

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: P955479

Luminaire Tested: **GALN-SB8B-935-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-935-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27007 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

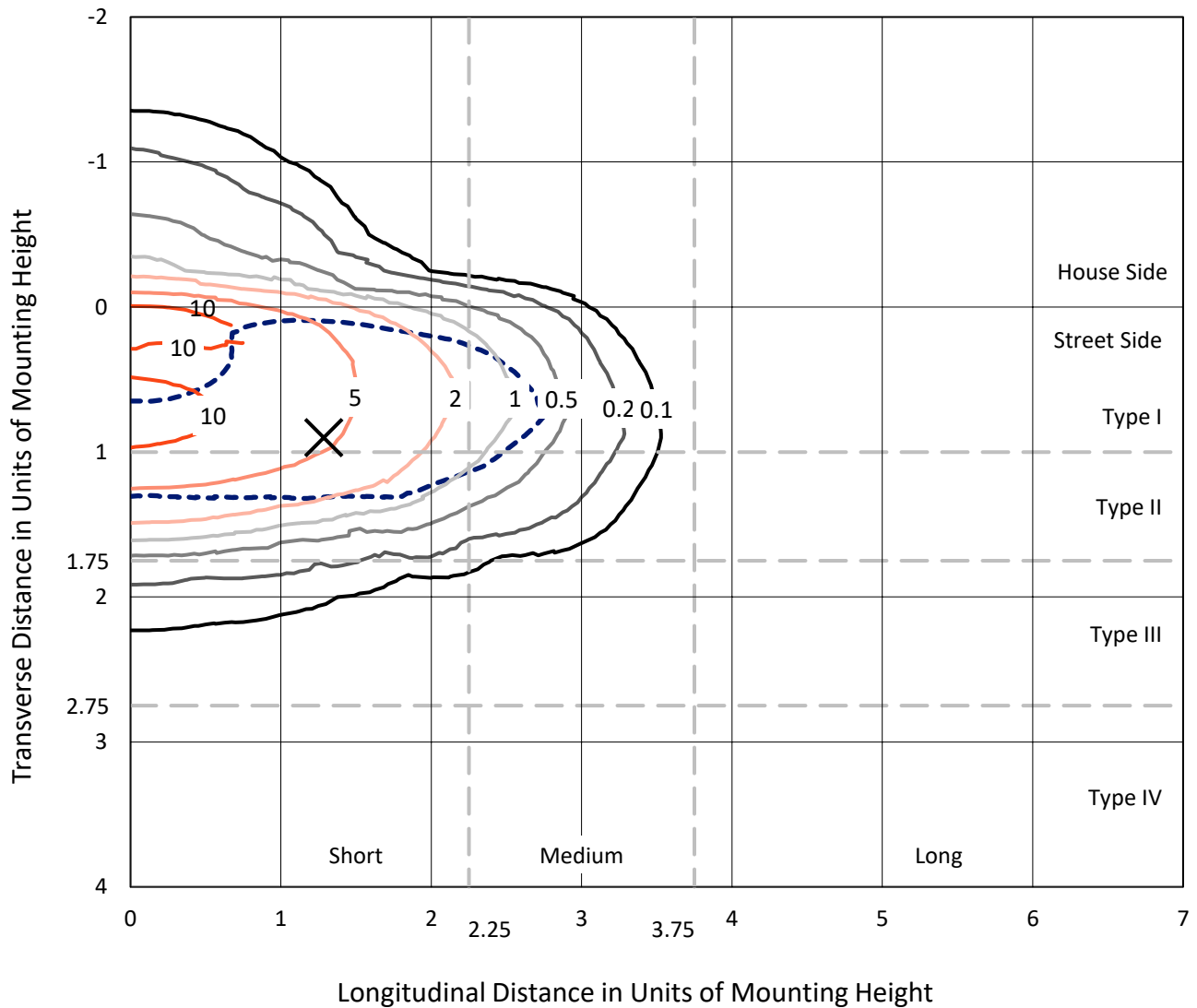
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

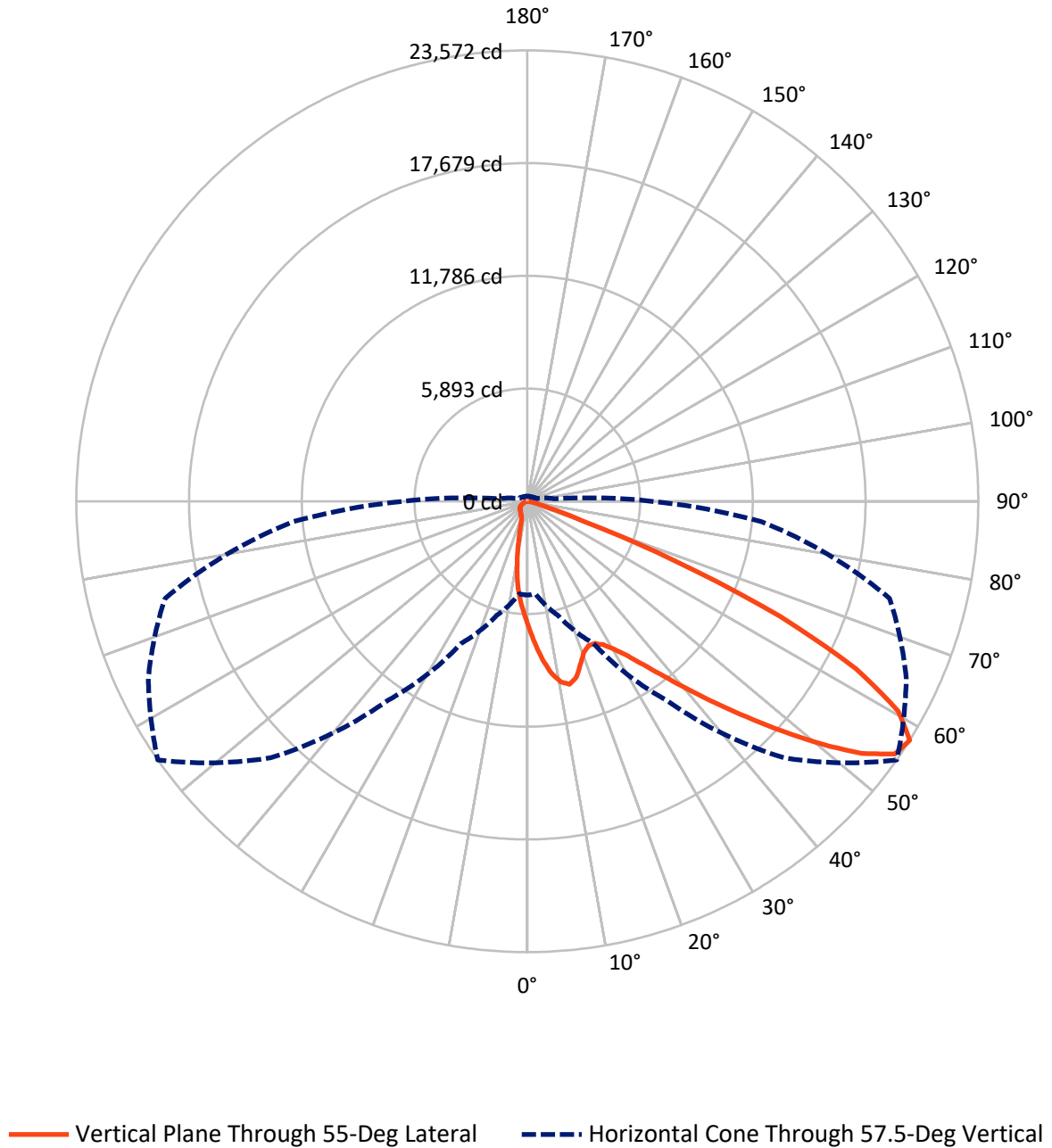
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2109.1 | 0.0 | 2109.1 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 24897.9 | 0.0 | 24897.9 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 27007.0 | 0.0 | 27007.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 605.5 | 2.2 |
| 10°-20° | 1462.7 | 5.4 |
| 20°-30° | 2340.3 | 8.7 |
| 30°-40° | 3961.0 | 14.7 |
| 40°-50° | 6503.2 | 24.1 |
| 50°-60° | 7147.4 | 26.5 |
| 60°-70° | 4099.8 | 15.2 |
| 70°-80° | 837.7 | 3.1 |
| 80°-90° | 49.4 | 0.2 |
| 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° | 27007.0 | 100.0 |
| 0°-180° | 27007.0 | 100.0 |

Coefficient of Utilization



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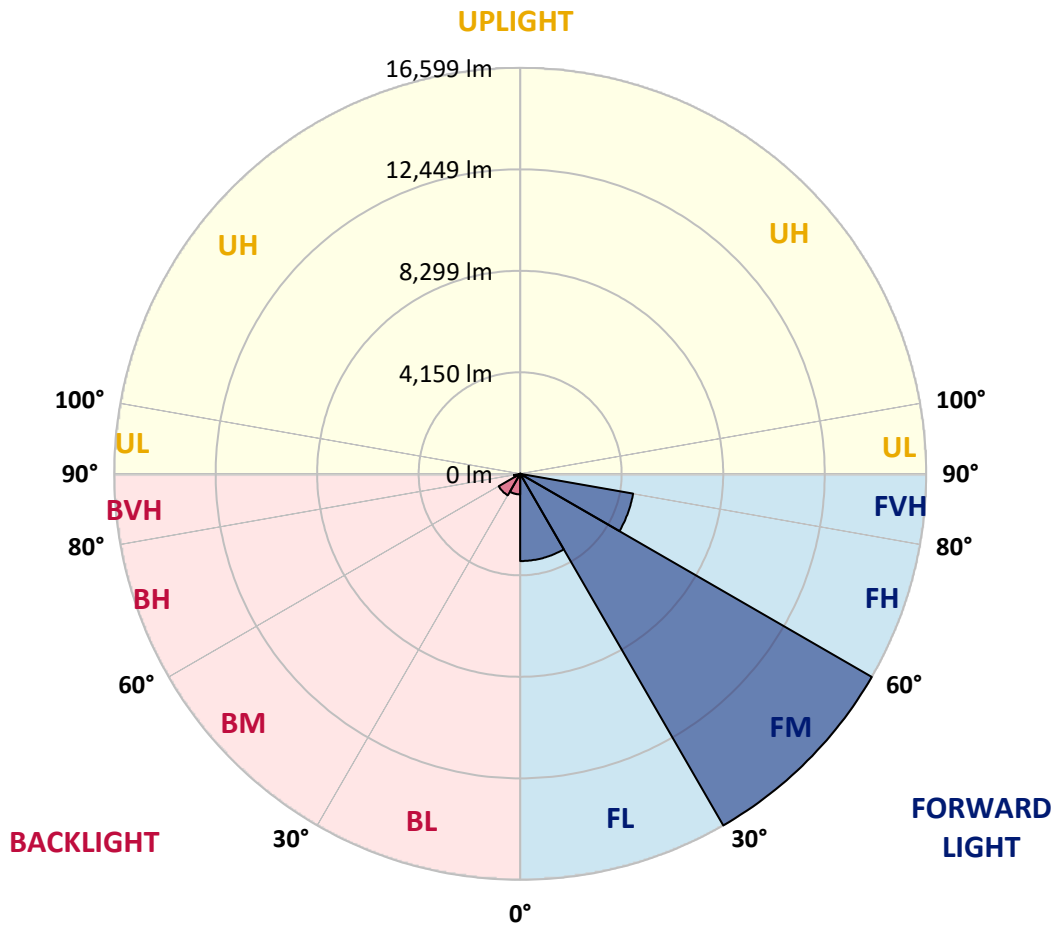
CATALOG NUMBER: GALN-SB8B-935-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3566.4 | 13.2 | | | |
| FM (30°-60°) | 16598.7 | 61.5 | | | |
