

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: McGRAW-EDISON

Report Number: P952974

Luminaire Tested: **GALN-SB6C-930-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-930-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26302 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

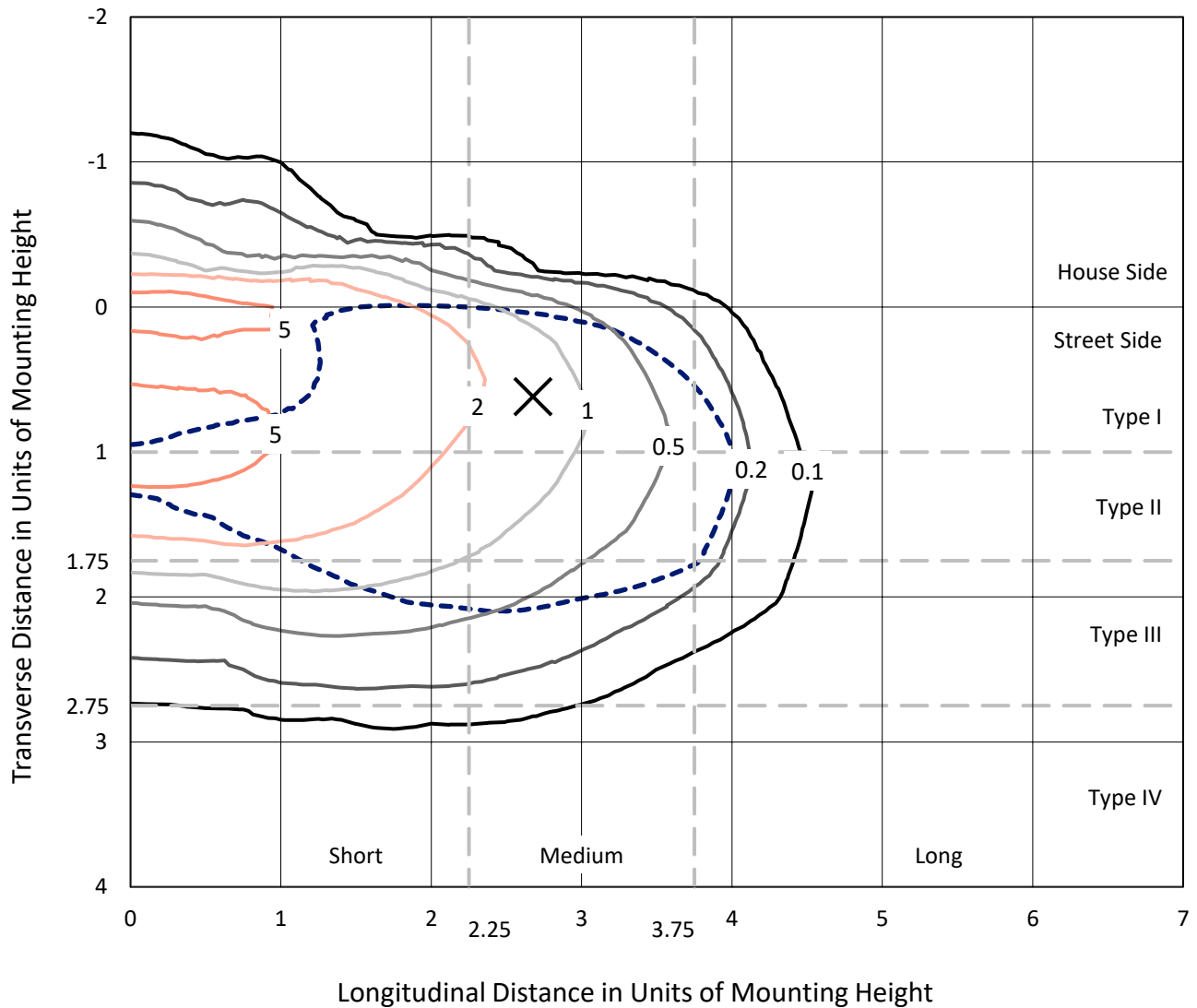
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

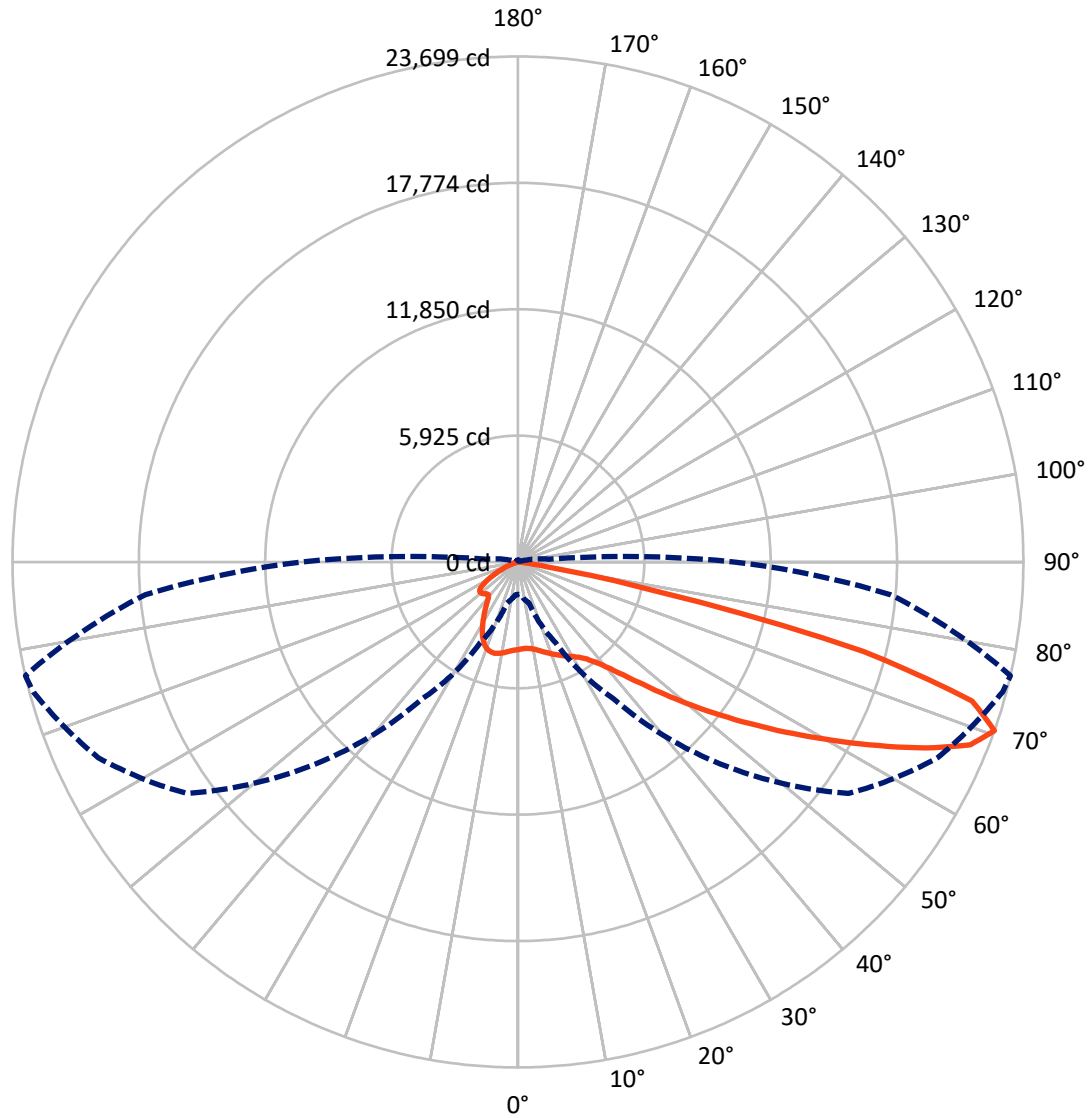
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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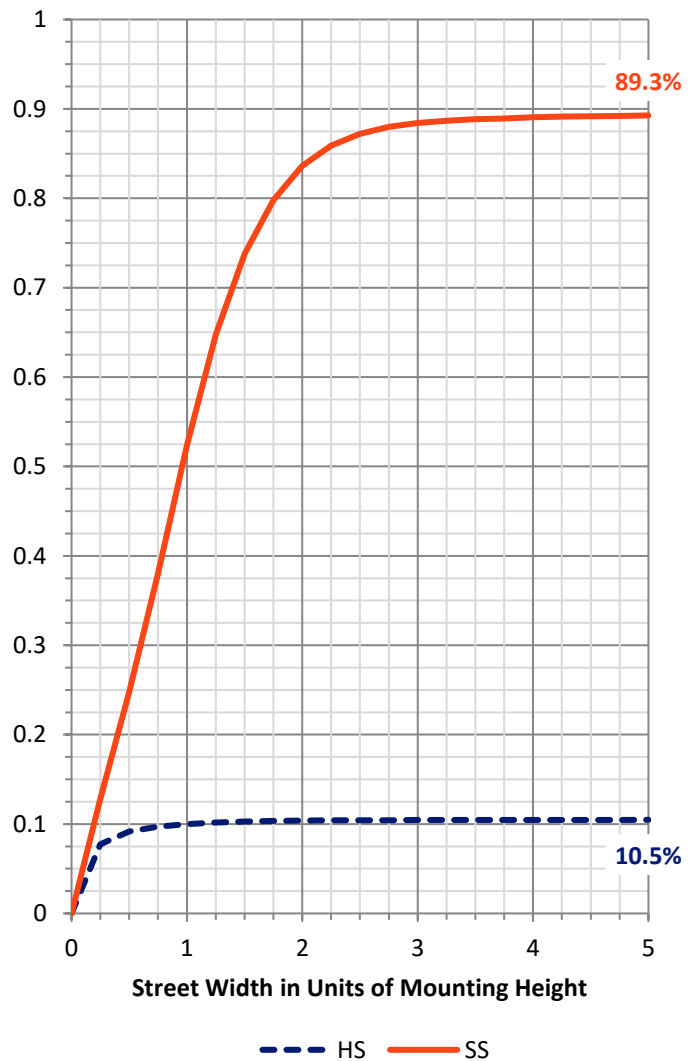
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2772.6 | 0.0 | 2772.6 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 23529.4 | 0.0 | 23529.4 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 26302.0 | 0.0 | 26302.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 353.6 | 1.3 |
| 10°-20° | 839.4 | 3.2 |
| 20°-30° | 1298.3 | 4.9 |
| 30°-40° | 2355.8 | 9.0 |
| 40°-50° | 4446.8 | 16.9 |
| 50°-60° | 6425.2 | 24.4 |
| 60°-70° | 6839.5 | 26.0 |
| 70°-80° | 3624.5 | 13.8 |
| 80°-90° | 119.0 | 0.5 |
| 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° | 26302.0 | 100.0 |
| 0°-180° | 26302.0 | 100.0 |

Coefficient of Utilization



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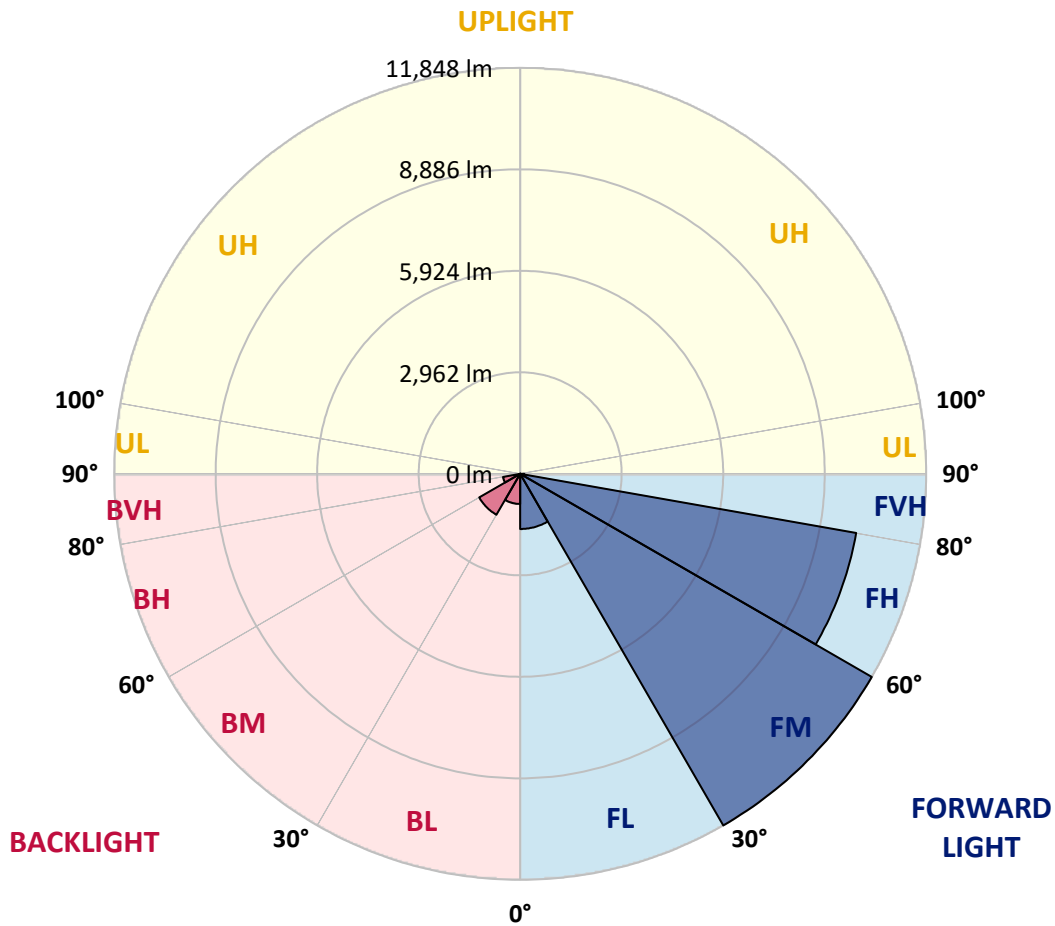
