

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: P953327

Luminaire Tested: **GALN-SB6D-930-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953327
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-SB6D-930-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 3000K, 900mA 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: 36346 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

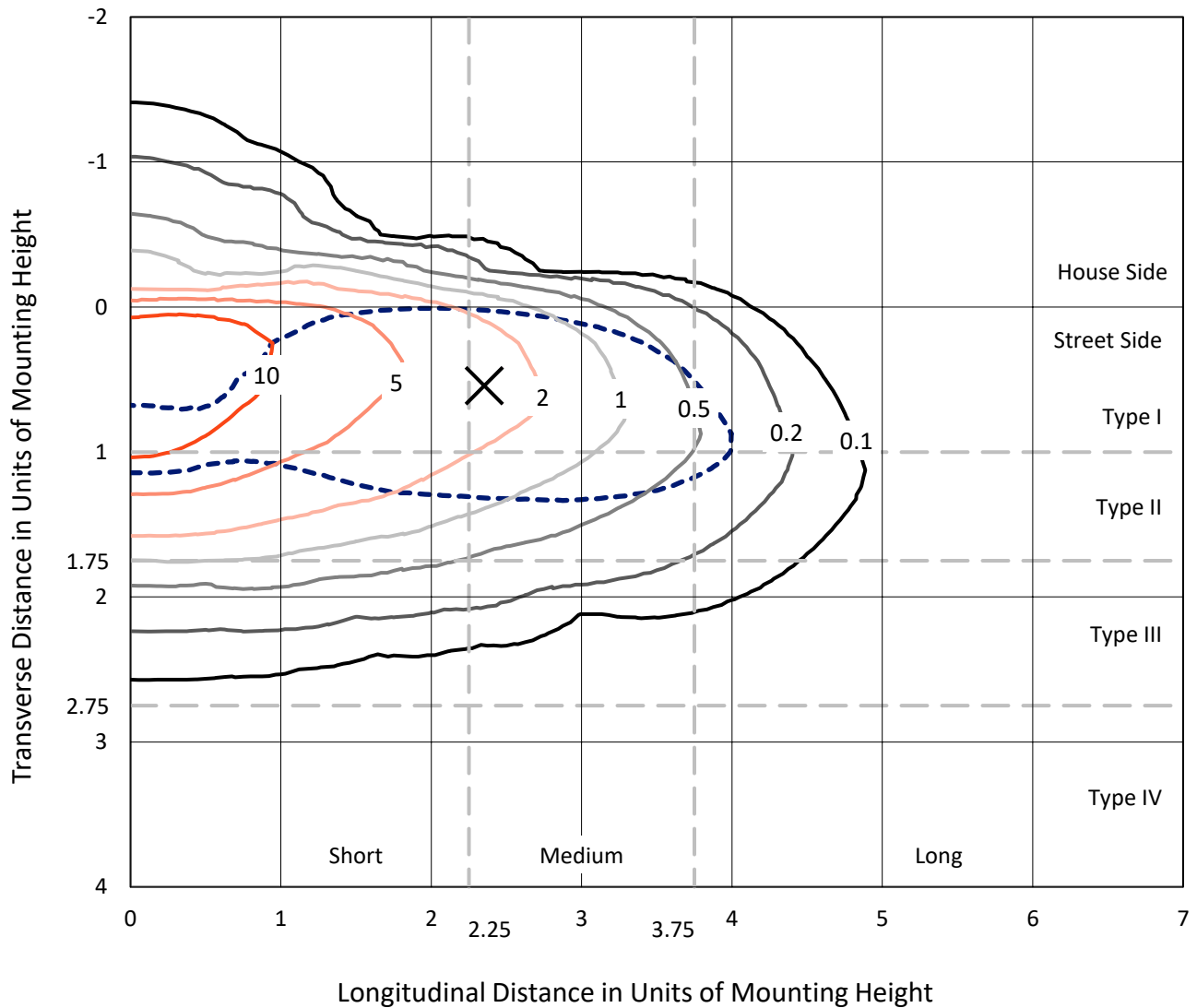
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

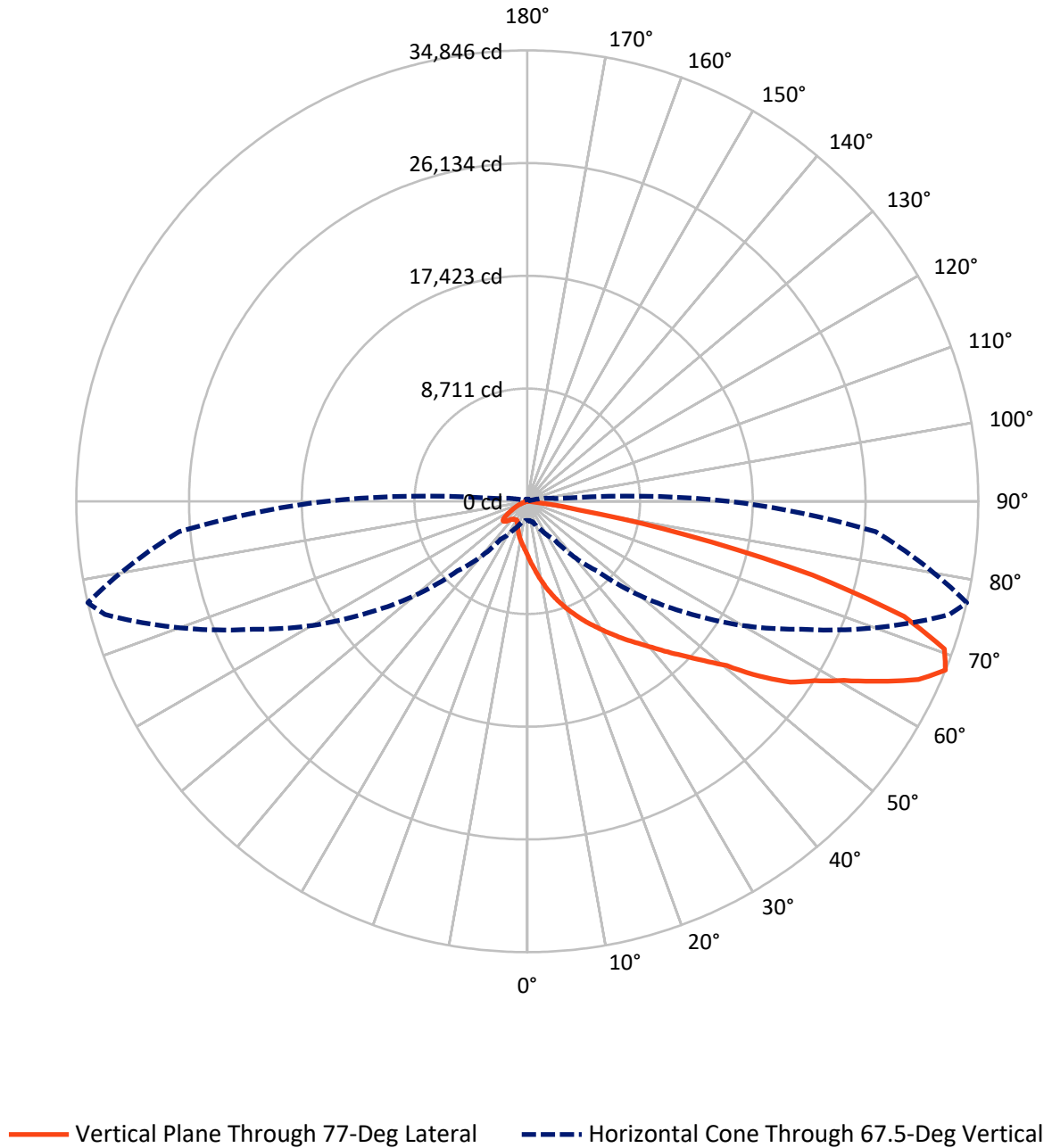
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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 | 2674.0 | 0.0 | 2674.0 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 33672.0 | 0.0 | 33672.0 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 36346.0 | 0.0 | 36346.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.8 | 1.2 |
| 10°-20° | 1498.0 | 4.1 |
| 20°-30° | 2890.8 | 8.0 |
| 30°-40° | 5018.6 | 13.8 |
| 40°-50° | 7286.8 | 20.0 |
| 50°-60° | 8367.9 | 23.0 |
| 60°-70° | 7264.9 | 20.0 |
| 70°-80° | 3421.9 | 9.4 |
| 80°-90° | 169.2 | 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° | 36346.0 | 100.0 |
| 0°-180° | 36346.0 | 100.0 |

Coefficient of Utilization



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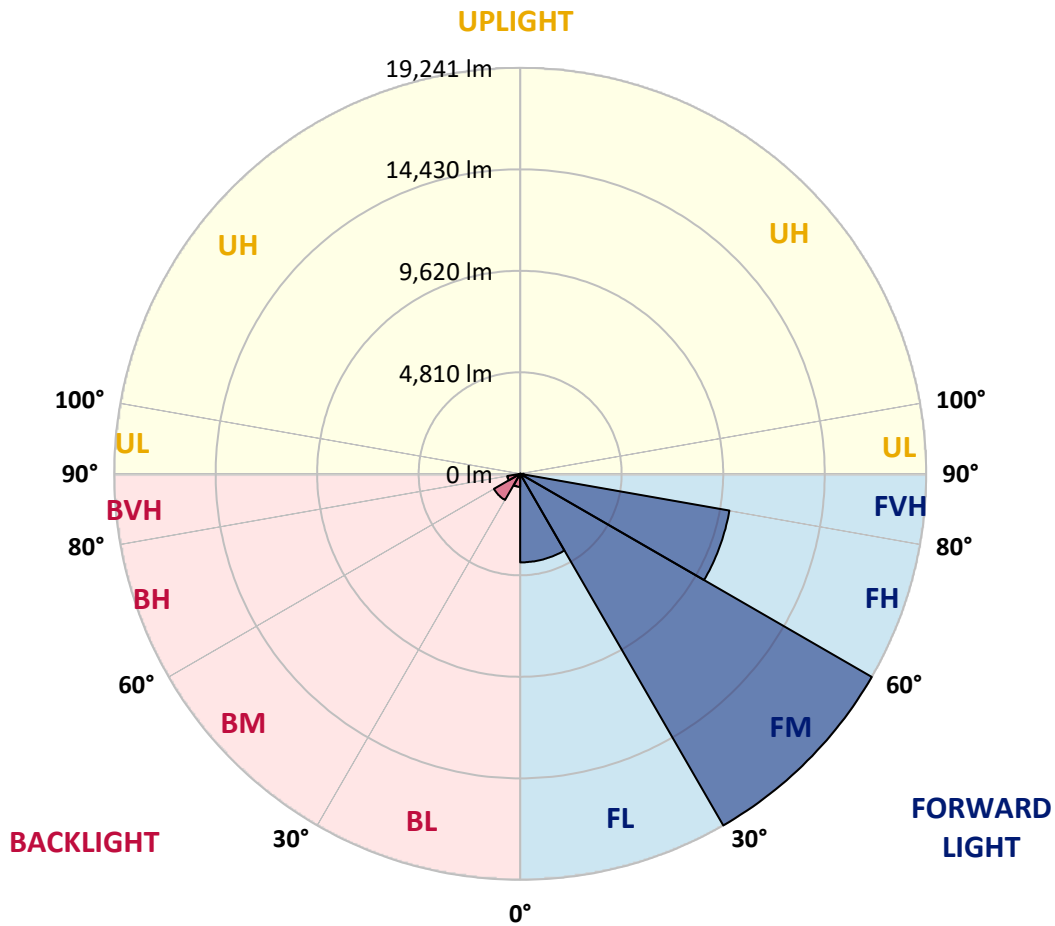
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4197.6 | 11.5 | | | |
| FM (30°-60°) | 19240.6 | 52.9 | | | |
| FH (60°-80°) | 10067.7 | 27.7 | | | G4/12000 |