| FH (60°-80°) | 4686.6 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 46.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 842.0 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1012.9 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 250.8 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 |
| 2.5° | 8075.1 | 7973.5 | 7958.5 | 7938.5 | 7745.3 | 7600.5 | 7390.6 | 7160.8 | 6902.7 | 6639.6 |
| 5° | 9329.1 | 9249.1 | 9234.1 | 9140.9 | 8921.1 | 8674.6 | 8301.6 | 7830.3 | 7349.0 | 6782.8 |
| 7.5° | 9572.2 | 9557.2 | 9625.5 | 9622.1 | 9592.2 | 9397.3 | 9082.6 | 8521.4 | 7798.6 | 6959.3 |
| 10° | 8488.1 | 8526.4 | 8729.5 | 8907.7 | 9389.0 | 9668.8 | 9600.5 | 9137.5 | 8261.6 | 7160.8 |
| 12.5° | 7500.5 | 7455.6 | 7600.5 | 7802.0 | 8361.5 | 9194.2 | 9815.3 | 9652.1 | 8791.2 | 7389.0 |
| 15° | 6881.1 | 6862.7 | 6944.3 | 7037.6 | 7463.9 | 8303.2 | 9565.5 | 10070.1 | 9300.7 | 7658.7 |
| 17.5° | 6682.9 | 6667.9 | 6692.9 | 6716.2 | 6992.6 | 7642.1 | 8971.0 | 10326.6 | 9788.7 | 7966.8 |
| 20° | 6844.4 | 6824.4 | 6821.1 | 6802.8 | 6917.7 | 7360.7 | 8433.1 | 10344.9 | 10226.7 | 8246.6 |
| 22.5° | 7315.7 | 7292.4 | 7210.8 | 7137.5 | 7147.5 | 7399.0 | 8193.3 | 10161.7 | 10556.4 | 8508.1 |
| 25° | 8170.0 | 8131.7 | 7961.8 | 7715.4 | 7558.8 | 7665.4 | 8229.9 | 9920.2 | 10871.1 | 8712.9 |
| 27.5° | 9239.1 | 9189.2 | 8971.0 | 8604.6 | 8246.6 | 8116.7 | 8494.7 | 9753.7 | 11132.6 | 8869.4 |
| 30° | 10286.6 | 10221.7 | 10006.8 | 9722.1 | 9199.2 | 8789.5 | 8972.7 | 9827.0 | 11444.0 | 9032.6 |
| 32.5° | 11417.3 | 11355.7 | 11071.0 | 10717.9 | 10284.9 | 9733.7 | 9627.1 | 10185.0 | 11825.3 | 9260.8 |
