

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: P950124

Luminaire Tested: **GALN-SB4C-935-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950124
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-SB4C-935-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 615mA 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: 17803 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

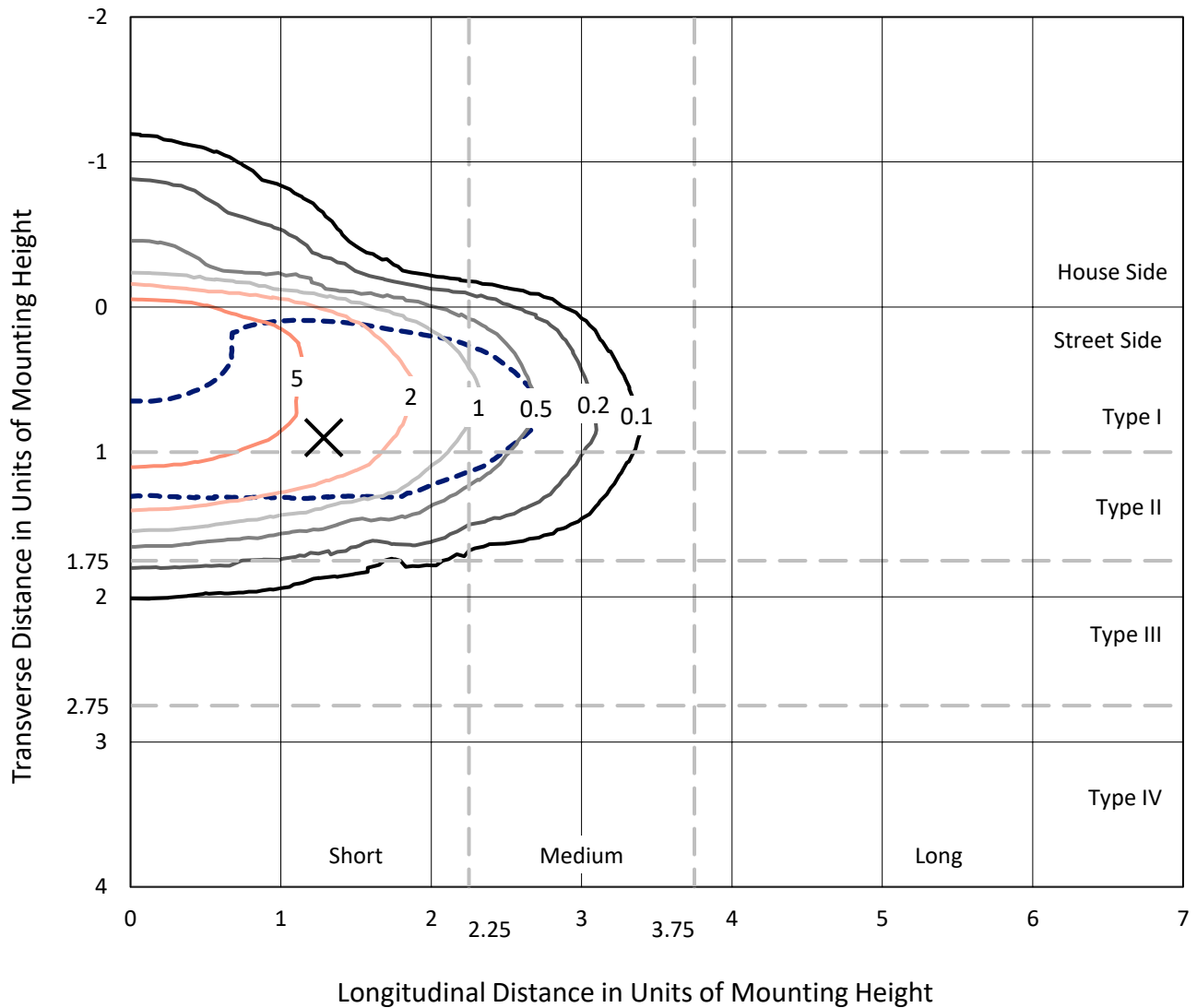
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

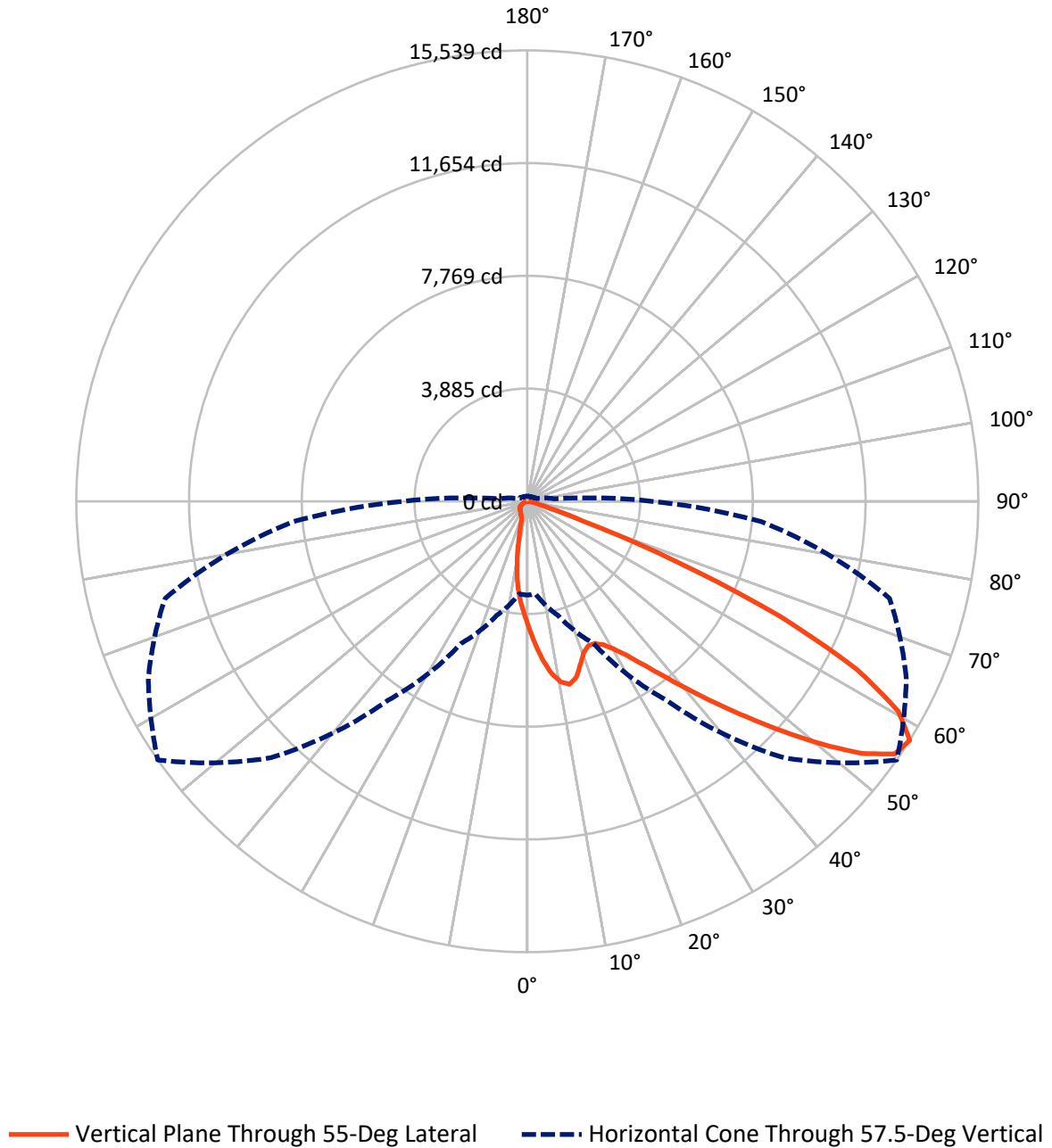
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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 | 1390.3 | 0.0 | 1390.3 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 16412.7 | 0.0 | 16412.7 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 17803.0 | 0.0 | 17803.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 399.2 | 2.2 |
| 10°-20° | 964.2 | 5.4 |
| 20°-30° | 1542.7 | 8.7 |
| 30°-40° | 2611.1 | 14.7 |
| 40°-50° | 4286.9 | 24.1 |
| 50°-60° | 4711.6 | 26.5 |
| 60°-70° | 2702.6 | 15.2 |
| 70°-80° | 552.2 | 3.1 |
| 80°-90° | 32.6 | 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° | 17803.0 | 100.0 |
| 0°-180° | 17803.0 | 100.0 |

Coefficient of Utilization



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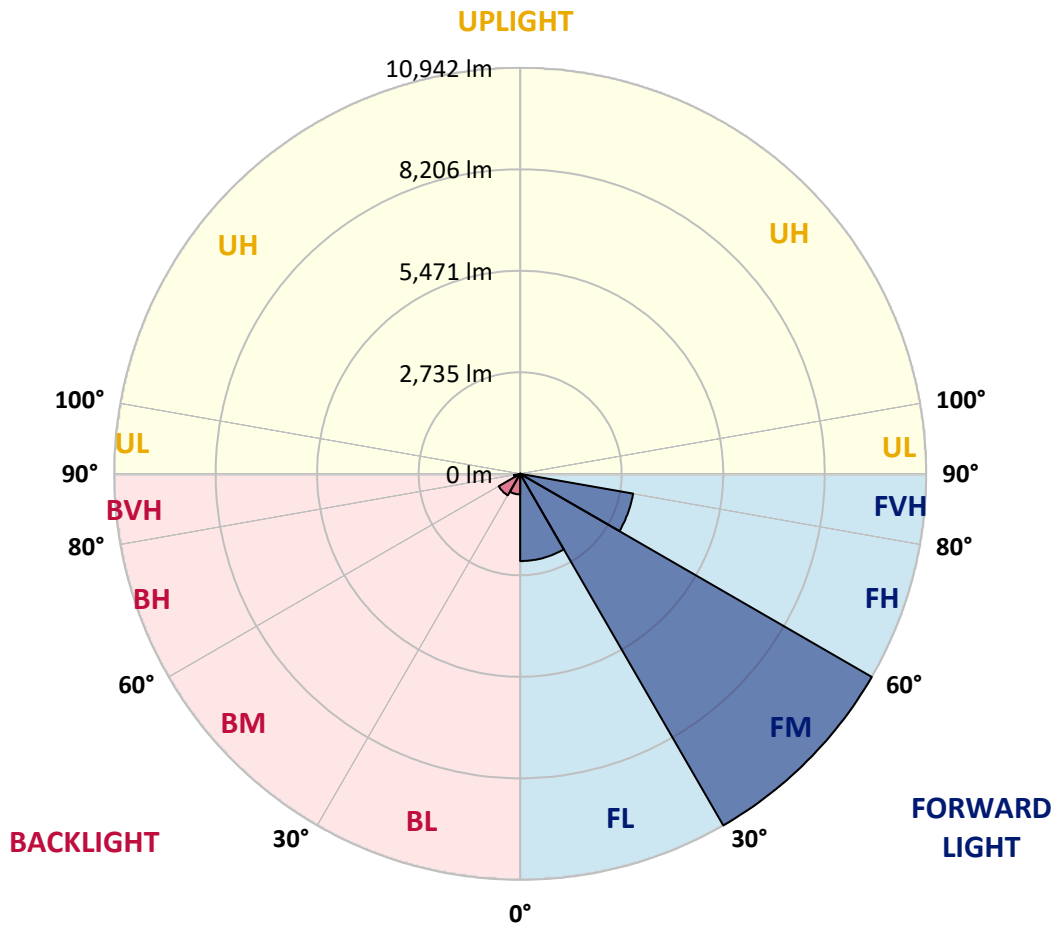
CATALOG NUMBER: GALN-SB4C-935-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2351.0 | 13.2 | | | |
| FM (30°-60°) | 10941.9 | 61.5 | | | |
