

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: P954339

Luminaire Tested: **GALN-SB7C-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954339
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-SB7C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 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: 42413 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

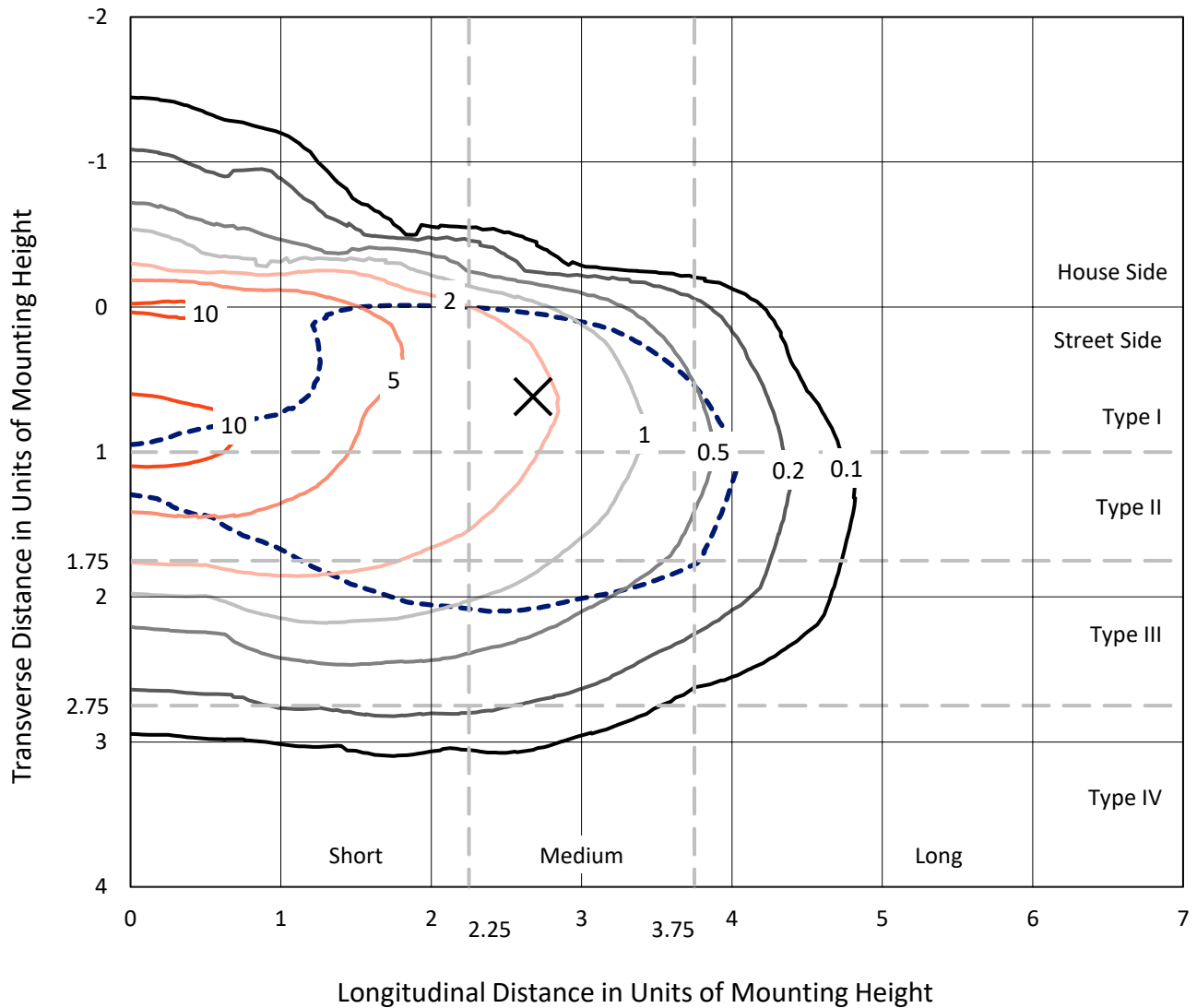
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

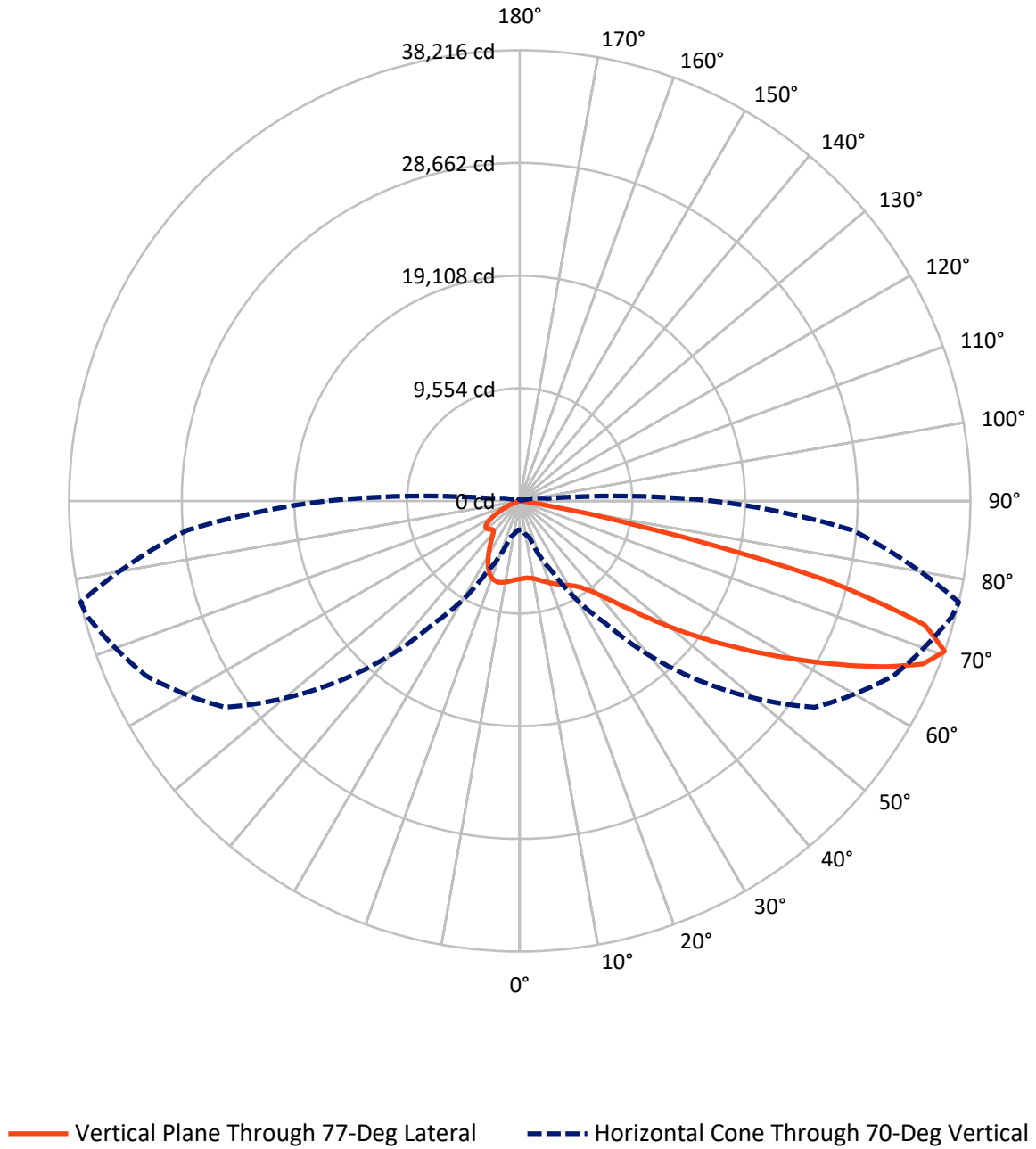
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4470.9 | 0.0 | 4470.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 37942.1 | 0.0 | 37942.1 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 42413.0 | 0.0 | 42413.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 570.2 | 1.3 |
| 10°-20° | 1353.5 | 3.2 |
| 20°-30° | 2093.5 | 4.9 |
| 30°-40° | 3798.8 | 9.0 |
| 40°-50° | 7170.6 | 16.9 |
| 50°-60° | 10361.0 | 24.4 |
| 60°-70° | 11029.0 | 26.0 |
| 70°-80° | 5844.6 | 13.8 |
| 80°-90° | 191.9 | 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° | 42413.0 | 100.0 |
| 0°-180° | 42413.0 | 100.0 |

Coefficient of Utilization



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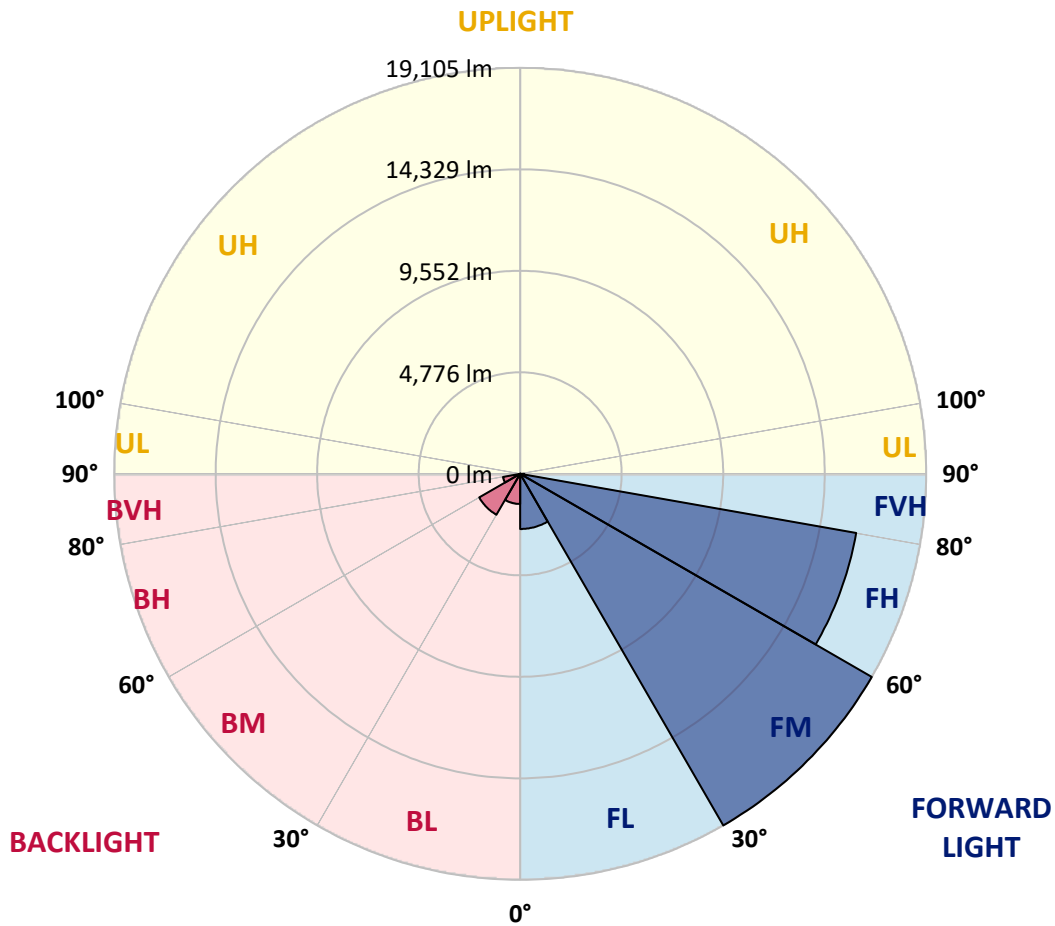
CATALOG NUMBER: GALN-SB7C-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2596.7 | 6.1 | | | |
| FM (30°-60°) | 19104.7 | 45.0 | | | |
| FH (60°-80°) | 16053.9 | 37.9 | | | G5 |
