

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: P455578

Luminaire Tested: **GALN-SA6D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32709 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

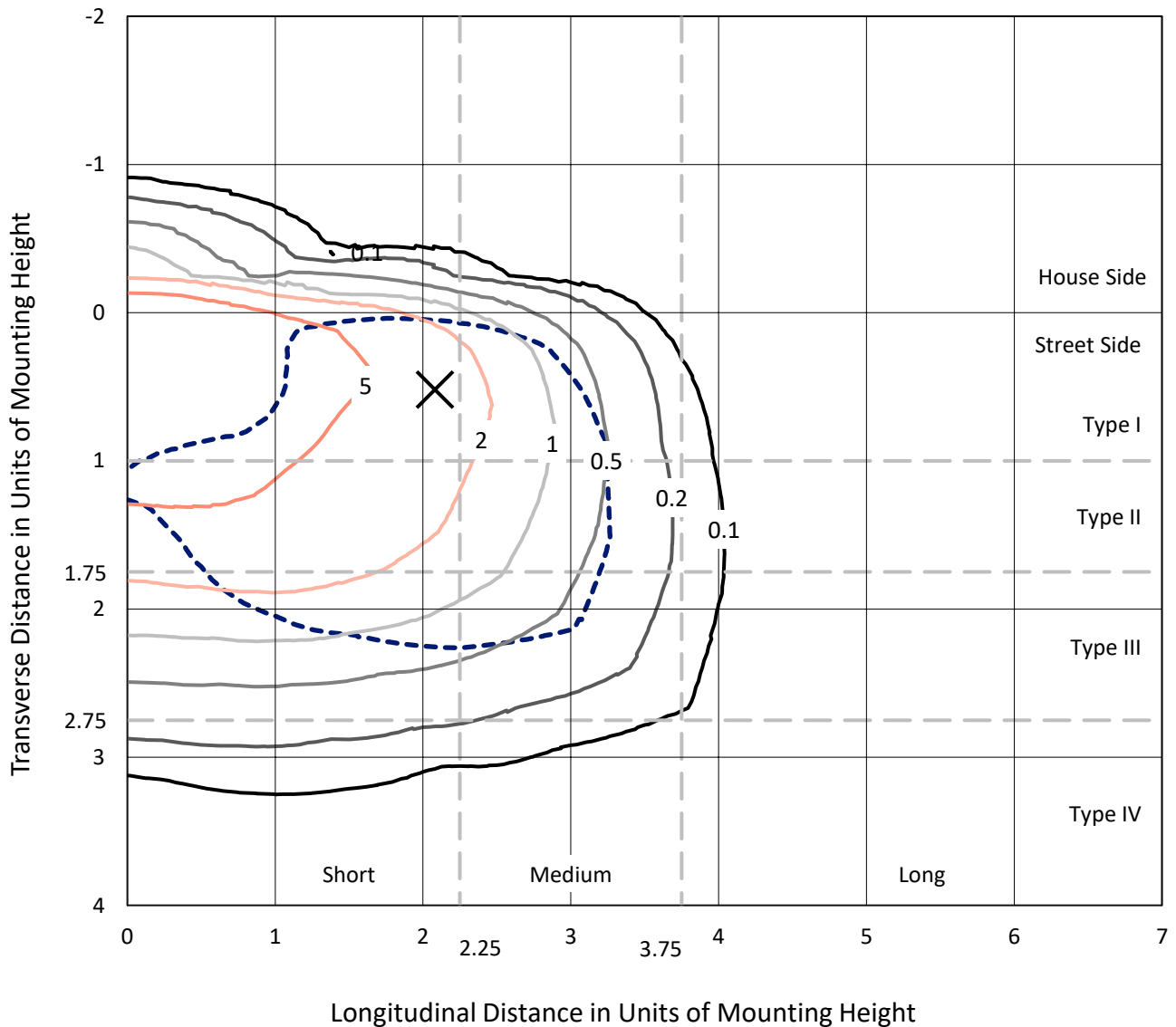
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455578
 CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

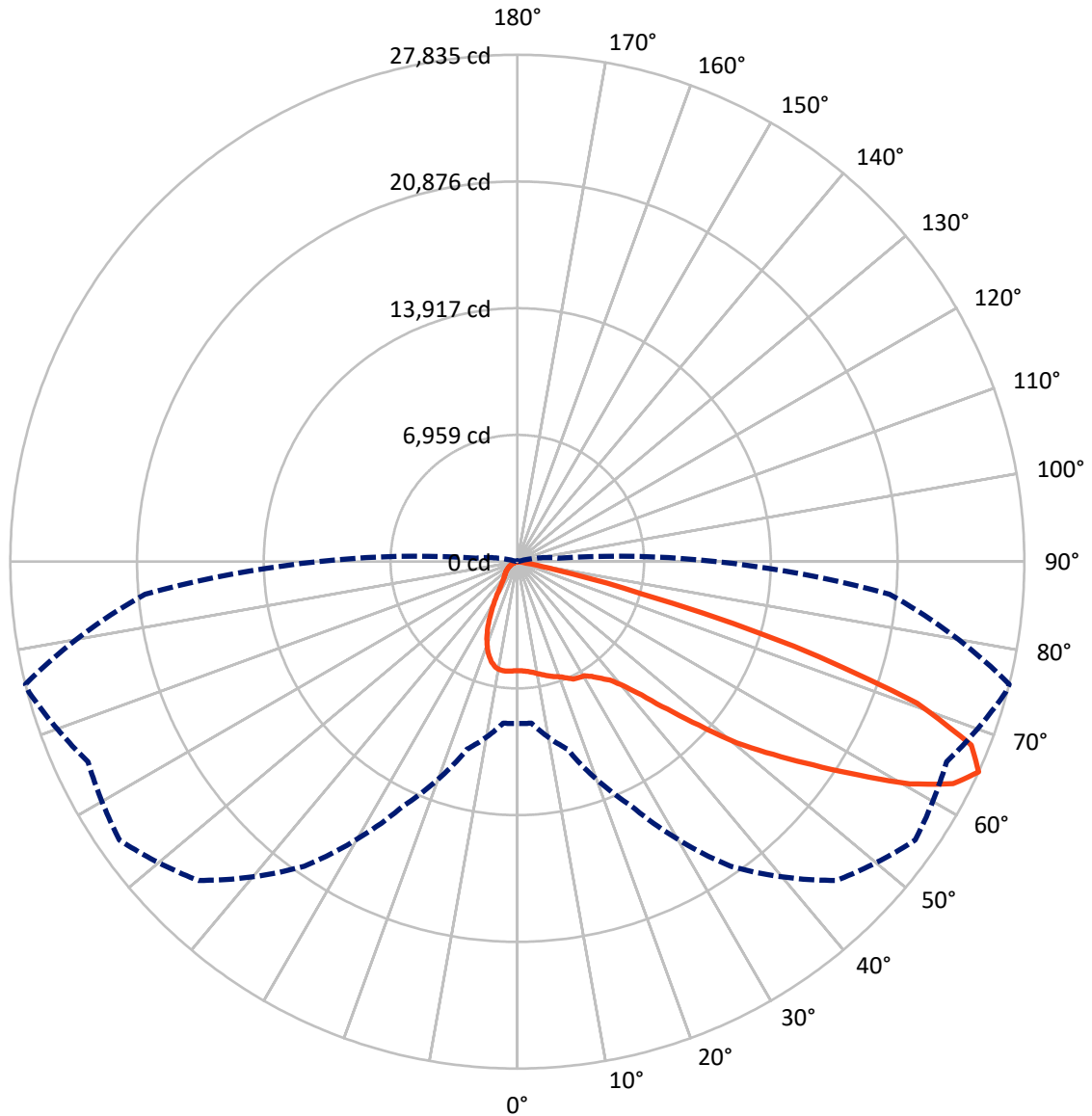
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

REPORT NUMBER: P455578
CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455578
 CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

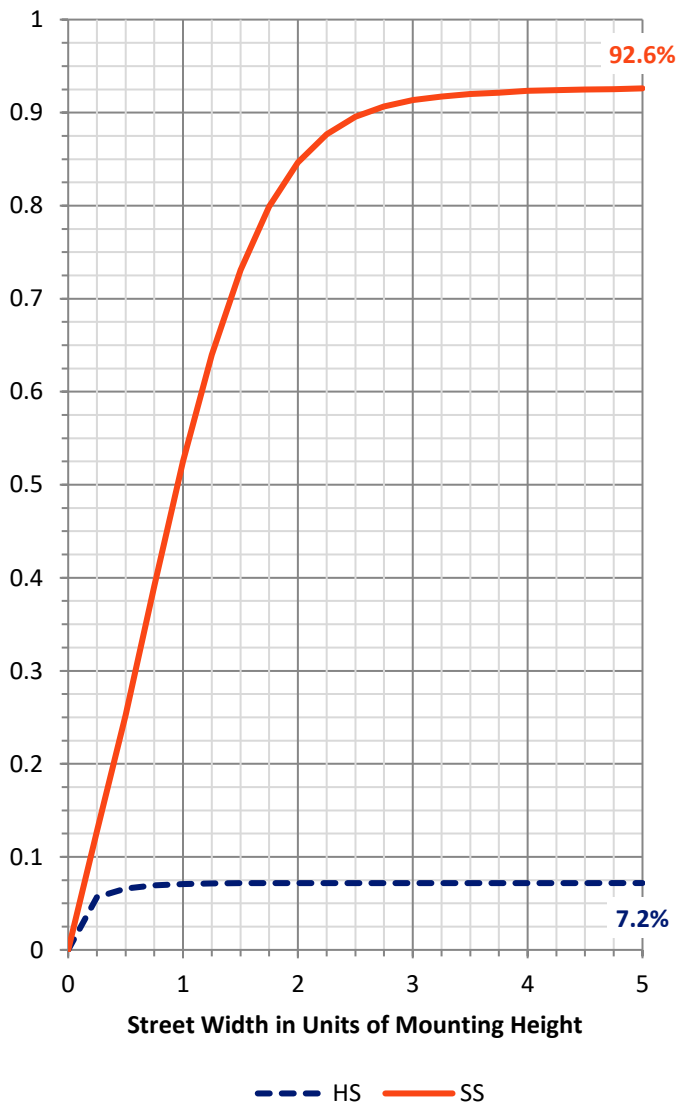
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2362.2 | 0.0 | 2362.2 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 30346.8 | 0.0 | 30346.8 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 32709.0 | 0.0 | 32709.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 492.9 | 1.5 |
| 10°-20° | 1097.5 | 3.4 |
| 20°-30° | 1768.5 | 5.4 |
| 30°-40° | 3075.0 | 9.4 |
| 40°-50° | 5081.2 | 15.5 |
| 50°-60° | 7849.4 | 24.0 |
| 60°-70° | 9585.3 | 29.3 |
| 70°-80° | 3637.9 | 11.1 |
| 80°-90° | 121.4 | 0.4 |
| 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° | 32709.0 | 100.0 |
| 0°-180° | 32709.0 | 100.0 |



REPORT NUMBER: P455578

