

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: P955028

Luminaire Tested: **GALN-SB8A-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28486 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

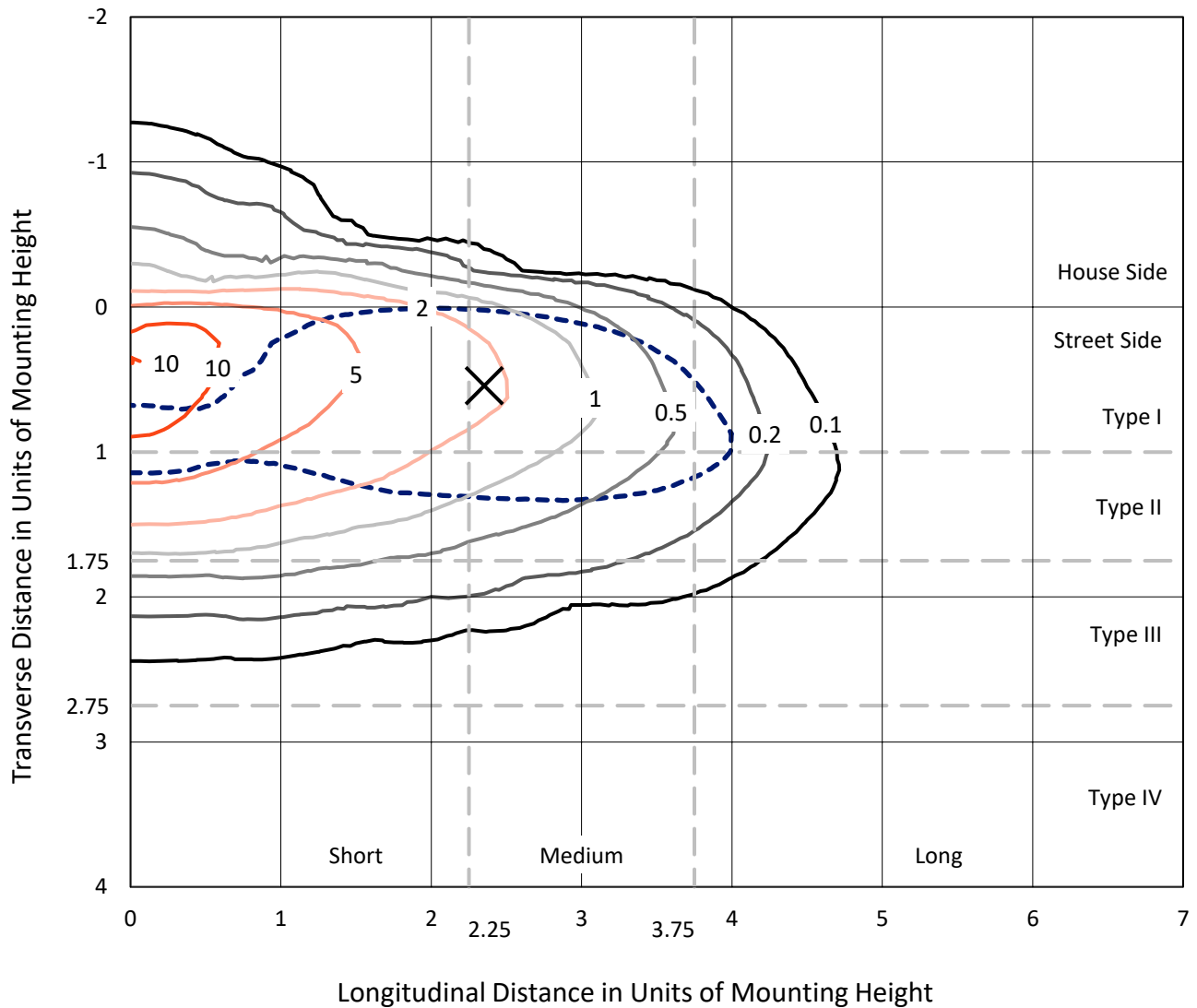
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

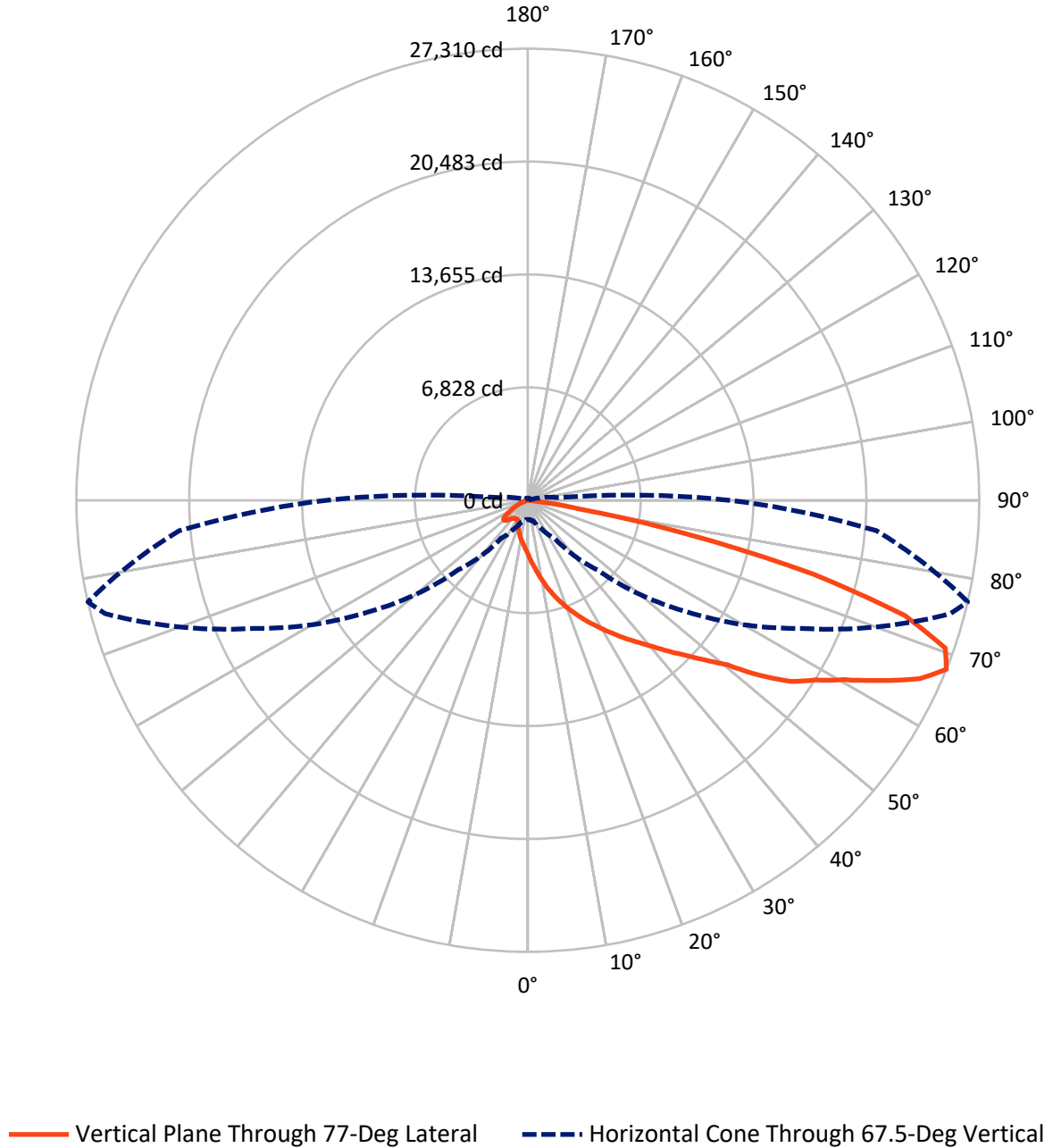
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2095.7 | 0.0 | 2095.7 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 26390.3 | 0.0 | 26390.3 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 28486.0 | 0.0 | 28486.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.3 | 1.2 |
| 10°-20° | 1174.1 | 4.1 |
| 20°-30° | 2265.7 | 8.0 |
| 30°-40° | 3933.3 | 13.8 |
| 40°-50° | 5711.0 | 20.0 |
| 50°-60° | 6558.3 | 23.0 |
| 60°-70° | 5693.9 | 20.0 |
| 70°-80° | 2681.9 | 9.4 |
| 80°-90° | 132.6 | 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° | 28486.0 | 100.0 |
| 0°-180° | 28486.0 | 100.0 |

Coefficient of Utilization



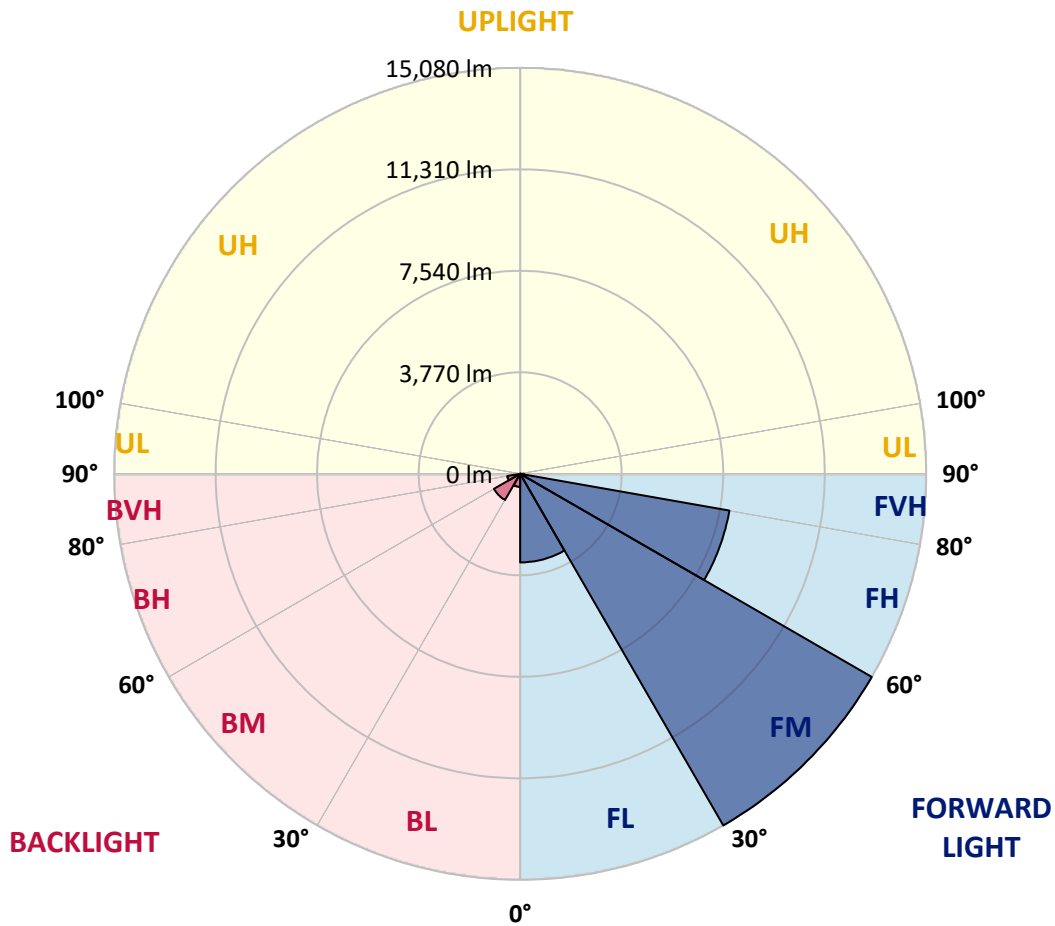
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3289.8 | 11.5 | | | |
| FM (30°-60°) | 15079.7 | 52.9 | | | |
| FH (60°-80°) | 7890.5 | 27.7 | | | G4/12000 |
| FVH (80°-90°) | 130.2 | 0.5 | | | G2/225 |
| BL (0°-30°) | 485.2 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1122.9 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 485.2 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.4 | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 |
