

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: STREETWORKS

Report Number: P458585

Luminaire Tested: **GLAN-SA1C-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4759 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

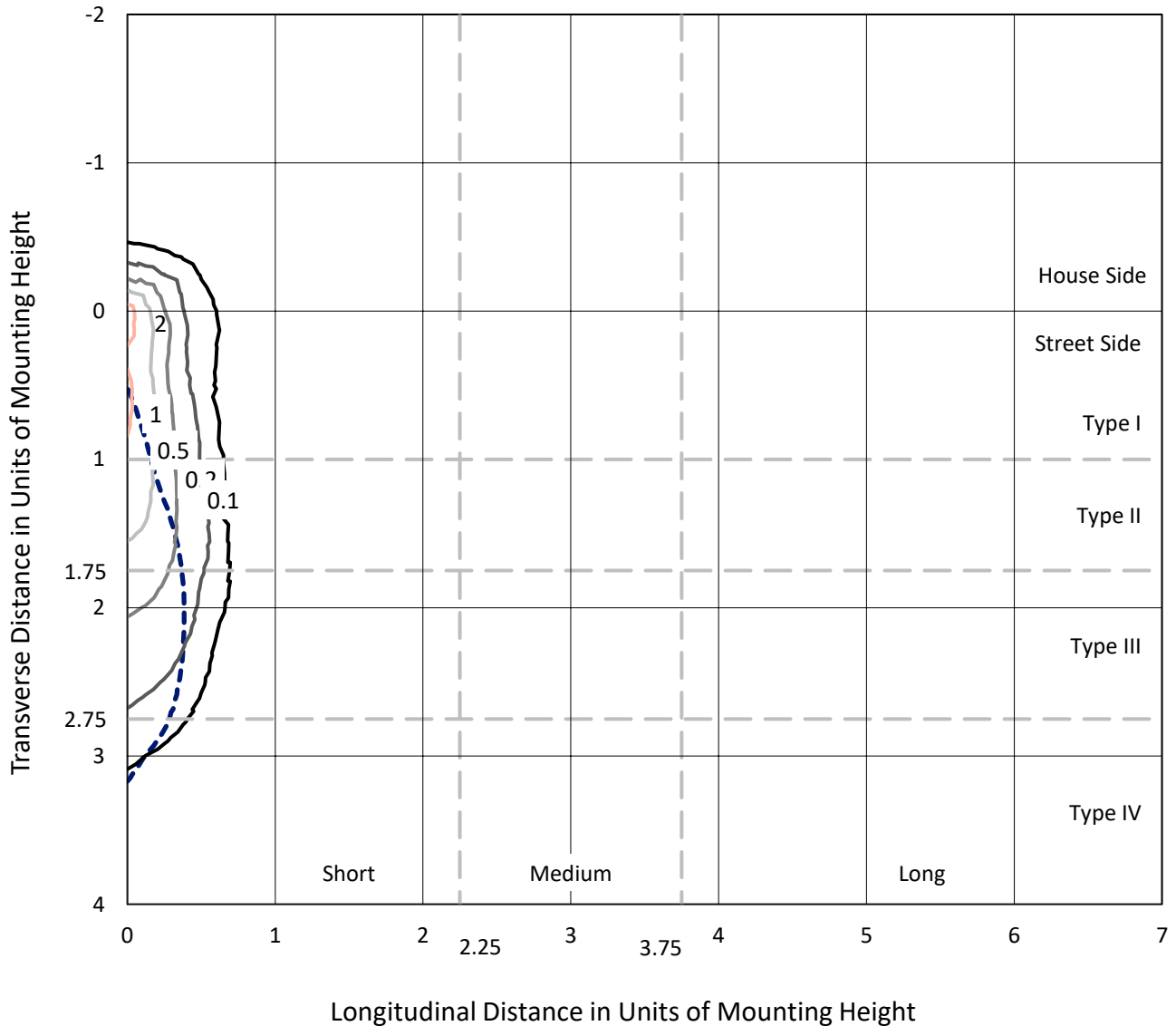
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458585
 CATALOG NUMBER: GLAN-SA1C-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

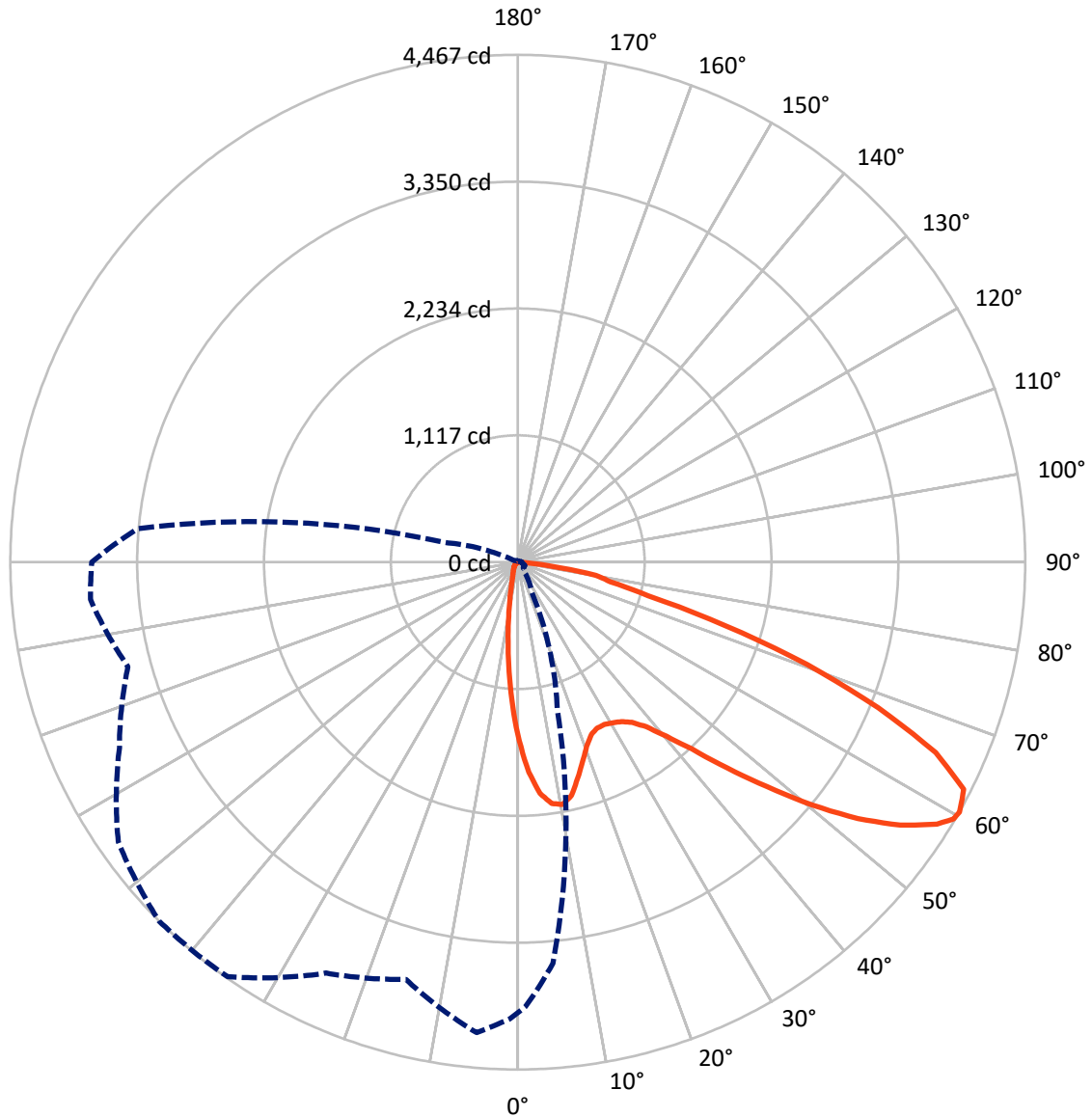
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P458585
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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 587.0 | 0.0 | 587.0 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 4172.0 | 0.0 | 4172.0 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 4759.0 | 0.0 | 4759.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.0 | 2.5 |
| 10°-20° | 232.3 | 4.9 |
| 20°-30° | 340.7 | 7.2 |
| 30°-40° | 506.6 | 10.6 |
| 40°-50° | 737.3 | 15.5 |
| 50°-60° | 1063.3 | 22.3 |
| 60°-70° | 1169.5 | 24.6 |
| 70°-80° | 523.8 | 11.0 |
| 80°-90° | 68.4 | 1.4 |
| 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° | 4759.0 | 100.0 |
| 0°-180° | 4759.0 | 100.0 |



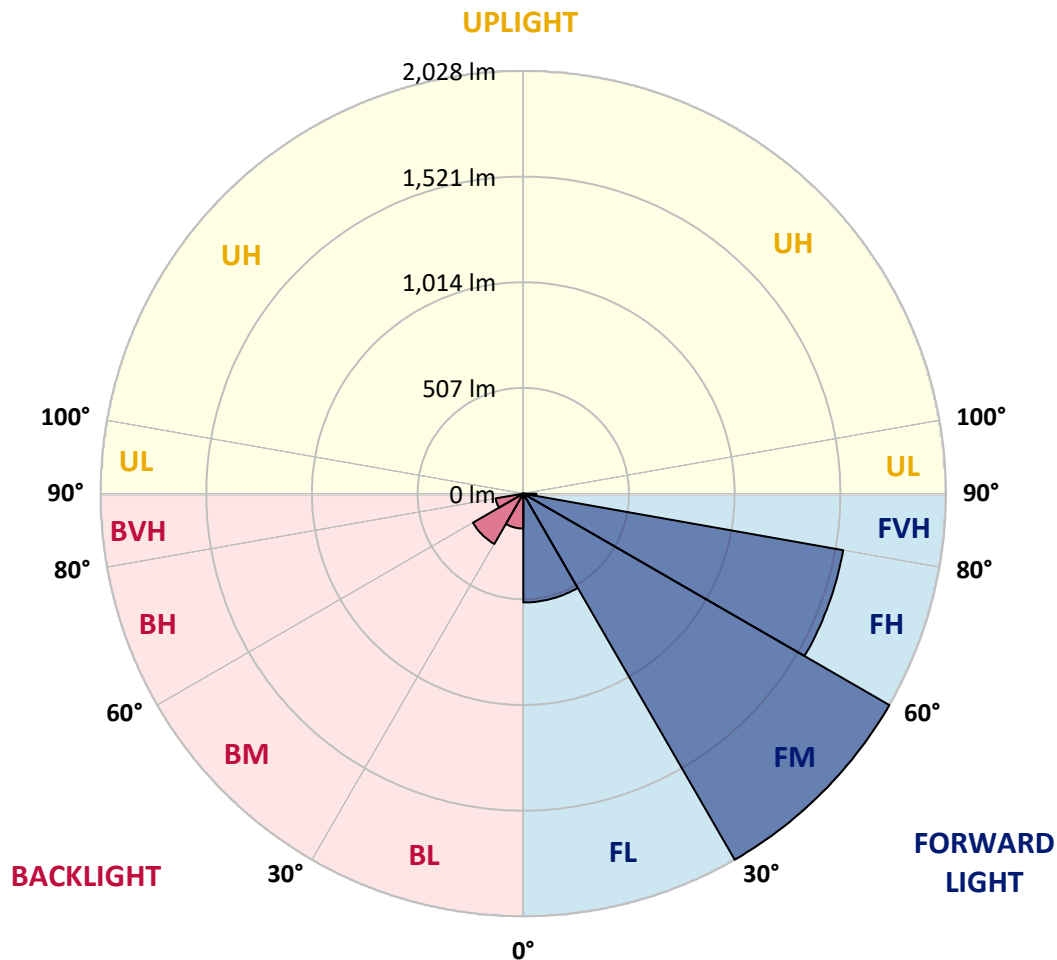
REPORT NUMBER: P458585
 CATALOG NUMBER: GLAN-SA1C-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 522.3 | 11.0 | | | |
| FM (30°-60°) | 2028.4 | 42.6 | | | |
| FH (60°-80°) | 1558.7 | 32.8 | | | G1/1800 |
| FVH (80°-90°) | 62.6 | 1.3 | | | G1/100 |
| BL (0°-30°) | 167.7 | 3.5 | B1/500 | | |
| BM (30°-60°) | 278.8 | 5.9 | B1/1000 | | |
| BH (60°-80°) | 134.6 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P458585
 CATALOG NUMBER: GLAN-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 2.5° | 1729.2 | 1721.6 | 1704.2 | 1651.4 | 1605.5 | 1545.4 | 1484.6 | 1436.9 | 1407.6 | 1353.7 | 1329.1 |
| 5° | 1675.3 | 1678.9 | 1628.6 | 1520.1 | 1399.3 | 1316.8 | 1226.7 | 1155.1 | 1076.2 | 1026.3 | 973.8 |