| FVH (80°-90°) | 166.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 619.1 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 1432.8 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 619.1 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.1 | 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° | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 |
| 2.5° | 5802.7 | 5838.8 | 5786.9 | 5687.6 | 5538.7 | 5441.6 | 5204.6 | 4981.2 | 4732.9 | 4653.9 |
| 5° | 7073.4 | 7105.0 | 7046.3 | 6938.0 | 6739.4 | 6549.8 | 6238.3 | 5771.1 | 5285.9 | 5130.1 |
| 7.5° | 8014.6 | 8032.6 | 8010.1 | 7910.7 | 7721.2 | 7506.7 | 7159.2 | 6606.2 | 5886.2 | 5714.7 |
| 10° | 8691.7 | 8750.3 | 8743.6 | 8705.2 | 8578.8 | 8405.0 | 8034.9 | 7405.2 | 6558.8 | 6337.6 |
| 12.5° | 9140.8 | 9206.3 | 9244.6 | 9330.4 | 9323.6 | 9213.0 | 8888.0 | 8222.2 | 7229.1 | 6969.6 |
| 15° | 9271.7 | 9341.7 | 9488.4 | 9687.0 | 9863.0 | 9919.5 | 9691.5 | 9023.4 | 7967.2 | 7635.4 |
| 17.5° | 9197.2 | 9305.6 | 9481.6 | 9795.3 | 10181.3 | 10436.3 | 10411.5 | 9797.6 | 8637.5 | 8258.3 |
| 20° | 9362.0 | 9465.8 | 9603.5 | 9867.6 | 10316.7 | 10779.4 | 10964.5 | 10537.9 | 9303.3 | 8906.1 |
| 22.5° | 10273.8 | 10255.8 | 10269.3 | 10312.2 | 10580.8 | 11038.9 | 11420.4 | 11210.5 | 9962.3 | 9556.1 |
| 25° | 11718.3 | 11637.0 | 11499.4 | 11266.9 | 11199.2 | 11420.4 | 11817.6 | 11806.3 | 10657.5 | 10221.9 |
| 27.5° | 13374.9 | 13361.4 | 13038.6 | 12478.9 | 12162.9 | 12077.1 | 12266.7 | 12386.4 | 11345.9 | 10880.9 |
| 30° | 14961.6 | 14997.7 | 14562.1 | 13939.2 | 13359.1 | 13022.8 | 12851.3 | 12937.1 | 12045.5 | 11591.9 |
| 32.5° | 16342.9 | 16381.2 | 15907.3 | 15178.2 | 14460.5 | 14054.3 | 13693.2 | 13481.0 | 12808.4 | 12314.1 |