| 2.5° | 4547.9 | 4576.2 | 4535.5 | 4457.6 | 4340.9 | 4264.8 | 4079.1 | 3904.0 | 3709.4 | 3647.5 |
| 5° | 5543.7 | 5568.5 | 5522.5 | 5437.6 | 5281.9 | 5133.4 | 4889.3 | 4523.1 | 4142.8 | 4020.7 |
| 7.5° | 6281.4 | 6295.5 | 6277.8 | 6200.0 | 6051.4 | 5883.4 | 5611.0 | 5177.6 | 4613.3 | 4478.9 |
| 10° | 6812.0 | 6858.0 | 6852.7 | 6822.7 | 6723.6 | 6587.4 | 6297.3 | 5803.8 | 5140.4 | 4967.1 |
| 12.5° | 7164.1 | 7215.4 | 7245.4 | 7312.6 | 7307.3 | 7220.7 | 6965.9 | 6444.1 | 5665.8 | 5462.4 |
| 15° | 7266.7 | 7321.5 | 7436.5 | 7592.1 | 7730.1 | 7774.3 | 7595.7 | 7072.1 | 6244.2 | 5984.2 |
| 17.5° | 7208.3 | 7293.2 | 7431.2 | 7677.0 | 7979.5 | 8179.4 | 8160.0 | 7678.8 | 6769.6 | 6472.4 |
| 20° | 7337.4 | 7418.8 | 7526.7 | 7733.6 | 8085.7 | 8448.3 | 8593.3 | 8259.0 | 7291.4 | 6980.1 |
| 22.5° | 8052.1 | 8037.9 | 8048.5 | 8082.1 | 8292.6 | 8651.7 | 8950.7 | 8786.1 | 7807.9 | 7489.5 |
| 25° | 9184.1 | 9120.5 | 9012.6 | 8830.4 | 8777.3 | 8950.7 | 9262.0 | 9253.1 | 8352.8 | 8011.4 |
| 27.5° | 10482.5 | 10471.9 | 10219.0 | 9780.3 | 9532.6 | 9465.4 | 9614.0 | 9707.7 | 8892.3 | 8527.9 |
| 30° | 11726.1 | 11754.4 | 11413.0 | 10924.8 | 10470.1 | 10206.6 | 10072.1 | 10139.4 | 9440.6 | 9085.1 |
| 32.5° | 12808.6 | 12838.7 | 12467.2 | 11895.9 | 11333.4 | 11015.0 | 10731.9 | 10565.7 | 10038.5 | 9651.1 |
| 35° | 13723.2 | 13753.2 | 13326.9 | 12695.4 | 12095.8 | 11807.4 | 11487.3 | 11032.7 | 10640.0 | 10279.1 |
| 37.5° | 14540.4 | 14531.5 | 13960.2 | 13323.4 | 12734.3 | 12506.2 | 12338.1 | 11607.5 | 11259.1 | 10910.6 |
