

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: P948729

Luminaire Tested: **GALN-SB3C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16585 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

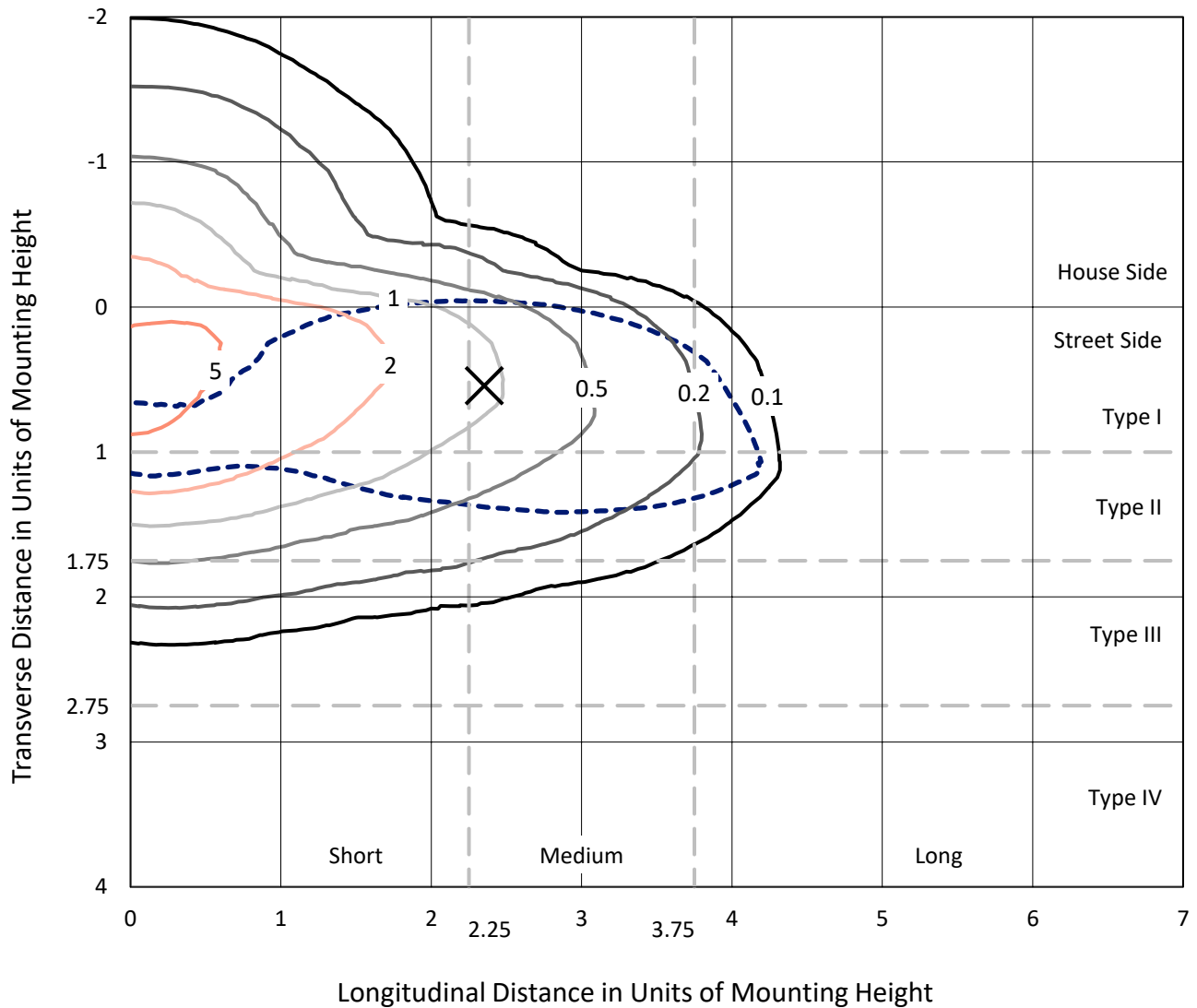
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

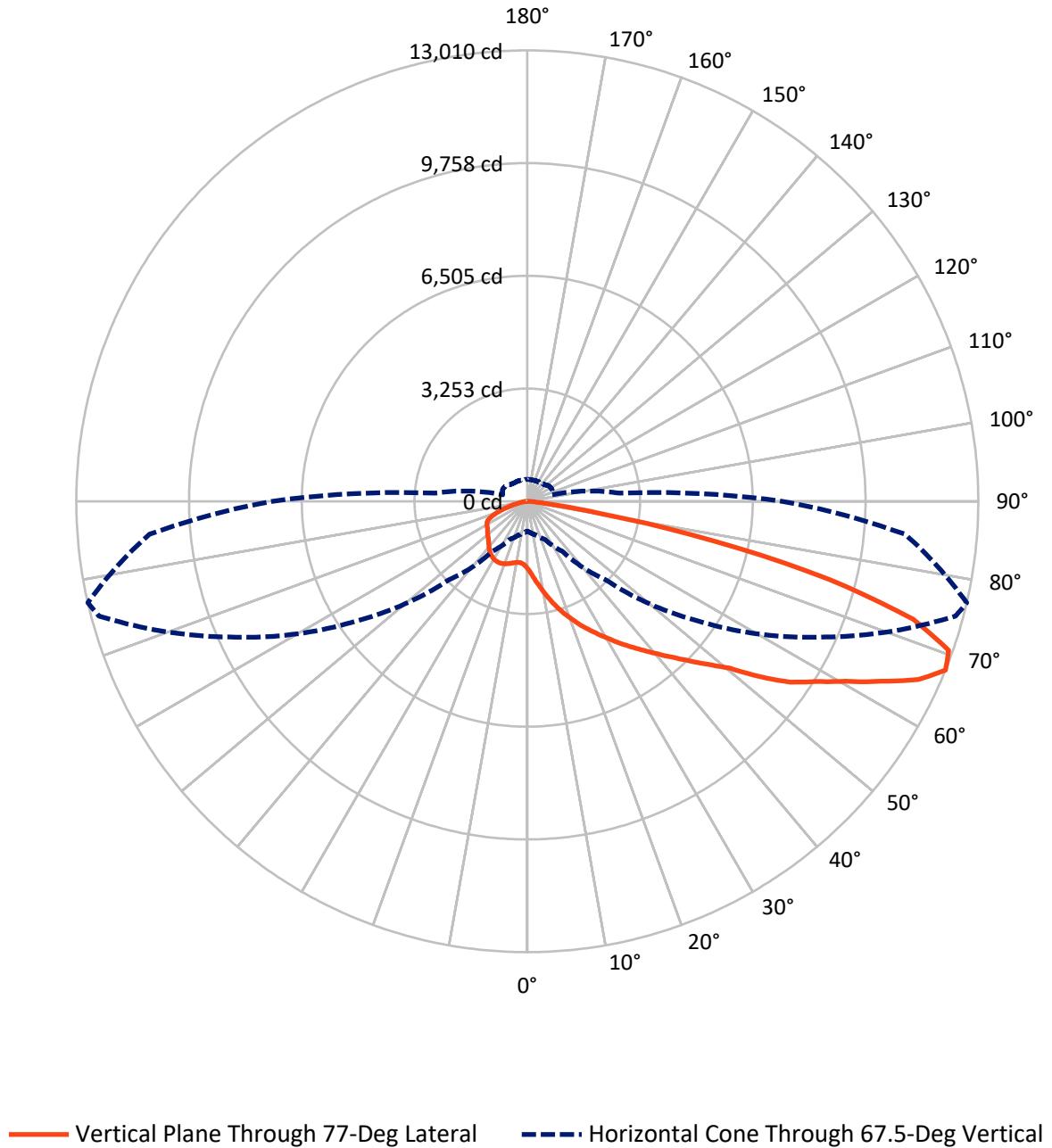
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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 | 3137.2 | 0.0 | 3137.2 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 13447.8 | 0.0 | 13447.8 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 16585.0 | 0.0 | 16585.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 208.6 | 1.3 |
| 10°-20° | 749.3 | 4.5 |
| 20°-30° | 1414.8 | 8.5 |
| 30°-40° | 2279.3 | 13.7 |
| 40°-50° | 3117.6 | 18.8 |
| 50°-60° | 3516.7 | 21.2 |
| 60°-70° | 3282.4 | 19.8 |
| 70°-80° | 1799.3 | 10.8 |
| 80°-90° | 217.0 | 1.3 |
| 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° | 16585.0 | 100.0 |
| 0°-180° | 16585.0 | 100.0 |

Coefficient of Utilization



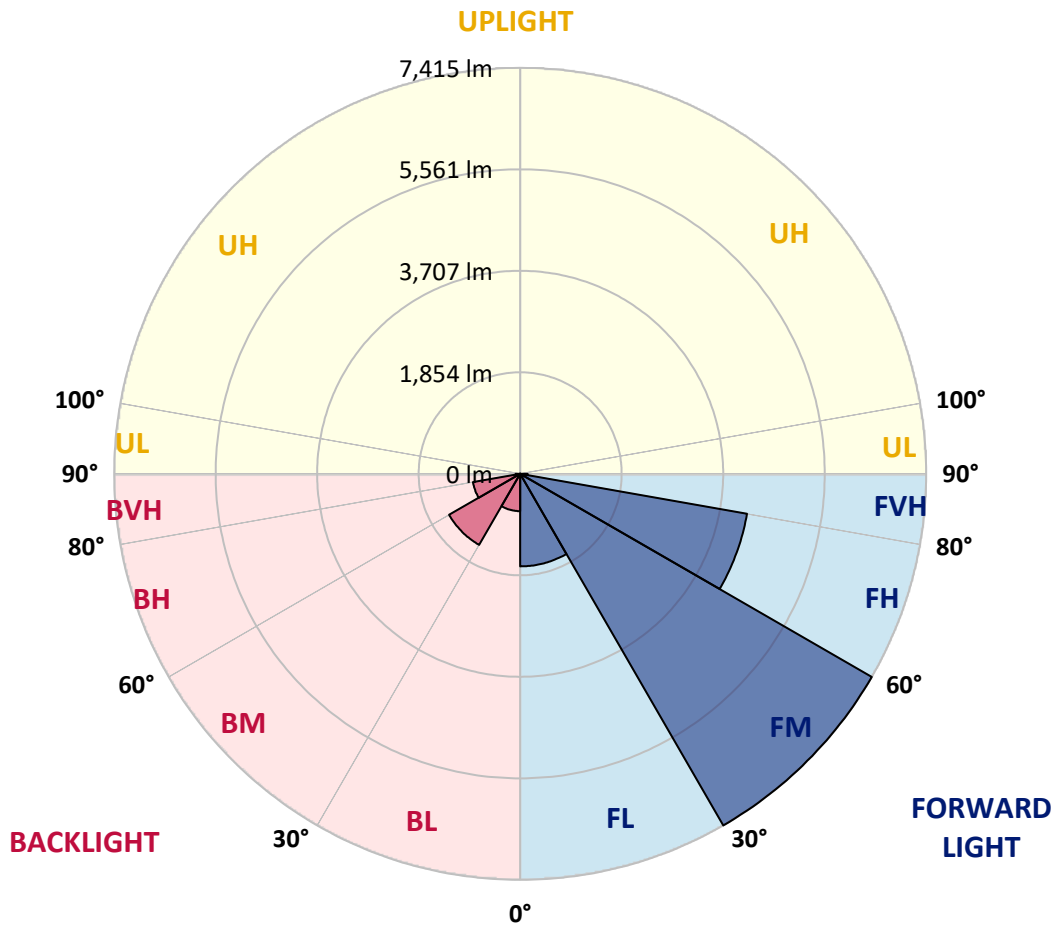
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1690.6 | 10.2 | | | |
| FM (30°-60°) | 7415.0 | 44.7 | | | |
| FH (60°-80°) | 4206.4 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 135.7 | 0.8 | | | G2/225 |
| BL (0°-30°) | 682.1 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1498.6 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 875.2 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.3 | 0.5 | | | G1/100 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 |
