

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: P533402

Luminaire Tested: **GLAN-SA8D-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56368 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

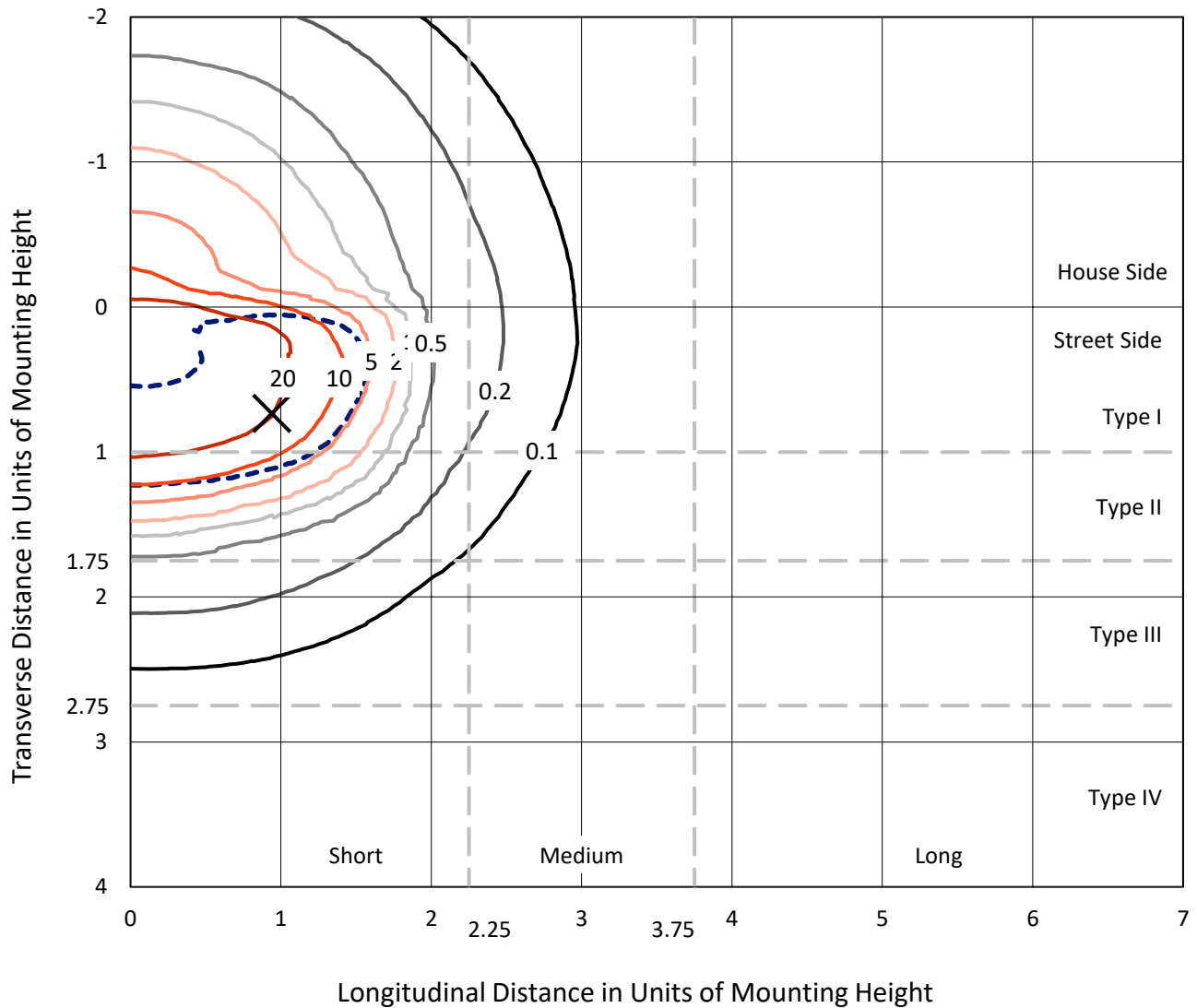
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

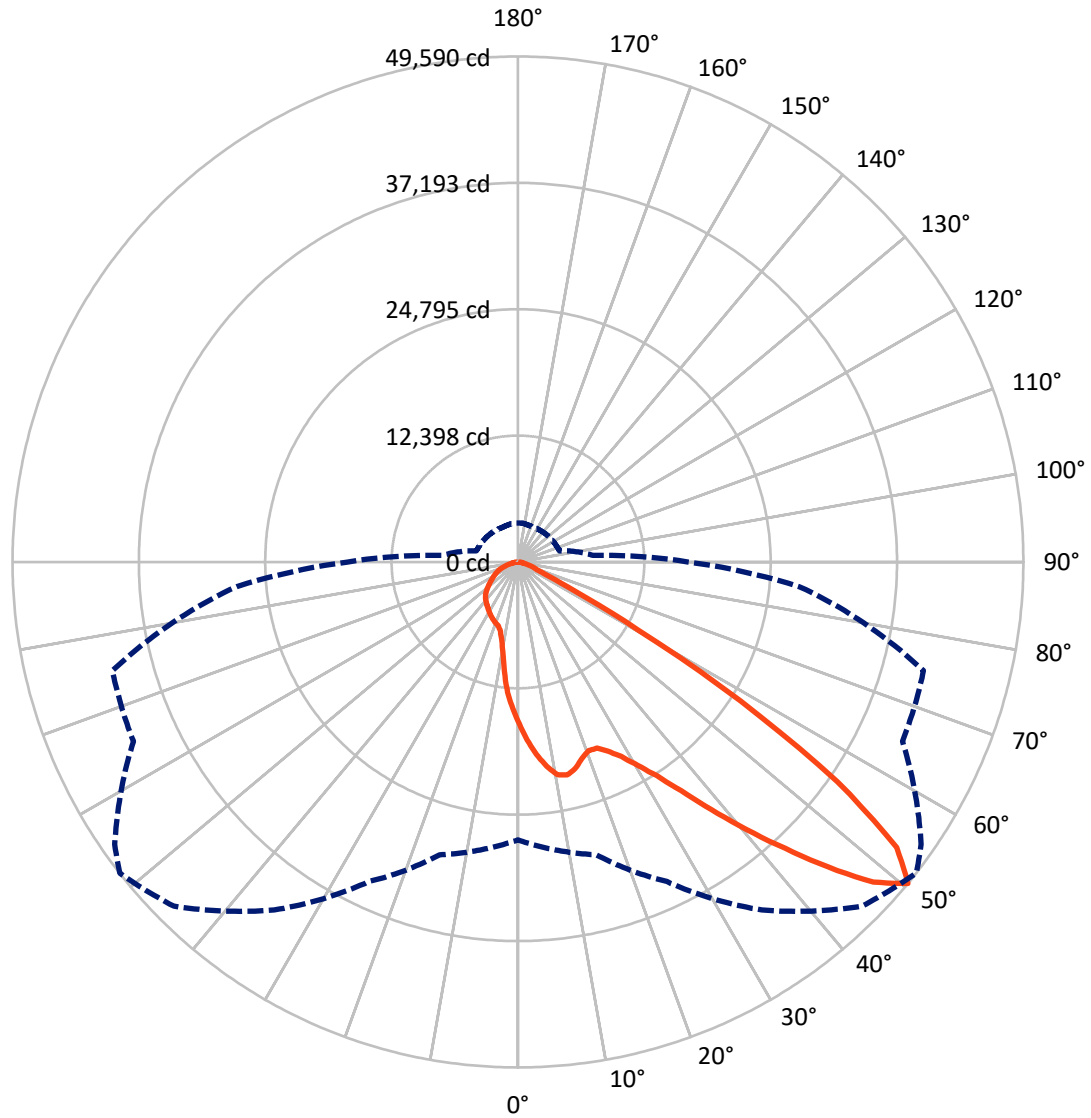
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10595.9 | 0.0 | 10595.9 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 45772.2 | 0.0 | 45772.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 56368.0 | 0.0 | 56368.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1464.5 | 2.6 |
| 10°-20° | 3925.2 | 7.0 |
| 20°-30° | 6611.9 | 11.7 |
| 30°-40° | 11095.3 | 19.7 |
| 40°-50° | 16973.1 | 30.1 |
| 50°-60° | 12374.8 | 22.0 |
| 60°-70° | 2754.0 | 4.9 |
| 70°-80° | 993.3 | 1.8 |
| 80°-90° | 175.8 | 0.3 |
| 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° | 56368.0 | 100.0 |
| 0°-180° | 56368.0 | 100.0 |

Coefficient of Utilization



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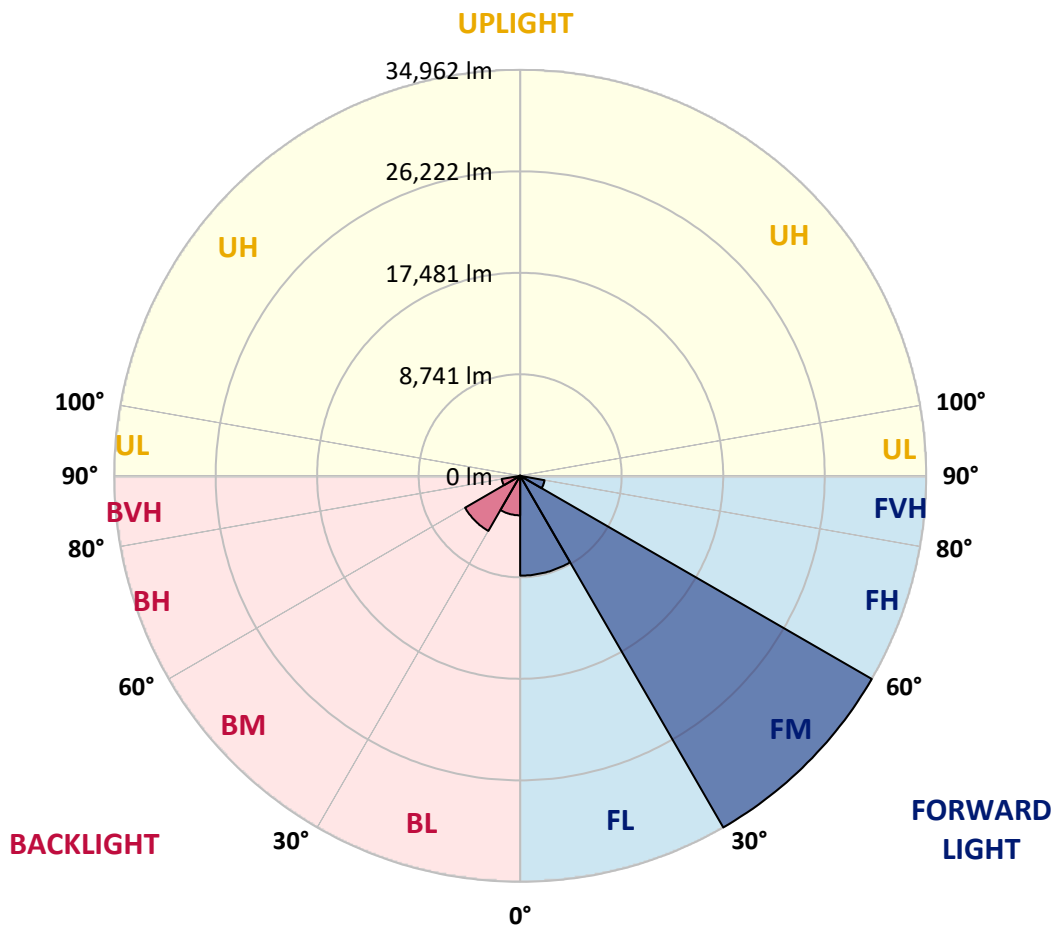
CATALOG NUMBER: GLAN-SA8D-750-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 8598.0 | 15.3 | | | |
| FM (30°-60°) | 34962.3 | 62.0 | | | |
| FH (60°-80°) | 2133.0 | 3.8 | | | G2/5000 |
| FVH (80°-90°) | 78.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 3403.6 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 5480.9 | 9.7 | B4/8500 | | |
