

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: P453373

Luminaire Tested: **GLAN-SA4B-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16409 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

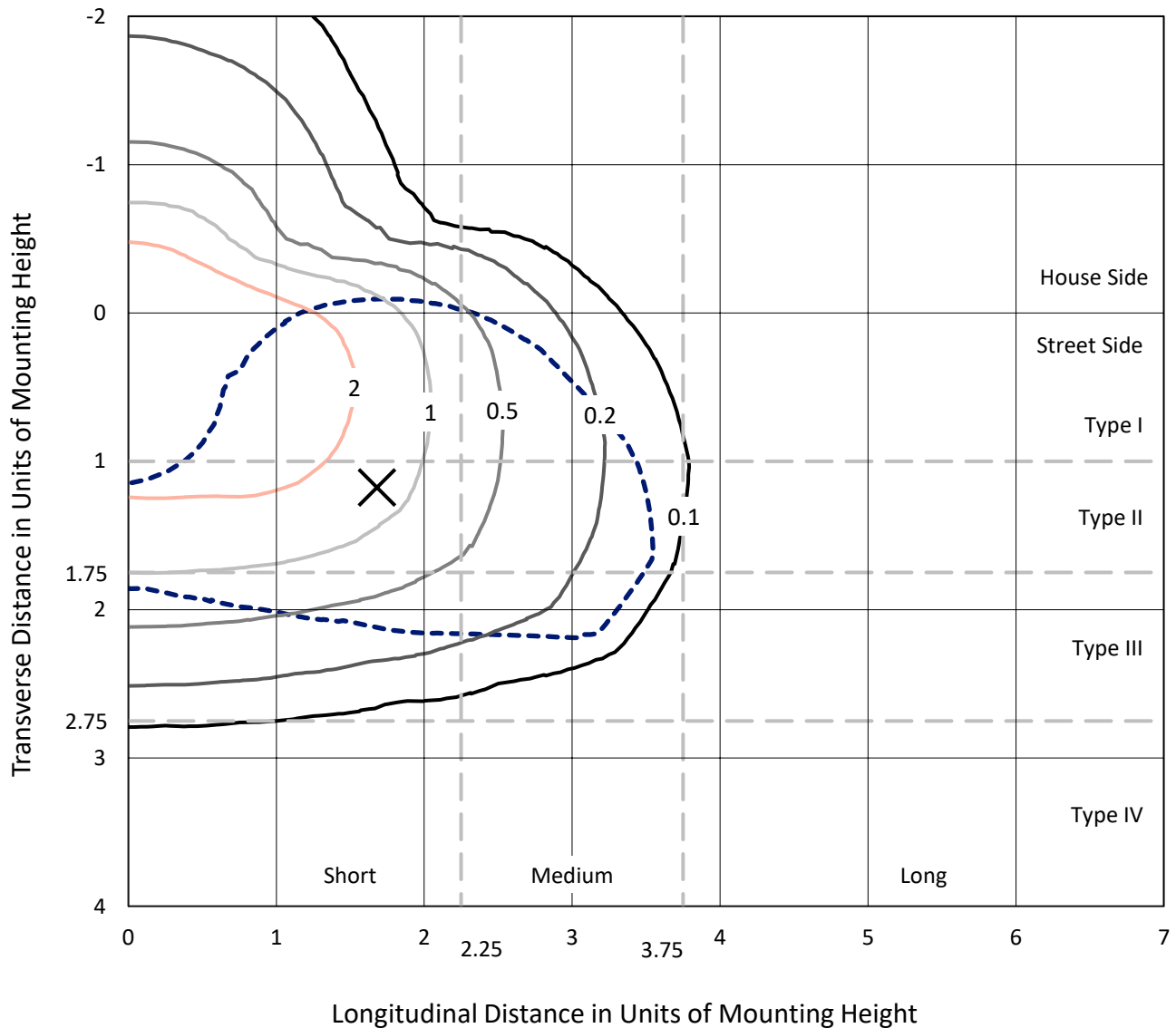


REPORT NUMBER: P453373

CATALOG NUMBER: GLAN-SA4B-827-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

