

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: P532062

Luminaire Tested: **GALN-SA7B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24438 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

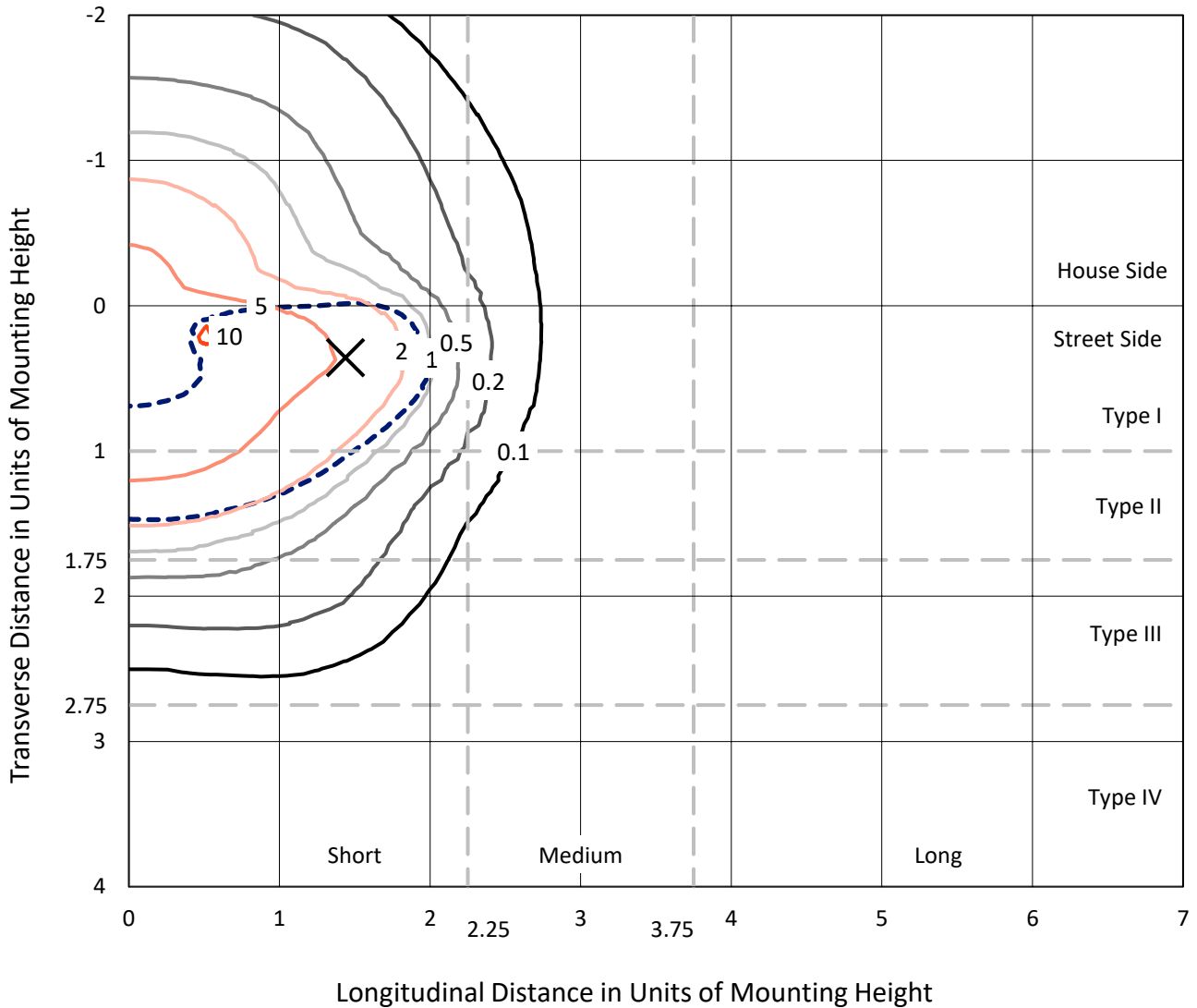
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532062
 CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

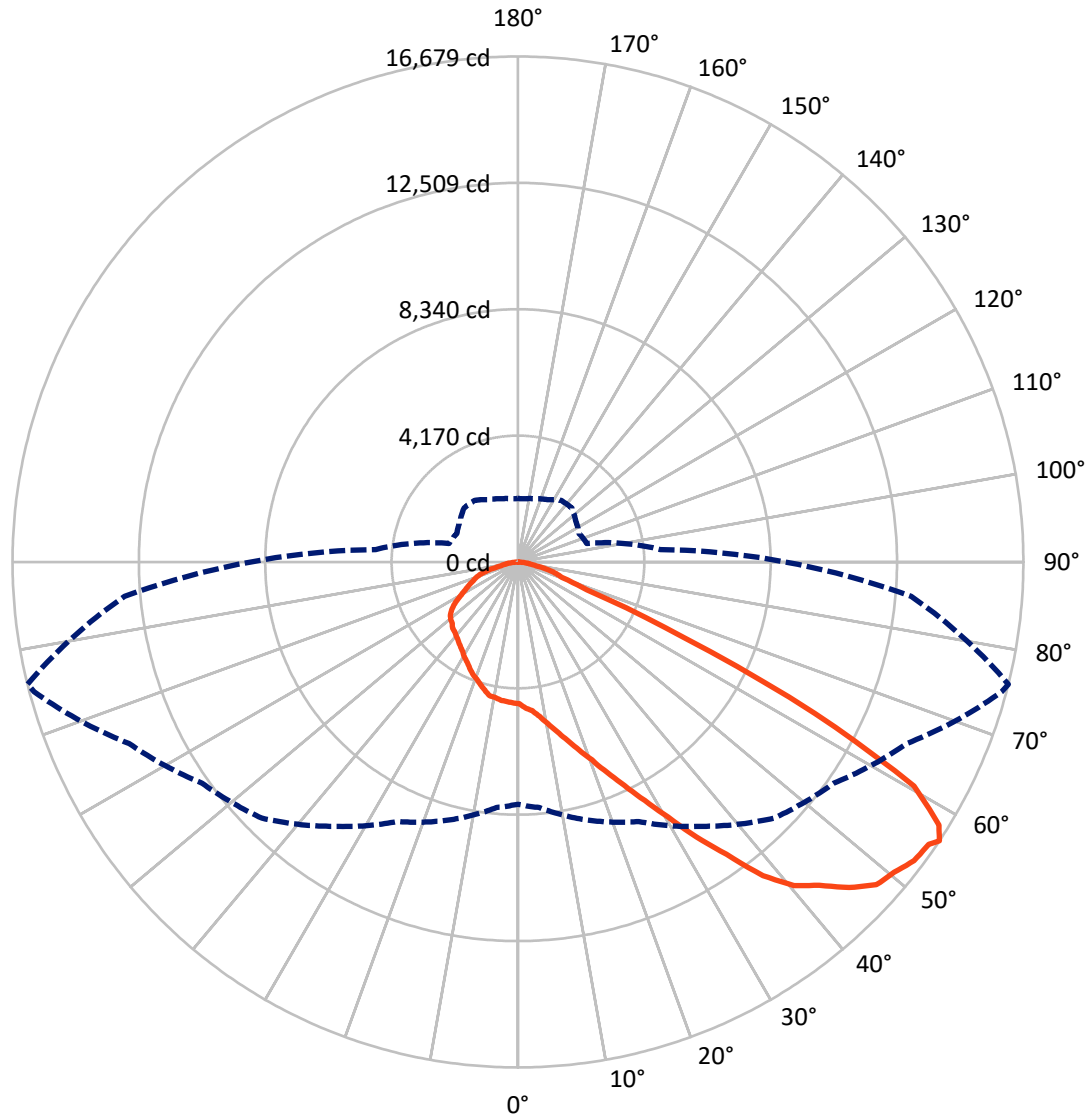
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P532062
CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P532062
 CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6570.6 | 0.0 | 6570.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 17867.4 | 0.0 | 17867.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 24438.0 | 0.0 | 24438.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 463.7 | 1.9 |
| 10°-20° | 1456.6 | 6.0 |
| 20°-30° | 2547.5 | 10.4 |
| 30°-40° | 3988.6 | 16.3 |
| 40°-50° | 5802.3 | 23.7 |
| 50°-60° | 6377.1 | 26.1 |
| 60°-70° | 2846.5 | 11.6 |
| 70°-80° | 822.2 | 3.4 |
| 80°-90° | 133.4 | 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° | 24438.0 | 100.0 |
| 0°-180° | 24438.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P532062

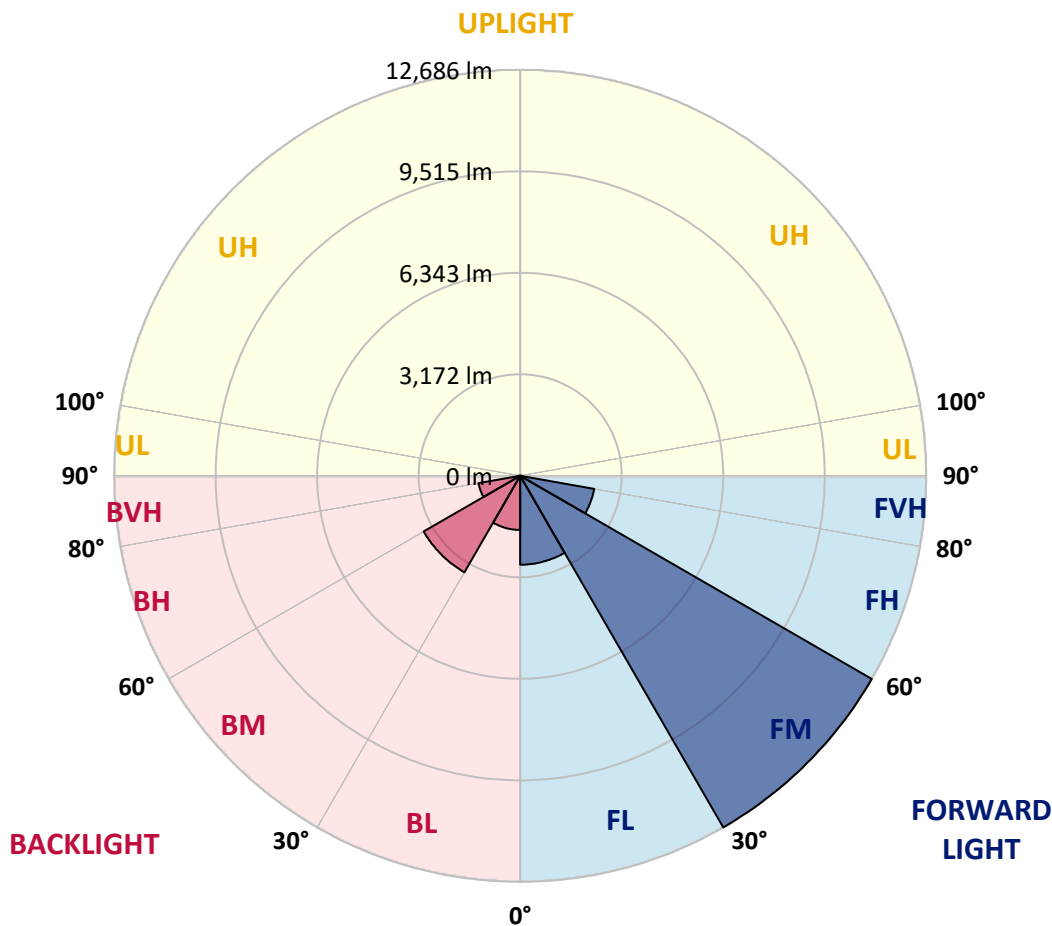
CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2777.1 | 11.4 | | | |
| FM (30°-60°) | 12686.2 | 51.9 | | | |
