

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: P451920

Luminaire Tested: **GLAN-SA2D-750-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12455 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

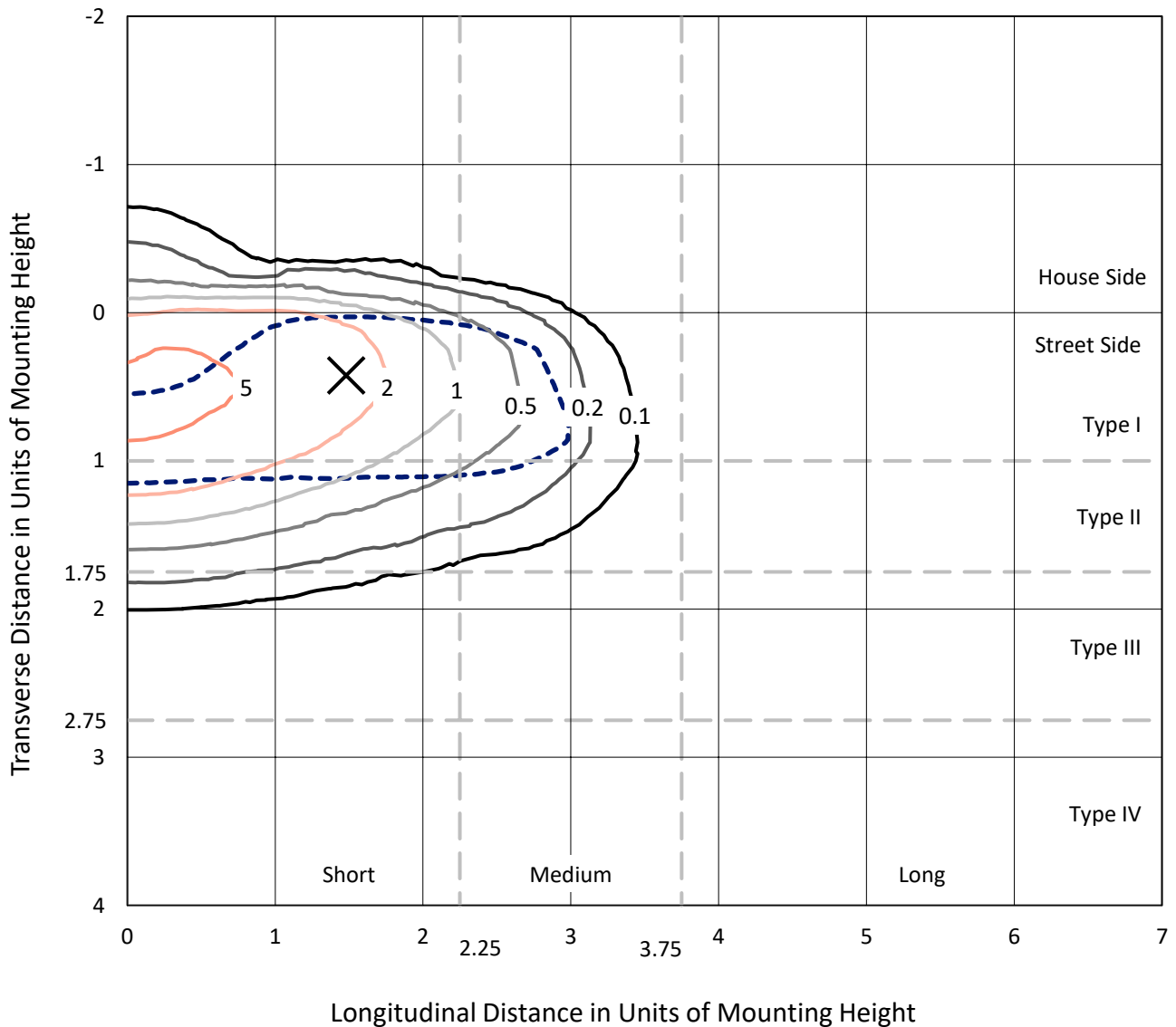
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

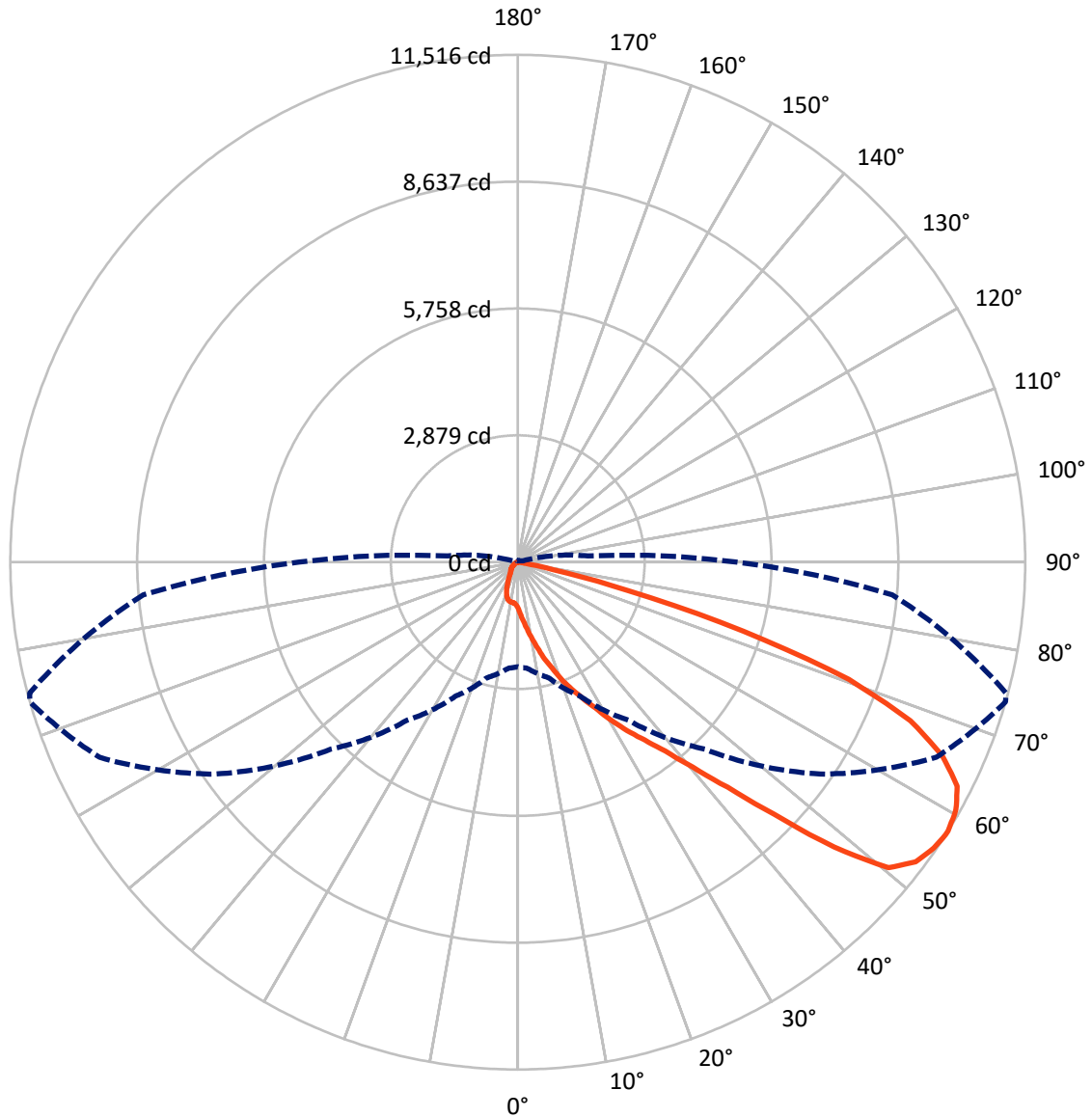
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 718.4 | 0.0 | 718.4 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 11736.6 | 0.0 | 11736.6 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 12455.0 | 0.0 | 12455.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 125.9 | 1.0 |
| 10°-20° | 496.3 | 4.0 |
| 20°-30° | 1061.9 | 8.5 |
| 30°-40° | 1951.7 | 15.7 |
| 40°-50° | 2992.0 | 24.0 |
| 50°-60° | 3165.1 | 25.4 |
| 60°-70° | 2066.9 | 16.6 |
| 70°-80° | 564.8 | 4.5 |
| 80°-90° | 30.4 | 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° | 12455.0 | 100.0 |
| 0°-180° | 12455.0 | 100.0 |

Coefficient of Utilization



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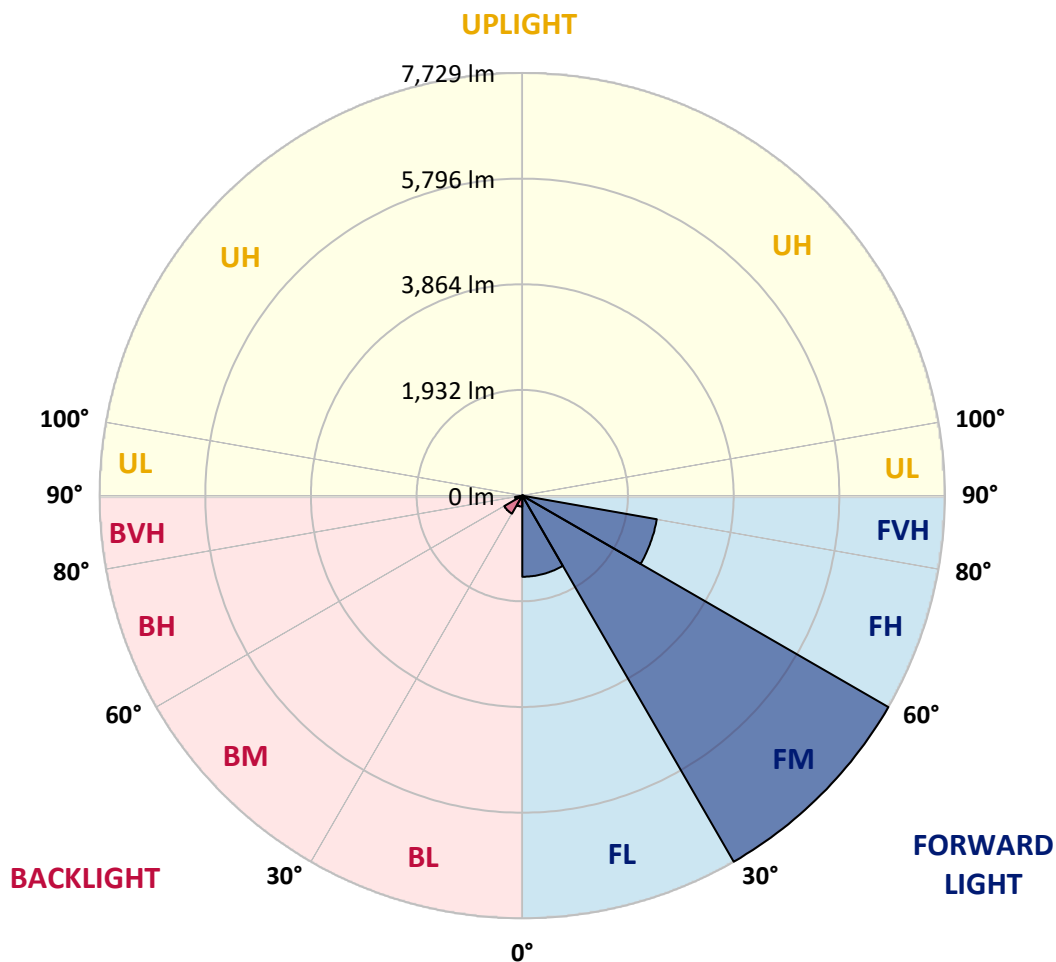
CATALOG NUMBER: GLAN-SA2D-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1483.4 | 11.9 | | | |
| FM | (30°-60°) | 7728.6 | 62.1 | | | |
| FH | (60°-80°) | 2496.8 | 20.0 | | | G2/5000 |
| FVH | (80°-90°) | 27.9 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 200.7 | 1.6 | B1/500 | | |