| FVH (80°-90°) | 186.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1420.5 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 2225.6 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 819.6 | 1.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 |
| 2.5° | 6211.2 | 6267.5 | 6259.4 | 6296.9 | 6310.3 | 6363.9 | 6417.5 | 6489.8 | 6570.1 | 6567.5 |
| 5° | 5860.4 | 5916.6 | 5930.0 | 5980.9 | 6045.2 | 6128.2 | 6238.0 | 6382.6 | 6532.6 | 6556.7 |
| 7.5° | 5445.2 | 5504.1 | 5538.9 | 5640.7 | 5758.6 | 5930.0 | 6109.4 | 6321.0 | 6570.1 | 6604.9 |
| 10° | 5030.0 | 5083.6 | 5129.1 | 5273.8 | 5461.3 | 5715.7 | 6007.7 | 6313.0 | 6647.8 | 6698.7 |
| 12.5° | 4772.9 | 4823.8 | 4874.7 | 5000.6 | 5233.6 | 5544.3 | 5940.7 | 6350.5 | 6776.4 | 6848.7 |
| 15° | 4681.9 | 4727.4 | 4767.6 | 4880.1 | 5097.0 | 5450.6 | 5927.3 | 6428.2 | 6939.7 | 7036.2 |
| 17.5° | 4695.2 | 4719.4 | 4746.1 | 4831.8 | 5043.4 | 5407.7 | 5951.4 | 6562.1 | 7132.6 | 7218.3 |
| 20° | 4772.9 | 4786.3 | 4789.0 | 4847.9 | 5035.4 | 5402.3 | 5999.6 | 6690.7 | 7314.7 | 7429.9 |
| 22.5° | 4872.0 | 4877.4 | 4872.0 | 4912.2 | 5086.3 | 5442.5 | 6063.9 | 6846.0 | 7518.3 | 7625.4 |
| 25° | 5335.4 | 5233.6 | 5105.0 | 5027.4 | 5172.0 | 5520.2 | 6160.3 | 7054.9 | 7740.6 | 7845.1 |
| 27.5° | 6773.7 | 6481.7 | 6021.1 | 5504.1 | 5348.8 | 5632.7 | 6294.3 | 7266.5 | 7965.6 | 8059.3 |
| 30° | 9109.3 | 8726.2 | 7944.2 | 6779.0 | 5916.6 | 5868.4 | 6468.3 | 7478.1 | 8204.0 | 8305.7 |
| 32.5° | 11450.2 | 11356.4 | 10453.8 | 8841.4 | 7194.2 | 6393.4 | 6757.6 | 7764.7 | 8520.0 | 8600.4 |
| 35° | 13817.9 | 13627.7 | 12888.5 | 11294.8 | 9162.8 | 7462.0 | 7239.7 | 8139.7 | 8935.2 | 9026.2 |