| FH (60°-80°) | 2346.6 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 57.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1690.8 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 3481.9 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1322.0 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 76.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P532062

CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 |
| 2.5° | 5151.1 | 5068.7 | 5062.4 | 5040.2 | 5052.9 | 4995.9 | 4935.7 | 4856.5 | 4774.1 | 4824.8 | 4704.4 |
| 5° | 5512.2 | 5401.4 | 5445.7 | 5369.7 | 5379.2 | 5303.2 | 5179.6 | 5087.7 | 4986.4 | 4926.2 | 4840.6 |
| 7.5° | 5639.0 | 5648.5 | 5680.1 | 5667.5 | 5604.1 | 5604.1 | 5521.7 | 5360.2 | 5182.8 | 5147.9 | 5005.4 |
| 10° | 5810.0 | 5813.2 | 5778.3 | 5787.8 | 5876.6 | 5835.4 | 5762.5 | 5692.8 | 5464.7 | 5423.5 | 5170.1 |
| 12.5° | 5870.2 | 5813.2 | 5870.2 | 5920.9 | 6025.4 | 6082.5 | 6066.6 | 6015.9 | 5772.0 | 5743.5 | 5372.8 |
| 15° | 5879.7 | 5844.9 | 5892.4 | 6006.4 | 6098.3 | 6339.1 | 6459.5 | 6424.6 | 6101.5 | 6104.6 | 5600.9 |
| 17.5° | 5835.4 | 5882.9 | 5901.9 | 6000.1 | 6212.4 | 6437.3 | 6785.8 | 6833.3 | 6567.2 | 6526.0 | 5889.2 |
| 20° | 5895.6 | 5860.7 | 5886.1 | 5974.8 | 6256.7 | 6608.3 | 7064.5 | 7378.2 | 7004.3 | 6975.8 | 6187.0 |
| 22.5° | 6126.8 | 6079.3 | 6073.0 | 6130.0 | 6332.7 | 6697.1 | 7359.2 | 7923.0 | 7536.6 | 7552.4 | 6557.7 |