| FH (60°-80°) | 3089.4 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 30.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 555.1 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 667.7 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 165.4 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 |
| 2.5° | 5323.1 | 5256.1 | 5246.2 | 5233.1 | 5105.7 | 5010.2 | 4871.9 | 4720.4 | 4550.3 | 4376.8 |
| 5° | 6149.7 | 6097.0 | 6087.1 | 6025.7 | 5880.8 | 5718.3 | 5472.4 | 5161.7 | 4844.5 | 4471.2 |
| 7.5° | 6310.0 | 6300.1 | 6345.1 | 6342.9 | 6323.2 | 6194.7 | 5987.2 | 5617.3 | 5140.9 | 4587.6 |
| 10° | 5595.3 | 5620.6 | 5754.5 | 5872.0 | 6189.2 | 6373.7 | 6328.6 | 6023.5 | 5446.0 | 4720.4 |
| 12.5° | 4944.4 | 4914.7 | 5010.2 | 5143.1 | 5511.9 | 6060.8 | 6470.3 | 6362.7 | 5795.1 | 4870.8 |
| 15° | 4536.0 | 4523.9 | 4577.7 | 4639.2 | 4920.2 | 5473.5 | 6305.6 | 6638.2 | 6131.0 | 5048.6 |
| 17.5° | 4405.4 | 4395.5 | 4411.9 | 4427.3 | 4609.5 | 5037.7 | 5913.7 | 6807.3 | 6452.7 | 5251.7 |
| 20° | 4511.8 | 4498.7 | 4496.5 | 4484.4 | 4560.1 | 4852.1 | 5559.1 | 6819.3 | 6741.4 | 5436.2 |
| 22.5° | 4822.5 | 4807.1 | 4753.3 | 4705.0 | 4711.6 | 4877.4 | 5401.0 | 6698.6 | 6958.8 | 5608.5 |
| 25° | 5385.7 | 5360.4 | 5248.4 | 5086.0 | 4982.8 | 5053.0 | 5425.2 | 6539.4 | 7166.2 | 5743.5 |
| 27.5° | 6090.4 | 6057.5 | 5913.7 | 5672.2 | 5436.2 | 5350.5 | 5599.7 | 6429.6 | 7338.6 | 5846.7 |
