

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: P653280

Luminaire Tested: **GLAN-SA3D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653280
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-SA3D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13948 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

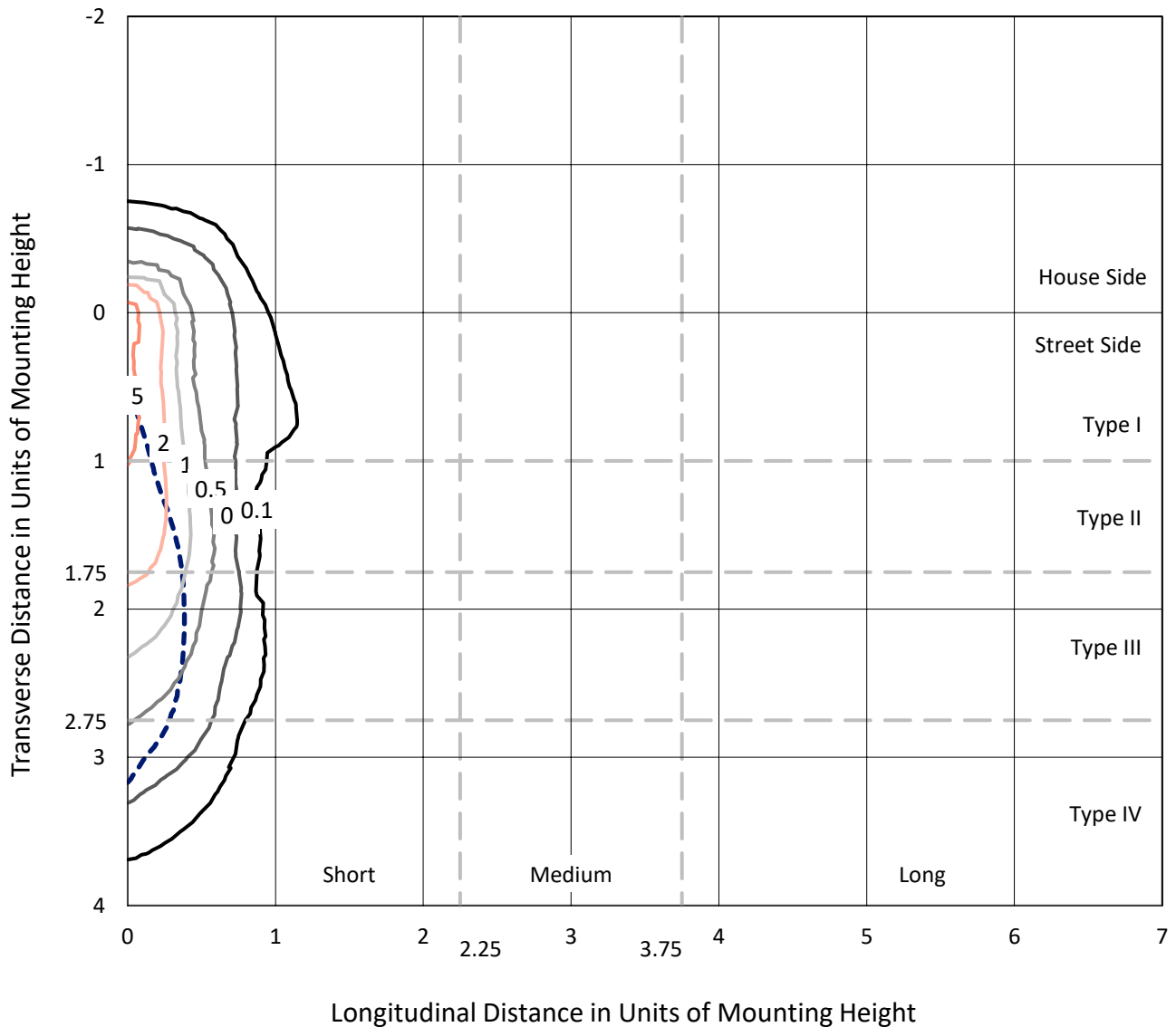
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

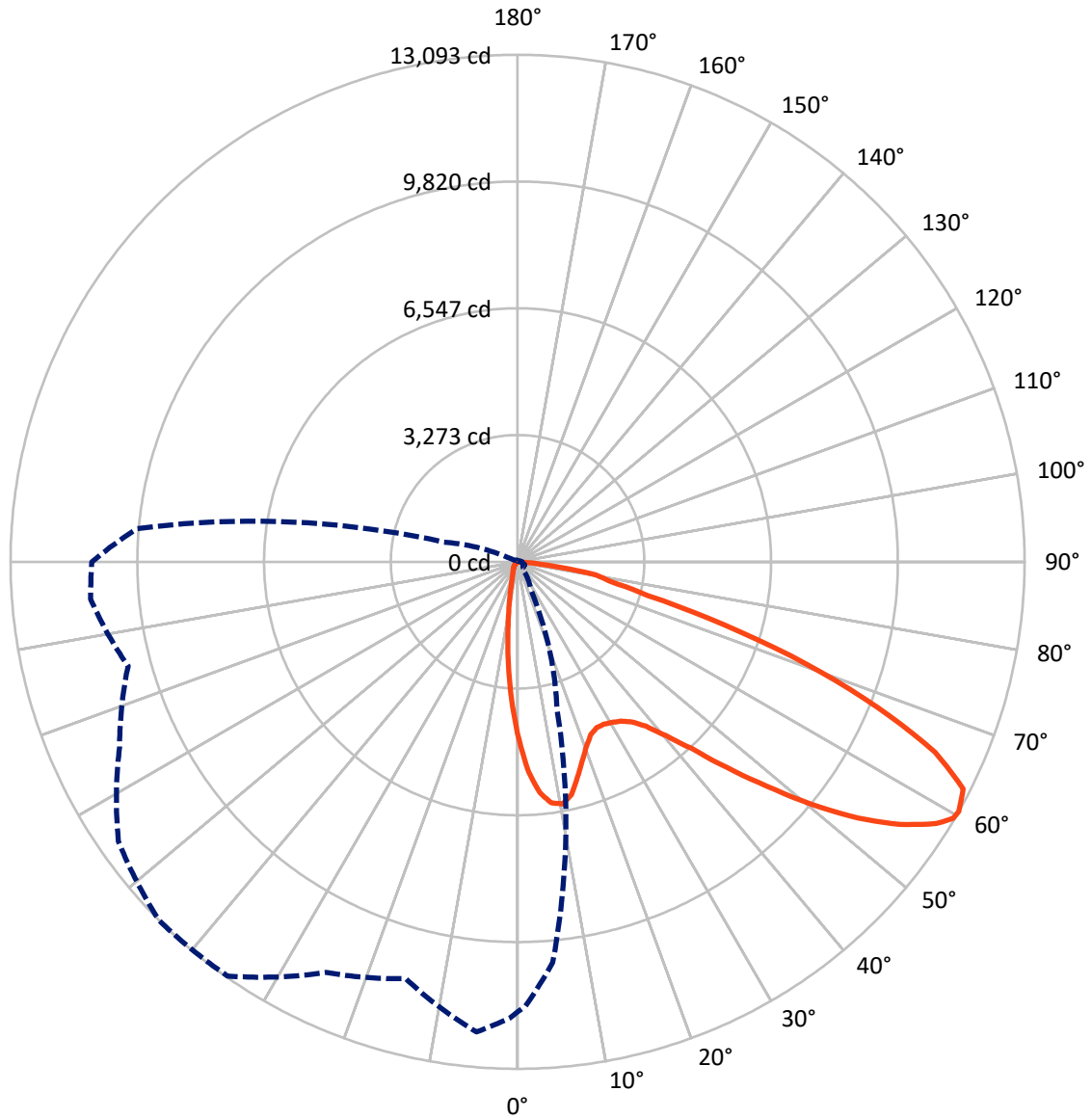
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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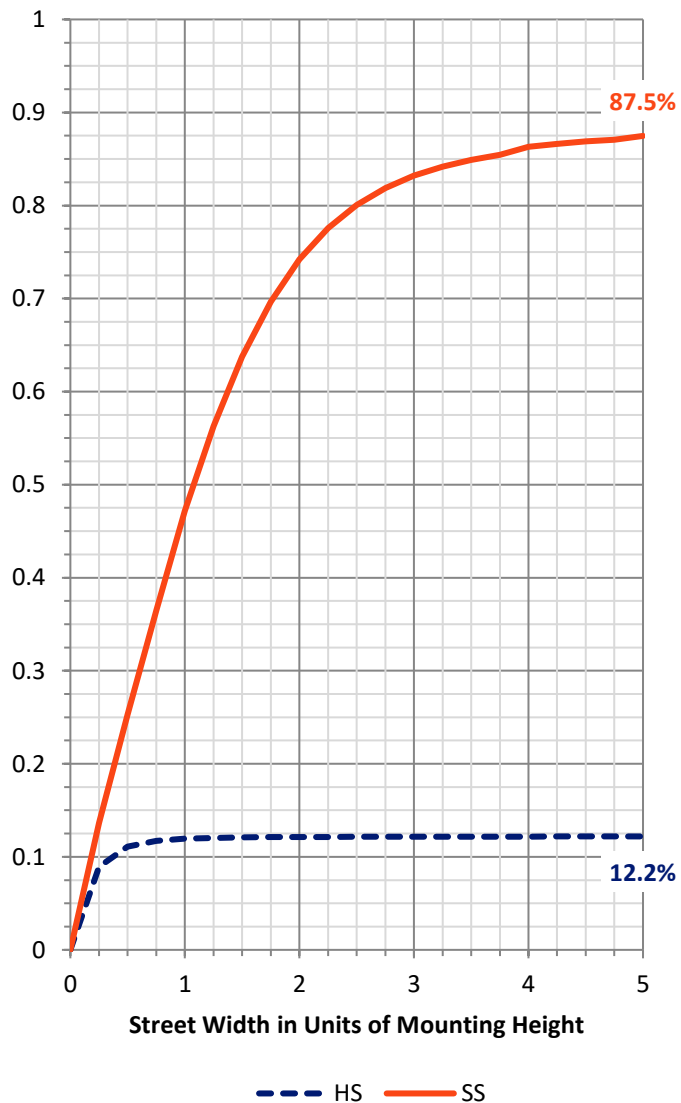
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1720.4 | 0.0 | 1720.4 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 12227.6 | 0.0 | 12227.6 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 13948.0 | 0.0 | 13948.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.9 | 2.5 |
| 10°-20° | 681.0 | 4.9 |
| 20°-30° | 998.5 | 7.2 |
| 30°-40° | 1484.9 | 10.6 |
| 40°-50° | 2161.0 | 15.5 |
| 50°-60° | 3116.3 | 22.3 |
| 60°-70° | 3427.6 | 24.6 |
| 70°-80° | 1535.3 | 11.0 |
| 80°-90° | 200.6 | 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° | 13948.0 | 100.0 |
| 0°-180° | 13948.0 | 100.0 |

Coefficient of Utilization

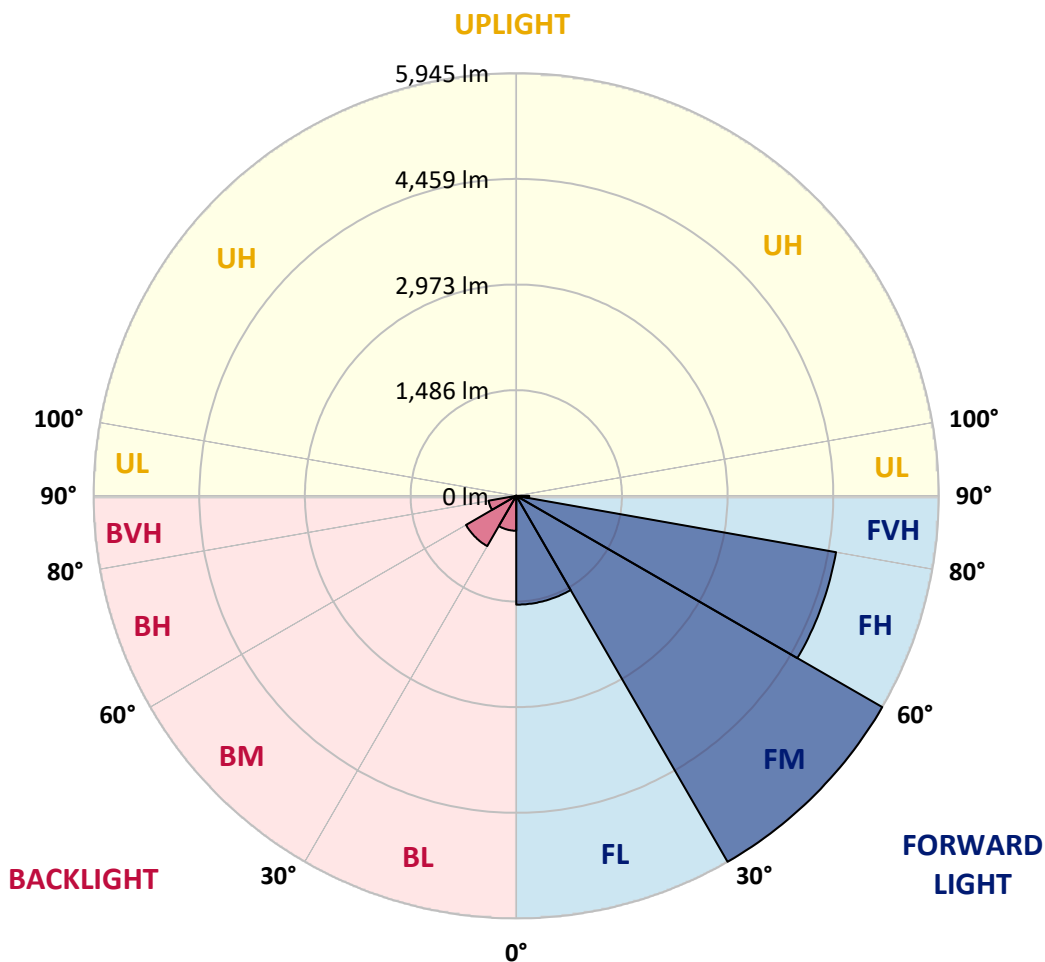


REPORT NUMBER: P653280
 CATALOG NUMBER: GLAN-SA3D-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1530.7 | 11.0 | | | |
| FM (30°-60°) | 5945.1 | 42.6 | | | |
| FH (60°-80°) | 4568.4 | 32.8 | | | G2/5000 |
| FVH (80°-90°) | 183.5 | 1.3 | | | G2/225 |
| BL (0°-30°) | 491.6 | 3.5 | B1/500 | | |
| BM (30°-60°) | 817.1 | 5.9 | B1/1000 | | |
| BH (60°-80°) | 394.5 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P653280

CATALOG NUMBER: GLAN-SA3D-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 |
| 2.5° | 5068.0 | 5045.7 | 4994.9 | 4840.1 | 4705.4 | 4529.5 | 4351.3 | 4211.4 | 4125.4 | 3967.5 | 3895.4 |
| 5° | 4910.1 | 4920.7 | 4773.3 | 4455.2 | 4101.1 | 3859.3 | 3595.4 | 3385.4 | 3154.3 | 3007.9 | 2854.2 |