| 25° | 6307.4 | 6332.7 | 6310.6 | 6307.4 | 6434.1 | 6830.1 | 7748.8 | 8572.5 | 8258.9 | 8167.0 | 6994.8 |
| 27.5° | 6617.9 | 6678.0 | 6633.7 | 6693.9 | 6665.4 | 7029.7 | 8027.6 | 9291.6 | 9038.2 | 8914.6 | 7390.8 |
| 30° | 7048.7 | 7080.4 | 7039.2 | 7039.2 | 6953.7 | 7308.5 | 8281.0 | 10042.4 | 9937.9 | 9770.0 | 7856.5 |
| 32.5° | 7615.8 | 7663.3 | 7580.9 | 7533.4 | 7520.7 | 7723.5 | 8737.2 | 10783.7 | 10961.1 | 10818.6 | 8474.3 |
| 35° | 8366.6 | 8338.1 | 8239.8 | 8195.5 | 8024.4 | 8360.2 | 9415.2 | 11635.9 | 12101.6 | 11848.1 | 9221.9 |
| 37.5° | 9028.7 | 8984.3 | 8978.0 | 8730.9 | 8772.1 | 9047.7 | 9991.7 | 12282.2 | 13207.2 | 13134.3 | 10010.7 |
| 40° | 9646.4 | 9687.6 | 9754.1 | 9614.7 | 9551.4 | 9855.5 | 10663.3 | 12776.4 | 14065.7 | 14037.2 | 10619.0 |
| 42.5° | 10308.5 | 10270.5 | 10387.7 | 10270.5 | 10175.5 | 10606.3 | 11392.0 | 13118.5 | 14819.7 | 14585.3 | 11255.7 |
| 45° | 11268.4 | 11148.0 | 11189.2 | 11198.7 | 11129.0 | 11287.4 | 11692.9 | 13365.6 | 15348.7 | 15323.4 | 11721.4 |
| 47.5° | 12069.9 | 12073.1 | 12003.4 | 11949.5 | 11737.3 | 11895.7 | 12028.7 | 13520.8 | 15957.0 | 15915.8 | 11902.0 |
| 50° | 12367.7 | 12326.5 | 12529.3 | 12646.5 | 12659.1 | 12336.0 | 12291.7 | 13606.4 | 16276.9 | 16096.4 | 12082.6 |
| 52.5° | 11296.9 | 11334.9 | 11654.9 | 12351.8 | 12754.2 | 12789.0 | 12598.9 | 13783.8 | 16406.8 | 16368.8 | 12228.3 |
