

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: P532945

Luminaire Tested: **GALN-SA8B-750-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27104 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

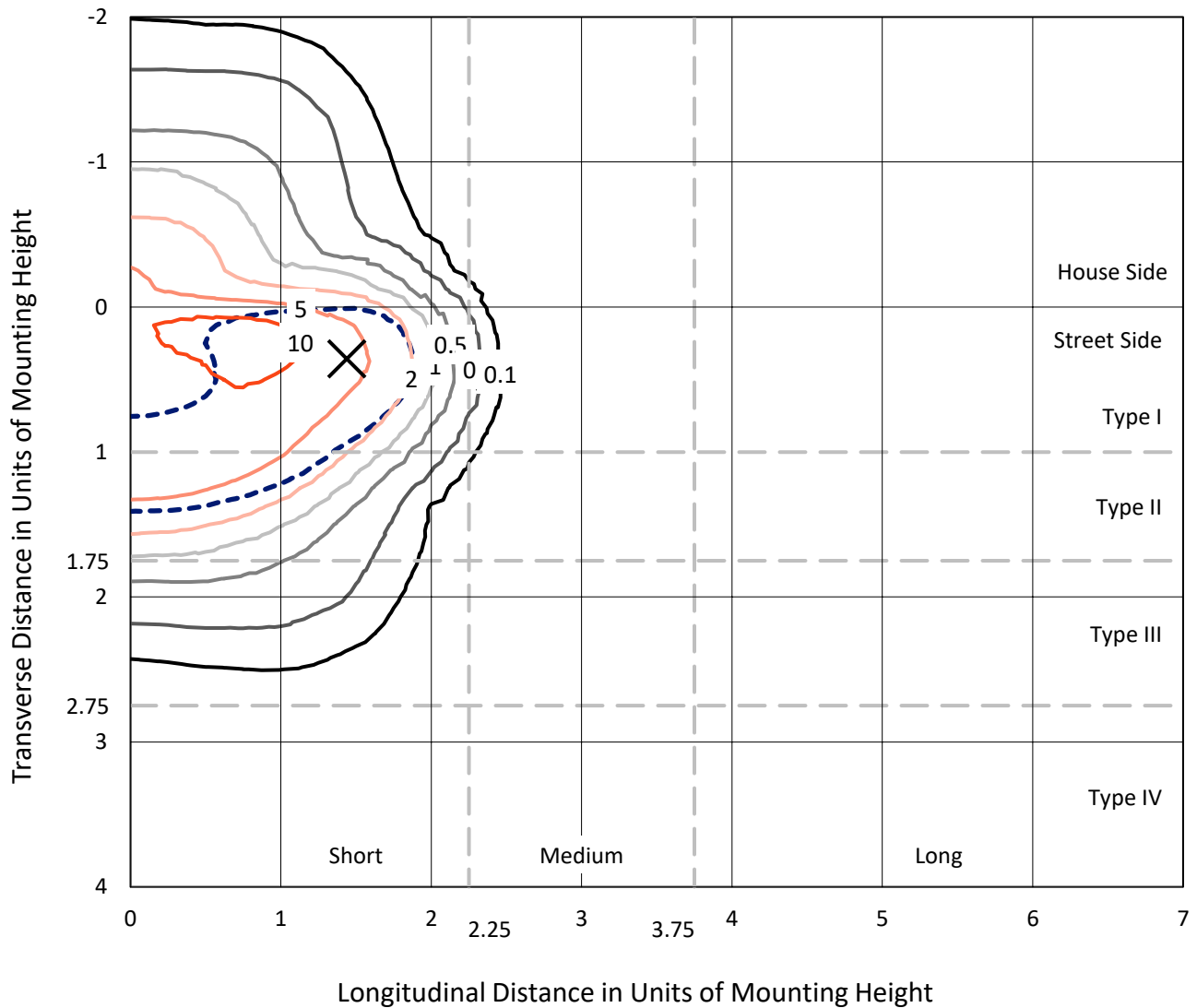
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532945
 CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

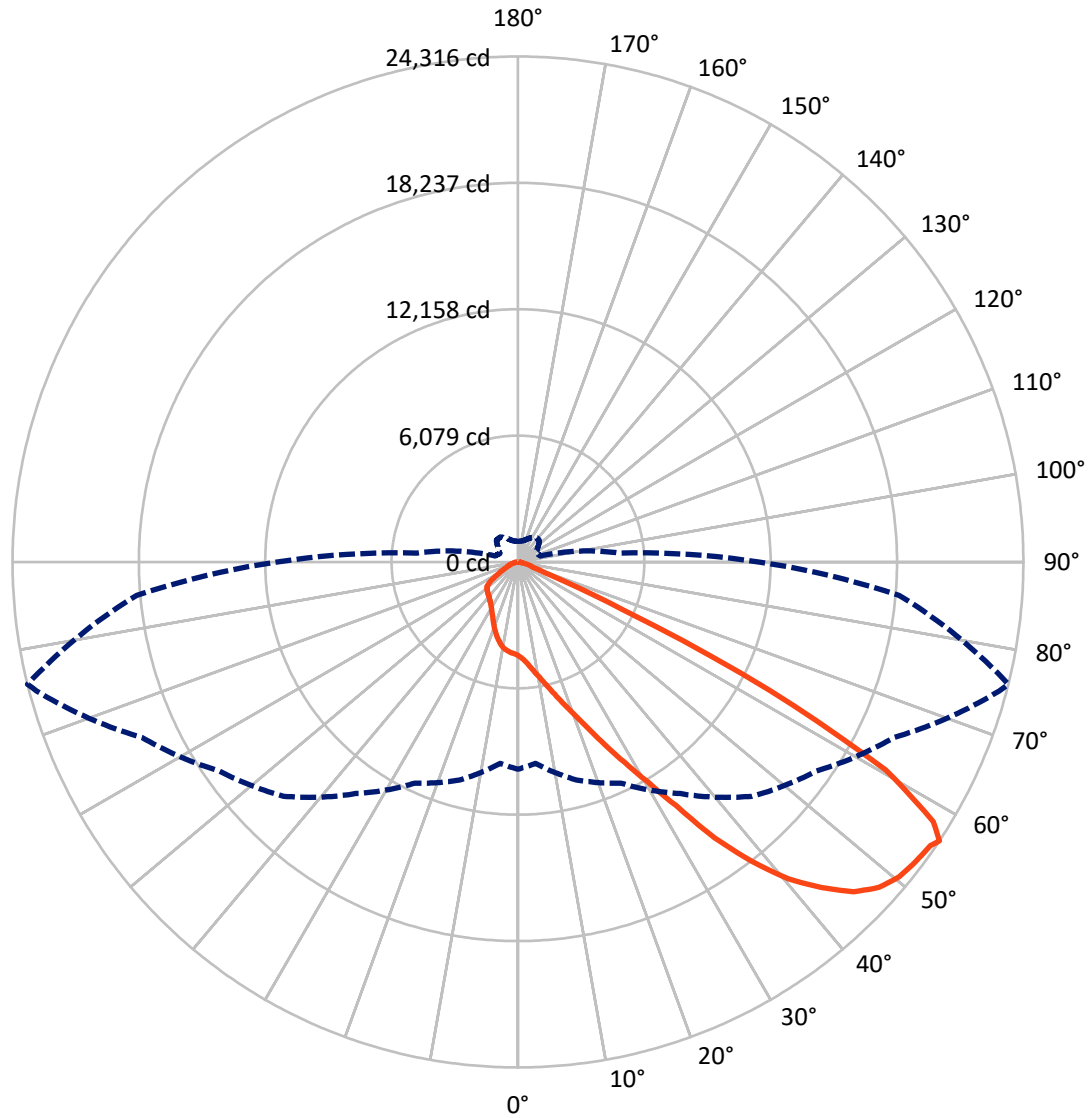
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P532945
CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532945
 CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

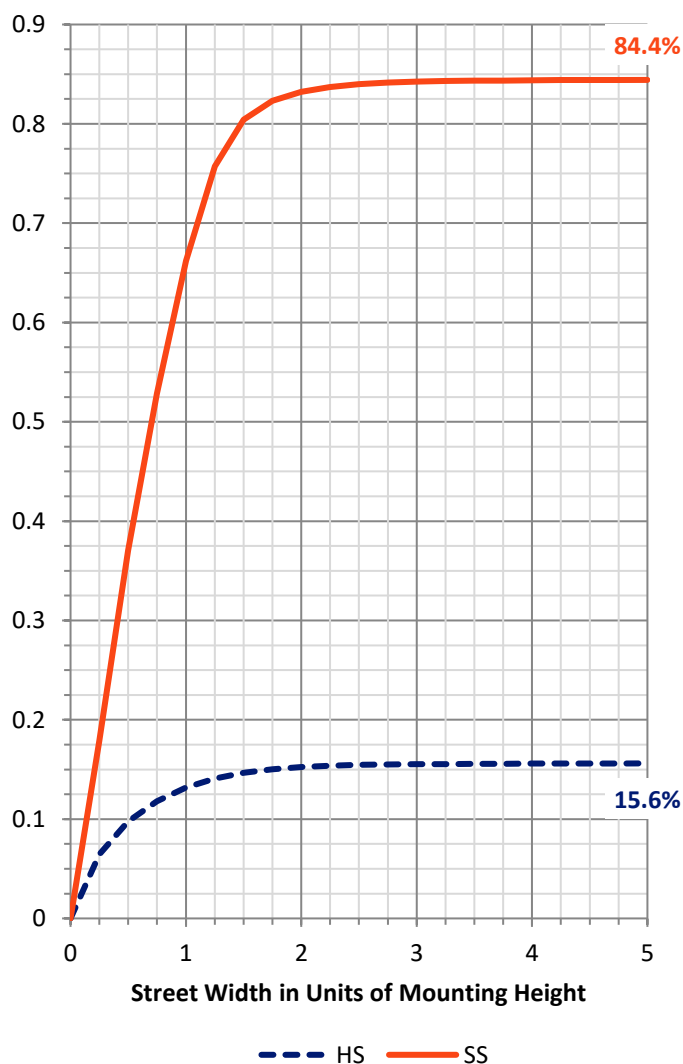
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4257.9 | 0.0 | 4257.9 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 22846.1 | 0.0 | 22846.1 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 27104.0 | 0.0 | 27104.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.5 | 1.7 |
| 10°-20° | 1460.0 | 5.4 |
| 20°-30° | 2647.5 | 9.8 |
| 30°-40° | 4565.7 | 16.8 |
| 40°-50° | 7417.1 | 27.4 |
| 50°-60° | 7817.9 | 28.8 |
| 60°-70° | 2388.7 | 8.8 |
| 70°-80° | 306.2 | 1.1 |
| 80°-90° | 46.5 | 0.2 |
| 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° | 27104.0 | 100.0 |
| 0°-180° | 27104.0 | 100.0 |

Coefficient of Utilization

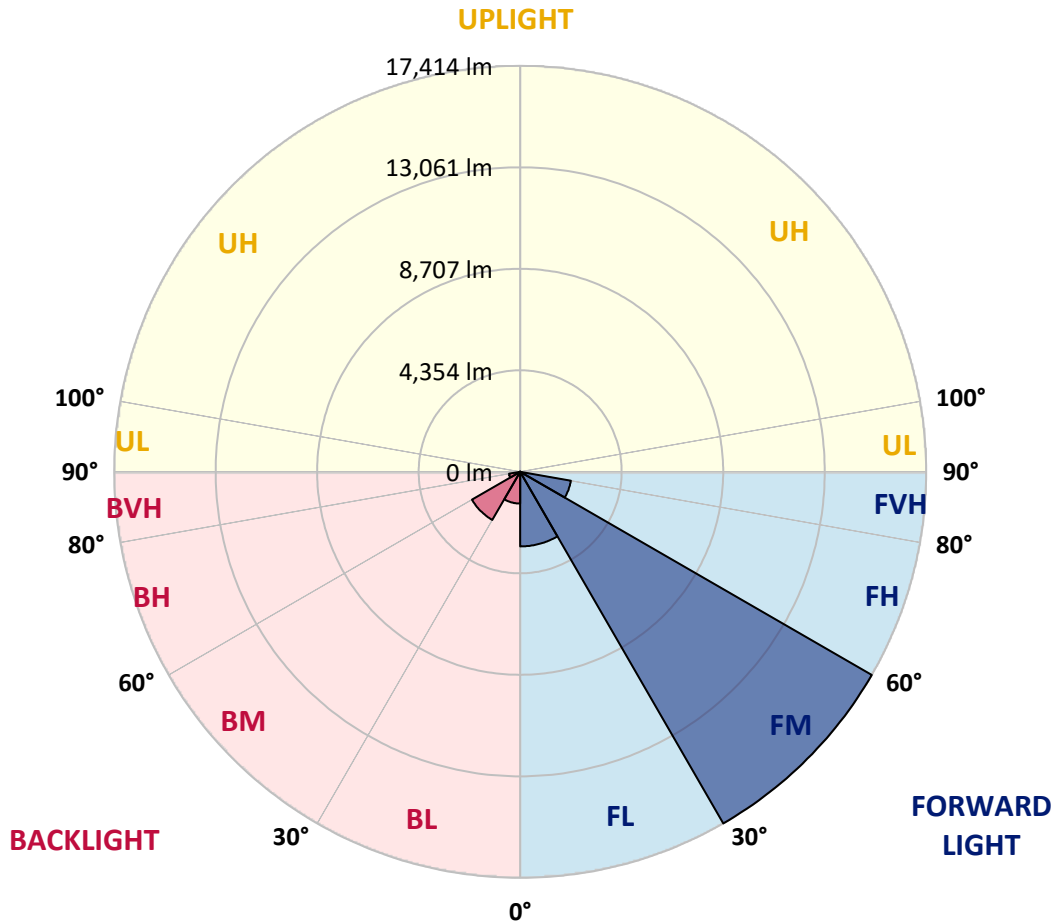


REPORT NUMBER: P532945
 CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3199.9 | 11.8 | | | |
| FM (30°-60°) | 17414.3 | 64.2 | | | |
| FH (60°-80°) | 2209.1 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 22.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1362.1 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2386.3 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 485.8 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P532945

CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 |
| 2.5° | 5196.0 | 5076.1 | 5081.1 | 5071.1 | 5056.1 | 5001.1 | 4836.2 | 4811.3 | 4701.4 | 4671.4 | 4571.5 |
| 5° | 5820.5 | 5715.6 | 5775.5 | 5685.6 | 5600.7 | 5550.7 | 5280.9 | 5156.0 | 4981.1 | 4916.2 | 4776.3 |
| 7.5° | 6210.2 | 6160.2 | 6140.2 | 6145.2 | 6065.3 | 5940.4 | 5820.5 | 5545.7 | 5310.9 | 5260.9 | 4966.1 |
| 10° | 6400.0 | 6370.1 | 6400.0 | 6385.0 | 6420.0 | 6435.0 | 6225.2 | 6060.3 | 5715.6 | 5630.6 | 5171.0 |
| 12.5° | 6445.0 | 6505.0 | 6529.9 | 6594.9 | 6679.8 | 6824.7 | 6809.7 | 6584.9 | 6125.3 | 6070.3 | 5485.7 |
| 15° | 6554.9 | 6604.9 | 6579.9 | 6684.8 | 6844.7 | 7089.5 | 7219.4 | 7184.4 | 6689.8 | 6589.9 | 5850.5 |
| 17.5° | 6654.8 | 6564.9 | 6649.8 | 6859.7 | 7019.6 | 7394.3 | 7709.0 | 7853.9 | 7304.3 | 7189.4 | 6185.2 |
| 20° | 6789.7 | 6764.8 | 6749.8 | 6854.7 | 7139.5 | 7639.1 | 8263.6 | 8528.4 | 7993.8 | 7873.9 | 6664.8 |