| BH (60°-80°) | 1614.3 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 97.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 |
| 2.5° | 18708.4 | 18348.3 | 18389.1 | 18130.9 | 17852.4 | 17770.9 | 17485.6 | 17213.9 | 17010.1 | 16575.3 | 16174.5 |
| 5° | 20447.4 | 20338.7 | 20175.7 | 19971.9 | 19761.3 | 19245.0 | 18952.9 | 18613.3 | 17866.0 | 17193.5 | 16527.8 |
| 7.5° | 20698.8 | 20678.4 | 20766.7 | 20766.7 | 20841.4 | 20644.4 | 20230.0 | 19992.3 | 19197.5 | 18103.8 | 16867.4 |
| 10° | 18932.5 | 18993.7 | 19421.6 | 19978.7 | 20753.1 | 21289.8 | 21221.8 | 21160.7 | 20291.2 | 18796.7 | 17268.2 |
| 12.5° | 17526.4 | 17390.5 | 17641.8 | 18117.4 | 19279.0 | 20576.5 | 21452.8 | 21459.6 | 21235.4 | 19904.0 | 17560.3 |
| 15° | 16731.6 | 16826.7 | 16894.6 | 17118.8 | 17995.1 | 19496.4 | 21038.4 | 21493.6 | 22478.6 | 20685.2 | 18022.3 |
| 17.5° | 17241.0 | 16921.8 | 16908.2 | 16962.5 | 17410.9 | 18538.5 | 20270.8 | 21052.0 | 23157.9 | 21690.6 | 18592.9 |
| 20° | 17906.8 | 17900.0 | 17709.8 | 17641.8 | 17635.0 | 18640.4 | 19768.1 | 20827.8 | 23517.9 | 22994.9 | 19170.3 |
| 22.5° | 19075.2 | 19075.2 | 18762.7 | 18613.3 | 18294.0 | 19116.0 | 19836.0 | 20556.1 | 24115.7 | 23891.5 | 19448.8 |
| 25° | 21031.6 | 20712.3 | 20175.7 | 19808.9 | 19625.4 | 19917.5 | 20556.1 | 21201.5 | 24638.8 | 24842.6 | 20026.2 |