| 30° | 6780.9 | 6738.1 | 6596.5 | 6408.8 | 6064.1 | 5794.0 | 5914.8 | 6477.9 | 7543.9 | 5954.3 |
| 32.5° | 7526.3 | 7485.7 | 7298.0 | 7065.2 | 6779.8 | 6416.5 | 6346.2 | 6714.0 | 7795.3 | 6104.7 |
| 35° | 8469.3 | 8405.6 | 8138.9 | 7821.6 | 7518.6 | 7150.9 | 6930.2 | 7121.2 | 8130.1 | 6334.1 |
| 37.5° | 9542.9 | 9457.3 | 9169.7 | 8731.7 | 8336.5 | 7924.8 | 7641.6 | 7681.1 | 8620.8 | 6641.5 |
| 40° | 10555.1 | 10477.1 | 10211.5 | 9798.7 | 9302.5 | 8803.0 | 8501.1 | 8413.3 | 9298.1 | 7015.8 |
| 42.5° | 11162.1 | 11091.9 | 10979.9 | 10805.3 | 10387.1 | 9877.7 | 9496.8 | 9306.9 | 10099.5 | 7463.7 |
| 45° | 11196.2 | 11134.7 | 11285.1 | 11488.2 | 11405.8 | 11066.6 | 10602.3 | 10254.3 | 10904.1 | 7884.2 |
| 47.5° | 10651.7 | 10609.9 | 11066.6 | 11775.8 | 12129.3 | 12272.0 | 11843.8 | 11122.6 | 11568.3 | 8186.1 |
| 50° | 9167.5 | 9152.1 | 10091.8 | 11393.8 | 12404.8 | 13328.0 | 13153.5 | 11930.6 | 12083.2 | 8342.0 |
| 52.5° | 7949.0 | 7893.0 | 8440.8 | 10170.8 | 12004.1 | 13883.5 | 14433.5 | 12723.2 | 12443.2 | 8371.6 |
| 55° | 6029.0 | 5979.6 | 6666.8 | 8124.6 | 10712.0 | 13685.9 | 15369.9 | 13541.0 | 12701.2 | 8295.8 |
| 57.5° | 3234.0 | 3203.3 | 4071.6 | 5407.6 | 8373.8 | 12500.3 | 15538.9 | 14406.0 | 12918.6 | 8095.0 |
| 60° | 1259.1 | 1253.7 | 1578.6 | 2623.7 | 5089.3 | 10169.7 | 14686.0 | 14925.3 | 13054.7 | 7848.0 |
| 62.5° | 761.9 | 778.3 | 831.0 | 1177.9 | 2248.2 | 6317.7 | 12719.9 | 14334.7 | 13145.8 | 7621.8 |
| 65° | 630.1 | 631.2 | 637.8 | 809.1 | 1076.9 | 2643.4 | 9575.8 | 12391.6 | 12920.8 | 7218.9 |