| 22.5° | 7199.4 | 7204.4 | 7194.4 | 7039.5 | 7244.4 | 7808.9 | 8748.2 | 9402.7 | 8818.2 | 8718.2 | 7209.4 |
| 25° | 7739.0 | 7674.0 | 7624.1 | 7499.2 | 7474.2 | 7963.8 | 9237.8 | 10471.9 | 9807.4 | 9737.4 | 7799.0 |
| 27.5° | 8308.6 | 8308.6 | 8158.7 | 8043.8 | 7883.9 | 8348.5 | 9687.5 | 11511.1 | 11001.5 | 10906.5 | 8313.6 |
| 30° | 8928.1 | 8963.0 | 8943.1 | 8698.3 | 8598.3 | 8768.2 | 10147.1 | 12840.0 | 12370.4 | 12250.5 | 9162.9 |
| 32.5° | 9842.4 | 9767.4 | 9852.4 | 9647.5 | 9352.7 | 9502.6 | 10871.6 | 14029.1 | 14149.0 | 13979.2 | 10277.0 |
| 35° | 11051.4 | 11006.5 | 10951.5 | 10616.8 | 10267.0 | 10386.9 | 11895.8 | 15493.0 | 16382.3 | 16297.4 | 11401.2 |
| 37.5° | 12135.6 | 12110.6 | 12065.6 | 11835.8 | 11431.1 | 11576.0 | 13059.9 | 17016.8 | 18560.6 | 18280.8 | 12989.9 |
| 40° | 13274.7 | 13409.6 | 13264.7 | 13059.9 | 12690.2 | 13009.9 | 14428.8 | 17921.1 | 20394.2 | 20054.4 | 14204.0 |
| 42.5° | 14818.5 | 14713.6 | 14778.5 | 14403.8 | 14204.0 | 14553.7 | 15802.7 | 18825.4 | 21818.1 | 21413.4 | 15493.0 |
| 45° | 16462.2 | 16467.2 | 16292.4 | 16172.5 | 15652.9 | 16032.6 | 16647.1 | 19325.0 | 22952.2 | 22637.4 | 16467.2 |
| 47.5° | 17516.4 | 17511.4 | 17701.3 | 17891.1 | 17356.5 | 16981.8 | 17221.6 | 19799.6 | 23536.7 | 23391.9 | 16822.0 |
| 50° | 17351.5 | 17401.5 | 17646.3 | 18355.8 | 18635.5 | 18130.9 | 17761.2 | 19659.8 | 23801.5 | 23786.6 | 17126.7 |