| 37.5° | 15631.2 | 15516.0 | 15058.0 | 13745.6 | 11498.4 | 9111.9 | 8064.7 | 8720.9 | 9537.8 | 9639.6 |
| 40° | 17232.9 | 17179.3 | 17023.9 | 16158.8 | 14109.8 | 11270.7 | 9347.6 | 9620.8 | 10373.5 | 10494.0 |
| 42.5° | 18491.7 | 18617.6 | 18706.0 | 18464.9 | 16801.6 | 13734.9 | 11072.5 | 10885.0 | 11538.6 | 11661.8 |
| 45° | 19780.0 | 19822.9 | 20179.1 | 20527.3 | 19474.7 | 16311.5 | 13017.1 | 12366.2 | 12987.6 | 13140.3 |
| 47.5° | 20607.7 | 20779.1 | 21405.8 | 22019.2 | 21721.9 | 18866.7 | 15106.2 | 14115.2 | 14666.9 | 14953.5 |
| 50° | 20669.3 | 20993.3 | 21855.8 | 22924.5 | 23358.4 | 21298.7 | 17377.5 | 16107.9 | 16694.5 | 17010.6 |
| 52.5° | 19643.4 | 20147.0 | 21483.5 | 23047.7 | 24242.2 | 23358.4 | 19726.5 | 18100.7 | 18853.3 | 19265.8 |
| 55° | 15060.7 | 15719.6 | 20082.7 | 22378.1 | 24277.1 | 24919.9 | 22013.8 | 20176.4 | 21258.5 | 21724.5 |
| 57.5° | 13121.5 | 13453.6 | 15789.2 | 21215.7 | 23631.6 | 25549.3 | 24081.5 | 22153.1 | 23875.3 | 24453.8 |
| 60° | 10917.2 | 11353.8 | 13242.0 | 19314.0 | 22755.7 | 25610.9 | 25908.2 | 24702.9 | 26711.7 | 27362.6 |
| 62.5° | 7419.2 | 7893.3 | 9770.8 | 16046.3 | 21558.5 | 25581.5 | 27405.4 | 27327.8 | 29864.2 | 30563.3 |
| 65° | 4596.1 | 4893.4 | 6130.9 | 13102.8 | 19884.5 | 25613.6 | 28972.3 | 30515.1 | 33190.8 | 33900.6 |
| 67.5° | 3631.9 | 3768.5 | 4414.0 | 10060.1 | 16999.8 | 24890.4 | 30536.5 | 33512.2 | 36321.9 | 36884.3 |
| 70° | 2440.0 | 2523.1 | 3211.4 | 6744.2 | 12647.4 | 21553.1 | 30507.0 | 35017.5 | 37934.3 | 38215.5 |
| 72.5° | 1285.6 | 1349.9 | 1877.6 | 3123.0 | 7638.8 | 15320.5 | 25715.4 | 33217.6 | 36329.9 | 35906.7 |
