

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: P948141

Luminaire Tested: **GALN-SB3B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948141
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-SB3B-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18206 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

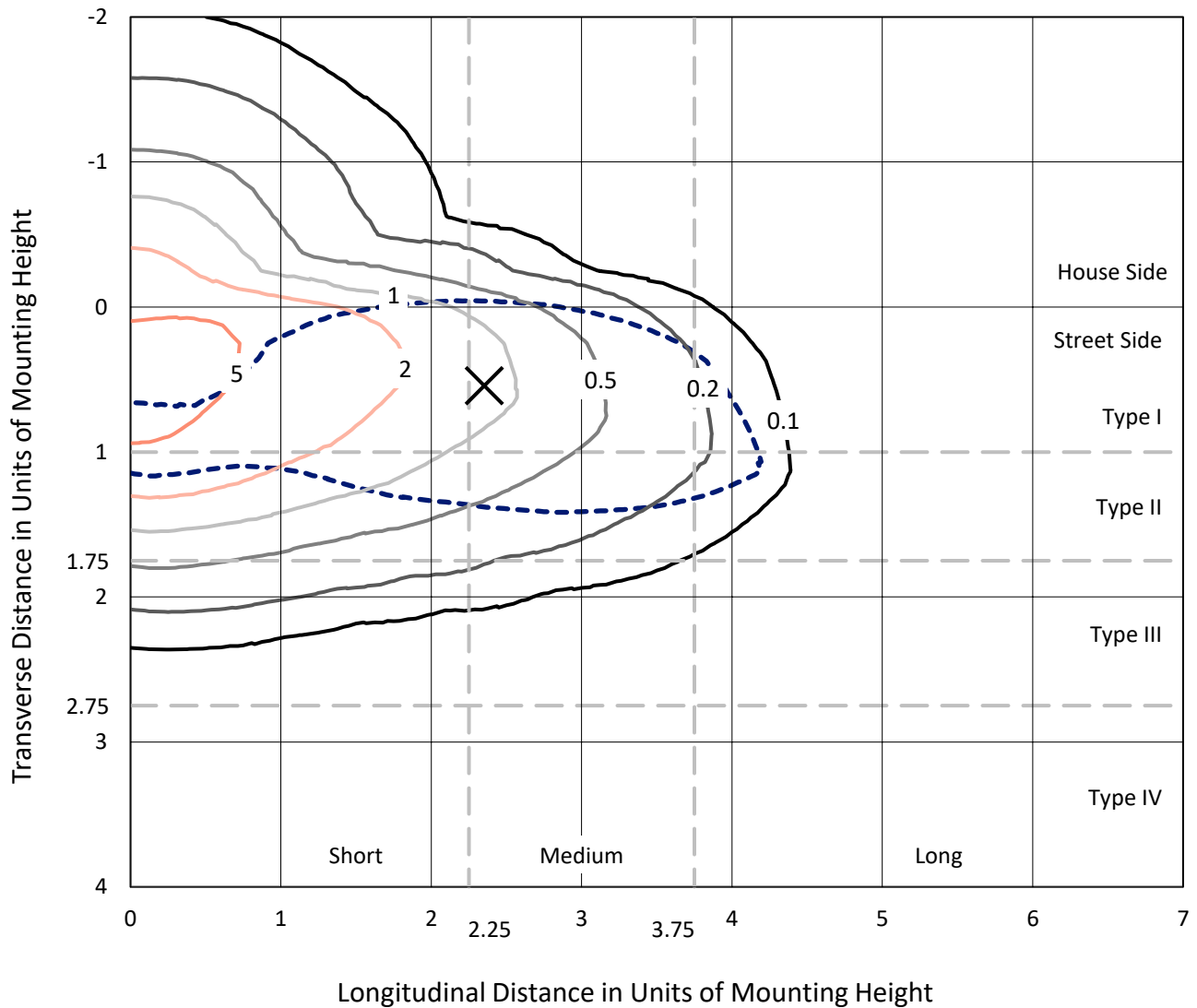
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

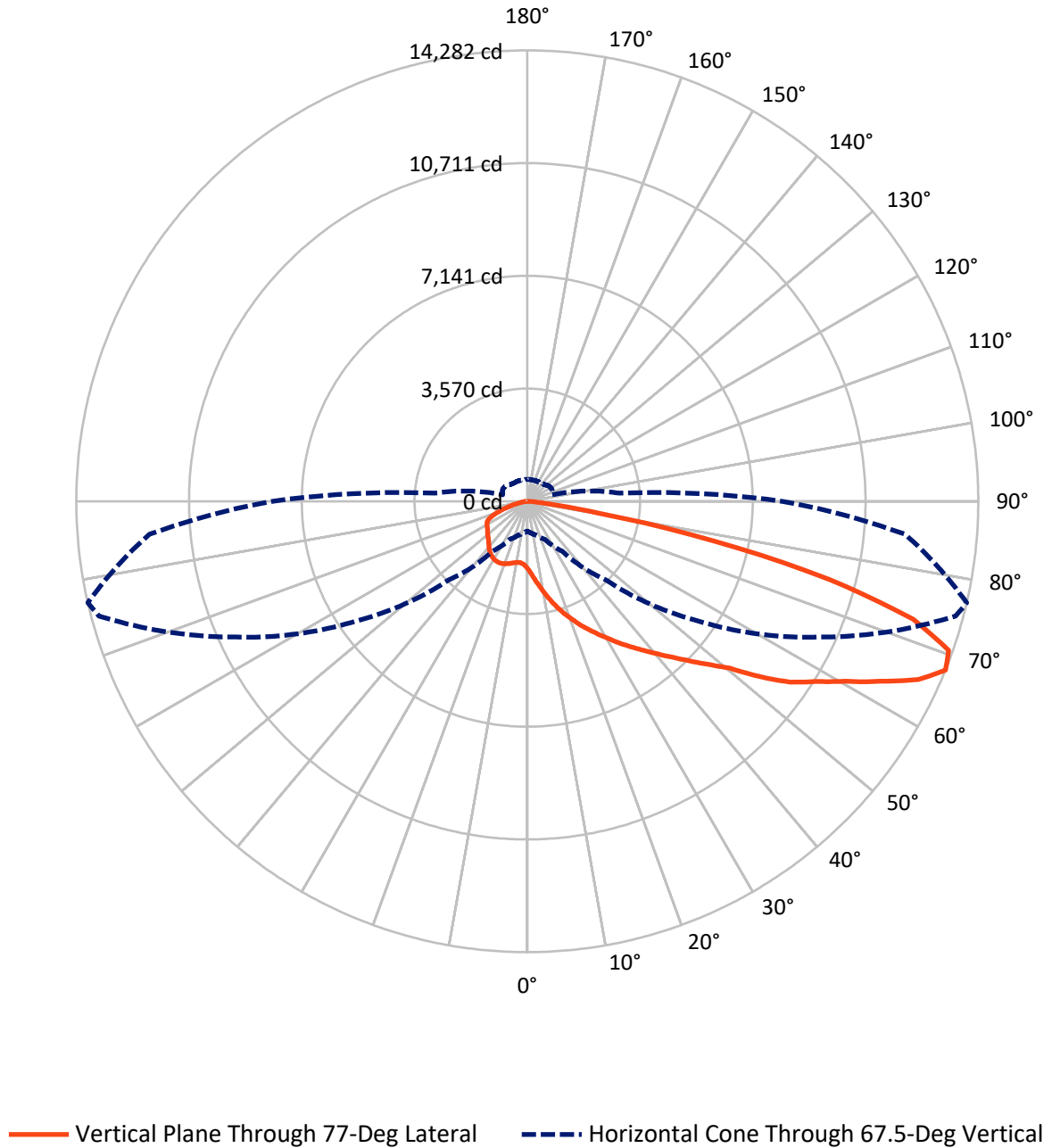
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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 | 3443.8 | 0.0 | 3443.8 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 14762.2 | 0.0 | 14762.2 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 18206.0 | 0.0 | 18206.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.0 | 1.3 |
| 10°-20° | 822.6 | 4.5 |
| 20°-30° | 1553.1 | 8.5 |
| 30°-40° | 2502.0 | 13.7 |
| 40°-50° | 3422.3 | 18.8 |
| 50°-60° | 3860.4 | 21.2 |
| 60°-70° | 3603.2 | 19.8 |
| 70°-80° | 1975.2 | 10.8 |
| 80°-90° | 238.2 | 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° | 18206.0 | 100.0 |
| 0°-180° | 18206.0 | 100.0 |

Coefficient of Utilization



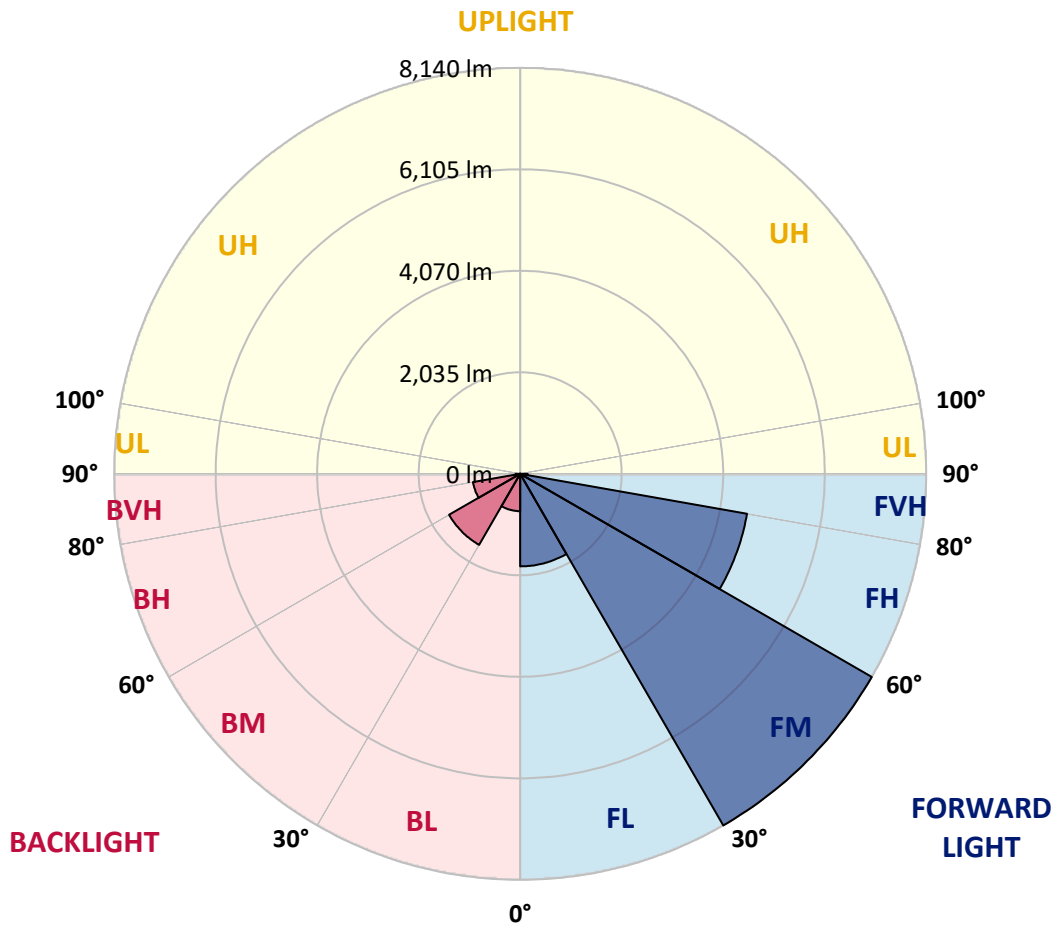
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1855.9 | 10.2 | | | |
| FM (30°-60°) | 8139.7 | 44.7 | | | |
| FH (60°-80°) | 4617.6 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 149.0 | 0.8 | | | G2/225 |
| BL (0°-30°) | 748.8 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1645.0 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 960.8 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 89.3 | 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° | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 |