| 7.5° | 1534.6 | 1527.3 | 1472.7 | 1321.5 | 1174.6 | 1055.2 | 941.3 | 848.7 | 790.4 | 743.8 | 704.7 |
| 10° | 1414.1 | 1408.7 | 1338.9 | 1144.2 | 986.5 | 897.2 | 820.1 | 739.1 | 676.5 | 608.1 | 553.5 |
| 12.5° | 1338.5 | 1326.2 | 1245.9 | 1042.6 | 914.2 | 831.0 | 747.0 | 662.7 | 576.3 | 507.2 | 441.0 |
| 15° | 1313.2 | 1295.5 | 1206.1 | 1007.5 | 867.9 | 762.2 | 656.9 | 560.0 | 460.5 | 384.2 | 334.3 |
| 17.5° | 1359.1 | 1329.8 | 1234.7 | 1001.3 | 812.5 | 672.5 | 543.0 | 416.7 | 313.3 | 255.0 | 224.3 |
| 20° | 1464.4 | 1430.7 | 1307.0 | 995.2 | 751.0 | 571.9 | 412.8 | 294.5 | 216.7 | 184.9 | 167.9 |
| 22.5° | 1620.7 | 1574.4 | 1414.1 | 1005.0 | 694.2 | 473.9 | 298.1 | 208.0 | 172.2 | 152.3 | 140.4 |
| 25° | 1808.4 | 1769.7 | 1549.8 | 1039.7 | 649.4 | 396.8 | 230.4 | 170.0 | 145.1 | 132.8 | 123.7 |
| 27.5° | 2014.3 | 1952.4 | 1725.2 | 1081.3 | 608.5 | 337.2 | 202.2 | 151.9 | 129.1 | 117.9 | 113.2 |
| 30° | 2160.8 | 2112.7 | 1872.1 | 1110.2 | 557.5 | 292.3 | 184.9 | 149.8 | 129.5 | 116.1 | 107.4 |
| 32.5° | 2305.5 | 2244.0 | 1995.1 | 1123.6 | 520.2 | 261.2 | 159.9 | 130.6 | 113.6 | 106.7 | 98.0 |
| 35° | 2460.3 | 2395.9 | 2117.7 | 1116.4 | 492.4 | 240.6 | 145.1 | 116.5 | 97.3 | 85.7 | 77.1 |
| 37.5° | 2616.9 | 2548.9 | 2239.6 | 1090.3 | 475.0 | 232.2 | 133.5 | 110.7 | 91.9 | 79.9 | 70.5 |
| 40° | 2802.9 | 2712.1 | 2353.9 | 1069.0 | 456.9 | 227.9 | 125.9 | 107.1 | 87.9 | 75.2 | 65.8 |
| 42.5° | 2954.8 | 2868.4 | 2462.1 | 1057.8 | 444.6 | 217.8 | 125.9 | 104.2 | 85.4 | 71.3 | 61.5 |
| 45° | 3098.8 | 3009.1 | 2579.0 | 1066.8 | 439.5 | 205.1 | 127.3 | 103.8 | 83.6 | 68.4 | 58.6 |
| 47.5° | 3219.3 | 3141.5 | 2699.1 | 1100.8 | 433.0 | 191.4 | 119.7 | 108.9 | 82.5 | 65.8 | 55.7 |
| 50° | 3361.4 | 3286.2 | 2857.9 | 1169.6 | 421.4 | 177.6 | 110.3 | 117.2 | 82.1 | 63.7 | 53.2 |
| 52.5° | 3561.9 | 3480.5 | 3077.1 | 1247.7 | 403.0 | 156.6 | 101.7 | 116.1 | 80.7 | 60.1 | 50.6 |
| 55° | 3806.8 | 3740.9 | 3331.1 | 1341.4 | 377.7 | 133.1 | 87.9 | 103.1 | 76.3 | 53.9 | 46.3 |