| 35° | 17509.7 | 17548.1 | 17004.2 | 16198.4 | 15433.3 | 15065.4 | 14656.9 | 14076.8 | 13575.8 | 13115.4 |
| 37.5° | 18552.4 | 18541.2 | 17812.2 | 16999.6 | 16248.1 | 15956.9 | 15742.5 | 14810.4 | 14365.7 | 13921.1 |
| 40° | 19168.6 | 19216.0 | 18593.1 | 17697.0 | 16968.0 | 16755.9 | 16742.3 | 15719.9 | 15277.6 | 14846.5 |
| 42.5° | 19349.2 | 19432.7 | 18981.3 | 18245.5 | 17584.2 | 17354.0 | 17708.3 | 16704.0 | 16338.3 | 15918.5 |
| 45° | 19024.2 | 19105.4 | 18900.0 | 18389.9 | 18004.0 | 17855.0 | 18538.9 | 17724.1 | 17471.3 | 17056.1 |
| 47.5° | 18076.2 | 18177.8 | 18227.4 | 18119.1 | 18114.6 | 18265.8 | 19283.7 | 18798.5 | 18816.5 | 18392.2 |
| 50° | 16241.3 | 16412.8 | 16868.7 | 17252.4 | 17846.0 | 18590.8 | 20008.2 | 19963.1 | 20333.2 | 19967.6 |
| 52.5° | 12905.5 | 13149.2 | 14720.1 | 15769.6 | 17103.5 | 18529.9 | 20804.9 | 21831.9 | 22994.2 | 22459.3 |
| 55° | 10370.9 | 10370.9 | 11648.3 | 13611.9 | 15654.5 | 18128.1 | 21152.5 | 23046.1 | 24806.6 | 24680.2 |
| 57.5° | 8454.7 | 8556.2 | 9371.0 | 11106.6 | 13557.7 | 17171.2 | 21366.9 | 23809.0 | 26266.8 | 26174.3 |
| 60° | 5218.2 | 5437.1 | 6976.4 | 8689.4 | 11172.1 | 15467.1 | 21231.5 | 24580.9 | 28038.6 | 28113.1 |
| 62.5° | 2938.6 | 3019.9 | 3706.0 | 6251.9 | 8687.1 | 13176.3 | 20195.5 | 25011.9 | 30304.6 | 30620.6 |
| 65° | 2029.0 | 2069.7 | 2333.7 | 3891.0 | 6021.6 | 10490.5 | 18171.0 | 24743.4 | 32575.1 | 33213.8 |
| 67.5° | 1473.8 | 1494.1 | 1658.9 | 2376.6 | 3572.8 | 7606.1 | 14997.7 | 23389.2 | 33778.1 | 34845.6 |
| 70° | 1133.0 | 1146.6 | 1266.2 | 1561.8 | 2110.3 | 4694.5 | 10892.2 | 20696.6 | 32906.9 | 34182.1 |
