

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: P456027

Luminaire Tested: **GALN-SA7B-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29858 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

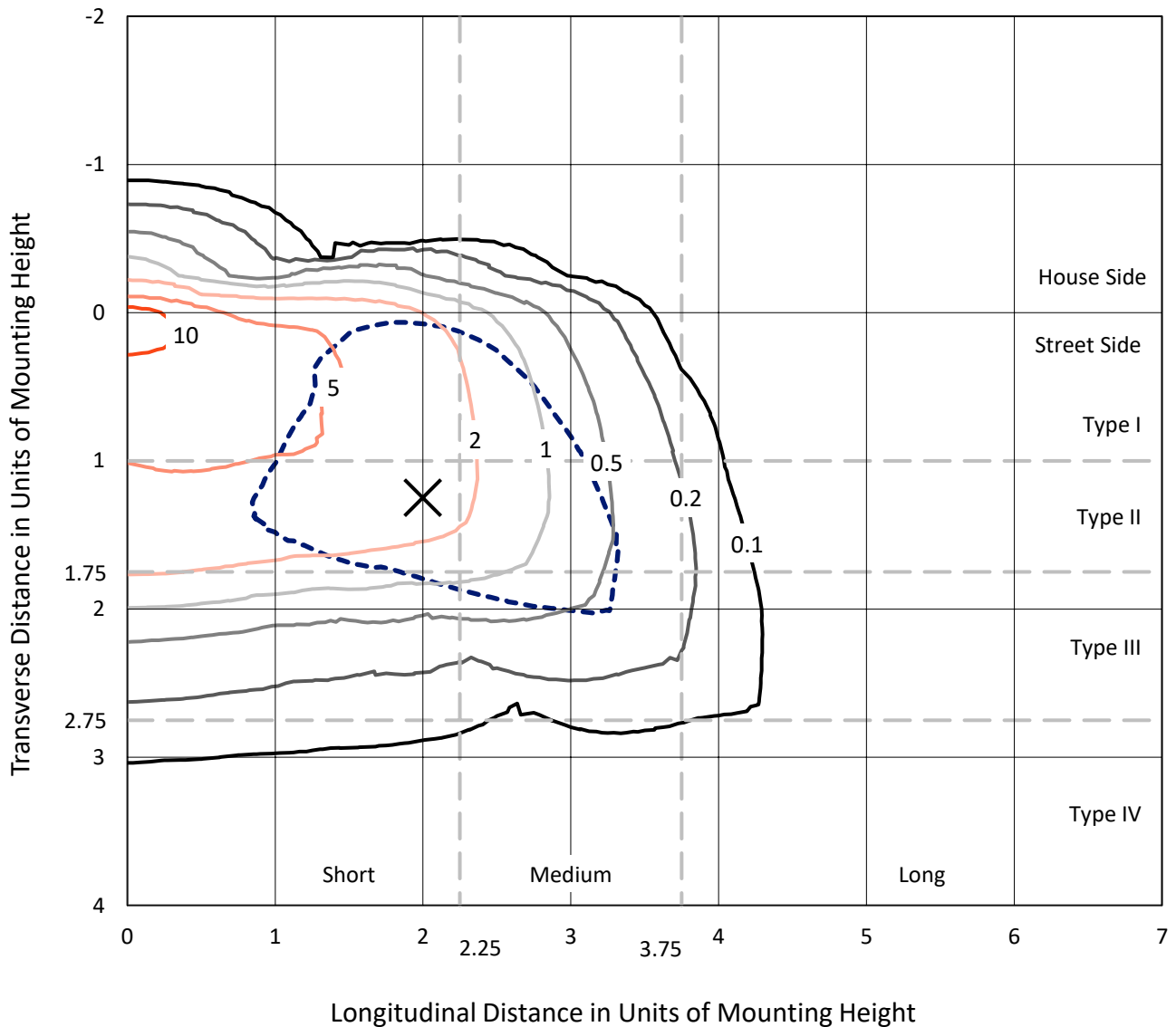
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456027
 CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

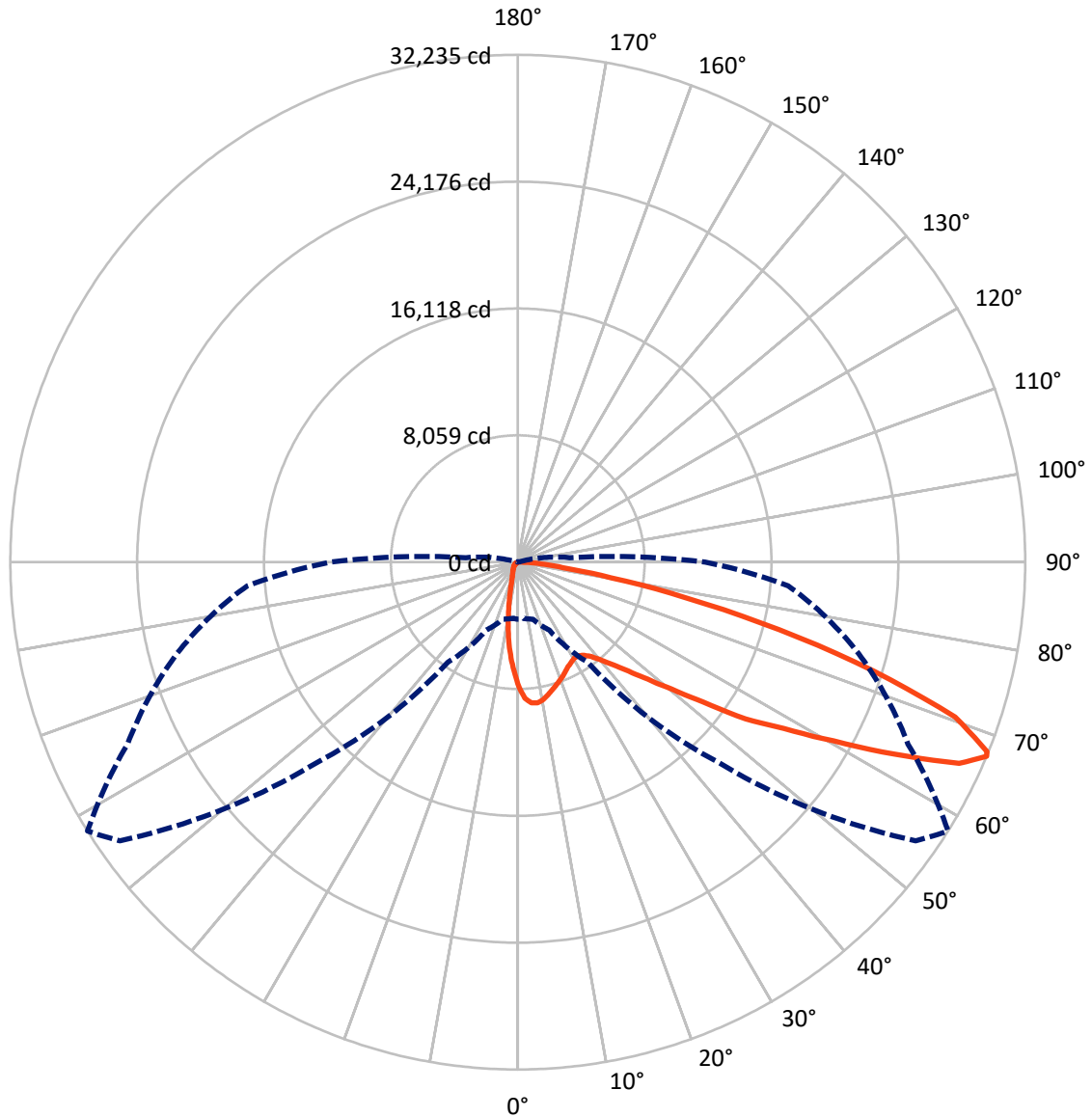
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

REPORT NUMBER: P456027
CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P456027

CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

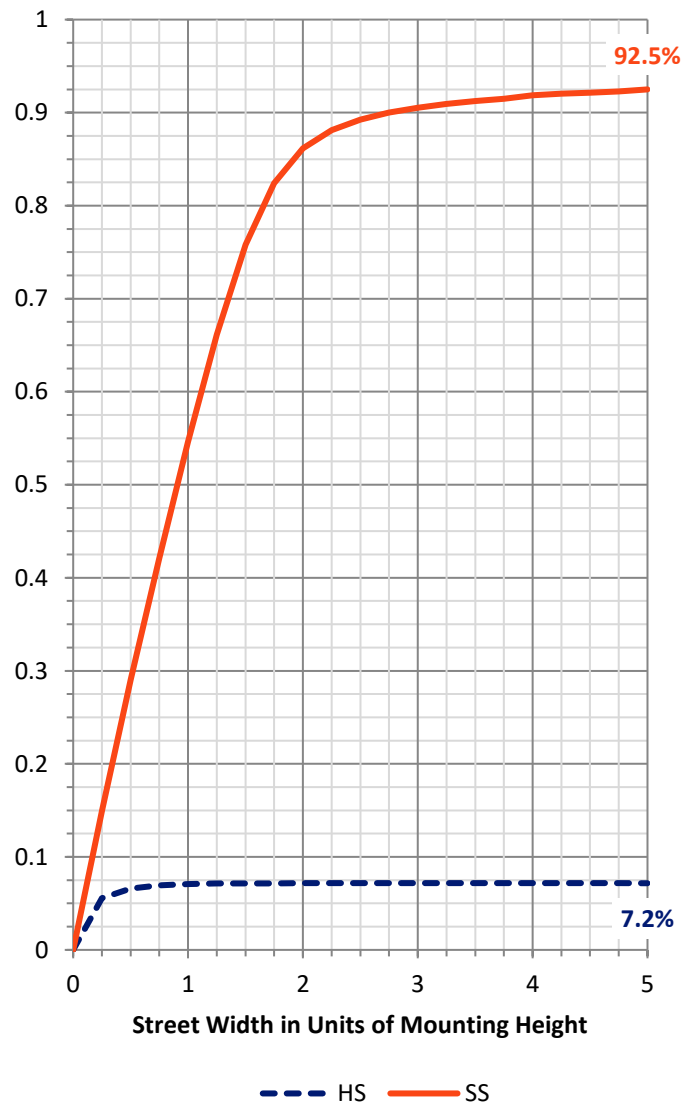
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2154.7 | 0.0 | 2154.7 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 27703.3 | 0.0 | 27703.3 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 29858.0 | 0.0 | 29858.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 642.3 | 2.2 |
| 10°-20° | 1387.2 | 4.6 |
| 20°-30° | 1879.7 | 6.3 |
| 30°-40° | 2607.1 | 8.7 |
| 40°-50° | 4158.0 | 13.9 |
| 50°-60° | 7187.5 | 24.1 |
| 60°-70° | 8210.3 | 27.5 |
| 70°-80° | 3423.0 | 11.5 |
| 80°-90° | 362.9 | 1.2 |
| 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° | 29858.0 | 100.0 |
| 0°-180° | 29858.0 | 100.0 |



REPORT NUMBER: P456027

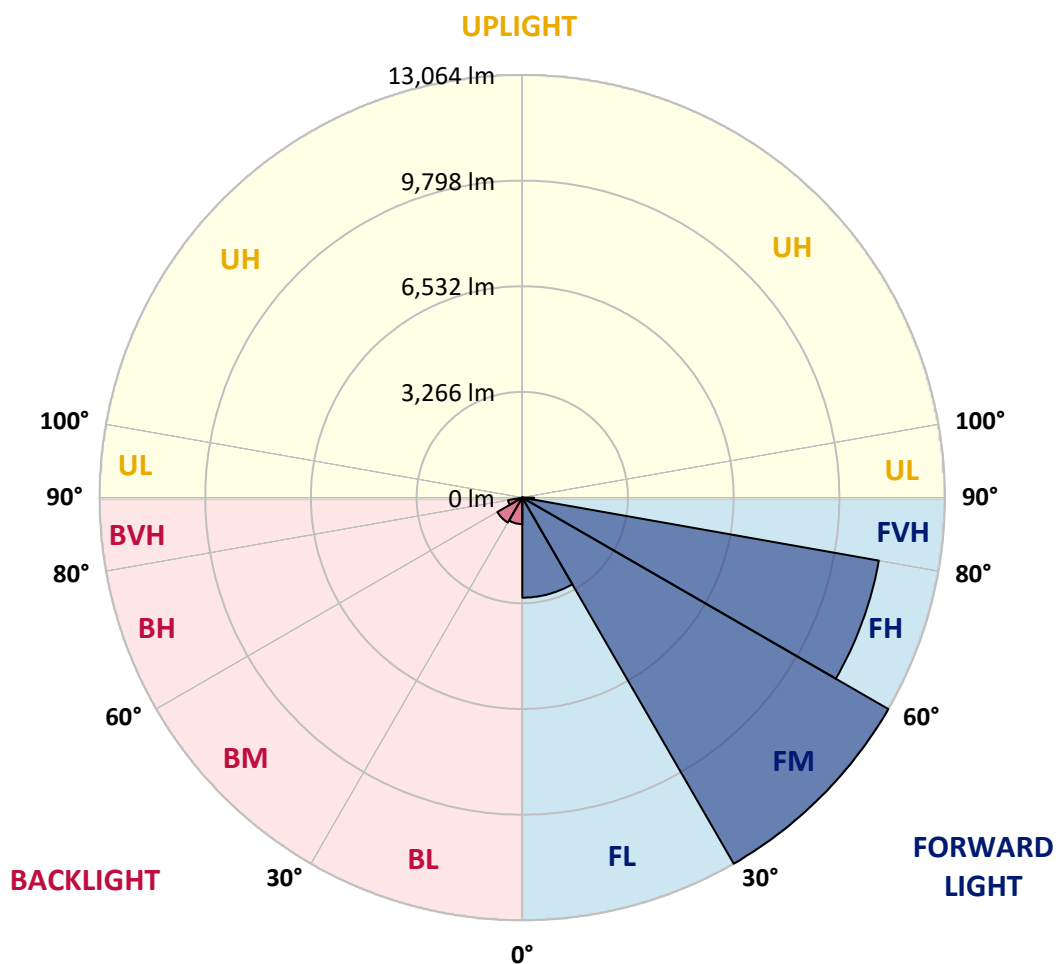
CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3091.0 | 10.4 | | | |
| FM | (30°-60°) | 13064.1 | 43.8 | | | |
| FH | (60°-80°) | 11187.8 | 37.5 | | | G4/12000 |
| FVH | (80°-90°) | 360.3 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 818.2 | 2.7 | B2/1000 | | |
| BM | (30°-60°) | 888.4 | 3.0 | B1/1000 | | |
| BH | (60°-80°) | 445.5 | 1.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.6 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P456027

CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 |
| 2.5° | 9186.0 | 9200.0 | 9148.1 | 9106.2 | 8998.5 | 8882.8 | 8729.1 | 8647.3 | 8507.7 | 8266.2 | 7998.9 |
| 5° | 9401.5 | 9419.5 | 9411.5 | 9401.5 | 9359.6 | 9247.9 | 9052.4 | 8980.5 | 8775.0 | 8382.0 | 7899.1 |
| 7.5° | 8922.7 | 8988.5 | 8996.5 | 9074.3 | 9148.1 | 9158.1 | 9084.3 | 9030.4 | 8840.9 | 8380.0 | 7721.5 |
| 10° | 8288.2 | 8332.1 | 8395.9 | 8485.7 | 8663.3 | 8810.9 | 8882.8 | 8874.8 | 8765.1 | 8318.1 | 7514.0 |
| 12.5° | 7647.7 | 7671.7 | 7769.4 | 7923.1 | 8140.5 | 8391.9 | 8583.5 | 8621.4 | 8623.4 | 8244.3 | 7340.5 |
| 15° | 7097.0 | 7087.1 | 7162.9 | 7340.5 | 7645.7 | 7961.0 | 8304.2 | 8364.0 | 8459.8 | 8172.5 | 7178.8 |
| 17.5° | 6626.2 | 6678.0 | 6690.0 | 6885.5 | 7166.9 | 7575.9 | 8012.8 | 8118.6 | 8310.1 | 8110.6 | 7045.2 |
| 20° | 6334.9 | 6362.8 | 6388.7 | 6498.5 | 6751.9 | 7182.8 | 7739.5 | 7885.2 | 8170.5 | 8054.7 | 6895.5 |
