | 5436.3 | 5139.9 |
| 52.5° | 14641.2 | 14644.9 | 13712.6 | 11459.7 | 9229.3 | 8407.7 | 7681.7 | 6526.2 | 5792.7 | 5458.8 |
| 55° | 15387.8 | 15378.4 | 14583.0 | 12583.3 | 10253.5 | 9234.9 | 8394.5 | 7055.2 | 6227.9 | 5834.0 |
| 57.5° | 15929.9 | 15901.8 | 15183.3 | 13549.4 | 11345.3 | 10212.2 | 9201.1 | 7655.4 | 6741.9 | 6280.4 |
| 60° | 16136.2 | 16119.4 | 15590.4 | 14384.2 | 12493.3 | 11292.7 | 10131.6 | 8327.0 | 7325.3 | 6807.5 |
| 62.5° | 16215.0 | 16246.9 | 15989.9 | 15192.7 | 13722.0 | 12489.5 | 11153.9 | 9129.9 | 7981.8 | 7404.1 |
| 65° | 16492.7 | 16550.8 | 16498.3 | 16250.7 | 15110.1 | 13890.8 | 12510.2 | 10084.7 | 8698.4 | 8043.7 |
| 67.5° | 17042.3 | 17100.4 | 17123.0 | 17516.9 | 16805.9 | 15637.3 | 14202.2 | 11274.0 | 9536.9 | 8707.8 |
| 70° | 17029.2 | 17012.3 | 17410.0 | 18524.2 | 18929.4 | 18055.3 | 16483.3 | 12737.2 | 10536.8 | 9259.3 |
| 72.5° | 15500.3 | 15365.3 | 16305.1 | 18513.0 | 20696.5 | 20580.2 | 19268.9 | 14624.3 | 11399.7 | 9326.8 |
| 75° | 11628.5 | 11268.4 | 12928.5 | 16684.0 | 20991.0 | 22013.3 | 21039.8 | 15794.8 | 11195.2 | 8240.7 |
| 77.5° | 4972.9 | 4610.9 | 6567.4 | 12350.7 | 18786.8 | 20578.3 | 19415.3 | 13780.1 | 8936.6 | 5449.4 |
| 80° | 1301.9 | 1300.0 | 1984.7 | 5599.5 | 12776.6 | 15196.4 | 13331.8 | 8899.1 | 5106.1 | 1947.2 |
| 82.5° | 538.4 | 525.2 | 729.7 | 2177.9 | 6242.9 | 8527.7 | 6959.5 | 3969.3 | 1844.0 | 527.1 |
| 85° | 200.7 | 198.8 | 354.5 | 752.2 | 2202.3 | 3517.3 | 2545.6 | 1014.8 | 459.6 | 257.0 |
| 87.5° | 56.3 | 54.4 | 76.9 | 260.7 | 536.5 | 814.1 | 435.2 | 167.0 | 129.4 | 101.3 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4044.4 | 0° | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 | 4044.4 |
| 4051.9 | 2.5° | 4057.5 | 4066.9 | 4083.8 | 4096.9 | 4113.8 | 4132.5 | 4158.8 | 4175.7 | 4192.6 | 4203.8 |
| 4061.3 | 5° | 4074.4 | 4095.0 | 4138.2 | 4181.3 | 4232.0 | 4278.9 | 4333.3 | 4372.7 | 4404.5 | 4413.9 |
| 4095.0 | 7.5° | 4111.9 | 4145.7 | 4218.8 | 4292.0 | 4372.7 | 4449.6 | 4528.4 | 4595.9 | 4650.3 | 4670.9 |
| 4155.1 | 10° | 4177.6 | 4222.6 | 4325.8 | 4428.9 | 4535.9 | 4654.0 | 4755.3 | 4852.9 | 4929.8 | 4961.7 |
| 4226.3 | 12.5° | 4260.1 | 4316.4 | 4451.4 | 4594.0 | 4742.2 | 4905.4 | 5036.7 | 5156.8 | 5252.4 | 5295.6 |
| 4325.8 | 15° | 4367.0 | 4440.2 | 4612.8 | 4804.1 | 5021.7 | 5248.7 | 5415.6 | 5548.8 | 5655.8 | 5708.3 |
| 4428.9 | 17.5° | 4483.3 | 4580.9 | 4798.5 | 5087.4 | 5398.8 | 5697.0 | 5892.1 | 5989.7 | 6100.3 | 6151.0 |
| 4524.6 | 20° | 4595.9 | 4715.9 | 5027.3 | 5447.5 | 5862.1 | 6179.1 | 6336.7 | 6363.0 | 6370.5 | 6376.1 |
| 4614.6 | 22.5° | 4712.2 | 4873.5 | 5314.3 | 5901.5 | 6346.1 | 6565.5 | 6588.1 | 6475.5 | 6317.9 | 6244.8 |
| 4702.8 | 25° | 4839.7 | 5053.6 | 5689.5 | 6402.3 | 6762.5 | 6788.8 | 6616.2 | 6342.3 | 6044.1 | 5907.1 |
| 4774.1 | 27.5° | 4963.6 | 5261.8 | 6139.7 | 6880.7 | 7062.7 | 6831.9 | 6460.5 | 6072.2 | 5712.0 | 5567.6 |
| 4824.7 | 30° | 5087.4 | 5500.1 | 6636.8 | 7299.0 | 7199.6 | 6725.0 | 6214.8 | 5781.4 | 5419.4 | 5267.4 |