| 67.5° | 540.1 | 550.0 | 575.2 | 642.2 | 759.7 | 1159.2 | 5513.0 | 9598.9 | 11551.8 | 6281.4 |
| 70° | 425.9 | 439.1 | 470.9 | 528.0 | 586.2 | 725.6 | 2037.5 | 6386.8 | 8825.0 | 4734.7 |
| 72.5° | 359.0 | 357.9 | 374.3 | 429.2 | 465.5 | 510.5 | 783.8 | 3578.7 | 5128.8 | 2260.3 |
| 75° | 277.7 | 288.7 | 309.6 | 359.0 | 380.9 | 369.9 | 424.8 | 1307.4 | 1837.7 | 685.0 |
| 77.5° | 217.4 | 226.1 | 244.8 | 293.1 | 315.1 | 262.4 | 244.8 | 467.6 | 590.6 | 245.9 |
| 80° | 97.7 | 105.4 | 166.9 | 216.3 | 256.9 | 181.1 | 132.8 | 239.3 | 262.4 | 112.0 |
| 82.5° | 17.6 | 29.6 | 97.7 | 114.2 | 131.7 | 117.5 | 69.2 | 124.0 | 128.4 | 45.0 |
| 85° | 1.1 | 2.2 | 34.0 | 41.7 | 52.7 | 38.4 | 20.9 | 49.4 | 42.8 | 15.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 5.5 | 6.6 | 8.8 | 6.6 | 5.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4290.1 | 0° | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 |
| 4300.0 | 2.5° | 4220.9 | 4065.0 | 3913.5 | 3789.5 | 3717.0 | 3594.1 | 3512.9 | 3499.7 | 3465.7 | 3495.3 |
| 4310.9 | 5° | 4139.7 | 3860.9 | 3578.7 | 3326.2 | 3118.8 | 2850.9 | 2651.1 | 2566.6 | 2493.0 | 2518.3 |
| 4339.5 | 7.5° | 4101.3 | 3661.1 | 3222.0 | 2790.5 | 2347.0 | 1918.9 | 1600.5 | 1467.7 | 1366.7 | 1381.0 |
| 4371.3 | 10° | 4049.7 | 3453.6 | 2765.3 | 2106.6 | 1512.7 | 1090.1 | 870.5 | 789.3 | 744.3 | 745.4 |
| 4418.5 | 12.5° | 4010.2 | 3205.5 | 2235.1 | 1428.2 | 921.0 | 696.0 | 627.9 | 608.2 | 595.0 | 596.1 |