| 7.5° | 4497.6 | 4476.4 | 4316.3 | 3873.1 | 3442.6 | 3092.8 | 2758.8 | 2487.3 | 2316.7 | 2179.9 | 2065.4 |
| 10° | 4144.5 | 4128.6 | 3924.0 | 3353.6 | 2891.4 | 2629.5 | 2403.6 | 2166.1 | 1982.7 | 1782.3 | 1622.2 |
| 12.5° | 3922.9 | 3886.9 | 3651.5 | 3055.7 | 2679.3 | 2435.5 | 2189.5 | 1942.4 | 1689.0 | 1486.5 | 1292.4 |
| 15° | 3848.8 | 3796.8 | 3534.9 | 2952.8 | 2543.6 | 2233.9 | 1925.5 | 1641.3 | 1349.7 | 1126.0 | 979.7 |
| 17.5° | 3983.4 | 3897.5 | 3618.7 | 2934.8 | 2381.4 | 1971.1 | 1591.4 | 1221.4 | 918.2 | 747.5 | 657.3 |
| 20° | 4292.0 | 4193.3 | 3830.8 | 2916.8 | 2201.1 | 1676.3 | 1209.8 | 863.0 | 635.1 | 541.8 | 492.0 |
| 22.5° | 4750.0 | 4614.2 | 4144.5 | 2945.4 | 2034.6 | 1388.9 | 873.6 | 609.6 | 504.7 | 446.4 | 411.4 |
| 25° | 5300.2 | 5186.8 | 4542.2 | 3047.2 | 1903.2 | 1163.1 | 675.4 | 498.3 | 425.1 | 389.1 | 362.6 |
| 27.5° | 5903.5 | 5722.2 | 5056.3 | 3169.1 | 1783.3 | 988.2 | 592.7 | 445.3 | 378.5 | 345.7 | 331.9 |
| 30° | 6332.9 | 6191.9 | 5486.9 | 3253.9 | 1633.9 | 856.7 | 541.8 | 438.9 | 379.5 | 340.4 | 314.9 |
| 32.5° | 6757.0 | 6576.8 | 5847.3 | 3293.2 | 1524.6 | 765.5 | 468.6 | 382.7 | 333.0 | 312.8 | 287.4 |
| 35° | 7210.8 | 7022.1 | 6206.7 | 3272.0 | 1443.0 | 705.1 | 425.1 | 341.4 | 285.2 | 251.3 | 225.8 |
| 37.5° | 7669.9 | 7470.6 | 6564.1 | 3195.6 | 1392.1 | 680.7 | 391.2 | 324.5 | 269.3 | 234.3 | 206.7 |
| 40° | 8214.9 | 7948.8 | 6899.1 | 3133.1 | 1339.1 | 667.9 | 368.9 | 313.9 | 257.7 | 220.5 | 192.9 |
| 42.5° | 8660.2 | 8406.8 | 7216.1 | 3100.2 | 1303.0 | 638.2 | 368.9 | 305.4 | 250.2 | 208.9 | 180.2 |
| 45° | 9082.2 | 8819.2 | 7558.6 | 3126.7 | 1288.2 | 601.1 | 373.2 | 304.3 | 244.9 | 200.4 | 171.7 |
| 47.5° | 9435.3 | 9207.3 | 7910.6 | 3226.3 | 1269.2 | 560.9 | 350.9 | 319.2 | 241.7 | 192.9 | 163.2 |
| 50° | 9851.9 | 9631.4 | 8376.0 | 3427.8 | 1235.2 | 520.6 | 323.4 | 343.5 | 240.7 | 186.6 | 155.8 |
| 52.5° | 10439.3 | 10200.7 | 9018.5 | 3656.8 | 1181.1 | 459.1 | 298.0 | 340.4 | 236.4 | 176.0 | 148.4 |
| 55° | 11157.1 | 10964.1 | 9762.8 | 3931.4 | 1106.9 | 390.1 | 257.7 | 302.2 | 223.7 | 157.9 | 135.7 |