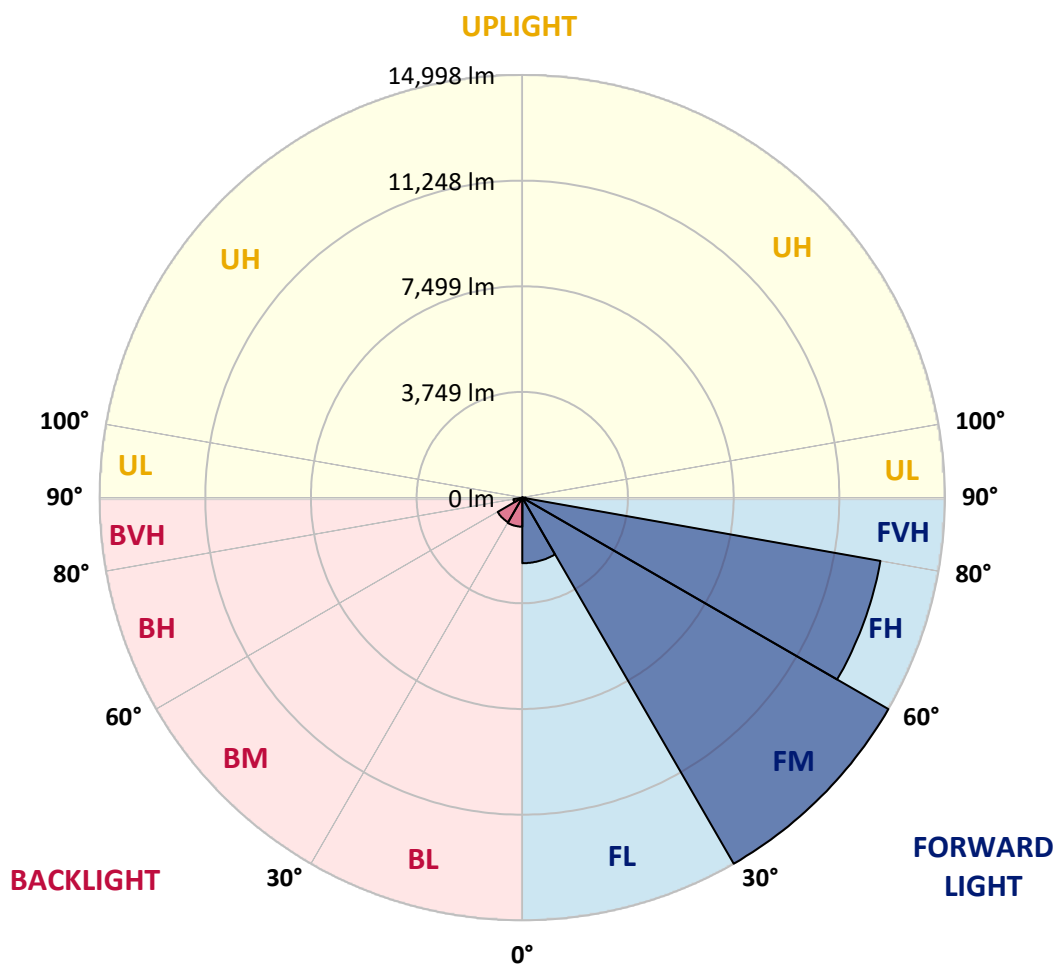
CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2326.9 | 7.1 | | | |
| FM (30°-60°) | 14997.6 | 45.9 | | | |
| FH (60°-80°) | 12902.6 | 39.4 | | | G5 |
| FVH (80°-90°) | 119.7 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1032.0 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 1008.0 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 320.5 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P455578

CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 |
| 2.5° | 5717.9 | 5720.3 | 5734.1 | 5768.8 | 5821.9 | 5865.7 | 5902.7 | 5962.7 | 6004.3 | 6008.9 | 6022.8 |
| 5° | 5323.0 | 5295.3 | 5323.0 | 5413.1 | 5493.9 | 5616.3 | 5766.4 | 5916.5 | 6050.5 | 6059.7 | 6124.4 |
| 7.5° | 4879.7 | 4902.7 | 4946.6 | 5039.0 | 5191.4 | 5378.5 | 5595.5 | 5863.4 | 6117.5 | 6140.6 | 6267.6 |
| 10° | 4429.3 | 4480.1 | 4551.7 | 4692.6 | 4905.1 | 5147.5 | 5443.1 | 5826.5 | 6223.7 | 6256.0 | 6475.4 |
| 12.5° | 4013.6 | 4036.7 | 4124.5 | 4313.9 | 4577.1 | 4918.9 | 5327.7 | 5805.7 | 6341.5 | 6380.7 | 6697.1 |
| 15° | 3695.0 | 3725.0 | 3801.2 | 3972.1 | 4265.4 | 4704.1 | 5233.0 | 5798.8 | 6456.9 | 6512.4 | 6918.8 |
| 17.5° | 3634.9 | 3653.4 | 3685.7 | 3801.2 | 4057.5 | 4533.2 | 5147.5 | 5796.5 | 6567.8 | 6634.8 | 7124.3 |