| 75° | 642.8 | 750.0 | 1264.2 | 1585.6 | 3262.3 | 8544.1 | 15968.7 | 26189.5 | 28594.7 | 26955.5 |
| 77.5° | 487.5 | 589.2 | 1044.6 | 1044.6 | 1135.6 | 2876.6 | 6763.0 | 14283.9 | 13175.1 | 10970.7 |
| 80° | 310.7 | 401.8 | 913.3 | 790.1 | 474.1 | 731.2 | 1762.4 | 4001.5 | 2798.9 | 2129.3 |
| 82.5° | 182.1 | 262.5 | 760.7 | 522.3 | 265.2 | 270.5 | 498.2 | 851.7 | 725.8 | 565.1 |
| 85° | 72.3 | 171.4 | 522.3 | 206.2 | 104.5 | 67.0 | 150.0 | 182.1 | 150.0 | 112.5 |
| 87.5° | 0.0 | 40.2 | 91.1 | 0.0 | 8.0 | 5.4 | 10.7 | 13.4 | 13.4 | 10.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6615.7 | 0° | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 | 6615.7 |
| 6621.0 | 2.5° | 6645.1 | 6650.5 | 6666.6 | 6669.2 | 6631.7 | 6583.5 | 6564.8 | 6556.7 | 6524.6 | 6521.9 |
| 6663.9 | 5° | 6725.5 | 6749.6 | 6725.5 | 6655.8 | 6489.8 | 6256.8 | 6080.0 | 5935.3 | 5804.1 | 5763.9 |
| 6811.2 | 7.5° | 6886.2 | 6910.3 | 6838.0 | 6564.8 | 6146.9 | 5683.6 | 5265.7 | 4971.1 | 4706.0 | 4606.9 |
| 6990.6 | 10° | 7116.5 | 7148.7 | 6921.0 | 6369.2 | 5630.0 | 4885.4 | 4178.3 | 3680.1 | 3291.8 | 3133.7 |
| 7234.4 | 12.5° | 7405.8 | 7419.2 | 6966.5 | 6071.9 | 4957.7 | 3894.4 | 2892.7 | 2359.7 | 2014.2 | 1885.6 |
| 7529.0 | 15° | 7724.5 | 7705.8 | 6971.9 | 5667.5 | 4041.7 | 2753.4 | 1888.3 | 1550.8 | 1411.5 | 1368.7 |
| 7823.6 | 17.5° | 8059.3 | 7981.6 | 6864.8 | 5083.6 | 3037.3 | 1882.9 | 1400.8 | 1320.5 | 1296.3 | 1285.6 |
| 8115.6 | 20° | 8388.8 | 8214.7 | 6669.2 | 4320.3 | 2180.2 | 1406.2 | 1272.2 | 1248.1 | 1234.7 | 1229.4 |