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1610.3 | 6.1 | | | |
| FM (30°-60°) | 11847.6 | 45.0 | | | |
| FH (60°-80°) | 9955.7 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 115.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 880.9 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1380.2 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 508.3 | 1.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 |
| 2.5° | 3851.8 | 3886.7 | 3881.7 | 3905.0 | 3913.3 | 3946.5 | 3979.7 | 4024.6 | 4074.4 | 4072.7 |
| 5° | 3634.2 | 3669.1 | 3677.4 | 3709.0 | 3748.8 | 3800.3 | 3868.4 | 3958.1 | 4051.1 | 4066.1 |
| 7.5° | 3376.8 | 3413.3 | 3434.9 | 3498.0 | 3571.1 | 3677.4 | 3788.7 | 3919.9 | 4074.4 | 4096.0 |
| 10° | 3119.3 | 3152.6 | 3180.8 | 3270.5 | 3386.8 | 3544.5 | 3725.6 | 3914.9 | 4122.6 | 4154.1 |
| 12.5° | 2959.9 | 2991.4 | 3023.0 | 3101.1 | 3245.6 | 3438.2 | 3684.1 | 3938.2 | 4202.3 | 4247.1 |
| 15° | 2903.4 | 2931.6 | 2956.6 | 3026.3 | 3160.9 | 3380.1 | 3675.8 | 3986.4 | 4303.6 | 4363.4 |
| 17.5° | 2911.7 | 2926.7 | 2943.3 | 2996.4 | 3127.6 | 3353.5 | 3690.7 | 4069.4 | 4423.2 | 4476.4 |
| 20° | 2959.9 | 2968.2 | 2969.8 | 3006.4 | 3122.7 | 3350.2 | 3720.6 | 4149.1 | 4536.2 | 4607.6 |
| 22.5° | 3021.3 | 3024.7 | 3021.3 | 3046.2 | 3154.2 | 3375.1 | 3760.5 | 4245.5 | 4662.4 | 4728.8 |