| BM | (30°-60°) | 380.3 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 134.9 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.5 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 |
| 2.5° | 1526.4 | 1512.6 | 1485.1 | 1475.6 | 1435.2 | 1372.4 | 1317.4 | 1243.5 | 1185.0 | 1179.0 | 1108.4 |
| 5° | 2044.0 | 2013.1 | 2000.2 | 1938.3 | 1841.1 | 1749.9 | 1593.4 | 1474.8 | 1338.0 | 1327.7 | 1185.8 |
| 7.5° | 2542.8 | 2499.8 | 2486.9 | 2428.4 | 2314.9 | 2171.3 | 1968.4 | 1752.5 | 1535.8 | 1516.0 | 1289.9 |
| 10° | 2904.0 | 2910.0 | 2886.8 | 2848.1 | 2756.1 | 2609.9 | 2359.6 | 2064.7 | 1756.0 | 1731.0 | 1406.8 |
| 12.5° | 3162.8 | 3161.9 | 3166.2 | 3165.4 | 3116.4 | 3005.4 | 2742.3 | 2402.6 | 1998.5 | 1949.5 | 1541.0 |
| 15° | 3331.4 | 3333.9 | 3346.8 | 3391.5 | 3396.7 | 3327.9 | 3108.6 | 2726.0 | 2279.7 | 2218.6 | 1686.3 |
| 17.5° | 3501.6 | 3519.7 | 3540.3 | 3582.5 | 3620.3 | 3592.8 | 3438.0 | 3063.1 | 2534.2 | 2488.6 | 1842.0 |
| 20° | 3782.8 | 3807.8 | 3795.7 | 3821.5 | 3841.3 | 3843.9 | 3724.3 | 3374.3 | 2842.9 | 2766.4 | 2020.0 |
| 22.5° | 4232.6 | 4231.7 | 4200.7 | 4154.3 | 4115.6 | 4113.9 | 4005.5 | 3694.2 | 3123.3 | 3049.3 | 2198.8 |
| 25° | 4801.0 | 4803.5 | 4743.4 | 4610.9 | 4514.6 | 4396.8 | 4272.1 | 3974.6 | 3423.4 | 3332.2 | 2387.2 |
| 27.5° | 5452.8 | 5436.5 | 5345.3 | 5163.0 | 4972.1 | 4770.9 | 4591.1 | 4300.5 | 3741.5 | 3665.9 | 2603.0 |
| 30° | 6038.4 | 6032.4 | 5925.7 | 5703.0 | 5451.9 | 5249.8 | 4989.3 | 4709.0 | 4153.4 | 4060.6 | 2844.6 |
| 32.5° | 6583.6 | 6592.2 | 6444.3 | 6213.8 | 5971.3 | 5738.3 | 5463.1 | 5099.4 | 4557.6 | 4426.0 | 3107.8 |