| 57.5° | 3963.8 | 3907.7 | 3521.3 | 1381.9 | 339.0 | 108.9 | 77.4 | 86.5 | 69.8 | 48.1 | 41.2 |
| 59° | 3982.2 | 3931.6 | 3561.1 | 1368.5 | 313.6 | 99.5 | 72.4 | 74.2 | 68.0 | 44.9 | 38.3 |
| 60° | 3966.7 | 3914.2 | 3545.2 | 1342.5 | 290.1 | 93.0 | 68.0 | 65.8 | 68.4 | 43.0 | 36.2 |
| 62.5° | 3866.8 | 3777.1 | 3390.7 | 1210.4 | 253.6 | 85.4 | 60.4 | 53.9 | 60.4 | 38.7 | 32.2 |
| 65° | 3674.0 | 3539.4 | 3085.1 | 1024.5 | 239.1 | 81.0 | 51.4 | 45.2 | 45.9 | 34.0 | 27.9 |
| 67.5° | 3337.2 | 3167.5 | 2678.1 | 832.4 | 233.0 | 81.4 | 43.4 | 40.5 | 35.5 | 28.9 | 24.6 |
| 70° | 2804.7 | 2635.4 | 2148.8 | 684.8 | 230.1 | 81.4 | 36.9 | 34.7 | 29.7 | 24.2 | 21.3 |
| 72.5° | 1987.5 | 1805.2 | 1449.6 | 537.9 | 207.3 | 81.0 | 31.5 | 31.5 | 24.2 | 20.3 | 17.4 |
| 75° | 1122.9 | 1124.3 | 911.3 | 380.6 | 172.2 | 66.9 | 25.3 | 25.0 | 17.7 | 15.6 | 13.0 |
| 77.5° | 654.4 | 642.8 | 614.3 | 163.5 | 79.9 | 30.4 | 17.7 | 15.2 | 12.3 | 11.2 | 9.4 |
| 80° | 336.4 | 276.7 | 269.5 | 59.3 | 28.6 | 19.2 | 12.3 | 8.7 | 8.0 | 7.2 | 6.5 |
| 82.5° | 99.5 | 99.8 | 89.0 | 23.9 | 15.9 | 12.7 | 6.1 | 4.7 | 4.3 | 4.0 | 4.0 |
| 85° | 6.9 | 4.3 | 5.1 | 7.2 | 9.8 | 5.1 | 0.4 | 1.1 | 1.1 | 1.4 | 1.8 |
| 87.5° | 0.7 | 0.4 | 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 |



REPORT NUMBER: P458585
 CATALOG NUMBER: GLAN-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 2.5° | 1302.0 | 1317.9 | 1288.2 | 1288.9 | 1264.3 | 1272.3 | 1243.4 | 1252.8 | 1235.8 | 1248.8 | 1287.1 |
| 5° | 979.6 | 983.3 | 959.4 | 951.8 | 955.4 | 970.2 | 976.0 | 949.6 | 960.8 | 938.8 | 937.3 |
| 7.5° | 690.2 | 694.6 | 680.8 | 679.0 | 705.1 | 698.9 | 710.1 | 683.0 | 657.3 | 668.5 | 647.9 |
| 10° | 536.1 | 518.0 | 489.8 | 481.9 | 476.8 | 480.1 | 480.1 | 455.5 | 451.8 | 442.1 | 456.9 |
| 12.5° | 423.3 | 401.2 | 374.4 | 338.2 | 329.2 | 328.5 | 315.1 | 293.4 | 286.5 | 278.2 | 290.5 |
| 15° | 307.5 | 298.4 | 276.0 | 255.8 | 235.1 | 231.2 | 209.5 | 191.7 | 168.2 | 165.0 | 163.9 |