| 57.5° | 11617.2 | 11452.9 | 10320.6 | 4050.2 | 993.5 | 319.2 | 226.9 | 253.4 | 204.6 | 141.0 | 120.9 |
| 59° | 11671.3 | 11522.9 | 10437.2 | 4011.0 | 919.2 | 291.6 | 212.0 | 217.3 | 199.3 | 131.4 | 112.4 |
| 60° | 11625.7 | 11472.0 | 10390.6 | 3934.6 | 850.3 | 272.5 | 199.3 | 192.9 | 200.4 | 126.2 | 106.1 |
| 62.5° | 11333.1 | 11070.2 | 9937.8 | 3547.6 | 743.3 | 250.2 | 177.0 | 157.9 | 177.0 | 113.5 | 94.4 |
| 65° | 10768.0 | 10373.6 | 9041.9 | 3002.6 | 700.8 | 237.5 | 150.5 | 132.5 | 134.6 | 99.7 | 81.7 |
| 67.5° | 9780.9 | 9283.6 | 7849.1 | 2439.7 | 682.8 | 238.6 | 127.2 | 118.7 | 103.9 | 84.9 | 72.1 |
| 70° | 8220.2 | 7724.0 | 6297.9 | 2007.0 | 674.3 | 238.6 | 108.2 | 101.8 | 87.0 | 71.1 | 62.6 |
| 72.5° | 5825.1 | 5290.7 | 4248.5 | 1576.6 | 607.5 | 237.5 | 92.3 | 92.3 | 71.1 | 59.4 | 50.9 |
| 75° | 3291.1 | 3295.3 | 2670.8 | 1115.4 | 504.7 | 196.1 | 74.2 | 73.2 | 52.0 | 45.6 | 38.2 |
| 77.5° | 1918.0 | 1884.1 | 1800.3 | 479.2 | 234.3 | 89.1 | 52.0 | 44.5 | 36.1 | 32.9 | 27.6 |
| 80° | 986.1 | 811.1 | 789.9 | 173.9 | 83.8 | 56.2 | 36.1 | 25.5 | 23.3 | 21.2 | 19.1 |
| 82.5° | 291.6 | 292.7 | 260.8 | 70.0 | 46.7 | 37.1 | 18.0 | 13.8 | 12.7 | 11.7 | 11.7 |
| 85° | 20.2 | 12.7 | 14.8 | 21.2 | 28.6 | 14.8 | 1.1 | 3.2 | 3.2 | 4.2 | 5.3 |
| 87.5° | 2.1 | 1.1 | 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: P653280

CATALOG NUMBER: GLAN-SA3D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 |
| 2.5° | 3815.9 | 3862.5 | 3775.6 | 3777.7 | 3705.6 | 3728.9 | 3644.1 | 3671.6 | 3621.9 | 3660.0 | 3772.4 |
| 5° | 2871.2 | 2881.8 | 2811.8 | 2789.5 | 2800.1 | 2843.6 | 2860.6 | 2783.2 | 2816.1 | 2751.3 | 2747.1 |
| 7.5° | 2022.9 | 2035.7 | 1995.4 | 1990.1 | 2066.4 | 2048.4 | 2081.3 | 2001.7 | 1926.5 | 1959.4 | 1898.9 |
| 10° | 1571.3 | 1518.3 | 1435.6 | 1412.3 | 1397.4 | 1407.0 | 1407.0 | 1334.8 | 1324.2 | 1295.6 | 1339.1 |
| 12.5° | 1240.5 | 1175.8 | 1097.3 | 991.4 | 964.8 | 962.7 | 923.5 | 859.8 | 839.7 | 815.3 | 851.4 |
| 15° | 901.2 | 874.7 | 809.0 | 749.6 | 689.2 | 677.5 | 613.9 | 562.0 | 493.0 | 483.5 | 480.3 |