| 72.5° | 920.9 | 934.4 | 1026.9 | 1155.6 | 1399.3 | 2776.1 | 6601.7 | 16807.8 | 29061.0 | 30437.7 |
| 75° | 776.4 | 794.5 | 878.0 | 961.5 | 1096.9 | 1783.0 | 3096.6 | 11704.7 | 21854.4 | 22757.2 |
| 77.5° | 431.1 | 397.2 | 713.2 | 796.7 | 925.4 | 1128.5 | 1449.0 | 6888.3 | 12239.6 | 12490.2 |
| 80° | 268.6 | 277.6 | 566.5 | 641.0 | 711.0 | 568.8 | 663.6 | 2652.0 | 4243.1 | 4031.0 |
| 82.5° | 15.8 | 36.1 | 435.6 | 462.7 | 487.5 | 243.8 | 250.5 | 900.5 | 1022.4 | 938.9 |
| 85° | 0.0 | 0.0 | 198.6 | 160.2 | 169.3 | 70.0 | 72.2 | 209.9 | 137.7 | 149.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.5 | 0.0 | 6.8 | 13.5 | 18.1 | 6.8 | 9.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4191.2 | 0° | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 | 4191.2 |
| 4405.6 | 2.5° | 4247.7 | 4089.7 | 3769.2 | 3455.4 | 3200.4 | 2963.4 | 2794.2 | 2633.9 | 2552.7 | 2548.1 |
| 4690.0 | 5° | 4376.3 | 4044.5 | 3403.5 | 2837.0 | 2381.1 | 2015.5 | 1778.5 | 1609.2 | 1523.5 | 1494.1 |
| 5039.9 | 7.5° | 4556.9 | 4058.1 | 3083.0 | 2295.4 | 1758.2 | 1444.5 | 1309.1 | 1254.9 | 1236.8 | 1216.5 |
| 5434.8 | 10° | 4784.8 | 4089.7 | 2796.4 | 1848.5 | 1385.8 | 1227.8 | 1173.6 | 1151.1 | 1137.5 | 1124.0 |
| 5879.5 | 12.5° | 5039.9 | 4119.0 | 2512.0 | 1534.8 | 1218.8 | 1137.5 | 1099.2 | 1072.1 | 1054.0 | 1038.2 |
| 6335.4 | 15° | 5288.1 | 4137.1 | 2216.4 | 1315.8 | 1133.0 | 1067.6 | 1026.9 | 997.6 | 972.8 | 954.7 |
| 6782.3 | 17.5° | 5534.1 | 4161.9 | 1938.8 | 1184.9 | 1063.0 | 997.6 | 957.0 | 920.9 | 900.5 | 880.2 |
| 7251.7 | 20° | 5807.2 | 4157.4 | 1676.9 | 1092.4 | 993.1 | 927.6 | 884.7 | 850.9 | 830.6 | 808.0 |