| 17.5° | 216.3 | 202.9 | 202.6 | 191.0 | 179.1 | 171.1 | 150.9 | 130.6 | 121.6 | 120.5 | 120.5 |
| 20° | 162.1 | 157.4 | 149.8 | 148.3 | 144.7 | 135.7 | 117.6 | 106.7 | 102.4 | 102.7 | 104.2 |
| 22.5° | 136.4 | 133.1 | 126.3 | 123.0 | 121.6 | 113.6 | 100.2 | 93.0 | 90.8 | 90.8 | 91.2 |
| 25° | 121.9 | 119.0 | 111.4 | 106.4 | 104.5 | 98.8 | 88.3 | 82.8 | 81.0 | 81.0 | 81.0 |
| 27.5° | 111.1 | 107.4 | 99.5 | 95.1 | 91.9 | 85.4 | 78.9 | 73.4 | 71.6 | 71.6 | 72.0 |
| 30° | 103.5 | 99.5 | 92.2 | 86.5 | 81.4 | 75.6 | 70.2 | 65.5 | 63.3 | 62.9 | 63.3 |
| 32.5° | 93.3 | 89.7 | 82.5 | 78.9 | 73.1 | 66.2 | 61.9 | 57.5 | 55.3 | 55.7 | 55.3 |
| 35° | 72.7 | 71.6 | 66.6 | 67.6 | 64.4 | 58.6 | 54.6 | 49.9 | 47.4 | 47.0 | 47.8 |
| 37.5° | 66.2 | 61.9 | 56.1 | 56.4 | 55.3 | 53.2 | 46.7 | 41.6 | 39.8 | 39.8 | 40.2 |
| 40° | 61.1 | 56.8 | 50.3 | 47.0 | 47.4 | 47.4 | 40.5 | 35.1 | 33.3 | 32.9 | 33.6 |
| 42.5° | 56.8 | 52.5 | 45.2 | 39.8 | 38.3 | 40.2 | 34.4 | 28.9 | 27.1 | 26.4 | 27.1 |
| 45° | 53.9 | 49.2 | 40.9 | 34.7 | 30.4 | 32.6 | 28.2 | 23.9 | 21.7 | 21.7 | 21.3 |
| 47.5° | 51.0 | 46.7 | 37.6 | 30.0 | 25.3 | 24.2 | 23.2 | 19.2 | 17.0 | 16.6 | 17.0 |
| 50° | 48.5 | 44.1 | 34.0 | 26.0 | 21.3 | 18.8 | 18.8 | 15.2 | 13.7 | 13.0 | 13.4 |
| 52.5° | 45.9 | 41.2 | 30.7 | 23.2 | 18.4 | 15.2 | 13.4 | 12.3 | 11.2 | 10.9 | 11.2 |
| 55° | 42.3 | 37.6 | 27.5 | 19.9 | 15.9 | 12.7 | 10.5 | 10.1 | 9.4 | 8.7 | 9.4 |
| 57.5° | 38.0 | 33.6 | 24.2 | 17.0 | 12.7 | 9.8 | 8.7 | 8.3 | 7.6 | 7.2 | 7.2 |
| 59° | 35.5 | 31.5 | 22.4 | 14.8 | 11.2 | 8.7 | 8.0 | 7.6 | 6.9 | 6.1 | 6.5 |
| 60° | 34.0 | 30.7 | 21.3 | 13.7 | 10.1 | 8.0 | 7.2 | 6.9 | 6.1 | 5.8 | 6.1 |
| 62.5° | 30.0 | 27.5 | 18.8 | 11.2 | 8.0 | 5.8 | 5.1 | 5.4 | 5.1 | 4.7 | 5.1 |
| 65° | 26.4 | 24.2 | 15.9 | 8.7 | 6.1 | 4.0 | 3.6 | 4.7 | 4.3 | 4.0 | 4.3 |
| 67.5° | 23.5 | 21.0 | 13.4 | 6.5 | 4.3 | 2.2 | 2.5 | 4.0 | 4.0 | 3.6 | 4.0 |
| 70° | 20.3 | 18.1 | 10.9 | 4.7 | 2.2 | 1.1 | 1.8 | 2.9 | 3.6 | 3.3 | 3.6 |