| 52.5° | 15093.3 | 15258.2 | 15667.9 | 16692.1 | 18101.0 | 18725.5 | 18325.8 | 19919.6 | 23931.4 | 23956.4 | 17581.4 |
| 55° | 11491.1 | 11581.0 | 12360.4 | 13604.5 | 15163.2 | 17301.6 | 18101.0 | 20124.4 | 24031.4 | 24076.3 | 18130.9 |
| 56° | 9967.3 | 9727.5 | 10851.6 | 11735.9 | 13599.5 | 15937.6 | 17531.4 | 19964.5 | 23971.4 | 24316.1 | 18405.7 |
| 57.5° | 7524.2 | 7364.3 | 8273.6 | 9377.7 | 11171.3 | 13639.4 | 15762.8 | 19210.1 | 23566.7 | 23561.7 | 18011.0 |
| 60° | 4576.5 | 4416.6 | 5116.0 | 5765.5 | 6769.8 | 8398.5 | 10651.7 | 15298.1 | 19924.5 | 20344.2 | 14583.7 |
| 62.5° | 2722.9 | 2822.8 | 3512.3 | 3907.0 | 4231.7 | 4401.6 | 5510.7 | 9092.9 | 13294.7 | 13594.5 | 9048.0 |
| 65° | 1813.6 | 1848.6 | 2368.2 | 3017.7 | 3162.5 | 2518.0 | 2243.3 | 3682.1 | 5765.5 | 5580.7 | 3732.1 |
| 67.5° | 1119.1 | 1199.1 | 1588.8 | 2268.2 | 2513.1 | 1838.6 | 1064.2 | 1373.9 | 1588.8 | 1588.8 | 1079.2 |
| 70° | 679.5 | 719.4 | 1059.2 | 1543.8 | 1723.7 | 1184.1 | 774.4 | 774.4 | 764.4 | 749.4 | 644.5 |
| 72.5° | 324.7 | 349.7 | 539.6 | 794.4 | 809.4 | 624.5 | 599.5 | 654.5 | 639.5 | 634.5 | 534.6 |
| 75° | 139.9 | 149.9 | 189.9 | 249.8 | 284.8 | 264.8 | 364.7 | 469.6 | 484.6 | 469.6 | 384.7 |
| 77.5° | 45.0 | 50.0 | 69.9 | 89.9 | 94.9 | 114.9 | 154.9 | 194.8 | 224.8 | 209.8 | 189.9 |
| 80° | 5.0 | 10.0 | 20.0 | 45.0 | 69.9 | 89.9 | 114.9 | 129.9 | 144.9 | 144.9 | 134.9 |