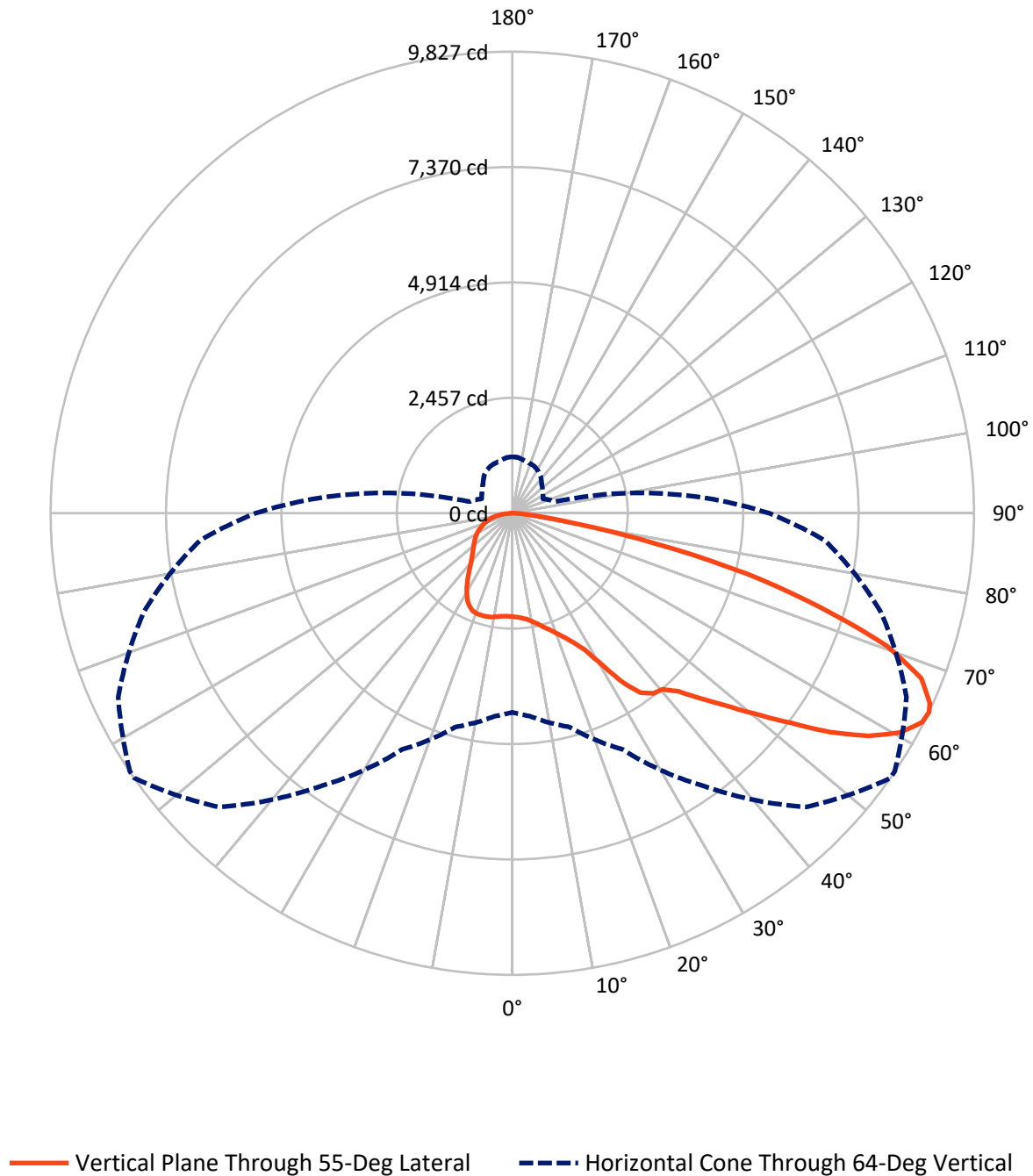


Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

REPORT NUMBER: P453373

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## Luminous Intensity Polar Plot