| 72.5° | 16.6 | 14.1 | 8.3 | 3.3 | 1.1 | 0.0 | 1.1 | 2.5 | 3.6 | 3.3 | 3.6 |
| 75° | 13.0 | 10.5 | 6.1 | 1.8 | 0.0 | 0.0 | 0.4 | 2.2 | 3.6 | 3.3 | 3.6 |
| 77.5° | 9.4 | 7.6 | 3.6 | 0.4 | 0.0 | 0.0 | 0.4 | 2.2 | 3.6 | 3.3 | 3.6 |
| 80° | 6.1 | 5.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.4 | 2.2 | 3.6 | 3.6 | 4.0 |
| 82.5° | 4.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.9 | 4.0 | 4.3 | 4.3 |
| 85° | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 3.6 | 4.7 | 4.7 | 4.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.5 | 4.3 | 5.4 | 5.4 | 5.4 |
| 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: P458585

CATALOG NUMBER: GLAN-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 2.5° | 1293.6 | 1316.4 | 1348.6 | 1398.2 | 1438.3 | 1501.7 | 1550.1 | 1616.3 | 1683.3 | 1703.5 | 1735.0 |
| 5° | 952.1 | 981.4 | 1054.5 | 1121.1 | 1163.0 | 1296.9 | 1381.5 | 1515.0 | 1634.8 | 1692.3 | 1754.9 |
| 7.5° | 661.3 | 696.0 | 751.7 | 844.7 | 933.0 | 1041.9 | 1178.6 | 1331.3 | 1506.7 | 1588.8 | 1677.1 |
| 10° | 464.1 | 507.5 | 586.0 | 662.4 | 773.4 | 876.9 | 1011.8 | 1180.4 | 1374.0 | 1470.9 | 1581.6 |
| 12.5° | 293.0 | 331.7 | 435.6 | 521.3 | 659.8 | 779.9 | 904.4 | 1057.1 | 1281.3 | 1380.8 | 1496.9 |
| 15° | 167.5 | 200.1 | 248.5 | 358.5 | 512.2 | 671.1 | 826.3 | 1003.5 | 1234.0 | 1356.6 | 1482.1 |
| 17.5° | 124.8 | 133.5 | 155.2 | 217.4 | 357.4 | 543.0 | 754.3 | 987.2 | 1266.1 | 1410.1 | 1553.4 |
| 20° | 104.9 | 110.7 | 120.8 | 145.4 | 227.9 | 418.2 | 684.1 | 990.1 | 1370.3 | 1551.2 | 1687.2 |
| 22.5° | 94.1 | 97.7 | 106.0 | 121.9 | 155.6 | 304.6 | 602.0 | 1007.1 | 1496.6 | 1724.5 | 1881.5 |
| 25° | 82.5 | 87.2 | 94.4 | 108.2 | 129.5 | 211.3 | 520.9 | 1045.1 | 1673.5 | 1944.4 | 2092.0 |
| 27.5° | 73.4 | 77.8 | 85.0 | 97.7 | 113.6 | 161.3 | 426.5 | 1077.7 | 1860.2 | 2165.8 | 2286.7 |
| 30° | 64.4 | 68.7 | 76.0 | 86.1 | 100.6 | 130.6 | 324.9 | 1096.8 | 2041.4 | 2331.9 | 2424.9 |