| 20° | 3882.0 | 3865.8 | 3833.5 | 3822.0 | 3962.8 | 4401.6 | 5085.2 | 5814.9 | 6674.0 | 6750.2 | 7341.4 |
| 22.5° | 4500.9 | 4521.7 | 4332.3 | 4108.3 | 4062.1 | 4380.8 | 5075.9 | 5902.7 | 6842.6 | 6932.7 | 7583.9 |
| 25° | 5814.9 | 5655.6 | 5360.0 | 4824.2 | 4420.1 | 4507.8 | 5179.9 | 6110.5 | 7038.9 | 7138.2 | 7803.3 |
| 27.5° | 7267.5 | 7219.0 | 6759.5 | 5877.3 | 5124.4 | 4775.7 | 5364.6 | 6269.9 | 7103.6 | 7205.2 | 7928.0 |
| 30° | 8694.7 | 8752.4 | 8225.9 | 7251.4 | 6147.5 | 5272.2 | 5537.8 | 6329.9 | 7161.3 | 7267.5 | 8087.3 |
| 32.5° | 10018.0 | 10087.2 | 9625.4 | 8660.1 | 7353.0 | 6131.3 | 5835.7 | 6563.2 | 7403.8 | 7512.3 | 8352.9 |
| 35° | 11059.5 | 11068.7 | 10720.0 | 9951.0 | 8669.3 | 7175.1 | 6480.0 | 6971.9 | 7731.7 | 7858.7 | 8634.7 |
| 37.5° | 12015.5 | 12001.7 | 11592.9 | 10930.1 | 9766.2 | 8212.0 | 7290.6 | 7443.0 | 8105.8 | 8237.4 | 9041.1 |
| 40° | 12724.5 | 12733.7 | 12602.1 | 11978.6 | 10789.3 | 9170.4 | 7932.6 | 7884.1 | 8734.0 | 8939.5 | 9632.3 |
| 42.5° | 13197.9 | 13283.4 | 13348.0 | 13031.6 | 12075.6 | 10350.5 | 8918.7 | 8828.6 | 9824.0 | 9994.9 | 10468.3 |
| 45° | 13581.3 | 13733.7 | 14057.0 | 14040.8 | 13311.1 | 11798.5 | 10272.0 | 10087.2 | 11368.9 | 11551.4 | 11532.9 |
| 47.5° | 13860.7 | 14015.4 | 14551.2 | 14874.5 | 14472.7 | 13202.5 | 11974.0 | 11814.6 | 13214.1 | 13412.7 | 12708.3 |