| 17.5° | 634.0 | 594.8 | 593.7 | 559.9 | 524.9 | 501.5 | 442.1 | 382.7 | 356.2 | 353.1 | 353.1 |
| 20° | 475.0 | 461.2 | 438.9 | 434.7 | 424.1 | 397.6 | 344.6 | 312.8 | 300.1 | 301.1 | 305.4 |
| 22.5° | 399.7 | 390.1 | 370.0 | 360.5 | 356.2 | 333.0 | 293.7 | 272.5 | 266.1 | 266.1 | 267.2 |
| 25° | 357.3 | 348.8 | 326.6 | 311.7 | 306.4 | 289.5 | 258.7 | 242.8 | 237.5 | 237.5 | 237.5 |
| 27.5° | 325.5 | 314.9 | 291.6 | 278.9 | 269.3 | 250.2 | 231.1 | 215.2 | 209.9 | 209.9 | 211.0 |
| 30° | 303.3 | 291.6 | 270.4 | 253.4 | 238.6 | 221.6 | 205.7 | 191.9 | 185.5 | 184.5 | 185.5 |
| 32.5° | 273.6 | 263.0 | 241.7 | 231.1 | 214.2 | 194.0 | 181.3 | 168.6 | 162.2 | 163.2 | 162.2 |
| 35° | 213.1 | 209.9 | 195.1 | 198.3 | 188.7 | 171.7 | 160.1 | 146.3 | 138.9 | 137.8 | 139.9 |
| 37.5° | 194.0 | 181.3 | 164.3 | 165.4 | 162.2 | 155.8 | 136.7 | 121.9 | 116.6 | 116.6 | 117.7 |
| 40° | 179.2 | 166.4 | 147.3 | 137.8 | 138.9 | 138.9 | 118.7 | 102.9 | 97.6 | 96.5 | 98.6 |
| 42.5° | 166.4 | 153.7 | 132.5 | 116.6 | 112.4 | 117.7 | 100.8 | 84.9 | 79.6 | 77.4 | 79.6 |
| 45° | 157.9 | 144.2 | 119.8 | 101.8 | 89.1 | 95.5 | 82.7 | 70.0 | 63.6 | 63.6 | 62.6 |
| 47.5° | 149.5 | 136.7 | 110.3 | 88.0 | 74.2 | 71.1 | 67.9 | 56.2 | 49.9 | 48.8 | 49.9 |
| 50° | 142.0 | 129.3 | 99.7 | 76.4 | 62.6 | 55.2 | 55.2 | 44.5 | 40.3 | 38.2 | 39.2 |
| 52.5° | 134.6 | 120.9 | 90.2 | 67.9 | 54.1 | 44.5 | 39.2 | 36.1 | 32.9 | 31.8 | 32.9 |
| 55° | 124.0 | 110.3 | 80.6 | 58.3 | 46.7 | 37.1 | 30.8 | 29.7 | 27.6 | 25.5 | 27.6 |
| 57.5° | 111.3 | 98.6 | 71.1 | 49.9 | 37.1 | 28.6 | 25.5 | 24.4 | 22.3 | 21.2 | 21.2 |
| 59° | 103.9 | 92.3 | 65.8 | 43.5 | 32.9 | 25.5 | 23.3 | 22.3 | 20.2 | 18.0 | 19.1 |
| 60° | 99.7 | 90.2 | 62.6 | 40.3 | 29.7 | 23.3 | 21.2 | 20.2 | 18.0 | 17.0 | 18.0 |
| 62.5° | 88.0 | 80.6 | 55.2 | 32.9 | 23.3 | 17.0 | 14.8 | 15.9 | 14.8 | 13.8 | 14.8 |
| 65° | 77.4 | 71.1 | 46.7 | 25.5 | 18.0 | 11.7 | 10.6 | 13.8 | 12.7 | 11.7 | 12.7 |
| 67.5° | 68.9 | 61.5 | 39.2 | 19.1 | 12.7 | 6.4 | 7.4 | 11.7 | 11.7 | 10.6 | 11.7 |