| 2.5° | 2436.5 | 2453.6 | 2432.2 | 2432.2 | 2360.3 | 2322.6 | 2250.7 | 2195.9 | 2097.5 | 2080.3 |
| 5° | 2880.0 | 2901.4 | 2871.4 | 2858.5 | 2773.8 | 2695.9 | 2575.2 | 2456.2 | 2280.7 | 2262.7 |
| 7.5° | 3223.3 | 3250.6 | 3224.1 | 3210.4 | 3135.1 | 3047.7 | 2906.5 | 2740.4 | 2493.0 | 2457.9 |
| 10° | 3503.2 | 3507.5 | 3498.9 | 3504.1 | 3445.0 | 3373.1 | 3228.4 | 3034.9 | 2725.9 | 2677.9 |
| 12.5° | 3661.6 | 3681.3 | 3698.4 | 3729.2 | 3718.9 | 3674.4 | 3544.3 | 3313.1 | 2972.4 | 2910.8 |
| 15° | 3736.1 | 3770.3 | 3808.8 | 3879.9 | 3937.2 | 3948.4 | 3849.1 | 3611.9 | 3223.3 | 3148.8 |
| 17.5° | 3762.6 | 3795.1 | 3855.9 | 3958.6 | 4081.9 | 4165.0 | 4120.5 | 3902.1 | 3471.5 | 3385.9 |
| 20° | 3897.0 | 3906.4 | 3943.2 | 4040.8 | 4174.4 | 4312.2 | 4345.6 | 4181.2 | 3717.2 | 3620.5 |
| 22.5° | 4184.7 | 4165.8 | 4176.1 | 4220.6 | 4316.5 | 4450.1 | 4526.2 | 4427.8 | 3969.8 | 3858.5 |
| 25° | 4659.8 | 4605.0 | 4550.2 | 4498.9 | 4547.7 | 4623.0 | 4709.5 | 4674.4 | 4234.3 | 4093.1 |
| 27.5° | 5259.9 | 5193.2 | 5072.4 | 4903.8 | 4844.7 | 4871.3 | 4909.8 | 4902.9 | 4479.2 | 4336.2 |
| 30° | 5850.6 | 5772.7 | 5628.9 | 5384.9 | 5229.1 | 5158.9 | 5129.8 | 5110.1 | 4745.4 | 4593.0 |
| 32.5° | 6322.4 | 6260.7 | 6119.5 | 5846.4 | 5620.4 | 5500.5 | 5403.8 | 5333.6 | 5023.6 | 4871.3 |
| 35° | 6735.0 | 6677.7 | 6515.8 | 6217.9 | 5972.2 | 5844.7 | 5718.0 | 5568.1 | 5313.0 | 5158.9 |
| 37.5° | 7111.7 | 7054.3 | 6832.6 | 6522.7 | 6275.3 | 6187.1 | 6074.1 | 5819.8 | 5603.2 | 5457.7 |