| 35° | 7009.3 | 7017.9 | 6864.8 | 6673.0 | 6423.6 | 6230.2 | 5967.9 | 5515.6 | 4956.6 | 4845.7 | 3410.5 |
| 37.5° | 7236.3 | 7247.5 | 7158.9 | 7014.4 | 6858.8 | 6761.6 | 6517.4 | 6051.3 | 5441.6 | 5374.5 | 3768.2 |
| 40° | 7279.3 | 7292.2 | 7253.5 | 7214.8 | 7206.2 | 7275.8 | 7204.5 | 6682.5 | 6114.1 | 6009.2 | 4301.3 |
| 42.5° | 7150.3 | 7167.5 | 7184.7 | 7270.7 | 7446.1 | 7701.5 | 7950.0 | 7539.0 | 6980.0 | 6839.0 | 4953.2 |
| 45° | 6811.5 | 6809.8 | 6877.7 | 7100.4 | 7493.4 | 8038.6 | 8729.1 | 8611.3 | 8159.8 | 7992.2 | 5874.2 |
| 47.5° | 6231.9 | 6223.3 | 6370.3 | 6687.6 | 7299.9 | 8100.5 | 9364.6 | 9913.2 | 9665.6 | 9510.8 | 6863.9 |
| 50° | 5348.7 | 5390.9 | 5622.2 | 6065.1 | 6819.2 | 7913.0 | 9560.7 | 10767.1 | 10901.3 | 10737.0 | 7663.7 |
| 52.5° | 4314.2 | 4312.5 | 4675.4 | 5276.5 | 6107.2 | 7500.3 | 9423.9 | 10921.9 | 11302.9 | 11177.3 | 8057.5 |
| 55° | 3192.9 | 3215.3 | 3592.8 | 4199.0 | 5182.8 | 6747.0 | 8977.6 | 10762.8 | 11455.9 | 11367.4 | 8317.2 |
| 57° | 2375.1 | 2414.7 | 2717.4 | 3358.9 | 4377.9 | 6001.4 | 8383.4 | 10478.2 | 11516.1 | 11468.0 | 8533.0 |
| 57.5° | 2216.9 | 2218.6 | 2513.6 | 3096.6 | 4142.3 | 5715.1 | 8213.2 | 10359.5 | 11514.4 | 11487.7 | 8568.3 |
| 60° | 1364.7 | 1407.7 | 1611.5 | 2093.1 | 3032.1 | 4460.4 | 7072.0 | 9677.6 | 11425.0 | 11463.7 | 8718.8 |
| 62.5° | 816.9 | 835.0 | 967.4 | 1261.5 | 1954.6 | 3255.7 | 5787.3 | 8804.8 | 11191.9 | 11309.7 | 8708.5 |