| 2.5° | 2674.6 | 2693.4 | 2669.9 | 2669.9 | 2591.0 | 2549.6 | 2470.7 | 2410.5 | 2302.5 | 2283.7 |
| 5° | 3161.4 | 3184.9 | 3152.0 | 3137.9 | 3044.9 | 2959.4 | 2826.9 | 2696.2 | 2503.6 | 2483.8 |
| 7.5° | 3538.3 | 3568.4 | 3539.2 | 3524.2 | 3441.5 | 3345.6 | 3190.6 | 3008.2 | 2736.7 | 2698.1 |
| 10° | 3845.6 | 3850.3 | 3840.9 | 3846.5 | 3781.7 | 3702.7 | 3543.9 | 3331.5 | 2992.3 | 2939.6 |
| 12.5° | 4019.5 | 4041.1 | 4059.9 | 4093.7 | 4082.4 | 4033.6 | 3890.7 | 3637.0 | 3262.9 | 3195.3 |
| 15° | 4101.2 | 4138.8 | 4181.1 | 4259.1 | 4322.1 | 4334.3 | 4225.3 | 3964.9 | 3538.3 | 3456.5 |
| 17.5° | 4130.4 | 4166.1 | 4232.8 | 4345.6 | 4480.9 | 4572.0 | 4523.2 | 4283.5 | 3810.8 | 3716.8 |
| 20° | 4277.9 | 4288.2 | 4328.6 | 4435.8 | 4582.4 | 4733.7 | 4770.3 | 4589.9 | 4080.5 | 3974.3 |
| 22.5° | 4593.7 | 4573.0 | 4584.3 | 4633.1 | 4738.4 | 4885.0 | 4968.6 | 4860.6 | 4357.8 | 4235.6 |
| 25° | 5115.2 | 5055.1 | 4995.0 | 4938.6 | 4992.1 | 5074.8 | 5169.8 | 5131.2 | 4648.2 | 4493.1 |
| 27.5° | 5774.0 | 5700.7 | 5568.2 | 5383.1 | 5318.2 | 5347.4 | 5389.7 | 5382.1 | 4917.0 | 4760.0 |
| 30° | 6422.5 | 6337.0 | 6179.1 | 5911.2 | 5740.2 | 5663.1 | 5631.2 | 5609.6 | 5209.2 | 5041.9 |
| 32.5° | 6940.3 | 6872.6 | 6717.6 | 6417.8 | 6169.7 | 6038.1 | 5931.9 | 5854.9 | 5514.7 | 5347.4 |
| 35° | 7393.3 | 7330.3 | 7152.7 | 6825.7 | 6555.9 | 6415.9 | 6276.8 | 6112.4 | 5832.3 | 5663.1 |
| 37.5° | 7806.8 | 7743.8 | 7500.4 | 7160.2 | 6888.6 | 6791.8 | 6667.8 | 6388.7 | 6150.9 | 5991.1 |