| 55° | 9092.0 | 9275.8 | 9801.6 | 10606.3 | 11559.9 | 12608.4 | 12931.6 | 13967.5 | 16476.5 | 16444.8 | 12874.6 |
| 56° | 7992.7 | 8135.3 | 8819.6 | 9450.0 | 10647.5 | 11952.7 | 12722.5 | 14163.9 | 16530.4 | 16679.3 | 13026.6 |
| 57.5° | 6434.1 | 6598.8 | 7089.9 | 7805.8 | 9218.7 | 10704.5 | 12145.9 | 13923.2 | 16321.3 | 16378.3 | 13137.5 |
| 60° | 4023.3 | 4039.1 | 4628.4 | 5100.4 | 6095.1 | 7546.1 | 9269.4 | 12114.2 | 15104.8 | 15022.4 | 11800.6 |
| 62.5° | 2638.9 | 2642.1 | 3177.5 | 3563.9 | 4017.0 | 4349.6 | 5455.2 | 8033.9 | 11144.9 | 10999.1 | 8401.4 |
| 65° | 1853.3 | 1894.4 | 2309.4 | 2825.8 | 3009.6 | 2835.3 | 2800.5 | 4235.6 | 6225.0 | 6015.9 | 4514.3 |
| 67.5° | 1355.9 | 1359.1 | 1726.5 | 2280.9 | 2547.0 | 2157.4 | 1751.9 | 2068.7 | 2464.7 | 2458.3 | 2090.8 |
| 70° | 896.5 | 934.5 | 1216.5 | 1704.4 | 2008.5 | 1732.9 | 1431.9 | 1479.4 | 1568.1 | 1568.1 | 1555.5 |
| 72.5° | 522.7 | 557.6 | 744.5 | 1080.3 | 1127.8 | 1083.4 | 1134.1 | 1267.2 | 1324.2 | 1321.0 | 1305.2 |
| 75° | 297.8 | 313.6 | 354.8 | 449.8 | 560.7 | 662.1 | 833.2 | 959.9 | 1016.9 | 1051.8 | 1010.6 |
| 77.5° | 174.2 | 183.7 | 209.1 | 256.6 | 291.5 | 358.0 | 453.0 | 541.7 | 617.8 | 608.2 | 614.6 |
| 80° | 91.9 | 91.9 | 117.2 | 152.1 | 202.7 | 253.4 | 301.0 | 351.6 | 392.8 | 402.3 | 411.8 |
| 82.5° | 53.9 | 57.0 | 76.0 | 110.9 | 145.7 | 180.6 | 231.3 | 266.1 | 304.1 | 307.3 | 313.6 |