| 65° | 525.4 | 529.7 | 589.9 | 763.6 | 1222.0 | 2200.6 | 4459.6 | 7651.6 | 10589.1 | 10805.8 | 8367.9 |
| 67.5° | 405.9 | 412.8 | 436.8 | 501.3 | 708.6 | 1370.7 | 3154.2 | 6421.1 | 9614.0 | 9893.4 | 7542.4 |
| 70° | 360.3 | 363.7 | 372.3 | 393.0 | 468.7 | 773.9 | 1962.4 | 5015.9 | 7972.4 | 8051.5 | 5902.5 |
| 72.5° | 294.1 | 303.6 | 330.2 | 337.1 | 371.5 | 483.3 | 1092.1 | 3366.6 | 5356.5 | 5376.3 | 3302.1 |
| 75° | 227.9 | 229.6 | 269.2 | 288.9 | 313.0 | 332.8 | 487.6 | 1697.5 | 2572.9 | 2435.3 | 1272.7 |
| 77.5° | 170.3 | 178.0 | 196.1 | 221.0 | 255.4 | 238.2 | 218.4 | 639.8 | 798.9 | 784.3 | 369.8 |
| 80° | 109.2 | 113.5 | 136.7 | 166.0 | 198.6 | 155.6 | 123.0 | 187.5 | 175.4 | 180.6 | 88.6 |
| 82.5° | 55.0 | 55.9 | 87.7 | 135.0 | 126.4 | 78.3 | 77.4 | 76.5 | 65.4 | 64.5 | 41.3 |
| 85° | 6.0 | 12.9 | 56.8 | 77.4 | 56.8 | 25.8 | 36.1 | 35.3 | 34.4 | 35.3 | 24.1 |
| 87.5° | 0.9 | 0.9 | 9.5 | 11.2 | 7.7 | 8.6 | 10.3 | 11.2 | 13.8 | 12.9 | 10.3 |
| 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: P451920

CATALOG NUMBER: GLAN-SA2D-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 | 1043.1 |
| 2.5° | 1074.0 | 1039.7 | 976.0 | 915.0 | 869.4 | 840.1 | 802.3 | 788.6 | 768.8 | 766.2 | 756.7 |
| 5° | 1120.5 | 1055.1 | 944.2 | 856.5 | 786.0 | 732.7 | 686.2 | 647.5 | 616.6 | 609.7 | 613.1 |
| 7.5° | 1186.7 | 1089.5 | 934.7 | 815.2 | 717.2 | 626.0 | 552.1 | 506.5 | 473.8 | 461.8 | 463.5 |
| 10° | 1261.5 | 1135.1 | 933.0 | 771.4 | 621.7 | 509.9 | 429.1 | 388.7 | 369.8 | 362.9 | 355.1 |