| 25° | 3308.7 | 3245.6 | 3165.8 | 3117.7 | 3207.4 | 3423.3 | 3820.3 | 4375.0 | 4800.3 | 4865.0 |
| 27.5° | 4200.6 | 4019.6 | 3733.9 | 3413.3 | 3317.0 | 3493.1 | 3903.3 | 4506.3 | 4939.8 | 4997.9 |
| 30° | 5649.0 | 5411.5 | 4926.5 | 4204.0 | 3669.1 | 3639.2 | 4011.3 | 4637.5 | 5087.6 | 5150.7 |
| 32.5° | 7100.7 | 7042.6 | 6482.8 | 5482.9 | 4461.4 | 3964.8 | 4190.7 | 4815.2 | 5283.6 | 5333.4 |
| 35° | 8569.0 | 8451.1 | 7992.7 | 7004.4 | 5682.2 | 4627.5 | 4489.6 | 5047.7 | 5541.1 | 5597.5 |
| 37.5° | 9693.5 | 9622.1 | 9338.1 | 8524.2 | 7130.6 | 5650.7 | 5001.2 | 5408.2 | 5914.8 | 5977.9 |
| 40° | 10686.8 | 10653.6 | 10557.2 | 10020.7 | 8750.1 | 6989.4 | 5796.8 | 5966.3 | 6433.0 | 6507.7 |
| 42.5° | 11467.5 | 11545.5 | 11600.3 | 11450.8 | 10419.4 | 8517.5 | 6866.5 | 6750.2 | 7155.5 | 7231.9 |
| 45° | 12266.4 | 12293.0 | 12513.9 | 12729.8 | 12077.0 | 10115.4 | 8072.4 | 7668.8 | 8054.1 | 8148.8 |
| 47.5° | 12779.6 | 12885.9 | 13274.6 | 13655.0 | 13470.6 | 11700.0 | 9368.0 | 8753.4 | 9095.6 | 9273.3 |
| 50° | 12817.8 | 13018.8 | 13553.7 | 14216.4 | 14485.5 | 13208.2 | 10776.5 | 9989.2 | 10352.9 | 10548.9 |
| 52.5° | 12181.7 | 12493.9 | 13322.8 | 14292.8 | 15033.6 | 14485.5 | 12233.2 | 11224.9 | 11691.7 | 11947.5 |
| 55° | 9339.7 | 9748.3 | 12454.1 | 13877.5 | 15055.2 | 15453.8 | 13651.6 | 12512.2 | 13183.3 | 13472.3 |