| 27.5° | 22838.6 | 22335.9 | 22071.0 | 21439.2 | 21194.7 | 21024.8 | 21609.0 | 22261.2 | 25250.2 | 26323.5 | 20338.7 |
| 30° | 24890.1 | 24801.8 | 24326.3 | 23511.1 | 22906.5 | 22594.1 | 23130.7 | 23776.1 | 26371.1 | 27838.4 | 21058.8 |
| 32.5° | 28558.5 | 27756.9 | 27111.5 | 26112.9 | 25127.9 | 24462.2 | 24992.0 | 25420.0 | 28232.4 | 29421.2 | 21846.8 |
| 35° | 32518.9 | 32260.7 | 31146.6 | 29346.5 | 27838.4 | 27240.6 | 27553.1 | 27872.3 | 30399.4 | 31839.5 | 23171.5 |
| 37.5° | 36411.3 | 36058.1 | 35141.0 | 33626.1 | 31792.0 | 30576.0 | 30800.2 | 31173.8 | 32831.3 | 35100.3 | 24788.2 |
| 40° | 39210.1 | 38775.4 | 38313.4 | 38089.3 | 36268.7 | 34604.4 | 34475.3 | 34570.4 | 36119.2 | 38157.2 | 26581.6 |
| 42.5° | 39413.9 | 39950.6 | 40093.2 | 40996.7 | 40568.8 | 39203.3 | 38408.5 | 38428.9 | 39257.7 | 41180.1 | 28395.4 |
| 45° | 38986.0 | 38490.1 | 39543.0 | 42008.9 | 43421.9 | 44060.4 | 42722.2 | 42552.4 | 41200.5 | 42932.8 | 29298.9 |
| 47.5° | 34495.7 | 34631.5 | 36411.3 | 40310.6 | 44393.3 | 47246.4 | 46934.0 | 46370.1 | 42239.9 | 42871.6 | 29156.2 |
| 50° | 27267.8 | 28089.7 | 29740.5 | 34597.6 | 41676.0 | 47749.1 | 49590.1 | 48285.8 | 41621.7 | 41186.9 | 27702.5 |
| 52.5° | 18158.1 | 18497.8 | 19584.7 | 25854.8 | 33510.7 | 42681.4 | 46533.2 | 46832.1 | 41051.1 | 38979.2 | 25861.6 |