| 32.5° | 56.8 | 60.4 | 67.3 | 76.3 | 88.3 | 110.7 | 256.1 | 1076.9 | 2179.9 | 2482.7 | 2545.0 |
| 35° | 49.2 | 53.5 | 59.3 | 67.6 | 78.1 | 94.4 | 213.1 | 1008.2 | 2299.0 | 2637.9 | 2660.4 |
| 37.5° | 41.2 | 46.3 | 52.5 | 60.1 | 68.4 | 86.8 | 171.1 | 932.2 | 2426.3 | 2831.5 | 2794.6 |
| 40° | 34.7 | 39.4 | 45.2 | 53.5 | 61.1 | 79.6 | 131.7 | 851.2 | 2563.8 | 3013.1 | 2941.1 |
| 42.5° | 28.2 | 33.3 | 40.2 | 47.8 | 60.4 | 69.5 | 102.0 | 767.3 | 2687.1 | 3171.2 | 3073.5 |
| 45° | 22.4 | 26.8 | 34.0 | 43.8 | 60.1 | 59.7 | 78.9 | 684.4 | 2780.1 | 3284.0 | 3172.2 |
| 47.5° | 17.7 | 21.3 | 28.6 | 42.7 | 55.3 | 50.6 | 63.3 | 633.1 | 2877.8 | 3385.7 | 3247.9 |
| 50° | 14.1 | 17.7 | 24.6 | 44.5 | 48.5 | 43.4 | 53.2 | 641.4 | 2972.2 | 3437.4 | 3279.0 |
| 52.5° | 11.9 | 15.6 | 21.3 | 35.1 | 37.3 | 38.0 | 46.7 | 679.7 | 3094.1 | 3492.8 | 3340.8 |
| 55° | 10.5 | 13.7 | 18.1 | 24.6 | 28.9 | 34.0 | 42.7 | 707.6 | 3257.3 | 3611.4 | 3477.2 |
| 57.5° | 8.3 | 11.9 | 16.3 | 21.0 | 23.9 | 29.7 | 39.4 | 709.8 | 3404.9 | 3763.7 | 3658.4 |
| 59° | 7.6 | 10.9 | 15.2 | 19.9 | 21.3 | 26.8 | 37.3 | 691.3 | 3410.3 | 3786.5 | 3741.6 |
| 60° | 6.9 | 10.5 | 14.5 | 18.4 | 20.3 | 25.3 | 35.5 | 670.0 | 3361.1 | 3750.3 | 3776.0 |
| 62.5° | 5.8 | 9.0 | 12.7 | 14.8 | 17.4 | 21.0 | 30.7 | 592.6 | 3122.7 | 3586.5 | 3712.3 |
| 65° | 5.1 | 8.0 | 10.9 | 12.3 | 14.5 | 18.1 | 27.1 | 474.3 | 2859.3 | 3364.3 | 3530.0 |
| 67.5° | 4.7 | 7.2 | 9.4 | 10.5 | 12.7 | 16.6 | 24.2 | 335.0 | 2518.2 | 3082.5 | 3256.2 |
| 70° | 4.3 | 6.9 | 8.3 | 9.8 | 11.2 | 14.1 | 20.6 | 195.3 | 1939.7 | 2588.4 | 2771.8 |
| 72.5° | 4.3 | 6.5 | 7.2 | 8.3 | 9.8 | 12.7 | 19.2 | 105.6 | 1326.2 | 1974.5 | 2211.4 |
| 75° | 4.3 | 6.1 | 6.5 | 7.2 | 8.7 | 11.6 | 17.0 | 55.3 | 857.4 | 1371.8 | 1693.0 |
| 77.5° | 4.3 | 5.8 | 6.5 | 6.9 | 8.3 | 10.1 | 14.8 | 34.7 | 571.2 | 960.8 | 1144.2 |
| 80° | 4.7 | 5.8 | 6.1 | 6.9 | 8.0 | 9.4 | 12.3 | 23.2 | 335.7 | 578.1 | 696.4 |
| 82.5° | 5.1 | 5.8 | 6.5 | 7.2 | 8.3 | 9.0 | 10.9 | 14.5 | 154.8 | 382.4 | 432.7 |