| 40° | 7349.7 | 7336.9 | 7129.7 | 6778.7 | 6521.8 | 6478.2 | 6440.5 | 6111.8 | 5925.1 | 5789.9 |
| 42.5° | 7410.5 | 7438.7 | 7274.4 | 6985.8 | 6741.0 | 6705.9 | 6794.1 | 6442.2 | 6286.4 | 6157.1 |
| 45° | 7264.1 | 7345.4 | 7237.5 | 7041.5 | 6896.8 | 6878.0 | 7107.4 | 6803.5 | 6686.2 | 6568.1 |
| 47.5° | 6893.4 | 7031.2 | 6986.7 | 6959.3 | 6938.8 | 7020.1 | 7383.1 | 7187.0 | 7139.1 | 7036.4 |
| 50° | 6145.2 | 6406.3 | 6484.2 | 6657.1 | 6855.7 | 7130.5 | 7633.9 | 7605.7 | 7668.2 | 7564.6 |
| 52.5° | 4851.6 | 5211.1 | 5663.2 | 6096.4 | 6600.6 | 7093.7 | 7909.6 | 8206.7 | 8470.3 | 8413.8 |
| 55° | 4004.9 | 4166.7 | 4514.3 | 5308.7 | 6105.8 | 6938.8 | 8033.7 | 8692.1 | 9266.5 | 9216.0 |
| 57.5° | 3354.2 | 3498.9 | 3712.9 | 4376.4 | 5357.5 | 6586.9 | 8110.8 | 8988.3 | 9811.9 | 9806.7 |
| 60° | 2656.5 | 2809.7 | 3028.9 | 3498.9 | 4483.4 | 5979.1 | 8093.7 | 9325.6 | 10507.9 | 10550.7 |
| 62.5° | 1868.9 | 2037.5 | 2280.7 | 2719.0 | 3590.5 | 5191.4 | 7744.4 | 9569.6 | 11327.2 | 11443.6 |
| 65° | 1228.5 | 1339.8 | 1523.0 | 1901.4 | 2675.3 | 4178.7 | 7077.5 | 9601.3 | 12203.8 | 12400.7 |
| 67.5° | 861.2 | 904.1 | 1011.9 | 1217.4 | 1763.6 | 3204.4 | 6015.0 | 9273.4 | 12788.6 | 13010.3 |
| 70° | 672.0 | 693.4 | 748.2 | 830.4 | 1107.8 | 2154.8 | 4609.3 | 8420.7 | 12663.6 | 12894.7 |
| 72.5° | 580.4 | 601.0 | 621.5 | 631.8 | 743.1 | 1330.4 | 3122.2 | 7040.6 | 11486.4 | 11643.1 |
| 75° | 526.5 | 531.6 | 548.8 | 545.3 | 566.7 | 863.0 | 1802.1 | 5129.8 | 9062.8 | 9008.8 |
| 77.5° | 442.6 | 449.5 | 477.7 | 473.4 | 503.4 | 589.9 | 935.7 | 3310.6 | 5875.5 | 5509.1 |