| 40° | 15023.3 | 15060.4 | 14572.2 | 13870.0 | 13298.6 | 13132.3 | 13121.7 | 12320.4 | 11973.7 | 11635.8 |
| 42.5° | 15164.8 | 15230.3 | 14876.5 | 14299.8 | 13781.5 | 13601.1 | 13878.8 | 13091.7 | 12805.1 | 12476.1 |
| 45° | 14910.1 | 14973.8 | 14812.8 | 14413.0 | 14110.5 | 13993.8 | 14529.8 | 13891.2 | 13693.1 | 13367.6 |
| 47.5° | 14167.2 | 14246.8 | 14285.7 | 14200.8 | 14197.2 | 14315.7 | 15113.5 | 14733.2 | 14747.4 | 14414.8 |
| 50° | 12729.0 | 12863.5 | 13220.8 | 13521.5 | 13986.7 | 14570.5 | 15681.3 | 15646.0 | 15936.1 | 15649.5 |
| 52.5° | 10114.6 | 10305.6 | 11536.8 | 12359.3 | 13404.8 | 14522.7 | 16305.8 | 17110.6 | 18021.6 | 17602.4 |
| 55° | 8128.1 | 8128.1 | 9129.3 | 10668.3 | 12269.1 | 14207.8 | 16578.2 | 18062.3 | 19442.0 | 19343.0 |
| 57.5° | 6626.3 | 6705.9 | 7344.5 | 8704.8 | 10625.8 | 13457.8 | 16746.2 | 18660.2 | 20586.5 | 20514.0 |
| 60° | 4089.7 | 4261.3 | 5467.7 | 6810.3 | 8756.1 | 12122.3 | 16640.1 | 19265.1 | 21975.1 | 22033.5 |
| 62.5° | 2303.1 | 2366.8 | 2904.5 | 4899.9 | 6808.5 | 10326.9 | 15828.2 | 19603.0 | 23751.1 | 23998.7 |
| 65° | 1590.2 | 1622.1 | 1829.0 | 3049.6 | 4719.4 | 8221.9 | 14241.4 | 19392.5 | 25530.6 | 26031.2 |
| 67.5° | 1155.1 | 1171.0 | 1300.1 | 1862.7 | 2800.2 | 5961.2 | 11754.4 | 18331.2 | 26473.4 | 27310.1 |
| 70° | 888.0 | 898.6 | 992.4 | 1224.1 | 1653.9 | 3679.3 | 8536.7 | 16220.8 | 25790.6 | 26790.0 |
| 72.5° | 721.7 | 732.3 | 804.9 | 905.7 | 1096.7 | 2175.8 | 5174.0 | 13173.0 | 22776.4 | 23855.4 |
| 75° | 608.5 | 622.7 | 688.1 | 753.6 | 859.7 | 1397.4 | 2426.9 | 9173.5 | 17128.3 | 17835.9 |