| 82.5° | 5.0 | 5.0 | 20.0 | 40.0 | 64.9 | 84.9 | 109.9 | 124.9 | 144.9 | 149.9 | 139.9 |
| 85° | 0.0 | 5.0 | 15.0 | 35.0 | 55.0 | 55.0 | 50.0 | 50.0 | 35.0 | 35.0 | 35.0 |
| 87.5° | 0.0 | 0.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| 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: P532945

CATALOG NUMBER: GALN-SA8B-750-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 | 4511.5 |
| 2.5° | 4551.5 | 4541.5 | 4406.6 | 4321.6 | 4276.7 | 4186.8 | 4131.8 | 4091.8 | 4061.9 | 4026.9 | 4031.9 |
| 5° | 4611.4 | 4576.5 | 4351.6 | 4196.7 | 4011.9 | 3912.0 | 3827.0 | 3757.1 | 3712.1 | 3702.1 | 3682.1 |
| 7.5° | 4781.3 | 4596.4 | 4256.7 | 3976.9 | 3742.1 | 3642.2 | 3567.2 | 3522.3 | 3542.3 | 3497.3 | 3532.3 |
| 10° | 4911.2 | 4636.4 | 4141.8 | 3737.1 | 3502.3 | 3427.3 | 3387.4 | 3422.3 | 3472.3 | 3452.3 | 3427.3 |
| 12.5° | 5071.1 | 4676.4 | 3956.9 | 3507.3 | 3287.5 | 3232.5 | 3302.4 | 3367.4 | 3467.3 | 3507.3 | 3457.3 |
| 15° | 5250.9 | 4721.3 | 3722.1 | 3242.5 | 3102.6 | 3147.6 | 3267.5 | 3382.4 | 3482.3 | 3532.3 | 3562.2 |
| 17.5° | 5470.8 | 4706.4 | 3492.3 | 3032.6 | 2927.7 | 3057.6 | 3202.5 | 3307.4 | 3457.3 | 3532.3 | 3512.3 |
| 20° | 5675.6 | 4656.4 | 3237.5 | 2822.8 | 2827.8 | 2947.7 | 3067.6 | 3237.5 | 3317.4 | 3417.4 | 3382.4 |
| 22.5° | 5870.4 | 4566.5 | 2972.7 | 2677.9 | 2677.9 | 2862.8 | 2922.7 | 3032.6 | 3102.6 | 3152.6 | 3147.6 |