| 22.5° | 6249.1 | 6267.0 | 6245.1 | 6279.0 | 6458.6 | 6841.6 | 7442.2 | 7635.7 | 8036.8 | 8002.9 | 6773.8 |
| 25° | 6314.9 | 6332.9 | 6281.0 | 6241.1 | 6302.9 | 6564.3 | 7154.9 | 7390.3 | 7929.0 | 7992.9 | 6682.0 |
| 27.5° | 6474.5 | 6508.4 | 6436.6 | 6364.8 | 6328.9 | 6414.7 | 6929.4 | 7202.8 | 7855.2 | 8040.8 | 6640.1 |
| 30° | 6723.9 | 6743.9 | 6690.0 | 6602.2 | 6520.4 | 6434.6 | 6811.7 | 7073.1 | 7835.3 | 8152.5 | 6636.1 |
| 32.5° | 6995.3 | 7037.2 | 7007.3 | 6949.4 | 6843.6 | 6640.1 | 6845.6 | 7077.1 | 7883.2 | 8314.1 | 6686.0 |
| 35° | 7330.5 | 7378.4 | 7406.3 | 7394.3 | 7258.7 | 7005.3 | 7061.1 | 7256.7 | 8010.9 | 8611.4 | 6821.7 |
| 37.5° | 7659.7 | 7701.6 | 7859.2 | 7913.1 | 7793.4 | 7553.9 | 7480.1 | 7609.8 | 8292.2 | 9000.5 | 7067.1 |
| 40° | 8036.8 | 8092.7 | 8314.1 | 8519.6 | 8461.8 | 8210.4 | 8074.7 | 8182.4 | 8723.2 | 9587.1 | 7532.0 |
| 42.5° | 8397.9 | 8497.7 | 8834.9 | 9198.0 | 9251.9 | 8970.6 | 8880.8 | 8916.7 | 9361.6 | 10431.1 | 8180.4 |
| 45° | 8910.7 | 9004.5 | 9439.4 | 9932.3 | 10185.7 | 9966.2 | 9874.4 | 9868.4 | 10237.5 | 11618.2 | 9231.9 |
| 47.5° | 9650.9 | 9734.7 | 10247.5 | 10734.3 | 11185.3 | 11215.2 | 11041.6 | 11101.5 | 11338.9 | 13006.9 | 10520.9 |
| 50° | 10558.8 | 10756.3 | 11093.5 | 11600.3 | 12202.8 | 12689.7 | 12743.5 | 12663.7 | 12867.2 | 14615.1 | 12069.2 |