| 80° | 375.0 | 378.4 | 409.2 | 404.1 | 437.5 | 427.2 | 477.7 | 1687.4 | 2492.1 | 2111.2 |
| 82.5° | 130.1 | 160.9 | 312.5 | 321.9 | 333.9 | 258.5 | 275.7 | 688.3 | 761.1 | 583.0 |
| 85° | 63.4 | 67.6 | 159.2 | 226.0 | 225.2 | 130.1 | 134.4 | 245.7 | 239.7 | 188.3 |
| 87.5° | 10.3 | 12.8 | 18.8 | 88.2 | 70.2 | 34.2 | 46.2 | 47.9 | 49.7 | 42.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P948729
 CATALOG NUMBER: GALN-SB3C-940-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1945.9 | 0° | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 | 1945.9 |
| 2015.3 | 2.5° | 1967.3 | 1924.5 | 1834.6 | 1751.6 | 1686.5 | 1624.0 | 1588.9 | 1559.0 | 1541.9 | 1538.4 |
| 2109.5 | 5° | 2020.4 | 1932.2 | 1768.7 | 1630.9 | 1541.0 | 1474.2 | 1439.1 | 1416.9 | 1405.7 | 1398.9 |
| 2236.2 | 7.5° | 2096.6 | 1967.3 | 1734.5 | 1577.8 | 1483.6 | 1435.7 | 1417.7 | 1414.3 | 1413.4 | 1414.3 |
| 2389.4 | 10° | 2201.9 | 2024.7 | 1731.1 | 1565.0 | 1486.2 | 1459.7 | 1458.8 | 1459.7 | 1463.1 | 1463.9 |
| 2556.3 | 12.5° | 2315.8 | 2083.8 | 1744.8 | 1576.1 | 1518.7 | 1504.2 | 1501.6 | 1500.8 | 1503.3 | 1505.0 |
| 2725.0 | 15° | 2439.9 | 2161.7 | 1767.9 | 1600.1 | 1554.7 | 1539.3 | 1536.7 | 1531.6 | 1530.7 | 1529.9 |
| 2902.2 | 17.5° | 2567.5 | 2238.7 | 1793.5 | 1625.8 | 1577.8 | 1556.4 | 1547.0 | 1535.0 | 1525.6 | 1523.0 |
| 3085.4 | 20° | 2696.7 | 2314.9 | 1811.5 | 1638.6 | 1579.5 | 1549.6 | 1530.7 | 1510.2 | 1493.9 | 1484.5 |
| 3270.3 | 22.5° | 2834.6 | 2394.5 | 1822.7 | 1635.2 | 1564.1 | 1523.0 | 1488.8 | 1464.8 | 1440.0 | 1423.7 |