| 70° | 59.4 | 53.0 | 31.8 | 13.8 | 6.4 | 3.2 | 5.3 | 8.5 | 10.6 | 9.5 | 10.6 |
| 72.5° | 48.8 | 41.4 | 24.4 | 9.5 | 3.2 | 0.0 | 3.2 | 7.4 | 10.6 | 9.5 | 10.6 |
| 75° | 38.2 | 30.8 | 18.0 | 5.3 | 0.0 | 0.0 | 1.1 | 6.4 | 10.6 | 9.5 | 10.6 |
| 77.5° | 27.6 | 22.3 | 10.6 | 1.1 | 0.0 | 0.0 | 1.1 | 6.4 | 10.6 | 9.5 | 10.6 |
| 80° | 18.0 | 15.9 | 4.2 | 0.0 | 0.0 | 0.0 | 1.1 | 6.4 | 10.6 | 10.6 | 11.7 |
| 82.5° | 11.7 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 8.5 | 11.7 | 12.7 | 12.7 |
| 85° | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 10.6 | 13.8 | 13.8 | 13.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 7.4 | 12.7 | 15.9 | 15.9 | 15.9 |
| 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: P653280

CATALOG NUMBER: GLAN-SA3D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 |
| 2.5° | 3791.5 | 3858.3 | 3952.6 | 4097.9 | 4215.6 | 4401.1 | 4543.3 | 4737.3 | 4933.4 | 4992.8 | 5085.0 |
| 5° | 2790.6 | 2876.5 | 3090.7 | 3285.7 | 3408.7 | 3801.1 | 4049.2 | 4440.4 | 4791.3 | 4959.9 | 5143.3 |
| 7.5° | 1938.2 | 2039.9 | 2203.3 | 2475.7 | 2734.4 | 3053.6 | 3454.3 | 3901.7 | 4416.0 | 4656.7 | 4915.4 |
| 10° | 1360.3 | 1487.6 | 1717.7 | 1941.4 | 2266.8 | 2570.1 | 2965.5 | 3459.6 | 4026.9 | 4311.1 | 4635.4 |
| 12.5° | 858.8 | 972.3 | 1276.6 | 1527.8 | 1933.9 | 2285.9 | 2650.7 | 3098.1 | 3755.4 | 4047.0 | 4387.3 |
| 15° | 490.9 | 586.3 | 728.4 | 1050.7 | 1501.4 | 1966.8 | 2421.7 | 2941.1 | 3616.6 | 3976.0 | 4343.8 |
| 17.5° | 365.8 | 391.2 | 454.8 | 637.2 | 1047.5 | 1591.4 | 2210.7 | 2893.5 | 3710.9 | 4132.9 | 4552.8 |
| 20° | 307.5 | 324.5 | 354.1 | 426.2 | 667.9 | 1225.7 | 2004.9 | 2902.0 | 4016.3 | 4546.4 | 4945.1 |
| 22.5° | 275.7 | 286.3 | 310.7 | 357.3 | 455.9 | 892.7 | 1764.2 | 2951.7 | 4386.3 | 5054.2 | 5514.4 |
| 25° | 241.7 | 255.5 | 276.7 | 317.1 | 379.5 | 619.2 | 1526.8 | 3063.1 | 4904.8 | 5698.9 | 6131.5 |
| 27.5° | 215.2 | 228.0 | 249.2 | 286.3 | 333.0 | 472.9 | 1250.1 | 3158.5 | 5451.9 | 6347.8 | 6701.9 |
| 30° | 188.7 | 201.4 | 222.6 | 252.3 | 294.8 | 382.7 | 952.1 | 3214.7 | 5983.0 | 6834.5 | 7107.0 |