| 85° | 28.5 | 31.7 | 47.5 | 72.9 | 98.2 | 110.9 | 114.0 | 107.7 | 117.2 | 110.9 | 126.7 |
| 87.5° | 9.5 | 9.5 | 15.8 | 12.7 | 12.7 | 15.8 | 19.0 | 19.0 | 25.3 | 25.3 | 25.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P532062

CATALOG NUMBER: GALN-SA7B-827-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 | 4675.9 |
| 2.5° | 4701.2 | 4701.2 | 4647.4 | 4546.0 | 4530.2 | 4489.0 | 4451.0 | 4447.8 | 4419.3 | 4393.9 | 4381.3 |
| 5° | 4789.9 | 4691.7 | 4612.5 | 4520.7 | 4413.0 | 4362.3 | 4305.2 | 4241.9 | 4216.5 | 4241.9 | 4238.7 |
| 7.5° | 4891.3 | 4809.0 | 4571.4 | 4400.3 | 4276.7 | 4226.0 | 4162.7 | 4096.2 | 4102.5 | 4102.5 | 4058.1 |
| 10° | 4989.5 | 4878.6 | 4498.5 | 4279.9 | 4099.3 | 4061.3 | 4026.5 | 4051.8 | 4083.5 | 4089.8 | 4061.3 |
| 12.5° | 5154.3 | 4904.0 | 4463.6 | 4159.5 | 4045.5 | 3963.1 | 3985.3 | 4055.0 | 4121.5 | 4102.5 | 4124.7 |
| 15° | 5277.8 | 4926.2 | 4305.2 | 4036.0 | 3893.4 | 3931.4 | 4010.6 | 4058.1 | 4169.0 | 4156.4 | 4178.5 |
| 17.5° | 5398.2 | 4938.8 | 4150.0 | 3871.2 | 3811.0 | 3915.6 | 3975.8 | 4112.0 | 4146.8 | 4222.9 | 4251.4 |
| 20° | 5645.3 | 4964.2 | 3991.6 | 3769.9 | 3750.9 | 3871.2 | 3975.8 | 4039.1 | 4115.2 | 4181.7 | 4181.7 |
| 22.5° | 5772.0 | 4951.5 | 3887.1 | 3636.8 | 3697.0 | 3773.0 | 3868.1 | 3975.8 | 3975.8 | 4039.1 | 4042.3 |
| 25° | 5930.4 | 4900.8 | 3722.3 | 3573.5 | 3617.8 | 3690.7 | 3798.4 | 3760.4 | 3801.5 | 3801.5 | 3852.2 |