| 3457.0 | 25° | 2969.0 | 2463.9 | 1821.8 | 1617.2 | 1534.1 | 1481.9 | 1438.3 | 1407.4 | 1373.2 | 1356.1 |
| 3649.6 | 27.5° | 3098.3 | 2526.4 | 1800.4 | 1585.5 | 1491.3 | 1433.1 | 1380.9 | 1344.1 | 1310.7 | 1294.4 |
| 3843.9 | 30° | 3231.8 | 2578.6 | 1767.0 | 1539.3 | 1440.8 | 1376.6 | 1319.3 | 1287.6 | 1257.6 | 1242.2 |
| 4049.4 | 32.5° | 3364.5 | 2626.5 | 1719.9 | 1481.9 | 1382.6 | 1321.0 | 1264.5 | 1235.4 | 1217.4 | 1217.4 |
| 4270.3 | 35° | 3504.9 | 2659.9 | 1657.4 | 1415.1 | 1321.0 | 1261.9 | 1217.4 | 1200.3 | 1198.6 | 1188.3 |
| 4504.0 | 37.5° | 3653.0 | 2681.3 | 1581.2 | 1346.7 | 1260.2 | 1204.5 | 1190.8 | 1170.3 | 1153.2 | 1130.9 |
| 4760.8 | 40° | 3808.8 | 2702.7 | 1489.6 | 1275.6 | 1196.0 | 1165.2 | 1159.2 | 1131.8 | 1083.0 | 1028.2 |
| 5051.9 | 42.5° | 3998.0 | 2717.3 | 1394.6 | 1204.5 | 1128.4 | 1118.1 | 1126.6 | 1079.6 | 1001.6 | 960.6 |
| 5402.9 | 45° | 4217.2 | 2741.3 | 1307.3 | 1134.3 | 1059.0 | 1059.0 | 1095.0 | 1033.3 | 969.1 | 943.4 |
| 5803.6 | 47.5° | 4501.4 | 2796.9 | 1225.9 | 1057.3 | 994.8 | 1011.9 | 1024.8 | 977.7 | 941.7 | 910.0 |
| 6291.5 | 50° | 4912.4 | 2930.5 | 1142.0 | 979.4 | 946.0 | 980.2 | 962.3 | 934.9 | 892.9 | 867.2 |
| 7067.2 | 52.5° | 5422.6 | 3009.2 | 1067.6 | 909.2 | 904.1 | 938.3 | 912.6 | 886.9 | 855.3 | 821.0 |
| 7655.3 | 55° | 5770.2 | 3023.8 | 1005.1 | 857.8 | 875.8 | 872.4 | 863.0 | 839.8 | 822.7 | 777.3 |
| 8235.8 | 57.5° | 6158.8 | 3052.9 | 953.7 | 827.0 | 857.8 | 820.2 | 816.7 | 797.0 | 774.8 | 744.0 |
| 8943.8 | 60° | 6623.7 | 3098.3 | 909.2 | 815.0 | 842.4 | 785.9 | 768.8 | 761.1 | 738.8 | 723.4 |