| 85° | 5.4 | 6.1 | 6.9 | 7.6 | 8.7 | 9.0 | 10.1 | 10.5 | 25.3 | 172.6 | 233.3 |
| 87.5° | 5.8 | 6.5 | 7.2 | 8.0 | 9.4 | 9.4 | 9.4 | 9.4 | 8.7 | 18.4 | 47.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 0° | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 | 1572.9 |
| 2.5° | 1774.8 | 1815.7 | 1844.2 | 1851.5 | 1830.8 | 1821.4 | 1795.4 | 1754.9 | 1730.3 | 1729.2 |
| 5° | 1870.3 | 1966.1 | 2032.7 | 2043.9 | 2004.1 | 1936.8 | 1856.9 | 1753.8 | 1693.4 | 1675.3 |
| 7.5° | 1854.0 | 2021.9 | 2128.9 | 2144.5 | 2077.6 | 1949.1 | 1794.3 | 1628.3 | 1562.4 | 1534.6 |
| 10° | 1787.1 | 1991.8 | 2144.9 | 2169.5 | 2080.1 | 1899.2 | 1702.4 | 1517.2 | 1435.5 | 1414.1 |
| 12.5° | 1729.9 | 1936.8 | 2072.9 | 2106.9 | 2039.2 | 1858.7 | 1647.4 | 1445.9 | 1358.4 | 1338.5 |
| 15° | 1705.0 | 1871.7 | 1954.9 | 1972.3 | 1961.1 | 1833.4 | 1641.7 | 1435.1 | 1334.9 | 1313.2 |
| 17.5° | 1729.9 | 1816.4 | 1826.9 | 1844.6 | 1869.6 | 1830.8 | 1697.4 | 1494.1 | 1385.9 | 1359.1 |
| 20° | 1795.4 | 1768.3 | 1724.9 | 1732.5 | 1789.6 | 1841.3 | 1796.5 | 1624.6 | 1493.0 | 1464.4 |
| 22.5° | 1906.8 | 1756.3 | 1657.9 | 1651.4 | 1723.8 | 1876.4 | 1941.9 | 1801.5 | 1648.9 | 1620.7 |
| 25° | 2043.6 | 1786.4 | 1633.3 | 1619.2 | 1698.1 | 1927.8 | 2100.0 | 2018.2 | 1851.5 | 1808.4 |
| 27.5° | 2192.6 | 1848.6 | 1633.3 | 1619.6 | 1695.9 | 1973.4 | 2235.3 | 2210.0 | 2061.3 | 2014.3 |
| 30° | 2274.4 | 1899.9 | 1656.8 | 1641.3 | 1722.7 | 1999.8 | 2307.6 | 2380.4 | 2219.0 | 2160.8 |
| 32.5° | 2347.4 | 1971.2 | 1702.8 | 1673.5 | 1778.8 | 2038.9 | 2372.4 | 2525.1 | 2344.5 | 2305.5 |
| 35° | 2414.7 | 2047.5 | 1766.1 | 1732.1 | 1852.6 | 2092.4 | 2444.0 | 2677.0 | 2519.3 | 2460.3 |
| 37.5° | 2488.9 | 2136.2 | 1864.9 | 1835.9 | 1975.9 | 2196.6 | 2529.0 | 2876.7 | 2691.1 | 2616.9 |
| 40° | 2569.6 | 2238.9 | 2027.3 | 2015.0 | 2172.0 | 2314.5 | 2636.5 | 3089.8 | 2887.2 | 2802.9 |
| 42.5° | 2651.7 | 2357.2 | 2226.2 | 2246.5 | 2394.1 | 2479.8 | 2746.8 | 3253.6 | 3047.8 | 2954.8 |