| 4869.8 | 32.5° | 5213.0 | 5777.7 | 7209.0 | 7601.0 | 7175.2 | 6498.0 | 5909.0 | 5455.0 | 5136.1 | 4976.7 |
| 4909.2 | 35° | 5355.6 | 6119.1 | 7751.1 | 7766.1 | 7012.0 | 6164.1 | 5505.7 | 5064.9 | 4787.2 | 4659.7 |
| 4956.1 | 37.5° | 5541.3 | 6552.4 | 8229.4 | 7807.4 | 6726.9 | 5674.5 | 5004.8 | 4603.4 | 4374.5 | 4316.4 |
| 5025.5 | 40° | 5772.1 | 7073.9 | 8595.2 | 7741.7 | 6304.8 | 5079.9 | 4457.1 | 4136.3 | 4006.9 | 4020.0 |
| 5119.3 | 42.5° | 6072.2 | 7657.3 | 8852.2 | 7572.9 | 5717.7 | 4466.4 | 3976.8 | 3834.3 | 3896.2 | 3948.7 |
| 5259.9 | 45° | 6462.4 | 8263.2 | 9011.7 | 7285.9 | 5053.6 | 3946.8 | 3693.6 | 3727.4 | 3774.3 | 3779.9 |
| 5486.9 | 47.5° | 6961.4 | 8876.6 | 9116.7 | 6852.6 | 4376.4 | 3581.0 | 3513.5 | 3521.0 | 3511.6 | 3472.2 |
| 5826.5 | 50° | 7584.1 | 9473.1 | 9210.5 | 6278.5 | 3800.5 | 3352.2 | 3262.1 | 3235.9 | 3106.4 | 2978.9 |
| 6278.5 | 52.5° | 8293.2 | 10020.9 | 9249.9 | 5565.7 | 3352.2 | 3160.8 | 3014.5 | 2849.4 | 2607.5 | 2568.1 |
| 6846.9 | 55° | 9081.1 | 10527.4 | 9148.6 | 4689.7 | 2975.1 | 2915.1 | 2693.8 | 2494.9 | 2468.6 | 2434.9 |
| 7595.4 | 57.5° | 10022.8 | 11073.3 | 8942.3 | 3712.3 | 2588.7 | 2628.1 | 2412.4 | 2434.9 | 2388.0 | 2335.5 |
| 8557.7 | 60° | 11052.6 | 11637.9 | 8580.2 | 2821.3 | 2189.1 | 2269.8 | 2339.2 | 2337.3 | 2324.2 | 2281.1 |
| 9572.6 | 62.5° | 11979.3 | 12009.3 | 7867.4 | 2161.0 | 1838.4 | 1992.2 | 2181.6 | 2179.8 | 2168.5 | 2144.1 |
| 10632.4 | 65° | 12530.8 | 11953.1 | 6678.1 | 1701.4 | 1549.5 | 1763.3 | 1967.8 | 1982.8 | 1984.7 | 1982.8 |
| 11429.7 | 67.5° | 12433.3 | 11294.6 | 5046.1 | 1354.4 | 1311.2 | 1530.7 | 1755.8 | 1776.4 | 1791.5 | 1795.2 |
| 11531.0 | 70° | 11330.3 | 9848.3 | 3290.3 | 1080.5 | 1099.3 | 1326.2 | 1555.1 | 1575.7 | 1588.9 | 1603.9 |
| 10005.9 | 72.5° | 8831.6 | 7240.9 | 1883.4 | 874.2 | 913.5 | 1149.9 | 1356.3 | 1380.6 | 1388.1 | 1416.3 |
| 6963.2 | 75° | 5381.9 | 4258.2 | 1016.7 | 688.4 | 750.3 | 983.0 | 1159.3 | 1187.4 | 1200.6 | 1234.3 |
| 3419.7 | 77.5° | 2558.7 | 1844.0 | 579.6 | 536.5 | 604.0 | 802.9 | 979.2 | 1011.1 | 975.5 | 994.2 |
| 943.6 | 80° | 864.8 | 684.7 | 365.8 | 408.9 | 461.5 | 626.5 | 784.1 | 816.0 | 741.0 | 737.2 |
| 313.3 | 82.5° | 302.0 | 277.6 | 232.6 | 272.0 | 298.3 | 448.3 | 592.8 | 634.0 | 551.5 | 549.6 |
| 140.7 | 85° | 118.2 | 112.6 | 129.4 | 148.2 | 178.2 | 275.8 | 390.2 | 410.8 | 339.5 | 273.9 |
| 41.3 | 87.5° | 24.4 | 26.3 | 31.9 | 33.8 | 54.4 | 95.7 | 140.7 | 172.6 | 136.9 | 116.3 |
| 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> |
|-------------|
| 4044.4 |
| 4196.3 |
| 4417.7 |
| 4672.8 |
| 4963.6 |
| 5295.6 |
| 5704.5 |
| 6149.1 |
| 6391.1 |
| 6265.4 |
| 5927.8 |
| 5584.5 |
| 5284.3 |
| 4997.3 |
| 4687.8 |
| 4357.6 |
| 4065.0 |
| 3997.5 |
| 3817.4 |
| 3502.3 |
| 2995.8 |
| 2581.2 |
| 2440.5 |
| 2326.1 |
| 2266.1 |
| 2134.7 |
| 1982.8 |
| 1799.0 |
| 1611.4 |
| 1427.5 |
| 1238.1 |
| 979.2 |
| 729.7 |
| 523.4 |
| 270.1 |
| 106.9 |
| 0.0 |

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