| 55° | 8083.9 | 8056.7 | 9585.2 | 13504.8 | 21024.8 | 32478.1 | 38021.3 | 39841.9 | 38856.9 | 36730.6 | 24068.2 |
| 57.5° | 3423.8 | 3539.2 | 4164.2 | 5835.3 | 10339.2 | 19598.3 | 25759.7 | 27356.1 | 29883.1 | 30161.6 | 18463.8 |
| 60° | 2316.5 | 2330.1 | 2499.9 | 2921.1 | 4327.2 | 9204.7 | 13511.6 | 15427.3 | 17234.3 | 17112.0 | 9795.7 |
| 62.5° | 1820.6 | 1868.1 | 1997.2 | 2167.0 | 2567.8 | 4177.8 | 6045.9 | 7112.4 | 7227.9 | 6079.9 | 3715.9 |
| 65° | 1555.6 | 1562.4 | 1691.5 | 1834.2 | 2010.8 | 2432.0 | 2914.3 | 2968.6 | 3002.6 | 2893.9 | 2730.9 |
| 67.5° | 1283.9 | 1297.5 | 1399.4 | 1562.4 | 1725.5 | 1861.3 | 1997.2 | 2065.1 | 2221.4 | 2527.1 | 2486.3 |
| 70° | 1019.0 | 1039.4 | 1127.7 | 1263.5 | 1413.0 | 1494.5 | 1664.3 | 1725.5 | 1868.1 | 2105.9 | 2201.0 |
| 72.5° | 774.4 | 781.2 | 855.9 | 951.0 | 1086.9 | 1168.4 | 1311.1 | 1379.0 | 1474.1 | 1677.9 | 1766.2 |
| 75° | 557.0 | 577.4 | 631.8 | 679.3 | 699.7 | 754.0 | 889.9 | 964.6 | 1100.5 | 1188.8 | 1195.6 |
| 77.5° | 292.1 | 305.7 | 319.3 | 319.3 | 387.2 | 489.1 | 577.4 | 618.2 | 713.3 | 781.2 | 747.2 |
| 80° | 115.5 | 122.3 | 156.2 | 210.6 | 271.7 | 353.2 | 414.4 | 434.8 | 516.3 | 557.0 | 577.4 |
| 82.5° | 67.9 | 74.7 | 101.9 | 149.4 | 197.0 | 251.3 | 298.9 | 319.3 | 373.6 | 421.2 | 434.8 |
| 85° | 34.0 | 40.8 | 61.1 | 95.1 | 129.1 | 156.2 | 149.4 | 142.7 | 142.7 | 135.9 | 142.7 |
| 87.5° | 13.6 | 13.6 | 20.4 | 20.4 | 20.4 | 27.2 | 34.0 | 34.0 | 34.0 | 40.8 | 40.8 |