| 50° | 14003.9 | 14188.6 | 14872.2 | 15498.0 | 15380.3 | 14555.8 | 13913.8 | 13923.1 | 15442.6 | 15634.3 | 14070.9 |
| 52.5° | 13669.0 | 13909.2 | 15043.1 | 16170.1 | 16398.7 | 15851.4 | 15731.3 | 16036.1 | 17426.3 | 17590.3 | 15301.7 |
| 55° | 12599.8 | 12902.3 | 14809.8 | 16742.8 | 17578.8 | 17380.2 | 17795.8 | 18260.0 | 19594.8 | 19701.0 | 16565.0 |
| 57.5° | 11923.2 | 12244.2 | 14121.7 | 17230.0 | 18996.7 | 19301.5 | 19959.7 | 20299.2 | 21832.6 | 22102.8 | 18015.2 |
| 60° | 11352.8 | 11604.5 | 13555.9 | 17334.0 | 20437.7 | 21652.4 | 22292.1 | 22643.2 | 24594.6 | 24770.1 | 19611.0 |
| 62.5° | 10403.6 | 10692.3 | 12599.8 | 16608.8 | 21162.9 | 23534.6 | 24860.1 | 24703.1 | 26730.7 | 26853.1 | 20590.1 |
| 65° | 8877.1 | 8902.5 | 10659.9 | 14786.8 | 20414.6 | 24756.2 | 26663.7 | 26005.6 | 27751.4 | 27834.6 | 20513.9 |
| 67.5° | 6625.5 | 6870.3 | 8200.5 | 11622.9 | 17243.9 | 23712.4 | 27248.0 | 26040.2 | 27107.1 | 26876.2 | 18885.8 |
| 70° | 4267.7 | 4454.7 | 5558.6 | 8059.6 | 12433.5 | 19788.8 | 25310.5 | 24255.1 | 23790.9 | 23278.2 | 15458.8 |
| 72.5° | 1969.9 | 2210.0 | 3302.4 | 4604.8 | 7373.7 | 14096.3 | 20546.3 | 19705.7 | 17123.8 | 15858.3 | 9826.3 |
| 75° | 859.1 | 919.1 | 1630.4 | 2429.4 | 3457.1 | 7454.6 | 13546.6 | 12232.6 | 7734.0 | 7064.3 | 3932.8 |