| 25° | 6145.2 | 4396.6 | 2752.9 | 2538.0 | 2598.0 | 2717.9 | 2767.9 | 2802.8 | 2772.8 | 2812.8 | 2817.8 |
| 27.5° | 6340.1 | 4221.7 | 2573.0 | 2413.1 | 2523.0 | 2613.0 | 2598.0 | 2578.0 | 2508.1 | 2453.1 | 2488.1 |
| 30° | 6549.9 | 4016.9 | 2418.1 | 2328.2 | 2388.1 | 2468.1 | 2408.1 | 2348.2 | 2238.3 | 2148.3 | 2153.3 |
| 32.5° | 6849.7 | 3922.0 | 2283.2 | 2228.3 | 2308.2 | 2318.2 | 2253.3 | 2163.3 | 2053.4 | 1968.5 | 1963.5 |
| 35° | 7409.3 | 3862.0 | 2168.3 | 2163.3 | 2178.3 | 2183.3 | 2118.4 | 2008.4 | 1963.5 | 1893.5 | 1918.5 |
| 37.5° | 7968.8 | 3832.0 | 2088.4 | 2068.4 | 2063.4 | 2068.4 | 1993.5 | 1888.5 | 1973.5 | 1968.5 | 1978.5 |
| 40° | 8683.3 | 3966.9 | 1973.5 | 1948.5 | 1953.5 | 1953.5 | 1858.6 | 1828.6 | 1978.5 | 1993.5 | 1998.5 |
| 42.5° | 9407.7 | 4136.8 | 1898.5 | 1818.6 | 1838.6 | 1838.6 | 1788.6 | 1753.6 | 1858.6 | 1758.6 | 1743.6 |
| 45° | 10037.2 | 4386.6 | 1818.6 | 1688.7 | 1738.7 | 1763.6 | 1748.6 | 1688.7 | 1623.7 | 1453.9 | 1453.9 |
| 47.5° | 10242.1 | 4606.4 | 1723.7 | 1563.8 | 1603.8 | 1713.7 | 1668.7 | 1543.8 | 1428.9 | 1289.0 | 1279.0 |
| 50° | 10601.8 | 4846.2 | 1648.7 | 1418.9 | 1503.8 | 1638.7 | 1593.8 | 1468.9 | 1339.0 | 1239.0 | 1244.0 |
| 52.5° | 10971.5 | 5121.0 | 1508.8 | 1249.0 | 1354.0 | 1578.8 | 1578.8 | 1438.9 | 1239.0 | 1169.1 | 1159.1 |
| 55° | 11526.1 | 5111.0 | 1259.0 | 1024.2 | 1209.1 | 1488.8 | 1513.8 | 1289.0 | 1109.1 | 1054.2 | 1054.2 |