| 40° | 8068.0 | 8054.0 | 7826.5 | 7441.2 | 7159.3 | 7111.3 | 7070.0 | 6709.1 | 6504.2 | 6355.8 |
| 42.5° | 8134.8 | 8165.8 | 7985.3 | 7668.6 | 7399.9 | 7361.3 | 7458.1 | 7071.9 | 6900.8 | 6758.9 |
| 45° | 7974.1 | 8063.3 | 7944.9 | 7729.7 | 7570.9 | 7550.2 | 7802.1 | 7468.5 | 7339.7 | 7210.0 |
| 47.5° | 7567.1 | 7718.4 | 7669.6 | 7639.5 | 7617.0 | 7706.2 | 8104.7 | 7889.5 | 7836.9 | 7724.1 |
| 50° | 6745.8 | 7032.4 | 7117.9 | 7307.8 | 7525.8 | 7827.5 | 8380.1 | 8349.0 | 8417.6 | 8303.9 |
| 52.5° | 5325.8 | 5720.5 | 6216.7 | 6692.2 | 7245.7 | 7787.1 | 8682.7 | 9008.8 | 9298.2 | 9236.2 |
| 55° | 4396.3 | 4573.9 | 4955.5 | 5827.6 | 6702.5 | 7617.0 | 8818.9 | 9541.6 | 10172.2 | 10116.8 |
| 57.5° | 3682.1 | 3840.9 | 4075.8 | 4804.2 | 5881.2 | 7230.7 | 8903.5 | 9866.8 | 10770.9 | 10765.2 |
| 60° | 2916.2 | 3084.4 | 3325.0 | 3840.9 | 4921.6 | 6563.5 | 8884.7 | 10237.1 | 11534.9 | 11581.9 |
| 62.5° | 2051.5 | 2236.7 | 2503.6 | 2984.8 | 3941.5 | 5698.9 | 8501.3 | 10504.9 | 12434.3 | 12562.1 |
| 65° | 1348.6 | 1470.8 | 1671.9 | 2087.3 | 2936.8 | 4587.1 | 7769.2 | 10539.7 | 13396.6 | 13612.8 |
| 67.5° | 945.4 | 992.4 | 1110.8 | 1336.4 | 1936.0 | 3517.6 | 6602.9 | 10179.7 | 14038.5 | 14281.9 |
| 70° | 737.7 | 761.2 | 821.4 | 911.6 | 1216.1 | 2365.4 | 5059.8 | 9243.7 | 13901.3 | 14155.0 |
| 72.5° | 637.2 | 659.7 | 682.3 | 693.6 | 815.7 | 1460.4 | 3427.4 | 7728.8 | 12609.1 | 12781.1 |
| 75° | 578.0 | 583.6 | 602.4 | 598.6 | 622.1 | 947.3 | 1978.2 | 5631.2 | 9948.6 | 9889.3 |
| 77.5° | 485.9 | 493.4 | 524.4 | 519.7 | 552.6 | 647.5 | 1027.2 | 3634.1 | 6449.7 | 6047.5 |