REPORT NUMBER: P453373

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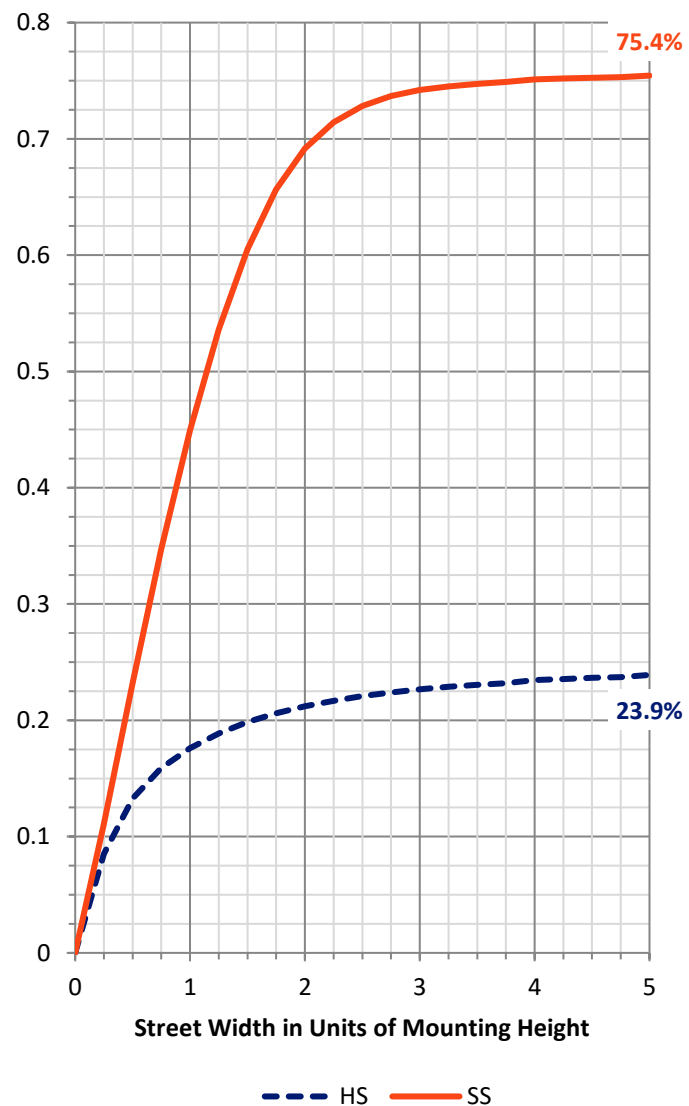
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3986.1   | 0.0    | 3986.1  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 12422.9  | 0.0    | 12422.9 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 16409.0  | 0.0    | 16409.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 214.2   | 1.3       |
| 10°-20°   | 675.7   | 4.1       |
| 20°-30°   | 1203.0  | 7.3       |
| 30°-40°   | 1850.9  | 11.3      |
| 40°-50°   | 2623.8  | 16.0      |
| 50°-60°   | 3797.9  | 23.1      |
| 60°-70°   | 3930.4  | 24.0      |
| 70°-80°   | 1840.6  | 11.2      |
| 80°-90°   | 272.5   | 1.7       |
| 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°    | 16409.0 | 100.0     |
| 0°-180°   | 16409.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P453373