| 4489.9 | 15° | 3990.4 | 2913.5 | 1711.4 | 951.8 | 658.7 | 589.5 | 573.0 | 564.3 | 555.5 | 554.4 |
| 4568.9 | 17.5° | 3957.5 | 2588.5 | 1252.6 | 694.9 | 576.3 | 552.2 | 537.9 | 528.0 | 517.0 | 514.9 |
| 4637.0 | 20° | 3908.1 | 2219.7 | 915.5 | 587.3 | 540.1 | 521.4 | 501.7 | 488.5 | 475.3 | 473.1 |
| 4679.8 | 22.5° | 3816.9 | 1830.0 | 703.7 | 543.4 | 513.8 | 492.9 | 468.7 | 453.4 | 440.2 | 438.0 |
| 4658.9 | 25° | 3647.9 | 1464.4 | 592.8 | 516.0 | 490.7 | 465.5 | 439.1 | 418.3 | 406.2 | 404.0 |
| 4613.9 | 27.5° | 3433.8 | 1150.5 | 537.9 | 490.7 | 461.1 | 438.0 | 408.4 | 388.6 | 377.6 | 375.4 |
| 4554.6 | 30° | 3181.3 | 885.9 | 506.1 | 462.2 | 425.9 | 406.2 | 379.8 | 363.4 | 356.8 | 356.8 |
| 4512.9 | 32.5° | 2909.1 | 708.1 | 492.9 | 433.6 | 395.2 | 373.2 | 352.4 | 345.8 | 343.6 | 342.5 |
| 4536.0 | 35° | 2653.3 | 614.8 | 486.3 | 410.6 | 367.8 | 346.9 | 338.1 | 339.2 | 343.6 | 343.6 |
| 4607.3 | 37.5° | 2426.1 | 585.1 | 483.0 | 394.1 | 343.6 | 324.9 | 330.4 | 340.3 | 335.9 | 335.9 |
| 4732.5 | 40° | 2220.8 | 588.4 | 480.8 | 382.0 | 323.8 | 312.9 | 323.8 | 316.2 | 305.2 | 304.1 |
| 4885.1 | 42.5° | 2063.8 | 615.8 | 476.4 | 372.1 | 311.8 | 304.1 | 299.7 | 287.6 | 286.5 | 288.7 |
| 5043.2 | 45° | 1949.6 | 640.0 | 475.3 | 367.8 | 298.6 | 284.3 | 278.8 | 266.8 | 288.7 | 294.2 |
| 5107.9 | 47.5° | 1814.6 | 640.0 | 475.3 | 352.4 | 276.6 | 271.1 | 262.4 | 249.2 | 271.1 | 276.6 |
| 5046.4 | 50° | 1640.1 | 599.4 | 456.7 | 334.8 | 259.1 | 255.8 | 240.4 | 223.9 | 219.6 | 222.8 |