| 35° | 12847.8 | 12751.3 | 12346.6 | 11865.3 | 11405.7 | 10847.8 | 10513.1 | 10802.8 | 12333.3 | 9608.8 |
| 37.5° | 14476.5 | 14346.6 | 13910.3 | 13245.9 | 12646.3 | 12021.9 | 11592.2 | 11652.2 | 13077.7 | 10075.1 |
| 40° | 16011.9 | 15893.7 | 15490.7 | 14864.5 | 14111.8 | 13354.1 | 12896.1 | 12762.9 | 14105.2 | 10643.0 |
| 42.5° | 16932.8 | 16826.3 | 16656.4 | 16391.6 | 15757.1 | 14984.4 | 14406.6 | 14118.5 | 15320.8 | 11322.4 |
| 45° | 16984.5 | 16891.2 | 17119.4 | 17427.4 | 17302.5 | 16788.0 | 16083.5 | 15555.6 | 16541.5 | 11960.2 |
| 47.5° | 16158.5 | 16095.2 | 16788.0 | 17863.8 | 18400.0 | 18616.5 | 17967.0 | 16872.9 | 17549.0 | 12418.2 |
| 50° | 13907.0 | 13883.7 | 15309.2 | 17284.2 | 18818.0 | 20218.5 | 19953.7 | 18098.6 | 18330.0 | 12654.7 |
| 52.5° | 12058.5 | 11973.6 | 12804.5 | 15429.1 | 18210.1 | 21061.1 | 21895.5 | 19300.9 | 18876.3 | 12699.6 |
| 55° | 9145.9 | 9070.9 | 10113.4 | 12324.9 | 16250.1 | 20761.4 | 23316.0 | 20541.6 | 19267.6 | 12584.7 |
| 57.5° | 4906.0 | 4859.4 | 6176.6 | 8203.3 | 12703.0 | 18962.9 | 23572.4 | 21853.8 | 19597.3 | 12280.0 |
| 60° | 1910.1 | 1901.8 | 2394.7 | 3980.1 | 7720.4 | 15427.4 | 22278.5 | 22641.5 | 19803.8 | 11905.3 |
| 62.5° | 1155.7 | 1180.7 | 1260.6 | 1786.9 | 3410.5 | 9583.8 | 19295.9 | 21745.6 | 19942.1 | 11562.2 |
| 65° | 955.9 | 957.6 | 967.5 | 1227.3 | 1633.7 | 4010.1 | 14526.5 | 18798.0 | 19600.7 | 10951.1 |