| 52.5° | 11877.6 | 11953.4 | 12262.7 | 12679.7 | 13386.0 | 14212.0 | 14852.5 | 14742.8 | 14678.9 | 16147.4 | 13633.4 |
| 55° | 12861.3 | 12963.0 | 13443.9 | 14016.5 | 15052.0 | 16141.4 | 17530.1 | 17568.0 | 16761.9 | 17619.9 | 15163.8 |
| 57.5° | 12564.0 | 12719.6 | 13447.9 | 14599.1 | 16875.7 | 18866.9 | 19900.4 | 19926.4 | 18689.3 | 19050.5 | 16891.6 |
| 60° | 11037.6 | 11111.4 | 12154.9 | 13691.3 | 17031.3 | 21819.8 | 23262.4 | 23052.9 | 20650.6 | 20650.6 | 18418.0 |
| 62.5° | 7827.3 | 7943.0 | 8789.0 | 11049.6 | 15381.2 | 22845.4 | 27288.8 | 26855.8 | 23352.2 | 22181.0 | 19327.8 |
| 65° | 5002.0 | 4890.3 | 5451.0 | 6975.3 | 11458.6 | 21331.0 | 30794.4 | 30820.3 | 25894.1 | 22793.5 | 18831.0 |
| 67° | 3623.3 | 3579.4 | 3741.1 | 4768.6 | 7769.4 | 17931.1 | 30868.2 | 32235.0 | 27354.6 | 22406.4 | 17242.8 |
| 67.5° | 3314.1 | 3348.0 | 3465.7 | 4301.7 | 7059.1 | 16317.0 | 30533.0 | 32151.2 | 27683.8 | 22173.0 | 16668.2 |
| 70° | 2512.0 | 2454.1 | 2581.8 | 3042.7 | 4231.9 | 10293.4 | 26265.2 | 29487.5 | 27274.8 | 19856.5 | 13318.2 |
| 72.5° | 1847.6 | 1841.6 | 2019.2 | 2488.1 | 3258.2 | 5482.9 | 19716.9 | 23643.5 | 22282.7 | 15119.9 | 8386.0 |
| 75° | 1247.0 | 1302.9 | 1586.2 | 2079.0 | 2952.9 | 3555.5 | 13441.9 | 17153.0 | 15469.0 | 8585.5 | 3427.8 |