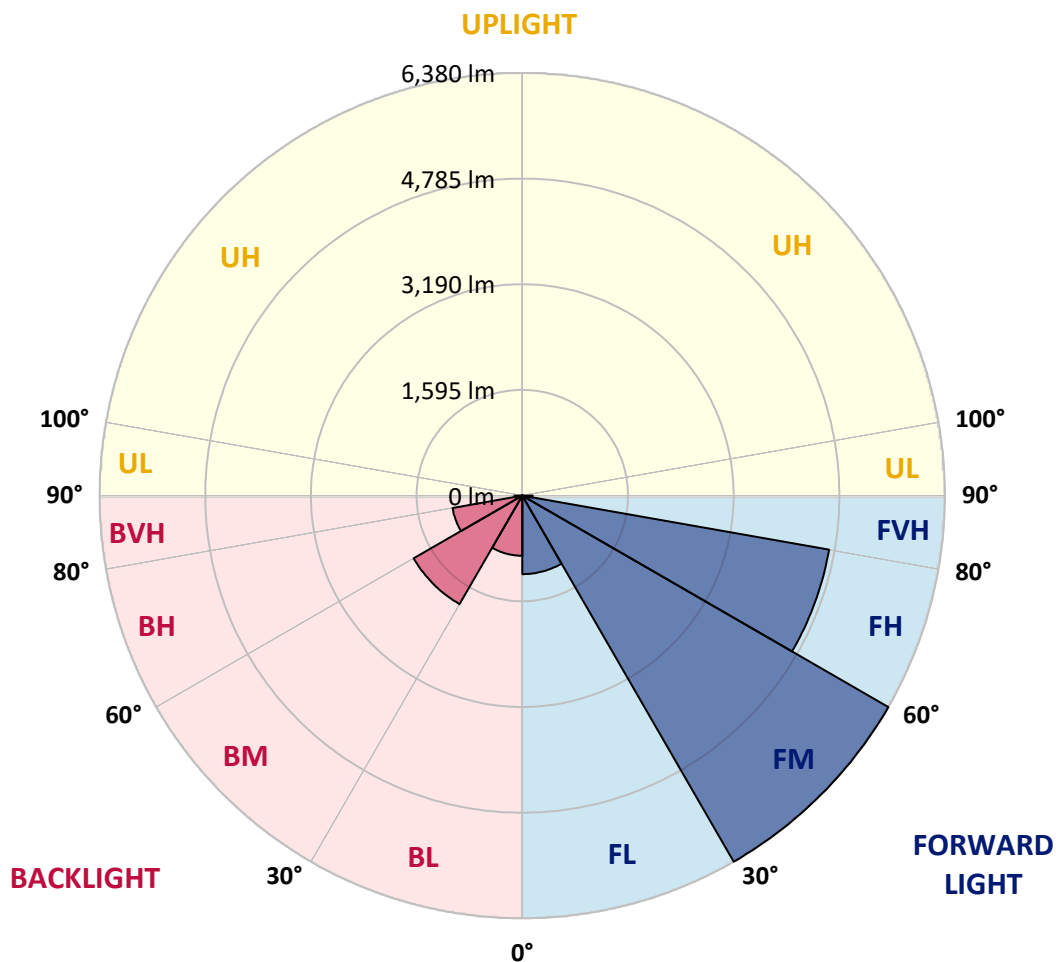
CATALOG NUMBER: GLAN-SA4B-827-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1185.0 | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 6380.3 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 4701.7 | 28.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 156.0  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 907.9  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1892.3 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1069.4 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 116.5  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