| 9795.6 | 62.5° | 7130.5 | 3139.4 | 863.8 | 816.7 | 824.4 | 752.5 | 726.8 | 724.3 | 710.6 | 705.4 |
| 10595.2 | 65° | 7476.4 | 3027.2 | 807.3 | 815.0 | 796.2 | 718.3 | 685.7 | 684.9 | 673.8 | 672.0 |
| 10941.9 | 67.5° | 7355.7 | 2671.9 | 731.1 | 791.0 | 767.1 | 684.0 | 648.1 | 644.7 | 630.1 | 631.0 |
| 10579.8 | 70° | 6751.3 | 2165.1 | 625.8 | 732.0 | 731.1 | 653.2 | 608.7 | 597.6 | 577.9 | 581.3 |
| 9198.9 | 72.5° | 5617.8 | 1604.3 | 484.6 | 633.5 | 673.8 | 625.0 | 563.3 | 545.3 | 520.5 | 523.9 |
| 6790.7 | 75° | 4057.1 | 1090.7 | 352.7 | 482.0 | 586.4 | 591.6 | 518.8 | 488.0 | 458.0 | 463.2 |
| 3779.7 | 77.5° | 2076.1 | 618.1 | 259.4 | 332.2 | 460.6 | 537.6 | 478.6 | 437.5 | 430.6 | 478.6 |
| 1089.8 | 80° | 677.2 | 309.9 | 179.8 | 232.9 | 302.2 | 440.0 | 419.5 | 372.4 | 370.7 | 381.8 |
| 228.6 | 82.5° | 202.0 | 131.0 | 115.6 | 153.2 | 166.9 | 337.3 | 362.1 | 281.7 | 242.3 | 255.1 |
| 76.2 | 85° | 69.3 | 63.4 | 65.9 | 76.2 | 79.6 | 197.8 | 253.4 | 186.6 | 176.4 | 194.3 |
| 17.1 | 87.5° | 16.3 | 22.3 | 18.8 | 17.1 | 17.1 | 47.9 | 98.5 | 77.9 | 107.9 | 71.9 |
| 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> |
|-------------|
| 1945.9 |
| 1538.4 |
| 1398.0 |
| 1416.9 |
| 1464.8 |
| 1505.9 |
| 1529.0 |
| 1525.6 |
| 1487.9 |
| 1424.6 |
| 1356.1 |
| 1293.6 |
| 1241.4 |
| 1218.2 |
| 1185.7 |
| 1127.5 |
| 1020.5 |
| 961.4 |
| 947.7 |
| 909.2 |
| 864.7 |
| 814.2 |
| 778.2 |
| 733.7 |
| 727.7 |
| 705.4 |
| 671.2 |
| 631.0 |
| 584.7 |
| 523.1 |
| 464.9 |
| 471.7 |
| 327.9 |
| 263.7 |
| 191.8 |
| 69.3 |
| 0.0 |

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