| 80° | 411.6 | 415.4 | 449.2 | 443.6 | 480.2 | 469.0 | 524.4 | 1852.3 | 2735.7 | 2317.5 |
| 82.5° | 142.8 | 176.7 | 343.0 | 353.4 | 366.5 | 283.8 | 302.6 | 755.6 | 835.5 | 640.0 |
| 85° | 69.5 | 74.2 | 174.8 | 248.1 | 247.2 | 142.8 | 147.5 | 269.7 | 263.1 | 206.8 |
| 87.5° | 11.3 | 14.1 | 20.7 | 96.8 | 77.1 | 37.6 | 50.7 | 52.6 | 54.5 | 47.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P948141
 CATALOG NUMBER: GALN-SB3B-740-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2136.1 | 0° | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 | 2136.1 |
| 2212.3 | 2.5° | 2159.6 | 2112.6 | 2014.0 | 1922.8 | 1851.4 | 1782.8 | 1744.2 | 1711.3 | 1692.6 | 1688.8 |
| 2315.6 | 5° | 2217.9 | 2121.1 | 1941.6 | 1790.3 | 1691.6 | 1618.3 | 1579.8 | 1555.3 | 1543.1 | 1535.6 |
| 2454.7 | 7.5° | 2301.5 | 2159.6 | 1904.0 | 1732.0 | 1628.6 | 1576.0 | 1556.3 | 1552.5 | 1551.6 | 1552.5 |
| 2622.9 | 10° | 2417.1 | 2222.6 | 1900.2 | 1717.9 | 1631.5 | 1602.3 | 1601.4 | 1602.3 | 1606.1 | 1607.0 |
| 2806.2 | 12.5° | 2542.1 | 2287.4 | 1915.3 | 1730.1 | 1667.2 | 1651.2 | 1648.4 | 1647.4 | 1650.3 | 1652.1 |
| 2991.3 | 15° | 2678.4 | 2373.0 | 1940.7 | 1756.5 | 1706.6 | 1689.7 | 1686.9 | 1681.3 | 1680.3 | 1679.4 |
| 3185.9 | 17.5° | 2818.4 | 2457.5 | 1968.8 | 1784.7 | 1732.0 | 1708.5 | 1698.2 | 1685.0 | 1674.7 | 1671.9 |
| 3387.0 | 20° | 2960.3 | 2541.2 | 1988.6 | 1798.7 | 1733.9 | 1701.0 | 1680.3 | 1657.8 | 1639.9 | 1629.6 |
| 3590.0 | 22.5° | 3111.6 | 2628.6 | 2000.8 | 1795.0 | 1717.0 | 1671.9 | 1634.3 | 1608.0 | 1580.7 | 1562.9 |