| 67.5° | 819.3 | 834.3 | 872.6 | 974.2 | 1152.4 | 1758.6 | 8363.2 | 14561.4 | 17524.0 | 9528.9 |
| 70° | 646.1 | 666.1 | 714.4 | 801.0 | 889.3 | 1100.8 | 3090.8 | 9688.8 | 13387.4 | 7182.5 |
| 72.5° | 544.6 | 542.9 | 567.9 | 651.1 | 706.1 | 774.4 | 1189.0 | 5428.9 | 7780.3 | 3428.9 |
| 75° | 421.3 | 438.0 | 469.6 | 544.6 | 577.9 | 561.2 | 644.5 | 1983.4 | 2787.7 | 1039.2 |
| 77.5° | 329.7 | 343.1 | 371.4 | 444.6 | 477.9 | 398.0 | 371.4 | 709.4 | 895.9 | 373.0 |
| 80° | 148.2 | 159.9 | 253.1 | 328.1 | 389.7 | 274.8 | 201.5 | 363.0 | 398.0 | 169.9 |
| 82.5° | 26.6 | 45.0 | 148.2 | 173.2 | 199.8 | 178.2 | 104.9 | 188.2 | 194.8 | 68.3 |
| 85° | 1.7 | 3.3 | 51.6 | 63.3 | 79.9 | 58.3 | 31.6 | 74.9 | 64.9 | 23.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 8.3 | 10.0 | 13.3 | 10.0 | 8.3 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6508.0 | 0° | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 | 6508.0 |
| 6523.0 | 2.5° | 6403.1 | 6166.6 | 5936.8 | 5748.6 | 5638.7 | 5452.2 | 5329.0 | 5309.0 | 5257.4 | 5302.3 |
| 6539.7 | 5° | 6279.9 | 5856.9 | 5428.9 | 5045.9 | 4731.1 | 4324.8 | 4021.7 | 3893.5 | 3781.9 | 3820.2 |
| 6583.0 | 7.5° | 6221.6 | 5553.8 | 4887.7 | 4233.2 | 3560.4 | 2911.0 | 2428.0 | 2226.5 | 2073.3 | 2095.0 |
| 6631.3 | 10° | 6143.3 | 5239.1 | 4194.9 | 3195.7 | 2294.8 | 1653.7 | 1320.6 | 1197.4 | 1129.1 | 1130.7 |
| 6702.9 | 12.5° | 6083.4 | 4862.7 | 3390.6 | 2166.6 | 1397.2 | 1055.8 | 952.6 | 922.6 | 902.6 | 904.3 |