| 8410.2 | 22.5° | 8688.7 | 8391.4 | 6334.4 | 3433.7 | 1582.9 | 1242.8 | 1202.6 | 1181.2 | 1157.1 | 1146.4 |
| 8696.8 | 25° | 8980.7 | 8493.2 | 5863.0 | 2606.1 | 1266.9 | 1162.4 | 1130.3 | 1090.1 | 1058.0 | 1044.6 |
| 9004.8 | 27.5° | 9264.6 | 8557.5 | 5273.8 | 1928.5 | 1130.3 | 1087.4 | 1028.5 | 972.3 | 948.2 | 942.8 |
| 9334.2 | 30° | 9567.3 | 8578.9 | 4604.2 | 1438.3 | 1047.3 | 993.7 | 908.0 | 843.7 | 830.3 | 833.0 |
| 9778.9 | 32.5° | 9936.9 | 8611.1 | 3929.2 | 1178.5 | 977.6 | 881.2 | 779.4 | 712.5 | 701.7 | 712.5 |
| 10427.0 | 35° | 10378.8 | 8675.4 | 3278.4 | 1084.8 | 916.0 | 766.0 | 656.2 | 600.0 | 589.2 | 597.3 |
| 11257.3 | 37.5° | 10978.8 | 8779.8 | 2670.4 | 1066.0 | 865.1 | 669.6 | 551.8 | 506.2 | 506.2 | 508.9 |
| 12275.1 | 40° | 11776.9 | 9058.4 | 2126.7 | 1052.6 | 838.3 | 597.3 | 466.0 | 447.3 | 455.3 | 460.7 |
| 13571.5 | 42.5° | 12749.2 | 9650.3 | 1759.7 | 1036.5 | 808.9 | 565.1 | 423.2 | 415.2 | 428.5 | 433.9 |
| 15125.0 | 45° | 13839.3 | 10400.2 | 1631.1 | 1009.8 | 782.1 | 586.6 | 404.4 | 393.7 | 409.8 | 412.5 |
| 16865.9 | 47.5° | 14966.9 | 11134.1 | 1615.1 | 980.3 | 755.3 | 618.7 | 399.1 | 375.0 | 393.7 | 396.4 |
| 18724.7 | 50° | 16107.9 | 11613.6 | 1631.1 | 934.8 | 712.5 | 618.7 | 401.8 | 356.2 | 372.3 | 380.3 |
| 20653.2 | 52.5° | 17257.0 | 11833.2 | 1620.4 | 835.7 | 637.5 | 581.2 | 401.8 | 340.2 | 356.2 | 361.6 |
| 22737.0 | 55° | 18371.2 | 11790.3 | 1457.1 | 688.4 | 541.0 | 514.3 | 391.0 | 326.8 | 337.5 | 340.2 |
| 24705.6 | 57.5° | 19252.4 | 11193.1 | 1154.4 | 535.7 | 439.3 | 428.5 | 356.2 | 310.7 | 318.7 | 316.1 |