| 57.5° | 8137.2 | 8343.1 | 9791.5 | 13156.7 | 14654.9 | 15844.2 | 14933.9 | 13738.0 | 14806.0 | 15164.8 |
| 60° | 6770.2 | 7040.9 | 8211.9 | 11977.4 | 14111.7 | 15882.4 | 16066.7 | 15319.3 | 16565.0 | 16968.6 |
| 62.5° | 4600.9 | 4894.9 | 6059.3 | 9951.0 | 13369.3 | 15864.1 | 16995.2 | 16947.0 | 18520.0 | 18953.5 |
| 65° | 2850.3 | 3034.6 | 3802.0 | 8125.5 | 12331.2 | 15884.0 | 17966.9 | 18923.6 | 20582.9 | 21023.1 |
| 67.5° | 2252.3 | 2337.0 | 2737.3 | 6238.7 | 10542.3 | 15435.5 | 18936.9 | 20782.3 | 22524.6 | 22873.4 |
| 70° | 1513.2 | 1564.6 | 1991.5 | 4182.4 | 7843.2 | 13366.0 | 18918.6 | 21715.7 | 23524.6 | 23699.0 |
| 72.5° | 797.3 | 837.1 | 1164.4 | 1936.7 | 4737.1 | 9500.8 | 15947.1 | 20599.6 | 22529.6 | 22267.2 |
| 75° | 398.6 | 465.1 | 784.0 | 983.3 | 2023.1 | 5298.5 | 9902.8 | 16241.1 | 17732.7 | 16716.2 |
| 77.5° | 302.3 | 365.4 | 647.8 | 647.8 | 704.3 | 1783.9 | 4194.0 | 8858.0 | 8170.4 | 6803.4 |
| 80° | 192.7 | 249.1 | 566.4 | 490.0 | 294.0 | 453.4 | 1092.9 | 2481.5 | 1735.7 | 1320.5 |
| 82.5° | 112.9 | 162.8 | 471.7 | 323.9 | 164.4 | 167.8 | 308.9 | 528.2 | 450.1 | 350.5 |
| 85° | 44.8 | 106.3 | 323.9 | 127.9 | 64.8 | 41.5 | 93.0 | 112.9 | 93.0 | 69.8 |
| 87.5° | 0.0 | 24.9 | 56.5 | 0.0 | 5.0 | 3.3 | 6.6 | 8.3 | 8.3 | 6.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4102.6 | 0° | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 | 4102.6 |