| 6811.1 | 15° | 6053.4 | 4419.7 | 2596.2 | 1443.8 | 999.2 | 894.3 | 869.3 | 856.0 | 842.6 | 841.0 |
| 6931.0 | 17.5° | 6003.4 | 3926.8 | 1900.1 | 1054.1 | 874.3 | 837.6 | 816.0 | 801.0 | 784.4 | 781.0 |
| 7034.3 | 20° | 5928.5 | 3367.3 | 1388.9 | 890.9 | 819.3 | 791.0 | 761.0 | 741.1 | 721.1 | 717.7 |
| 7099.2 | 22.5° | 5790.3 | 2776.1 | 1067.5 | 824.3 | 779.4 | 747.7 | 711.1 | 687.8 | 667.8 | 664.5 |
| 7067.6 | 25° | 5533.8 | 2221.5 | 899.3 | 782.7 | 744.4 | 706.1 | 666.1 | 634.5 | 616.2 | 612.8 |
| 6999.3 | 27.5° | 5209.1 | 1745.2 | 816.0 | 744.4 | 699.4 | 664.5 | 619.5 | 589.5 | 572.9 | 569.5 |
| 6909.4 | 30° | 4826.1 | 1343.9 | 767.7 | 701.1 | 646.1 | 616.2 | 576.2 | 551.2 | 541.2 | 541.2 |
| 6846.1 | 32.5° | 4413.1 | 1074.1 | 747.7 | 657.8 | 599.5 | 566.2 | 534.6 | 524.6 | 521.2 | 519.6 |
| 6881.1 | 35° | 4025.0 | 932.6 | 737.7 | 622.8 | 557.9 | 526.2 | 512.9 | 514.6 | 521.2 | 521.2 |
| 6989.3 | 37.5° | 3680.3 | 887.6 | 732.7 | 597.8 | 521.2 | 492.9 | 501.3 | 516.2 | 509.6 | 509.6 |
| 7179.1 | 40° | 3368.9 | 892.6 | 729.4 | 579.5 | 491.3 | 474.6 | 491.3 | 479.6 | 463.0 | 461.3 |
| 7410.6 | 42.5° | 3130.8 | 934.2 | 722.7 | 564.5 | 472.9 | 461.3 | 454.6 | 436.3 | 434.6 | 438.0 |
| 7650.4 | 45° | 2957.6 | 970.9 | 721.1 | 557.9 | 453.0 | 431.3 | 423.0 | 404.7 | 438.0 | 446.3 |
| 7748.7 | 47.5° | 2752.8 | 970.9 | 721.1 | 534.6 | 419.7 | 411.3 | 398.0 | 378.0 | 411.3 | 419.7 |
| 7655.4 | 50° | 2488.0 | 909.3 | 692.8 | 507.9 | 393.0 | 388.0 | 364.7 | 339.7 | 333.1 | 338.1 |