| 12.5° | 1350.1 | 1187.6 | 928.7 | 703.4 | 516.8 | 406.7 | 349.1 | 325.1 | 307.0 | 301.8 | 301.8 |
| 15° | 1449.8 | 1243.5 | 908.1 | 619.1 | 419.6 | 336.2 | 297.5 | 278.6 | 272.6 | 267.4 | 267.4 |
| 17.5° | 1553.9 | 1298.5 | 865.1 | 515.1 | 348.3 | 288.1 | 264.0 | 252.8 | 244.2 | 238.2 | 238.2 |
| 20° | 1672.6 | 1352.7 | 796.3 | 423.1 | 294.1 | 257.1 | 238.2 | 225.3 | 218.4 | 213.3 | 211.5 |
| 22.5° | 1785.2 | 1396.5 | 708.6 | 347.4 | 256.3 | 231.3 | 214.1 | 200.4 | 193.5 | 190.9 | 190.9 |
| 25° | 1902.2 | 1423.2 | 602.8 | 287.2 | 233.9 | 209.8 | 190.9 | 179.7 | 173.7 | 172.0 | 171.1 |
| 27.5° | 2015.7 | 1438.7 | 509.9 | 251.1 | 213.3 | 190.0 | 172.0 | 163.4 | 157.4 | 155.6 | 156.5 |
| 30° | 2153.3 | 1441.2 | 419.6 | 225.3 | 195.2 | 171.1 | 154.8 | 147.0 | 143.6 | 141.9 | 141.0 |
| 32.5° | 2292.6 | 1437.8 | 352.6 | 209.8 | 178.0 | 154.8 | 141.0 | 135.0 | 132.4 | 129.8 | 129.8 |
| 35° | 2449.1 | 1419.7 | 300.1 | 194.3 | 161.7 | 141.0 | 129.0 | 123.8 | 120.4 | 117.8 | 116.9 |
| 37.5° | 2643.4 | 1410.3 | 270.0 | 177.1 | 147.0 | 128.1 | 116.9 | 111.8 | 109.2 | 105.8 | 104.9 |
| 40° | 2949.5 | 1452.4 | 260.6 | 161.7 | 132.4 | 116.1 | 105.8 | 99.8 | 96.3 | 92.9 | 92.0 |
| 42.5° | 3331.4 | 1526.4 | 245.1 | 146.2 | 119.5 | 104.9 | 94.6 | 87.7 | 81.7 | 77.4 | 75.7 |
| 45° | 3825.8 | 1623.5 | 221.0 | 129.8 | 108.4 | 92.9 | 83.4 | 74.8 | 67.1 | 63.6 | 62.8 |
| 47.5° | 4344.3 | 1717.3 | 199.5 | 116.9 | 96.3 | 82.6 | 72.2 | 62.8 | 55.9 | 53.3 | 52.5 |