| 7748.2 | 22.5° | 6060.0 | 4134.8 | 1446.7 | 1013.4 | 920.9 | 857.7 | 810.3 | 776.4 | 756.1 | 738.0 |
| 8256.1 | 25° | 6351.2 | 4116.7 | 1254.9 | 941.2 | 853.1 | 789.9 | 738.0 | 706.4 | 683.9 | 668.1 |
| 8766.1 | 27.5° | 6631.0 | 4089.7 | 1115.0 | 875.7 | 787.7 | 726.8 | 677.1 | 641.0 | 620.7 | 609.4 |
| 9292.0 | 30° | 6906.4 | 4082.9 | 1063.0 | 812.5 | 729.0 | 668.1 | 618.4 | 584.6 | 568.8 | 564.2 |
| 9869.8 | 32.5° | 7238.2 | 4100.9 | 1085.6 | 789.9 | 674.8 | 613.9 | 566.5 | 541.7 | 525.9 | 525.9 |
| 10513.1 | 35° | 7592.5 | 4096.4 | 1119.5 | 810.3 | 638.7 | 559.7 | 523.6 | 507.8 | 492.0 | 492.0 |
| 11226.3 | 37.5° | 8037.1 | 4103.2 | 1146.6 | 844.1 | 625.2 | 514.6 | 494.3 | 474.0 | 464.9 | 464.9 |
| 12007.2 | 40° | 8700.7 | 4326.6 | 1133.0 | 873.5 | 620.7 | 483.0 | 442.4 | 435.6 | 428.8 | 428.8 |
| 12889.7 | 42.5° | 9513.2 | 4811.9 | 1151.1 | 875.7 | 618.4 | 460.4 | 406.3 | 419.8 | 404.0 | 401.7 |
| 13885.0 | 45° | 10402.5 | 5342.3 | 1266.2 | 828.3 | 616.2 | 449.1 | 388.2 | 404.0 | 379.2 | 379.2 |
| 15038.3 | 47.5° | 11284.9 | 5868.2 | 1383.5 | 760.6 | 609.4 | 446.9 | 372.4 | 363.4 | 356.6 | 358.9 |
| 16541.5 | 50° | 12501.5 | 6297.0 | 1428.7 | 668.1 | 593.6 | 442.4 | 343.1 | 345.3 | 340.8 | 345.3 |
| 18660.8 | 52.5° | 13826.3 | 6387.3 | 1374.5 | 564.2 | 548.4 | 428.8 | 322.7 | 331.8 | 329.5 | 334.0 |
| 20152.7 | 55° | 14652.4 | 6290.2 | 1135.3 | 469.5 | 478.5 | 374.7 | 302.4 | 320.5 | 320.5 | 320.5 |
| 21610.7 | 57.5° | 15505.5 | 5877.2 | 805.7 | 381.4 | 397.2 | 307.0 | 284.4 | 309.2 | 307.0 | 304.7 |