| 77.5° | 710.3 | 714.3 | 1021.6 | 1670.0 | 2651.7 | 2861.2 | 7965.0 | 10927.9 | 8188.4 | 2855.2 | 1017.6 |
| 80° | 307.3 | 337.2 | 506.8 | 1213.1 | 2198.7 | 2533.9 | 4567.1 | 6005.6 | 3312.1 | 604.6 | 329.2 |
| 82.5° | 113.7 | 133.7 | 223.5 | 746.2 | 1604.2 | 2087.0 | 2759.4 | 2867.1 | 1123.3 | 213.5 | 205.5 |
| 85° | 0.0 | 4.0 | 81.8 | 349.2 | 836.0 | 931.8 | 1843.6 | 1699.9 | 496.8 | 101.8 | 133.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 35.9 | 109.7 | 347.2 | 572.6 | 638.5 | 119.7 | 35.9 | 31.9 |
| 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: P456027
 CATALOG NUMBER: GALN-SA7B-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 | 7915.1 |
| 2.5° | 7855.2 | 7725.5 | 7400.3 | 7075.1 | 6833.7 | 6632.1 | 6328.9 | 6163.3 | 6075.5 | 5945.8 | 5953.8 |
| 5° | 7657.7 | 7394.3 | 6821.7 | 6229.1 | 5750.3 | 5283.4 | 4724.7 | 4499.2 | 4309.7 | 4202.0 | 4130.1 |
| 7.5° | 7364.4 | 6975.3 | 6127.4 | 5337.2 | 4601.0 | 3785.0 | 3172.4 | 2763.4 | 2488.1 | 2386.3 | 2288.5 |
| 10° | 7043.2 | 6526.4 | 5423.0 | 4327.7 | 3306.1 | 2464.1 | 1945.4 | 1570.2 | 1436.6 | 1312.9 | 1324.8 |
| 12.5° | 6745.9 | 6117.4 | 4776.6 | 3415.8 | 2316.5 | 1566.3 | 1221.1 | 1067.4 | 1023.6 | 1009.6 | 1009.6 |
| 15° | 6502.5 | 5726.3 | 4082.2 | 2567.9 | 1588.2 | 1125.3 | 977.7 | 935.8 | 919.8 | 915.8 | 915.8 |
| 17.5° | 6243.1 | 5355.2 | 3455.7 | 1897.5 | 1155.2 | 941.7 | 891.9 | 863.9 | 857.9 | 854.0 | 854.0 |