| 50° | 4662.5 | 1736.2 | 185.7 | 102.3 | 84.3 | 71.4 | 61.1 | 52.5 | 48.2 | 45.6 | 45.6 |
| 52.5° | 4807.8 | 1706.1 | 166.8 | 89.4 | 73.1 | 62.8 | 52.5 | 45.6 | 43.0 | 41.3 | 40.4 |
| 55° | 4909.3 | 1659.7 | 141.9 | 77.4 | 62.8 | 53.3 | 46.4 | 41.3 | 37.8 | 36.1 | 35.3 |
| 57° | 4968.7 | 1596.9 | 123.0 | 67.9 | 54.2 | 46.4 | 41.3 | 37.0 | 33.5 | 30.1 | 30.1 |
| 57.5° | 4971.2 | 1572.8 | 117.8 | 67.1 | 51.6 | 44.7 | 40.4 | 36.1 | 31.8 | 28.4 | 27.5 |
| 60° | 4894.7 | 1407.7 | 94.6 | 56.8 | 41.3 | 37.8 | 33.5 | 28.4 | 22.4 | 18.9 | 18.1 |
| 62.5° | 4648.8 | 1197.9 | 78.3 | 48.2 | 33.5 | 29.2 | 24.1 | 21.5 | 15.5 | 11.2 | 11.2 |
| 65° | 4276.4 | 971.7 | 67.1 | 38.7 | 27.5 | 21.5 | 16.3 | 15.5 | 9.5 | 5.2 | 4.3 |
| 67.5° | 3738.1 | 756.7 | 56.8 | 31.8 | 23.2 | 15.5 | 11.2 | 10.3 | 5.2 | 1.7 | 0.0 |
| 70° | 2848.1 | 516.0 | 47.3 | 25.8 | 17.2 | 11.2 | 7.7 | 6.0 | 3.4 | 0.9 | 0.0 |
| 72.5° | 1641.6 | 283.8 | 39.6 | 19.8 | 12.9 | 8.6 | 6.0 | 3.4 | 3.4 | 0.0 | 0.0 |
| 75° | 586.5 | 122.1 | 30.1 | 14.6 | 10.3 | 6.9 | 4.3 | 1.7 | 2.6 | 0.9 | 0.0 |
| 77.5° | 186.6 | 65.4 | 19.8 | 11.2 | 8.6 | 5.2 | 3.4 | 1.7 | 1.7 | 0.9 | 0.0 |
| 80° | 55.0 | 34.4 | 12.0 | 9.5 | 6.0 | 4.3 | 2.6 | 0.9 | 1.7 | 0.9 | 0.0 |
| 82.5° | 30.1 | 17.2 | 9.5 | 6.9 | 6.0 | 3.4 | 2.6 | 0.9 | 0.9 | 0.9 | 0.0 |
| 85° | 15.5 | 10.3 | 7.7 | 6.9 | 6.0 | 3.4 | 2.6 | 0.9 | 0.0 | 0.9 | 0.9 |
| 87.5° | 8.6 | 7.7 | 7.7 | 6.9 | 6.0 | 4.3 | 2.6 | 0.9 | 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)