REPORT NUMBER: P453373

CATALOG NUMBER: GLAN-SA4B-827-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 |
| 2.5°  | 2226.3 | 2225.4 | 2228.1 | 2225.4 | 2227.2 | 2220.8 | 2218.1 | 2219.9 | 2217.1 | 2212.6 | 2204.3 |
| 5°    | 2253.7 | 2252.8 | 2253.7 | 2250.1 | 2251.9 | 2248.2 | 2241.8 | 2243.7 | 2239.1 | 2229.0 | 2217.1 |
| 7.5°  | 2300.4 | 2296.7 | 2296.7 | 2295.8 | 2292.1 | 2286.7 | 2282.1 | 2280.3 | 2275.7 | 2262.9 | 2244.6 |
| 10°   | 2360.7 | 2360.7 | 2361.7 | 2354.3 | 2358.9 | 2348.9 | 2344.3 | 2343.4 | 2327.8 | 2311.4 | 2285.7 |
| 12.5° | 2440.3 | 2444.9 | 2442.1 | 2438.5 | 2436.7 | 2433.0 | 2417.5 | 2421.1 | 2403.7 | 2375.4 | 2344.3 |
| 15°   | 2539.1 | 2546.4 | 2541.8 | 2540.0 | 2535.4 | 2521.7 | 2515.3 | 2512.6 | 2489.7 | 2448.6 | 2407.4 |
| 17.5° | 2669.9 | 2660.8 | 2657.1 | 2652.5 | 2633.3 | 2623.3 | 2612.3 | 2610.4 | 2590.3 | 2541.8 | 2477.8 |
| 20°   | 2784.2 | 2797.0 | 2789.7 | 2785.1 | 2765.9 | 2746.7 | 2738.5 | 2735.8 | 2718.4 | 2665.3 | 2562.9 |
| 22.5° | 2920.5 | 2923.3 | 2926.0 | 2915.0 | 2905.9 | 2891.2 | 2876.6 | 2872.0 | 2865.6 | 2810.8 | 2685.4 |
| 25°   | 3065.9 | 3076.9 | 3067.8 | 3056.8 | 3045.8 | 3044.9 | 3058.6 | 3056.8 | 3054.1 | 3001.0 | 2848.3 |
| 27.5° | 3302.8 | 3312.9 | 3315.7 | 3303.8 | 3261.7 | 3265.3 | 3296.4 | 3306.5 | 3348.6 | 3260.8 | 3057.7 |
| 30°   | 3436.4 | 3446.4 | 3469.3 | 3514.1 | 3580.9 | 3639.4 | 3714.4 | 3737.3 | 3777.6 | 3612.0 | 3306.5 |
| 32.5° | 3518.7 | 3522.4 | 3563.5 | 3646.8 | 3847.1 | 4065.7 | 4269.6 | 4277.9 | 4303.5 | 4071.2 | 3534.3 |
| 35°   | 3648.6 | 3651.3 | 3684.3 | 3775.7 | 4010.8 | 4374.8 | 4690.4 | 4700.5 | 4679.4 | 4213.8 | 3640.4 |
| 37.5° | 3808.7 | 3816.0 | 3837.0 | 3912.9 | 4193.7 | 4633.7 | 4865.1 | 4857.8 | 4671.2 | 4327.3 | 3827.9 |
| 40°   | 4041.9 | 4041.9 | 4017.2 | 4119.6 | 4386.7 | 4781.9 | 4926.4 | 4913.6 | 4864.2 | 4655.6 | 4113.2 |
| 42.5° | 4247.7 | 4244.0 | 4302.6 | 4372.1 | 4628.2 | 5010.5 | 5183.4 | 5204.4 | 5285.8 | 5068.1 | 4437.9 |
| 45°   | 4515.7 | 4532.2 | 4565.1 | 4691.3 | 5038.9 | 5401.1 | 5624.3 | 5644.4 | 5759.6 | 5553.8 | 4817.5 |