| 20° | 6011.6 | 4982.1 | 2861.2 | 1412.6 | 933.8 | 848.0 | 816.0 | 798.1 | 792.1 | 788.1 | 790.1 |
| 22.5° | 5792.2 | 4650.9 | 2302.5 | 1067.4 | 822.0 | 772.2 | 740.2 | 722.3 | 710.3 | 700.3 | 702.3 |
| 25° | 5596.6 | 4331.6 | 1851.6 | 873.9 | 740.2 | 696.3 | 664.4 | 638.5 | 612.5 | 600.6 | 598.6 |
| 27.5° | 5459.0 | 4052.3 | 1442.6 | 748.2 | 666.4 | 618.5 | 578.6 | 546.7 | 512.8 | 494.8 | 490.8 |
| 30° | 5345.2 | 3769.0 | 1141.3 | 660.4 | 592.6 | 546.7 | 496.8 | 450.9 | 415.0 | 397.1 | 389.1 |
| 32.5° | 5271.4 | 3499.6 | 899.8 | 588.6 | 530.7 | 474.9 | 419.0 | 373.1 | 333.2 | 315.2 | 311.3 |
| 35° | 5259.4 | 3274.2 | 736.2 | 528.7 | 474.9 | 415.0 | 357.1 | 307.3 | 273.3 | 255.4 | 251.4 |
| 37.5° | 5345.2 | 3100.6 | 616.5 | 480.9 | 429.0 | 363.1 | 299.3 | 253.4 | 223.5 | 209.5 | 207.5 |
| 40° | 5574.7 | 2990.9 | 534.7 | 440.9 | 387.1 | 315.2 | 255.4 | 215.5 | 185.6 | 171.6 | 171.6 |
| 42.5° | 6011.6 | 2994.8 | 480.9 | 403.0 | 345.2 | 269.4 | 217.5 | 179.6 | 153.6 | 141.7 | 137.7 |
| 45° | 6694.0 | 3130.5 | 435.0 | 365.1 | 305.3 | 233.4 | 185.6 | 147.6 | 121.7 | 111.7 | 111.7 |
| 47.5° | 7607.8 | 3399.9 | 395.1 | 327.2 | 269.4 | 199.5 | 157.6 | 119.7 | 97.8 | 87.8 | 87.8 |
| 50° | 8803.0 | 3832.8 | 361.1 | 295.3 | 239.4 | 171.6 | 127.7 | 97.8 | 75.8 | 67.8 | 65.8 |