| 4106.0 | 2.5° | 4120.9 | 4124.2 | 4134.2 | 4135.9 | 4112.6 | 4082.7 | 4071.1 | 4066.1 | 4046.2 | 4044.5 |
| 4132.5 | 5° | 4170.7 | 4185.7 | 4170.7 | 4127.6 | 4024.6 | 3880.1 | 3770.4 | 3680.7 | 3599.4 | 3574.4 |
| 4223.9 | 7.5° | 4270.4 | 4285.3 | 4240.5 | 4071.1 | 3812.0 | 3524.6 | 3265.5 | 3082.8 | 2918.4 | 2856.9 |
| 4335.2 | 10° | 4413.2 | 4433.2 | 4292.0 | 3949.8 | 3491.4 | 3029.6 | 2591.1 | 2282.2 | 2041.4 | 1943.4 |
| 4486.3 | 12.5° | 4592.6 | 4600.9 | 4320.2 | 3765.5 | 3074.5 | 2415.1 | 1793.9 | 1463.3 | 1249.1 | 1169.3 |
| 4669.0 | 15° | 4790.3 | 4778.7 | 4323.5 | 3514.6 | 2506.4 | 1707.5 | 1171.0 | 961.7 | 875.3 | 848.8 |
| 4851.7 | 17.5° | 4997.9 | 4949.7 | 4257.1 | 3152.6 | 1883.6 | 1167.7 | 868.7 | 818.9 | 803.9 | 797.3 |
| 5032.8 | 20° | 5202.2 | 5094.2 | 4135.9 | 2679.2 | 1352.0 | 872.0 | 789.0 | 774.0 | 765.7 | 762.4 |
| 5215.5 | 22.5° | 5388.2 | 5203.9 | 3928.2 | 2129.4 | 981.6 | 770.7 | 745.8 | 732.5 | 717.5 | 710.9 |
| 5393.2 | 25° | 5569.3 | 5267.0 | 3635.9 | 1616.1 | 785.6 | 720.9 | 700.9 | 676.0 | 656.1 | 647.8 |
| 5584.2 | 27.5° | 5745.4 | 5306.9 | 3270.5 | 1195.9 | 700.9 | 674.4 | 637.8 | 602.9 | 588.0 | 584.7 |
| 5788.5 | 30° | 5933.0 | 5320.1 | 2855.2 | 891.9 | 649.4 | 616.2 | 563.1 | 523.2 | 514.9 | 516.6 |