| 77.5° | 337.9 | 311.3 | 559.0 | 624.4 | 725.3 | 884.5 | 1135.6 | 5398.7 | 9592.8 | 9789.1 |
| 80° | 210.5 | 217.6 | 444.0 | 502.4 | 557.2 | 445.8 | 520.1 | 2078.5 | 3325.5 | 3159.3 |
| 82.5° | 12.4 | 28.3 | 341.4 | 362.6 | 382.1 | 191.0 | 196.3 | 705.8 | 801.3 | 735.9 |
| 85° | 0.0 | 0.0 | 155.7 | 125.6 | 132.7 | 54.8 | 56.6 | 164.5 | 107.9 | 116.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 5.3 | 10.6 | 14.2 | 5.3 | 7.1 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3284.9 | 0° | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 | 3284.9 |
| 3452.9 | 2.5° | 3329.1 | 3205.3 | 2954.1 | 2708.2 | 2508.3 | 2322.6 | 2189.9 | 2064.3 | 2000.6 | 1997.1 |
| 3675.8 | 5° | 3429.9 | 3169.9 | 2667.5 | 2223.5 | 1866.2 | 1579.6 | 1393.9 | 1261.2 | 1194.0 | 1171.0 |
| 3950.0 | 7.5° | 3571.4 | 3180.5 | 2416.3 | 1799.0 | 1378.0 | 1132.1 | 1026.0 | 983.5 | 969.4 | 953.4 |
| 4259.5 | 10° | 3750.1 | 3205.3 | 2191.7 | 1448.7 | 1086.1 | 962.3 | 919.8 | 902.1 | 891.5 | 880.9 |
| 4608.0 | 12.5° | 3950.0 | 3228.2 | 1968.8 | 1202.9 | 955.2 | 891.5 | 861.5 | 840.2 | 826.1 | 813.7 |
| 4965.3 | 15° | 4144.5 | 3242.4 | 1737.1 | 1031.3 | 888.0 | 836.7 | 804.9 | 781.9 | 762.4 | 748.2 |
| 5315.6 | 17.5° | 4337.4 | 3261.9 | 1519.5 | 928.7 | 833.2 | 781.9 | 750.0 | 721.7 | 705.8 | 689.9 |
| 5683.5 | 20° | 4551.4 | 3258.3 | 1314.3 | 856.1 | 778.3 | 727.0 | 693.4 | 666.9 | 651.0 | 633.3 |
| 6072.6 | 22.5° | 4749.5 | 3240.6 | 1133.9 | 794.2 | 721.7 | 672.2 | 635.0 | 608.5 | 592.6 | 578.4 |