| 56° | 11606.0 | 4881.2 | 1134.1 | 959.3 | 1144.1 | 1463.9 | 1468.9 | 1249.0 | 1059.2 | 999.2 | 999.2 |
| 57.5° | 11006.5 | 4406.6 | 994.2 | 879.3 | 1064.2 | 1418.9 | 1423.9 | 1214.1 | 1019.2 | 934.3 | 924.3 |
| 60° | 8468.4 | 2982.7 | 829.4 | 784.4 | 964.3 | 1279.0 | 1304.0 | 1104.1 | 894.3 | 829.4 | 824.4 |
| 62.5° | 4781.3 | 1653.7 | 729.4 | 709.4 | 829.4 | 1089.2 | 1164.1 | 964.3 | 759.4 | 724.4 | 734.4 |
| 65° | 2183.3 | 909.3 | 614.5 | 574.6 | 669.5 | 839.3 | 939.3 | 794.4 | 624.5 | 584.5 | 584.5 |
| 67.5° | 799.4 | 619.5 | 524.6 | 454.6 | 469.6 | 544.6 | 609.5 | 514.6 | 414.7 | 354.7 | 369.7 |
| 70° | 569.6 | 519.6 | 459.6 | 394.7 | 364.7 | 354.7 | 349.7 | 289.8 | 204.8 | 159.9 | 169.9 |
| 72.5° | 459.6 | 429.7 | 384.7 | 334.7 | 284.8 | 239.8 | 204.8 | 149.9 | 94.9 | 64.9 | 60.0 |
| 75° | 329.7 | 314.8 | 279.8 | 239.8 | 199.8 | 169.9 | 139.9 | 94.9 | 50.0 | 25.0 | 25.0 |
| 77.5° | 169.9 | 169.9 | 164.9 | 149.9 | 124.9 | 99.9 | 79.9 | 55.0 | 30.0 | 10.0 | 10.0 |
| 80° | 129.9 | 139.9 | 144.9 | 129.9 | 114.9 | 89.9 | 64.9 | 40.0 | 20.0 | 5.0 | 5.0 |
| 82.5° | 124.9 | 144.9 | 154.9 | 134.9 | 114.9 | 84.9 | 64.9 | 40.0 | 20.0 | 5.0 | 5.0 |
| 85° | 30.0 | 30.0 | 45.0 | 50.0 | 64.9 | 69.9 | 55.0 | 35.0 | 15.0 | 5.0 | 5.0 |
| 87.5° | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 |
| 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)