| 6064.3 | 32.5° | 6162.3 | 5340.1 | 2436.7 | 730.8 | 606.3 | 546.5 | 483.3 | 441.8 | 435.2 | 441.8 |
| 6466.2 | 35° | 6436.3 | 5379.9 | 2033.0 | 672.7 | 568.1 | 475.0 | 406.9 | 372.1 | 365.4 | 370.4 |
| 6981.1 | 37.5° | 6808.4 | 5444.7 | 1656.0 | 661.1 | 536.5 | 415.2 | 342.2 | 313.9 | 313.9 | 315.6 |
| 7612.3 | 40° | 7303.4 | 5617.5 | 1318.8 | 652.8 | 519.9 | 370.4 | 289.0 | 277.4 | 282.4 | 285.7 |
| 8416.2 | 42.5° | 7906.3 | 5984.5 | 1091.3 | 642.8 | 501.6 | 350.5 | 262.4 | 257.5 | 265.8 | 269.1 |
| 9379.6 | 45° | 8582.3 | 6449.6 | 1011.5 | 626.2 | 485.0 | 363.8 | 250.8 | 244.2 | 254.1 | 255.8 |
| 10459.2 | 47.5° | 9281.6 | 6904.7 | 1001.6 | 607.9 | 468.4 | 383.7 | 247.5 | 232.5 | 244.2 | 245.8 |
| 11612.0 | 50° | 9989.2 | 7202.0 | 1011.5 | 579.7 | 441.8 | 383.7 | 249.1 | 220.9 | 230.9 | 235.9 |
| 12807.9 | 52.5° | 10701.7 | 7338.2 | 1004.9 | 518.2 | 395.3 | 360.4 | 249.1 | 210.9 | 220.9 | 224.2 |
| 14100.1 | 55° | 11392.7 | 7311.7 | 903.6 | 426.9 | 335.5 | 318.9 | 242.5 | 202.6 | 209.3 | 210.9 |
| 15320.9 | 57.5° | 11939.2 | 6941.3 | 715.9 | 332.2 | 272.4 | 265.8 | 220.9 | 192.7 | 197.7 | 196.0 |
| 16440.4 | 60° | 12224.9 | 6127.4 | 511.6 | 255.8 | 214.3 | 209.3 | 194.3 | 179.4 | 182.7 | 174.4 |
| 17388.9 | 62.5° | 12228.2 | 5051.1 | 342.2 | 202.6 | 171.1 | 166.1 | 166.1 | 161.1 | 157.8 | 141.2 |