| 27.5° | 6111.0 | 4793.1 | 3579.8 | 3459.4 | 3548.1 | 3627.3 | 3643.1 | 3617.8 | 3570.3 | 3563.9 | 3544.9 |
| 30° | 6256.7 | 4660.1 | 3475.2 | 3421.4 | 3494.3 | 3538.6 | 3487.9 | 3434.1 | 3351.7 | 3345.4 | 3301.0 |
| 32.5° | 6456.3 | 4495.3 | 3345.4 | 3326.3 | 3408.7 | 3411.9 | 3396.0 | 3313.7 | 3193.3 | 3142.6 | 3091.9 |
| 35° | 6792.1 | 4400.3 | 3247.2 | 3275.7 | 3301.0 | 3291.5 | 3263.0 | 3174.3 | 3053.9 | 3031.7 | 3012.7 |
| 37.5° | 7039.2 | 4330.6 | 3145.8 | 3180.6 | 3202.8 | 3215.5 | 3129.9 | 3031.7 | 3034.9 | 2990.5 | 2977.9 |
| 40° | 7318.0 | 4286.2 | 3063.4 | 3079.2 | 3082.4 | 3123.6 | 3019.1 | 2971.5 | 2993.7 | 2965.2 | 2984.2 |
| 42.5° | 7675.9 | 4298.9 | 2977.9 | 2965.2 | 3025.4 | 3009.6 | 2958.9 | 2895.5 | 2908.2 | 2822.6 | 2835.3 |
| 45° | 7866.0 | 4384.4 | 2927.2 | 2870.2 | 2936.7 | 2933.5 | 2867.0 | 2806.8 | 2730.8 | 2566.0 | 2572.4 |
| 47.5° | 7992.7 | 4406.6 | 2806.8 | 2768.8 | 2838.5 | 2879.7 | 2803.6 | 2664.2 | 2556.5 | 2439.3 | 2410.8 |
| 50° | 8122.6 | 4447.8 | 2749.8 | 2670.6 | 2699.1 | 2797.3 | 2702.3 | 2569.2 | 2464.7 | 2360.1 | 2376.0 |
| 52.5° | 8236.7 | 4527.0 | 2638.9 | 2521.7 | 2572.4 | 2680.1 | 2629.4 | 2467.8 | 2353.8 | 2268.3 | 2242.9 |
| 55° | 8743.5 | 4704.4 | 2452.0 | 2299.9 | 2420.3 | 2556.5 | 2528.0 | 2331.6 | 2208.1 | 2163.7 | 2157.4 |
| 56° | 8822.7 | 4710.7 | 2353.8 | 2223.9 | 2334.8 | 2515.4 | 2480.5 | 2271.4 | 2160.5 | 2090.8 | 2094.0 |