| 77.5° | 524.2 | 563.5 | 854.5 | 1302.5 | 1357.9 | 2840.5 | 7297.5 | 5336.9 | 2390.2 | 2108.4 | 1066.9 |
| 80° | 355.6 | 399.5 | 621.2 | 681.3 | 464.2 | 792.1 | 2738.9 | 1424.9 | 482.7 | 461.9 | 228.6 |
| 82.5° | 173.2 | 219.4 | 459.6 | 381.0 | 200.9 | 254.0 | 796.7 | 304.8 | 140.9 | 131.6 | 80.8 |
| 85° | 25.4 | 43.9 | 258.6 | 249.4 | 90.1 | 60.0 | 140.9 | 76.2 | 48.5 | 46.2 | 36.9 |
| 87.5° | 0.0 | 0.0 | 87.8 | 39.3 | 9.2 | 9.2 | 16.2 | 16.2 | 18.5 | 16.2 | 18.5 |
| 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: P455578

CATALOG NUMBER: GALN-SA6D-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 | 5983.5 |
| 2.5° | 6029.7 | 6041.3 | 5997.4 | 5935.0 | 5868.1 | 5801.1 | 5706.4 | 5621.0 | 5570.1 | 5600.2 | 5526.3 |
| 5° | 6138.2 | 6129.0 | 6013.5 | 5824.2 | 5572.5 | 5269.9 | 4969.7 | 4713.4 | 4630.2 | 4505.5 | 4491.7 |
| 7.5° | 6288.4 | 6263.0 | 6018.2 | 5584.0 | 5015.9 | 4447.8 | 3893.6 | 3526.4 | 3316.2 | 3138.4 | 3143.0 |
| 10° | 6498.5 | 6424.6 | 5965.0 | 5161.4 | 4226.1 | 3369.3 | 2662.7 | 2177.7 | 1967.6 | 1900.6 | 1847.5 |
| 12.5° | 6715.6 | 6572.4 | 5817.2 | 4591.0 | 3290.8 | 2302.4 | 1618.9 | 1323.3 | 1193.9 | 1152.4 | 1147.7 |
| 15° | 6909.6 | 6683.3 | 5558.6 | 3905.1 | 2392.5 | 1471.1 | 1103.9 | 1006.9 | 990.7 | 993.0 | 990.7 |
| 17.5° | 7101.2 | 6771.0 | 5200.7 | 3177.7 | 1625.8 | 1055.4 | 949.1 | 926.0 | 933.0 | 942.2 | 939.9 |