| 18123.0 | 65° | 11967.4 | 3856.8 | 227.6 | 161.1 | 137.9 | 129.6 | 139.5 | 137.9 | 126.2 | 103.0 |
| 18347.3 | 67.5° | 11376.1 | 2528.0 | 172.7 | 126.2 | 106.3 | 101.3 | 111.3 | 116.3 | 108.0 | 86.4 |
| 17530.1 | 70° | 10160.3 | 1471.6 | 142.8 | 98.0 | 79.7 | 74.7 | 89.7 | 99.7 | 89.7 | 69.8 |
| 14983.8 | 72.5° | 8439.5 | 794.0 | 116.3 | 73.1 | 54.8 | 49.8 | 71.4 | 81.4 | 71.4 | 51.5 |
| 9613.8 | 75° | 5476.3 | 425.2 | 89.7 | 48.2 | 28.2 | 31.6 | 53.2 | 59.8 | 49.8 | 33.2 |
| 2822.0 | 77.5° | 1838.7 | 187.7 | 56.5 | 23.3 | 13.3 | 13.3 | 31.6 | 36.5 | 23.3 | 11.6 |
| 513.2 | 80° | 410.3 | 78.1 | 23.3 | 10.0 | 5.0 | 5.0 | 6.6 | 6.6 | 3.3 | 0.0 |
| 157.8 | 82.5° | 134.5 | 31.6 | 10.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39.9 | 85° | 51.5 | 11.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.3 | 87.5° | 19.9 | 1.7 | 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> |
|-------------|
| 4102.6 |
| 4047.8 |
| 3559.5 |
| 2832.0 |
| 1901.8 |
| 1144.4 |
| 848.8 |
| 795.6 |
| 759.1 |
| 709.2 |
| 644.5 |
| 581.3 |
| 516.6 |
| 440.2 |
| 368.7 |
| 313.9 |
| 285.7 |
| 269.1 |
| 257.5 |
| 247.5 |
| 237.5 |
| 224.2 |
| 210.9 |
| 196.0 |
| 172.7 |
| 136.2 |
| 99.7 |
| 84.7 |
| 66.4 |
| 49.8 |
| 29.9 |
| 10.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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