| 6470.7 | 25° | 4977.7 | 3226.5 | 983.5 | 737.6 | 668.6 | 619.1 | 578.4 | 553.7 | 536.0 | 523.6 |
| 6870.4 | 27.5° | 5197.0 | 3205.3 | 873.8 | 686.3 | 617.3 | 569.6 | 530.7 | 502.4 | 486.4 | 477.6 |
| 7282.6 | 30° | 5412.8 | 3199.9 | 833.2 | 636.8 | 571.4 | 523.6 | 484.7 | 458.1 | 445.8 | 442.2 |
| 7735.4 | 32.5° | 5672.9 | 3214.1 | 850.8 | 619.1 | 528.9 | 481.1 | 444.0 | 424.5 | 412.2 | 412.2 |
| 8239.6 | 35° | 5950.6 | 3210.6 | 877.4 | 635.0 | 500.6 | 438.7 | 410.4 | 398.0 | 385.6 | 385.6 |
| 8798.5 | 37.5° | 6299.1 | 3215.9 | 898.6 | 661.6 | 490.0 | 403.3 | 387.4 | 371.5 | 364.4 | 364.4 |
| 9410.6 | 40° | 6819.1 | 3391.0 | 888.0 | 684.6 | 486.4 | 378.5 | 346.7 | 341.4 | 336.1 | 336.1 |
| 10102.2 | 42.5° | 7455.9 | 3771.3 | 902.1 | 686.3 | 484.7 | 360.9 | 318.4 | 329.0 | 316.6 | 314.9 |
| 10882.3 | 45° | 8152.9 | 4187.0 | 992.4 | 649.2 | 482.9 | 352.0 | 304.3 | 316.6 | 297.2 | 297.2 |
| 11786.2 | 47.5° | 8844.5 | 4599.2 | 1084.3 | 596.1 | 477.6 | 350.2 | 291.9 | 284.8 | 279.5 | 281.3 |
| 12964.3 | 50° | 9798.0 | 4935.2 | 1119.7 | 523.6 | 465.2 | 346.7 | 268.9 | 270.6 | 267.1 | 270.6 |
| 14625.3 | 52.5° | 10836.3 | 5006.0 | 1077.3 | 442.2 | 429.8 | 336.1 | 253.0 | 260.0 | 258.3 | 261.8 |
| 15794.5 | 55° | 11483.7 | 4929.9 | 889.8 | 367.9 | 375.0 | 293.6 | 237.0 | 251.2 | 251.2 | 251.2 |
| 16937.3 | 57.5° | 12152.4 | 4606.2 | 631.5 | 298.9 | 311.3 | 240.6 | 222.9 | 242.3 | 240.6 | 238.8 |
| 18313.5 | 60° | 12633.5 | 4082.6 | 415.7 | 245.9 | 247.6 | 198.1 | 207.0 | 228.2 | 226.4 | 217.6 |