| 3794.8 | 25° | 3259.2 | 2704.7 | 1999.9 | 1775.3 | 1684.1 | 1626.8 | 1578.8 | 1545.0 | 1507.4 | 1488.6 |
| 4006.3 | 27.5° | 3401.1 | 2773.3 | 1976.4 | 1740.5 | 1637.1 | 1573.2 | 1515.9 | 1475.5 | 1438.8 | 1421.0 |
| 4219.6 | 30° | 3547.7 | 2830.6 | 1939.7 | 1689.7 | 1581.7 | 1511.2 | 1448.2 | 1413.4 | 1380.5 | 1363.6 |
| 4445.2 | 32.5° | 3693.4 | 2883.3 | 1888.0 | 1626.8 | 1517.8 | 1450.1 | 1388.1 | 1356.1 | 1336.4 | 1336.4 |
| 4687.6 | 35° | 3847.5 | 2919.9 | 1819.4 | 1553.5 | 1450.1 | 1385.2 | 1336.4 | 1317.6 | 1315.7 | 1304.4 |
| 4944.2 | 37.5° | 4010.1 | 2943.4 | 1735.8 | 1478.3 | 1383.4 | 1322.3 | 1307.2 | 1284.7 | 1265.9 | 1241.5 |
| 5226.1 | 40° | 4181.1 | 2966.9 | 1635.2 | 1400.3 | 1312.9 | 1279.0 | 1272.5 | 1242.4 | 1188.8 | 1128.7 |
| 5545.7 | 42.5° | 4388.8 | 2982.9 | 1530.9 | 1322.3 | 1238.6 | 1227.4 | 1236.8 | 1185.1 | 1099.5 | 1054.4 |
| 5931.0 | 45° | 4629.4 | 3009.2 | 1435.1 | 1245.2 | 1162.5 | 1162.5 | 1202.0 | 1134.3 | 1063.8 | 1035.6 |
| 6370.8 | 47.5° | 4941.4 | 3070.3 | 1345.8 | 1160.6 | 1092.0 | 1110.8 | 1124.9 | 1073.2 | 1033.8 | 999.0 |
| 6906.5 | 50° | 5392.5 | 3216.9 | 1253.7 | 1075.1 | 1038.5 | 1076.1 | 1056.3 | 1026.2 | 980.2 | 952.0 |
| 7757.9 | 52.5° | 5952.6 | 3303.3 | 1171.9 | 998.1 | 992.4 | 1030.0 | 1001.8 | 973.6 | 938.8 | 901.3 |
| 8403.6 | 55° | 6334.1 | 3319.3 | 1103.3 | 941.7 | 961.4 | 957.6 | 947.3 | 921.9 | 903.1 | 853.3 |
| 9040.7 | 57.5° | 6760.8 | 3351.3 | 1046.9 | 907.8 | 941.7 | 900.3 | 896.6 | 874.9 | 850.5 | 816.7 |
| 9817.9 | 60° | 7271.1 | 3401.1 | 998.1 | 894.7 | 924.7 | 862.7 | 843.9 | 835.5 | 811.0 | 794.1 |