| 7437.3 | 52.5° | 2153.2 | 797.7 | 621.2 | 471.3 | 366.4 | 356.4 | 328.1 | 309.7 | 304.8 | 304.8 |
| 7045.9 | 55° | 1771.9 | 667.8 | 524.6 | 418.0 | 338.1 | 319.7 | 299.8 | 291.4 | 286.4 | 283.1 |
| 6498.0 | 57.5° | 1440.5 | 547.9 | 421.3 | 371.4 | 311.4 | 288.1 | 281.4 | 271.4 | 263.1 | 258.1 |
| 6040.1 | 60° | 1182.4 | 431.3 | 348.0 | 329.7 | 284.8 | 263.1 | 261.5 | 248.1 | 226.5 | 223.2 |
| 5662.0 | 62.5° | 912.6 | 316.4 | 293.1 | 286.4 | 258.1 | 239.8 | 236.5 | 209.8 | 176.5 | 169.9 |
| 5125.8 | 65° | 644.5 | 246.5 | 236.5 | 251.5 | 229.8 | 213.2 | 204.8 | 164.9 | 129.9 | 124.9 |
| 4289.8 | 67.5° | 453.0 | 206.5 | 186.5 | 219.8 | 199.8 | 178.2 | 173.2 | 139.9 | 108.2 | 104.9 |
| 3244.0 | 70° | 323.1 | 168.2 | 153.2 | 188.2 | 159.9 | 156.5 | 146.5 | 116.6 | 88.3 | 84.9 |
| 1605.4 | 72.5° | 228.1 | 128.2 | 118.2 | 163.2 | 109.9 | 134.9 | 119.9 | 89.9 | 66.6 | 63.3 |
| 546.2 | 75° | 168.2 | 91.6 | 83.3 | 94.9 | 79.9 | 101.6 | 84.9 | 60.0 | 41.6 | 40.0 |
| 246.5 | 77.5° | 123.2 | 58.3 | 50.0 | 46.6 | 46.6 | 63.3 | 46.6 | 25.0 | 18.3 | 16.7 |
| 124.9 | 80° | 86.6 | 26.6 | 23.3 | 20.0 | 18.3 | 15.0 | 6.7 | 3.3 | 1.7 | 1.7 |
| 43.3 | 82.5° | 51.6 | 11.7 | 11.7 | 8.3 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16.7 | 85° | 11.7 | 5.0 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.7 | 87.5° | 1.7 | 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 |

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