| 19732.1 | 62.5° | 12992.6 | 3504.2 | 267.1 | 208.7 | 189.3 | 178.7 | 189.3 | 207.0 | 199.9 | 180.4 |
| 20935.0 | 65° | 12951.9 | 2702.9 | 205.2 | 178.7 | 155.7 | 155.7 | 164.5 | 180.4 | 159.2 | 127.4 |
| 21164.9 | 67.5° | 12196.6 | 1829.0 | 169.8 | 150.4 | 130.9 | 129.1 | 136.2 | 150.4 | 136.2 | 107.9 |
| 19986.8 | 70° | 10846.9 | 1195.8 | 136.2 | 116.7 | 104.4 | 95.5 | 109.7 | 129.1 | 115.0 | 86.7 |
| 17015.1 | 72.5° | 8803.8 | 728.8 | 102.6 | 84.9 | 76.1 | 61.9 | 86.7 | 106.1 | 92.0 | 63.7 |
| 11832.2 | 75° | 5695.9 | 371.5 | 70.8 | 54.8 | 40.7 | 37.1 | 63.7 | 79.6 | 63.7 | 38.9 |
| 5250.1 | 77.5° | 2179.3 | 155.7 | 38.9 | 24.8 | 21.2 | 17.7 | 35.4 | 47.8 | 26.5 | 8.8 |
| 1017.1 | 80° | 419.2 | 65.4 | 19.5 | 12.4 | 10.6 | 7.1 | 5.3 | 3.5 | 0.0 | 0.0 |
| 180.4 | 82.5° | 72.5 | 21.2 | 7.1 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35.4 | 85° | 24.8 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.4 | 87.5° | 8.8 | 0.0 | 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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|--------|
| 180° |
| 3284.9 |
| 1993.6 |
| 1167.5 |
| 949.9 |
| 877.4 |
| 810.2 |
| 746.5 |
| 688.1 |
| 631.5 |
| 576.7 |
| 521.8 |
| 477.6 |
| 440.5 |
| 412.2 |
| 385.6 |
| 364.4 |
| 336.1 |
| 313.1 |
| 297.2 |
| 281.3 |
| 270.6 |
| 261.8 |
| 251.2 |
| 238.8 |
| 217.6 |
| 176.9 |
| 123.8 |
| 104.4 |
| 83.1 |
| 60.1 |
| 33.6 |
| 7.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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