| 32.5° | 166.4 | 177.0 | 197.2 | 223.7 | 258.7 | 324.5 | 750.7 | 3156.4 | 6389.2 | 7276.6 | 7458.9 |
| 35° | 144.2 | 156.9 | 173.9 | 198.3 | 229.0 | 276.7 | 624.5 | 2954.9 | 6737.9 | 7731.4 | 7797.2 |
| 37.5° | 120.9 | 135.7 | 153.7 | 176.0 | 200.4 | 254.5 | 501.5 | 2732.3 | 7111.2 | 8298.7 | 8190.5 |
| 40° | 101.8 | 115.6 | 132.5 | 156.9 | 179.2 | 233.3 | 385.9 | 2494.8 | 7514.1 | 8830.9 | 8619.9 |
| 42.5° | 82.7 | 97.6 | 117.7 | 139.9 | 177.0 | 203.6 | 299.0 | 2248.8 | 7875.6 | 9294.2 | 9008.0 |
| 45° | 65.8 | 78.5 | 99.7 | 128.3 | 176.0 | 174.9 | 231.1 | 2006.0 | 8148.1 | 9625.1 | 9297.4 |
| 47.5° | 52.0 | 62.6 | 83.8 | 125.1 | 162.2 | 148.4 | 185.5 | 1855.4 | 8434.4 | 9923.0 | 9519.0 |
| 50° | 41.4 | 52.0 | 72.1 | 130.4 | 142.0 | 127.2 | 155.8 | 1879.8 | 8711.1 | 10074.6 | 9610.2 |
| 52.5° | 35.0 | 45.6 | 62.6 | 102.9 | 109.2 | 111.3 | 136.7 | 1992.2 | 9068.4 | 10236.8 | 9791.5 |
| 55° | 30.8 | 40.3 | 53.0 | 72.1 | 84.9 | 99.7 | 125.1 | 2073.9 | 9546.6 | 10584.6 | 10191.2 |
| 57.5° | 24.4 | 35.0 | 47.7 | 61.5 | 70.0 | 87.0 | 115.6 | 2080.2 | 9979.1 | 11031.0 | 10722.4 |
| 59° | 22.3 | 31.8 | 44.5 | 58.3 | 62.6 | 78.5 | 109.2 | 2026.1 | 9995.0 | 11097.8 | 10966.3 |
| 60° | 20.2 | 30.8 | 42.4 | 54.1 | 59.4 | 74.2 | 103.9 | 1963.6 | 9850.9 | 10991.7 | 11067.0 |
| 62.5° | 17.0 | 26.5 | 37.1 | 43.5 | 50.9 | 61.5 | 90.2 | 1736.7 | 9152.2 | 10511.4 | 10880.4 |
| 65° | 14.8 | 23.3 | 31.8 | 36.1 | 42.4 | 53.0 | 79.6 | 1390.0 | 8380.3 | 9860.4 | 10346.0 |
| 67.5° | 13.8 | 21.2 | 27.6 | 30.8 | 37.1 | 48.8 | 71.1 | 981.8 | 7380.4 | 9034.4 | 9543.4 |
| 70° | 12.7 | 20.2 | 24.4 | 28.6 | 32.9 | 41.4 | 60.5 | 572.6 | 5685.1 | 7586.2 | 8123.7 |
| 72.5° | 12.7 | 19.1 | 21.2 | 24.4 | 28.6 | 37.1 | 56.2 | 309.6 | 3886.9 | 5786.9 | 6481.3 |
| 75° | 12.7 | 18.0 | 19.1 | 21.2 | 25.5 | 33.9 | 49.9 | 162.2 | 2512.8 | 4020.5 | 4962.0 |
| 77.5° | 12.7 | 17.0 | 19.1 | 20.2 | 24.4 | 29.7 | 43.5 | 101.8 | 1674.2 | 2816.1 | 3353.6 |
| 80° | 13.8 | 17.0 | 18.0 | 20.2 | 23.3 | 27.6 | 36.1 | 67.9 | 983.9 | 1694.3 | 2041.0 |