| 57.5° | 8835.4 | 4634.7 | 2214.4 | 2154.2 | 2249.2 | 2455.2 | 2410.8 | 2223.9 | 2071.8 | 2008.5 | 1989.5 |
| 60° | 7774.2 | 3617.8 | 2040.2 | 2002.1 | 2113.0 | 2271.4 | 2255.6 | 2094.0 | 1922.9 | 1850.1 | 1884.9 |
| 62.5° | 5300.0 | 2651.6 | 1903.9 | 1897.6 | 1954.6 | 2109.9 | 2068.7 | 1922.9 | 1780.4 | 1732.9 | 1710.7 |
| 65° | 3085.6 | 2011.6 | 1770.9 | 1745.5 | 1793.1 | 1875.4 | 1903.9 | 1751.9 | 1603.0 | 1571.3 | 1561.8 |
| 67.5° | 1821.6 | 1663.2 | 1599.8 | 1558.6 | 1542.8 | 1593.5 | 1615.7 | 1527.0 | 1378.1 | 1333.7 | 1371.7 |
| 70° | 1523.8 | 1479.4 | 1482.6 | 1412.9 | 1374.9 | 1340.0 | 1321.0 | 1241.8 | 1118.3 | 1061.3 | 1045.4 |
| 72.5° | 1314.7 | 1295.7 | 1283.0 | 1219.7 | 1184.8 | 1105.6 | 1023.2 | 944.0 | 852.2 | 804.7 | 807.8 |
| 75° | 1004.2 | 997.9 | 1004.2 | 972.6 | 912.4 | 849.0 | 773.0 | 671.6 | 601.9 | 541.7 | 554.4 |
| 77.5° | 598.7 | 617.8 | 627.3 | 614.6 | 589.2 | 532.2 | 484.7 | 418.2 | 351.6 | 304.1 | 297.8 |
| 80° | 411.8 | 427.7 | 443.5 | 427.7 | 402.3 | 361.1 | 310.5 | 259.8 | 212.3 | 186.9 | 180.6 |
| 82.5° | 313.6 | 329.5 | 339.0 | 323.1 | 291.5 | 247.1 | 212.3 | 177.4 | 139.4 | 114.0 | 107.7 |
| 85° | 114.0 | 129.9 | 126.7 | 152.1 | 164.7 | 158.4 | 136.2 | 104.5 | 79.2 | 57.0 | 53.9 |
| 87.5° | 31.7 | 28.5 | 31.7 | 31.7 | 31.7 | 28.5 | 25.3 | 25.3 | 25.3 | 15.8 | 12.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)