| 26510.9 | 60° | 19713.1 | 9880.6 | 824.9 | 412.5 | 345.5 | 337.5 | 313.4 | 289.3 | 294.6 | 281.2 |
| 28040.2 | 62.5° | 19718.4 | 8145.0 | 551.8 | 326.8 | 275.9 | 267.8 | 267.8 | 259.8 | 254.4 | 227.7 |
| 29224.1 | 65° | 19297.9 | 6219.3 | 366.9 | 259.8 | 222.3 | 208.9 | 225.0 | 222.3 | 203.6 | 166.1 |
| 29585.7 | 67.5° | 18344.4 | 4076.5 | 278.6 | 203.6 | 171.4 | 163.4 | 179.5 | 187.5 | 174.1 | 139.3 |
| 28267.9 | 70° | 16383.8 | 2373.1 | 230.3 | 158.0 | 128.6 | 120.5 | 144.6 | 160.7 | 144.6 | 112.5 |
| 24161.9 | 72.5° | 13609.0 | 1280.3 | 187.5 | 117.8 | 88.4 | 80.4 | 115.2 | 131.2 | 115.2 | 83.0 |
| 15502.6 | 75° | 8830.7 | 685.7 | 144.6 | 77.7 | 45.5 | 50.9 | 85.7 | 96.4 | 80.4 | 53.6 |
| 4550.6 | 77.5° | 2965.0 | 302.7 | 91.1 | 37.5 | 21.4 | 21.4 | 50.9 | 58.9 | 37.5 | 18.7 |
| 827.6 | 80° | 661.6 | 125.9 | 37.5 | 16.1 | 8.0 | 8.0 | 10.7 | 10.7 | 5.4 | 0.0 |
| 254.4 | 82.5° | 217.0 | 50.9 | 16.1 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64.3 | 85° | 83.0 | 18.7 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.4 | 87.5° | 32.1 | 2.7 | 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> |
|--------------|
| 6615.7 |
| 6527.3 |
| 5739.8 |
| 4566.7 |
| 3066.8 |
| 1845.4 |
| 1368.7 |
| 1283.0 |
| 1224.0 |
| 1143.7 |
| 1039.2 |
| 937.4 |
| 833.0 |
| 709.8 |
| 594.6 |
| 506.2 |
| 460.7 |
| 433.9 |
| 415.2 |
| 399.1 |
| 383.0 |
| 361.6 |
| 340.2 |
| 316.1 |
| 278.6 |
| 219.6 |
| 160.7 |
| 136.6 |
| <i>107.1</i> |
| 80.4 |
| 48.2 |
| 16.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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