| 20° | 7260.6 | 6789.5 | 4743.4 | 2424.8 | 1150.1 | 926.0 | 891.4 | 886.8 | 893.7 | 900.6 | 900.6 |
| 22.5° | 7433.8 | 6803.3 | 4200.7 | 1678.9 | 939.9 | 861.4 | 842.9 | 842.9 | 852.1 | 861.4 | 863.7 |
| 25° | 7563.1 | 6727.1 | 3551.8 | 1205.5 | 829.1 | 799.0 | 789.8 | 792.1 | 801.3 | 806.0 | 803.7 |
| 27.5° | 7583.9 | 6512.4 | 2863.6 | 923.7 | 752.8 | 722.8 | 713.6 | 722.8 | 711.3 | 718.2 | 713.6 |
| 30° | 7602.4 | 6239.9 | 2166.2 | 778.3 | 683.6 | 637.4 | 623.5 | 609.7 | 600.4 | 588.9 | 586.6 |
| 32.5° | 7660.1 | 5918.9 | 1581.9 | 699.7 | 618.9 | 568.1 | 535.8 | 496.5 | 466.5 | 457.3 | 454.9 |
| 35° | 7685.5 | 5533.2 | 1161.6 | 637.4 | 561.2 | 505.7 | 448.0 | 392.6 | 348.7 | 332.5 | 344.1 |
| 37.5° | 7782.5 | 5159.1 | 900.6 | 591.2 | 510.4 | 441.1 | 367.2 | 297.9 | 256.3 | 247.1 | 251.7 |
| 40° | 7981.1 | 4752.6 | 755.2 | 551.9 | 466.5 | 381.0 | 291.0 | 224.0 | 196.3 | 187.1 | 184.7 |
| 42.5° | 8299.8 | 4348.5 | 672.0 | 515.0 | 422.6 | 321.0 | 228.6 | 175.5 | 152.4 | 145.5 | 145.5 |
| 45° | 8687.8 | 3960.5 | 614.3 | 475.7 | 376.4 | 258.6 | 180.1 | 140.9 | 127.0 | 122.4 | 122.4 |
| 47.5° | 9198.1 | 3621.1 | 565.8 | 436.5 | 325.6 | 205.5 | 145.5 | 122.4 | 113.2 | 115.5 | 117.8 |
| 50° | 9715.4 | 3369.3 | 512.7 | 392.6 | 267.9 | 168.6 | 124.7 | 108.5 | 106.2 | 108.5 | 108.5 |