| 82.5° | 14.8 | 17.0 | 19.1 | 21.2 | 24.4 | 26.5 | 31.8 | 42.4 | 453.8 | 1120.7 | 1268.1 |
| 85° | 15.9 | 18.0 | 20.2 | 22.3 | 25.5 | 26.5 | 29.7 | 30.8 | 74.2 | 505.8 | 683.9 |
| 87.5° | 17.0 | 19.1 | 21.2 | 23.3 | 27.6 | 27.6 | 27.6 | 27.6 | 25.5 | 54.1 | 137.8 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 | 4610.0 |
| 2.5° | 5201.7 | 5321.4 | 5405.2 | 5426.4 | 5366.0 | 5338.4 | 5262.1 | 5143.3 | 5071.2 | 5068.0 |
| 5° | 5481.6 | 5762.5 | 5957.6 | 5990.4 | 5873.8 | 5676.7 | 5442.3 | 5140.1 | 4963.1 | 4910.1 |
| 7.5° | 5433.9 | 5925.8 | 6239.6 | 6285.2 | 6089.1 | 5712.7 | 5258.9 | 4772.3 | 4579.2 | 4497.6 |
| 10° | 5237.7 | 5837.8 | 6286.3 | 6358.4 | 6096.5 | 5566.3 | 4989.6 | 4446.7 | 4207.1 | 4144.5 |
| 12.5° | 5070.1 | 5676.7 | 6075.3 | 6175.0 | 5976.7 | 5447.6 | 4828.4 | 4237.9 | 3981.3 | 3922.9 |
| 15° | 4997.0 | 5485.8 | 5729.6 | 5780.5 | 5747.6 | 5373.4 | 4811.4 | 4206.0 | 3912.3 | 3848.8 |
| 17.5° | 5070.1 | 5323.5 | 5354.3 | 5406.3 | 5479.5 | 5366.0 | 4974.8 | 4378.8 | 4061.9 | 3983.4 |
| 20° | 5262.1 | 5182.6 | 5055.3 | 5077.6 | 5245.1 | 5396.7 | 5265.2 | 4761.7 | 4375.7 | 4292.0 |
| 22.5° | 5588.6 | 5147.6 | 4859.1 | 4840.1 | 5052.1 | 5499.6 | 5691.5 | 5280.1 | 4832.6 | 4750.0 |
| 25° | 5989.4 | 5235.6 | 4787.1 | 4745.8 | 4976.9 | 5650.1 | 6154.8 | 5915.2 | 5426.4 | 5300.2 |
| 27.5° | 6426.2 | 5417.9 | 4787.1 | 4746.8 | 4970.5 | 5783.7 | 6551.3 | 6477.1 | 6041.3 | 5903.5 |
| 30° | 6665.9 | 5568.5 | 4856.0 | 4810.4 | 5048.9 | 5861.1 | 6763.4 | 6976.5 | 6503.6 | 6332.9 |
| 32.5° | 6880.1 | 5777.3 | 4990.7 | 4904.8 | 5213.3 | 5975.6 | 6953.2 | 7400.6 | 6871.6 | 6757.0 |
| 35° | 7077.3 | 6001.0 | 5176.2 | 5076.5 | 5429.6 | 6132.6 | 7163.1 | 7845.9 | 7383.6 | 7210.8 |
| 37.5° | 7294.6 | 6260.8 | 5465.7 | 5380.8 | 5791.1 | 6437.9 | 7412.2 | 8431.2 | 7887.2 | 7669.9 |
| 40° | 7531.0 | 6562.0 | 5941.7 | 5905.7 | 6365.8 | 6783.5 | 7727.2 | 9055.6 | 8461.9 | 8214.9 |
| 42.5° | 7771.7 | 6908.6 | 6524.8 | 6584.2 | 7016.8 | 7268.1 | 8050.6 | 9536.0 | 8932.7 | 8660.2 |