| 47.5° | 4786.4 | 4791.9 | 4895.3 | 5063.6 | 5547.4 | 5930.7 | 6113.6 | 6146.5 | 6251.7 | 6121.8 | 5226.4 |
| 50°   | 4978.5 | 5030.6 | 5196.2 | 5461.4 | 6071.5 | 6576.4 | 6719.1 | 6758.4 | 6944.1 | 6740.1 | 5702.9 |
| 52.5° | 5181.6 | 5232.8 | 5434.9 | 5839.2 | 6673.4 | 7236.8 | 7412.4 | 7438.9 | 7631.9 | 7365.8 | 6190.4 |
| 55°   | 5355.3 | 5402.9 | 5632.5 | 6174.0 | 7152.7 | 7910.9 | 8229.2 | 8198.1 | 8290.5 | 7847.8 | 6566.4 |
| 57.5° | 5383.7 | 5422.1 | 5711.2 | 6388.0 | 7513.0 | 8489.0 | 8945.4 | 8963.7 | 8856.7 | 8208.2 | 6876.4 |
| 60°   | 5164.2 | 5242.8 | 5574.9 | 6365.1 | 7674.9 | 8891.4 | 9479.6 | 9492.4 | 9188.7 | 8392.9 | 6999.9 |
| 62.5° | 4775.5 | 4767.2 | 5168.8 | 5997.4 | 7448.1 | 8982.9 | 9794.2 | 9780.5 | 9318.6 | 8304.2 | 6880.1 |
| 64°   | 4238.5 | 4337.3 | 4712.3 | 5545.6 | 7082.2 | 8842.0 | 9827.1 | 9819.8 | 9256.4 | 8119.5 | 6676.1 |
| 65°   | 3911.1 | 3905.6 | 4276.0 | 5176.1 | 6718.2 | 8629.8 | 9768.6 | 9758.5 | 9126.5 | 7953.9 | 6517.9 |
| 67.5° | 2823.6 | 2836.4 | 3202.2 | 3994.3 | 5461.4 | 7800.2 | 9387.2 | 9349.7 | 8614.3 | 7405.1 | 5916.0 |
| 70°   | 1710.4 | 1717.7 | 2004.9 | 2649.8 | 3920.2 | 6305.7 | 8461.5 | 8463.4 | 7830.4 | 6585.6 | 5035.2 |
| 72.5° | 900.9  | 920.2  | 1035.4 | 1504.6 | 2380.9 | 4424.2 | 6864.5 | 7027.4 | 6722.8 | 5620.6 | 3977.9 |
| 75°   | 501.2  | 504.0  | 585.4  | 741.8  | 1214.7 | 2476.0 | 5159.6 | 5206.3 | 5322.4 | 4523.9 | 2941.6 |
| 77.5° | 382.3  | 387.8  | 413.4  | 479.3  | 661.3  | 1147.9 | 3122.7 | 3356.8 | 3751.0 | 3189.4 | 1678.4 |
| 80°   | 310.1  | 315.6  | 337.5  | 376.8  | 440.0  | 544.2  | 1450.7 | 1576.9 | 2007.7 | 1415.9 | 654.9  |
| 82.5° | 241.5  | 237.8  | 266.2  | 291.8  | 320.1  | 322.0  | 595.4  | 658.6  | 817.7  | 609.2  | 283.5  |
| 85°   | 179.3  | 179.3  | 202.1  | 196.7  | 206.7  | 188.4  | 262.5  | 289.9  | 327.4  | 258.8  | 131.7  |
| 87.5° | 71.3   | 78.7   | 132.6  | 118.9  | 92.4   | 74.1   | 97.0   | 102.4  | 113.4  | 101.5  | 54.9   |
| 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: P453373