| 52.5° | 10105.7 | 3221.5 | 441.1 | 332.5 | 210.2 | 140.9 | 110.8 | 101.6 | 99.3 | 94.7 | 94.7 |
| 55° | 10632.2 | 3189.2 | 351.0 | 270.2 | 166.3 | 117.8 | 99.3 | 92.4 | 85.4 | 80.8 | 78.5 |
| 57.5° | 11308.9 | 3226.2 | 270.2 | 210.2 | 129.3 | 97.0 | 87.8 | 76.2 | 67.0 | 57.7 | 57.7 |
| 60° | 11729.2 | 3143.0 | 210.2 | 161.7 | 94.7 | 78.5 | 67.0 | 55.4 | 43.9 | 36.9 | 34.6 |
| 62.5° | 11595.2 | 2792.0 | 166.3 | 120.1 | 67.0 | 57.7 | 43.9 | 36.9 | 25.4 | 18.5 | 16.2 |
| 65° | 10904.7 | 2253.9 | 133.9 | 83.1 | 48.5 | 34.6 | 23.1 | 23.1 | 11.5 | 2.3 | 0.0 |
| 67.5° | 9544.5 | 1669.7 | 106.2 | 55.4 | 27.7 | 16.2 | 11.5 | 6.9 | 0.0 | 0.0 | 0.0 |
| 70° | 7768.6 | 1205.5 | 83.1 | 34.6 | 16.2 | 11.5 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4932.8 | 690.5 | 64.7 | 20.8 | 11.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1907.5 | 270.2 | 43.9 | 13.9 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 540.4 | 127.0 | 25.4 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 140.9 | 55.4 | 13.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 67.0 | 23.1 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 39.3 | 9.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.5 | 2.3 | 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 | 0.0 |

(END OF REPORT)