| 23366.6 | 60° | 16119.4 | 5209.1 | 530.4 | 313.7 | 316.0 | 252.8 | 264.1 | 291.2 | 288.9 | 277.6 |
| 25176.7 | 62.5° | 16577.6 | 4471.1 | 340.8 | 266.3 | 241.5 | 228.0 | 241.5 | 264.1 | 255.0 | 230.2 |
| 26711.5 | 65° | 16525.7 | 3448.7 | 261.8 | 228.0 | 198.6 | 198.6 | 209.9 | 230.2 | 203.1 | 162.5 |
| 27004.9 | 67.5° | 15561.9 | 2333.7 | 216.7 | 191.8 | 167.0 | 164.8 | 173.8 | 191.8 | 173.8 | 137.7 |
| 25501.7 | 70° | 13839.9 | 1525.7 | 173.8 | 149.0 | 133.2 | 121.9 | 139.9 | 164.8 | 146.7 | 110.6 |
| 21710.0 | 72.5° | 11233.0 | 929.9 | 130.9 | 108.3 | 97.1 | 79.0 | 110.6 | 135.4 | 117.4 | 81.3 |
| 15097.0 | 75° | 7267.5 | 474.0 | 90.3 | 70.0 | 51.9 | 47.4 | 81.3 | 101.6 | 81.3 | 49.7 |
| 6698.7 | 77.5° | 2780.6 | 198.6 | 49.7 | 31.6 | 27.1 | 22.6 | 45.1 | 60.9 | 33.9 | 11.3 |
| 1297.8 | 80° | 534.9 | 83.5 | 24.8 | 15.8 | 13.5 | 9.0 | 6.8 | 4.5 | 0.0 | 0.0 |
| 230.2 | 82.5° | 92.5 | 27.1 | 9.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45.1 | 85° | 31.6 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.8 | 87.5° | 11.3 | 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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| |
|-------------|
| <u>180°</u> |
| 4191.2 |
| 2543.6 |
| 1489.6 |
| 1212.0 |
| 1119.5 |
| 1033.7 |
| 952.4 |
| 878.0 |
| 805.7 |
| 735.8 |
| 665.8 |
| 609.4 |
| 562.0 |
| 525.9 |
| 492.0 |
| 464.9 |
| 428.8 |
| 399.5 |
| 379.2 |
| 358.9 |
| 345.3 |
| 334.0 |
| 320.5 |
| 304.7 |
| 277.6 |
| 225.7 |
| 158.0 |
| 133.2 |
| 106.1 |
| 76.7 |
| 42.9 |
| 9.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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