| 45° | 2726.2 | 2508.4 | 2484.9 | 2585.1 | 2653.1 | 2641.2 | 2828.6 | 3369.0 | 3187.8 | 3098.8 |
| 47.5° | 2820.3 | 2728.7 | 2797.8 | 2952.3 | 2954.1 | 2816.6 | 2890.4 | 3463.5 | 3308.3 | 3219.3 |
| 50° | 2925.5 | 2988.8 | 3201.9 | 3359.3 | 3316.9 | 2989.2 | 2962.8 | 3575.2 | 3432.7 | 3361.4 |
| 52.5° | 3047.4 | 3280.0 | 3575.2 | 3750.0 | 3651.2 | 3177.3 | 3083.3 | 3696.1 | 3630.2 | 3561.9 |
| 55° | 3189.2 | 3478.7 | 3947.5 | 4086.8 | 3987.3 | 3411.0 | 3266.3 | 3859.9 | 3853.4 | 3806.8 |
| 57.5° | 3349.5 | 3688.5 | 4163.1 | 4351.6 | 4262.9 | 3685.2 | 3522.1 | 4014.4 | 3989.8 | 3963.8 |
| 59° | 3476.1 | 3796.3 | 4258.2 | 4453.6 | 4400.0 | 3877.3 | 3693.9 | 4110.6 | 4021.3 | 3982.2 |
| 60° | 3552.8 | 3869.3 | 4293.3 | 4467.3 | 4455.0 | 3991.6 | 3802.8 | 4157.7 | 4020.9 | 3966.7 |
| 62.5° | 3780.4 | 3997.0 | 4279.9 | 4406.2 | 4454.3 | 4210.8 | 4122.2 | 4209.4 | 3946.4 | 3866.8 |
| 65° | 3861.4 | 3954.7 | 4058.2 | 4042.6 | 4083.9 | 4199.6 | 4326.2 | 4152.6 | 3787.2 | 3674.0 |
| 67.5° | 3703.7 | 3490.6 | 3527.1 | 3423.3 | 3403.0 | 3733.7 | 4243.4 | 3874.8 | 3475.8 | 3337.2 |
| 70° | 3122.0 | 2674.1 | 2655.7 | 2703.4 | 2572.5 | 3022.8 | 3810.4 | 3339.7 | 2961.7 | 2804.7 |
| 72.5° | 2457.4 | 1889.8 | 1734.3 | 1910.1 | 1906.1 | 2306.2 | 3165.4 | 2369.9 | 2000.9 | 1987.5 |
| 75° | 1932.5 | 1315.7 | 1154.7 | 1183.3 | 1238.3 | 1669.5 | 2521.1 | 1504.9 | 1232.1 | 1122.9 |
| 77.5° | 1297.3 | 932.2 | 869.7 | 834.6 | 893.9 | 1071.9 | 1595.0 | 816.1 | 691.0 | 654.4 |
| 80° | 747.8 | 677.2 | 769.1 | 698.2 | 730.0 | 675.4 | 793.3 | 374.4 | 310.7 | 336.4 |
| 82.5° | 486.6 | 385.6 | 411.0 | 305.3 | 417.5 | 421.1 | 254.7 | 110.7 | 93.7 | 99.5 |
| 85° | 304.2 | 180.9 | 101.7 | 72.4 | 144.0 | 264.8 | 79.6 | 6.9 | 8.0 | 6.9 |
| 87.5° | 78.9 | 30.0 | 12.7 | 18.8 | 23.2 | 20.6 | 18.4 | 1.1 | 0.4 | 0.7 |
| 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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