| 45° | 7990.1 | 7351.9 | 7282.9 | 7576.7 | 7776.0 | 7741.0 | 8290.2 | 9874.2 | 9343.0 | 9082.2 |
| 47.5° | 8265.8 | 7997.6 | 8200.1 | 8652.8 | 8658.1 | 8255.2 | 8471.5 | 10151.0 | 9696.1 | 9435.3 |
| 50° | 8574.3 | 8759.9 | 9384.4 | 9845.6 | 9721.5 | 8760.9 | 8683.5 | 10478.5 | 10060.8 | 9851.9 |
| 52.5° | 8931.6 | 9613.4 | 10478.5 | 10990.6 | 10701.2 | 9312.2 | 9036.6 | 10832.7 | 10639.7 | 10439.3 |
| 55° | 9347.2 | 10195.4 | 11569.6 | 11977.8 | 11686.2 | 9997.2 | 9573.1 | 11313.0 | 11293.9 | 11157.1 |
| 57.5° | 9816.9 | 10810.4 | 12201.5 | 12753.8 | 12494.1 | 10800.9 | 10322.7 | 11765.7 | 11693.6 | 11617.2 |
| 59° | 10188.0 | 11126.3 | 12480.4 | 13052.8 | 12896.0 | 11363.8 | 10826.3 | 12047.7 | 11785.9 | 11671.3 |
| 60° | 10412.8 | 11340.5 | 12583.1 | 13093.1 | 13057.1 | 11698.9 | 11145.4 | 12185.6 | 11784.8 | 11625.7 |
| 62.5° | 11079.7 | 11714.8 | 12543.9 | 12914.0 | 13055.0 | 12341.4 | 12081.6 | 12337.2 | 11566.4 | 11333.1 |
| 65° | 11317.2 | 11590.7 | 11894.0 | 11848.4 | 11969.3 | 12308.5 | 12679.7 | 12170.7 | 11099.9 | 10768.0 |
| 67.5° | 10855.0 | 10230.4 | 10337.6 | 10033.2 | 9973.8 | 10942.9 | 12436.9 | 11356.4 | 10186.9 | 9780.9 |
| 70° | 9150.1 | 7837.4 | 7783.4 | 7923.3 | 7539.5 | 8859.5 | 11167.7 | 9788.3 | 8680.4 | 8220.2 |
| 72.5° | 7202.3 | 5538.8 | 5082.9 | 5598.2 | 5586.5 | 6759.1 | 9277.2 | 6945.7 | 5864.3 | 5825.1 |
| 75° | 5663.9 | 3856.2 | 3384.4 | 3468.1 | 3629.3 | 4893.1 | 7388.9 | 4410.7 | 3611.3 | 3291.1 |
| 77.5° | 3802.1 | 2732.3 | 2548.9 | 2446.0 | 2619.9 | 3141.6 | 4674.7 | 2392.0 | 2025.1 | 1918.0 |
| 80° | 2191.6 | 1984.8 | 2254.1 | 2046.3 | 2139.6 | 1979.5 | 2325.1 | 1097.3 | 910.8 | 986.1 |
| 82.5° | 1426.1 | 1130.2 | 1204.5 | 894.8 | 1223.6 | 1234.2 | 746.4 | 324.5 | 274.6 | 291.6 |
| 85° | 891.7 | 530.2 | 298.0 | 212.0 | 422.0 | 776.1 | 233.3 | 20.2 | 23.3 | 20.2 |
| 87.5° | 231.1 | 88.0 | 37.1 | 55.2 | 67.9 | 60.5 | 54.1 | 3.2 | 1.1 | 2.1 |
| 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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