| 52.5° | 10052.0 | 4367.6 | 321.2 | 267.4 | 205.5 | 145.7 | 103.8 | 75.8 | 57.9 | 51.9 | 49.9 |
| 55° | 11430.7 | 4890.3 | 283.3 | 239.4 | 167.6 | 121.7 | 81.8 | 59.9 | 41.9 | 35.9 | 35.9 |
| 57.5° | 12821.4 | 5403.1 | 237.4 | 199.5 | 131.7 | 89.8 | 63.8 | 43.9 | 27.9 | 21.9 | 21.9 |
| 60° | 13998.5 | 5568.7 | 201.5 | 161.6 | 99.8 | 63.8 | 45.9 | 27.9 | 16.0 | 10.0 | 10.0 |
| 62.5° | 14160.2 | 5010.0 | 169.6 | 123.7 | 71.8 | 43.9 | 23.9 | 16.0 | 6.0 | 4.0 | 4.0 |
| 65° | 13282.3 | 4070.3 | 141.7 | 93.8 | 47.9 | 21.9 | 10.0 | 6.0 | 2.0 | 0.0 | 0.0 |
| 67° | 11901.6 | 3300.1 | 115.7 | 69.8 | 33.9 | 14.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 11548.4 | 3146.5 | 111.7 | 65.8 | 29.9 | 12.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9062.3 | 2356.4 | 79.8 | 39.9 | 18.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5632.5 | 1332.8 | 57.9 | 23.9 | 12.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2128.9 | 466.9 | 39.9 | 16.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 662.4 | 177.6 | 23.9 | 12.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 223.5 | 67.8 | 16.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 137.7 | 27.9 | 10.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 85.8 | 12.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.0 | 4.0 | 2.0 | 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)