| 4902.6 | 52.5° | 1419.4 | 525.8 | 409.5 | 310.7 | 241.5 | 234.9 | 216.3 | 204.2 | 200.9 | 200.9 |
| 4644.7 | 55° | 1168.0 | 440.2 | 345.8 | 275.5 | 222.8 | 210.8 | 197.6 | 192.1 | 188.8 | 186.6 |
| 4283.5 | 57.5° | 949.6 | 361.2 | 277.7 | 244.8 | 205.3 | 189.9 | 185.5 | 178.9 | 173.4 | 170.2 |
| 3981.6 | 60° | 779.4 | 284.3 | 229.4 | 217.4 | 187.7 | 173.4 | 172.3 | 163.6 | 149.3 | 147.1 |
| 3732.4 | 62.5° | 601.6 | 208.6 | 193.2 | 188.8 | 170.2 | 158.1 | 155.9 | 138.3 | 116.4 | 112.0 |
| 3378.9 | 65° | 424.8 | 162.5 | 155.9 | 165.8 | 151.5 | 140.5 | 135.0 | 108.7 | 85.6 | 82.3 |
| 2827.9 | 67.5° | 298.6 | 136.1 | 123.0 | 144.9 | 131.7 | 117.5 | 114.2 | 92.2 | 71.4 | 69.2 |
| 2138.5 | 70° | 213.0 | 110.9 | 101.0 | 124.0 | 105.4 | 103.2 | 96.6 | 76.8 | 58.2 | 56.0 |
| 1058.3 | 72.5° | 150.4 | 84.5 | 77.9 | 107.6 | 72.5 | 88.9 | 79.0 | 59.3 | 43.9 | 41.7 |
| 360.1 | 75° | 110.9 | 60.4 | 54.9 | 62.6 | 52.7 | 67.0 | 56.0 | 39.5 | 27.4 | 26.3 |
| 162.5 | 77.5° | 81.2 | 38.4 | 32.9 | 30.7 | 30.7 | 41.7 | 30.7 | 16.5 | 12.1 | 11.0 |
| 82.3 | 80° | 57.1 | 17.6 | 15.4 | 13.2 | 12.1 | 9.9 | 4.4 | 2.2 | 1.1 | 1.1 |
| 28.5 | 82.5° | 34.0 | 7.7 | 7.7 | 5.5 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.0 | 85° | 7.7 | 3.3 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.4 | 87.5° | 1.1 | 1.1 | 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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