| 10753.0 | 62.5° | 7827.5 | 3446.2 | 948.2 | 896.6 | 905.0 | 826.1 | 797.9 | 795.1 | 780.0 | 774.4 |
| 11630.8 | 65° | 8207.1 | 3323.1 | 886.2 | 894.7 | 874.0 | 788.5 | 752.8 | 751.8 | 739.6 | 737.7 |
| 12011.4 | 67.5° | 8074.6 | 2933.1 | 802.6 | 868.4 | 842.0 | 750.9 | 711.4 | 707.7 | 691.7 | 692.6 |
| 11613.9 | 70° | 7411.1 | 2376.7 | 687.0 | 803.5 | 802.6 | 717.1 | 668.2 | 656.0 | 634.4 | 638.1 |
| 10098.0 | 72.5° | 6166.9 | 1761.2 | 531.9 | 695.4 | 739.6 | 686.0 | 618.4 | 598.6 | 571.4 | 575.1 |
| 7454.4 | 75° | 4453.6 | 1197.3 | 387.2 | 529.1 | 643.8 | 649.4 | 569.5 | 535.7 | 502.8 | 508.4 |
| 4149.1 | 77.5° | 2279.0 | 678.5 | 284.8 | 364.6 | 505.6 | 590.2 | 525.3 | 480.2 | 472.7 | 525.3 |
| 1196.3 | 80° | 743.4 | 340.2 | 197.4 | 255.6 | 331.7 | 483.0 | 460.5 | 408.8 | 406.9 | 419.1 |
| 250.9 | 82.5° | 221.8 | 143.8 | 126.9 | 168.2 | 183.3 | 370.3 | 397.5 | 309.2 | 266.0 | 280.1 |
| 83.6 | 85° | 76.1 | 69.5 | 72.4 | 83.6 | 87.4 | 217.1 | 278.2 | 204.9 | 193.6 | 213.3 |
| 18.8 | 87.5° | 17.9 | 24.4 | 20.7 | 18.8 | 18.8 | 52.6 | 108.1 | 85.5 | 118.4 | 78.9 |
| 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> |
|-------------|
| 2136.1 |
| 1688.8 |
| 1534.7 |
| 1555.3 |
| 1608.0 |
| 1653.1 |
| 1678.5 |
| 1674.7 |
| 1633.3 |
| 1563.8 |
| 1488.6 |
| 1420.0 |
| 1362.7 |
| 1337.3 |
| 1301.6 |
| 1237.7 |
| 1120.2 |
| 1055.4 |
| 1040.3 |
| 998.1 |
| 949.2 |
| 893.7 |
| 854.3 |
| 805.4 |
| 798.8 |
| 774.4 |
| 736.8 |
| 692.6 |
| 641.9 |
| 574.2 |
| 510.3 |
| 517.8 |
| 359.9 |
| 289.5 |
| 210.5 |
| 76.1 |
| 0.0 |

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