CATALOG NUMBER: GLAN-SA4B-827-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 | 2201.6 |
| 2.5°  | 2205.3 | 2208.0 | 2201.6 | 2197.0 | 2195.2 | 2192.4 | 2189.7 | 2190.6 | 2194.3 | 2197.9 | 2197.0 |
| 5°    | 2216.2 | 2217.1 | 2206.2 | 2200.7 | 2197.0 | 2193.4 | 2193.4 | 2196.1 | 2203.4 | 2208.9 | 2208.9 |
| 7.5°  | 2243.7 | 2243.7 | 2228.1 | 2218.1 | 2212.6 | 2206.2 | 2204.3 | 2205.3 | 2210.7 | 2218.1 | 2219.0 |
| 10°   | 2286.7 | 2283.0 | 2262.9 | 2247.3 | 2237.3 | 2221.7 | 2208.0 | 2200.7 | 2203.4 | 2208.0 | 2208.0 |
| 12.5° | 2338.8 | 2328.7 | 2303.1 | 2282.1 | 2257.4 | 2228.1 | 2199.8 | 2185.1 | 2184.2 | 2188.8 | 2187.0 |
| 15°   | 2394.6 | 2383.6 | 2347.9 | 2309.5 | 2266.5 | 2223.5 | 2189.7 | 2168.7 | 2152.2 | 2147.6 | 2157.7 |
| 17.5° | 2459.5 | 2436.7 | 2387.3 | 2334.2 | 2270.2 | 2214.4 | 2161.3 | 2118.4 | 2089.1 | 2080.9 | 2083.6 |
| 20°   | 2538.2 | 2508.0 | 2441.2 | 2358.0 | 2267.4 | 2181.5 | 2099.2 | 2041.5 | 1994.0 | 1979.3 | 1981.2 |
| 22.5° | 2647.0 | 2594.9 | 2497.0 | 2369.9 | 2244.6 | 2119.3 | 2004.9 | 1929.9 | 1872.3 | 1849.4 | 1863.2 |
| 25°   | 2770.5 | 2713.8 | 2550.1 | 2367.1 | 2185.1 | 2019.6 | 1893.4 | 1795.5 | 1743.3 | 1709.5 | 1716.8 |
| 27.5° | 2940.6 | 2840.0 | 2606.8 | 2342.5 | 2100.1 | 1897.9 | 1751.6 | 1659.2 | 1611.6 | 1594.3 | 1602.5 |
| 30°   | 3158.3 | 3003.8 | 2668.1 | 2275.7 | 1965.6 | 1744.3 | 1608.9 | 1548.5 | 1520.2 | 1498.2 | 1505.5 |
| 32.5° | 3315.7 | 3119.0 | 2681.8 | 2163.2 | 1820.2 | 1604.3 | 1511.9 | 1467.1 | 1436.0 | 1415.0 | 1419.6 |
| 35°   | 3428.2 | 3216.9 | 2675.4 | 2025.1 | 1668.3 | 1489.1 | 1435.1 | 1398.5 | 1348.2 | 1302.5 | 1294.2 |
| 37.5° | 3579.1 | 3339.4 | 2628.7 | 1874.1 | 1518.3 | 1411.3 | 1372.9 | 1305.2 | 1233.0 | 1171.7 | 1168.9 |
| 40°   | 3810.5 | 3483.0 | 2529.0 | 1696.7 | 1390.3 | 1353.7 | 1307.1 | 1219.2 | 1141.5 | 1092.1 | 1088.4 |
| 42.5° | 4049.2 | 3615.7 | 2393.7 | 1510.1 | 1285.1 | 1293.3 | 1236.6 | 1149.7 | 1102.2 | 1070.2 | 1066.5 |
| 45°   | 4341.0 | 3759.3 | 2247.3 | 1348.2 | 1207.4 | 1236.6 | 1175.3 | 1125.0 | 1096.7 | 1075.6 | 1070.2 |
| 47.5° | 4656.5 | 3906.5 | 2082.7 | 1202.8 | 1141.5 | 1184.5 | 1149.7 | 1126.9 | 1111.3 | 1096.7 | 1090.3 |
| 50°   | 4996.8 | 4071.2 | 1928.1 | 1085.7 | 1082.0 | 1130.5 | 1147.0 | 1138.8 | 1129.6 | 1125.0 | 1119.5 |
| 52.5° | 5370.0 | 4239.5 | 1798.2 | 1003.4 | 1029.9 | 1092.1 | 1147.9 | 1154.3 | 1154.3 | 1151.6 | 1147.9 |
| 55°   | 5622.4 | 4356.5 | 1666.5 | 936.6  | 976.9  | 1061.0 | 1146.1 | 1170.8 | 1179.9 | 1176.3 | 1172.6 |
| 57.5° | 5809.0 | 4420.6 | 1501.0 | 879.0  | 932.0  | 1030.8 | 1136.0 | 1172.6 | 1181.7 | 1186.3 | 1184.5 |
| 60°   | 5847.4 | 4361.1 | 1284.2 | 818.6  | 883.6  | 986.9  | 1099.4 | 1145.2 | 1157.0 | 1185.4 | 1188.1 |
| 62.5° | 5674.6 | 4178.2 | 1068.3 | 759.2  | 824.1  | 920.2  | 1050.0 | 1114.1 | 1137.8 | 1181.7 | 1186.3 |
| 64°   | 5462.4 | 3973.3 | 948.5  | 721.7  | 785.7  | 882.6  | 1025.3 | 1105.8 | 1136.9 | 1195.5 | 1199.1 |
| 65°   | 5306.9 | 3824.2 | 873.5  | 697.9  | 761.0  | 858.0  | 1011.6 | 1108.6 | 1145.2 | 1216.5 | 1222.0 |
| 67.5° | 4734.3 | 3311.1 | 722.6  | 642.1  | 702.5  | 815.9  | 1014.4 | 1131.4 | 1143.3 | 1224.7 | 1223.8 |
| 70°   | 3917.5 | 2636.1 | 605.5  | 590.9  | 645.8  | 782.0  | 1003.4 | 1094.9 | 1095.8 | 1149.7 | 1136.9 |
| 72.5° | 2933.3 | 1948.2 | 525.0  | 537.8  | 582.6  | 701.5  | 947.6  | 1045.5 | 1029.9 | 1037.2 | 1024.4 |
| 75°   | 2015.0 | 1288.8 | 451.8  | 481.1  | 516.8  | 620.1  | 868.9  | 949.4  | 924.7  | 915.6  | 906.4  |
| 77.5° | 1075.6 | 712.5  | 375.9  | 425.3  | 449.1  | 536.0  | 758.3  | 836.0  | 810.4  | 774.7  | 762.8  |
| 80°   | 435.4  | 335.7  | 302.8  | 352.1  | 365.9  | 431.7  | 631.1  | 679.6  | 660.4  | 598.2  | 578.1  |
| 82.5° | 218.6  | 201.2  | 237.8  | 277.1  | 278.1  | 308.2  | 469.2  | 515.0  | 472.0  | 396.0  | 378.7  |
| 85°   | 114.3  | 118.0  | 163.7  | 194.8  | 172.0  | 166.5  | 281.7  | 311.9  | 286.3  | 248.8  | 224.1  |
| 87.5° | 41.2   | 47.6   | 86.0   | 85.1   | 60.4   | 32.0   | 62.2   | 30.2   | 16.5   | 10.1   | 12.8   |
| 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)