| 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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CATALOG NUMBER: GLAN-SA8D-750-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 | 15889.2 |
| 2.5° | 15909.6 | 15637.9 | 15386.5 | 14924.6 | 14421.9 | 14279.2 | 13695.0 | 13484.4 | 13335.0 | 13158.4 | 13104.0 |
| 5° | 15991.1 | 15631.1 | 14822.7 | 13892.0 | 13151.6 | 12200.5 | 11575.5 | 10903.0 | 10413.9 | 10291.6 | 10257.7 |
| 7.5° | 16160.9 | 15542.8 | 14150.2 | 12744.0 | 11229.1 | 9938.4 | 8953.4 | 8423.5 | 7954.8 | 7927.6 | 7880.1 |
| 10° | 16351.1 | 15277.8 | 13416.5 | 11208.7 | 9272.7 | 8077.1 | 7486.1 | 7255.1 | 7139.6 | 7112.4 | 7098.9 |
| 12.5° | 16507.4 | 15223.5 | 12594.5 | 9714.2 | 7886.9 | 7166.8 | 6990.2 | 6969.8 | 7017.3 | 7030.9 | 7058.1 |
| 15° | 16575.3 | 15006.1 | 11602.7 | 8376.0 | 7024.1 | 6759.2 | 6833.9 | 6915.4 | 6949.4 | 7037.7 | 6969.8 |
| 17.5° | 16704.4 | 14727.6 | 10380.0 | 7316.2 | 6541.8 | 6589.4 | 6718.4 | 6813.5 | 6867.9 | 6929.0 | 6840.7 |
| 20° | 16772.3 | 14476.2 | 9231.9 | 6684.5 | 6372.0 | 6460.3 | 6636.9 | 6711.6 | 6779.6 | 6806.7 | 6704.9 |
| 22.5° | 16711.2 | 13959.9 | 8219.7 | 6175.0 | 6208.9 | 6324.4 | 6480.7 | 6562.2 | 6521.4 | 6412.7 | 6351.6 |
| 25° | 16548.1 | 13233.1 | 7166.8 | 5848.9 | 5978.0 | 6181.8 | 6304.1 | 6242.9 | 6168.2 | 6107.1 | 6086.7 |
| 27.5° | 16541.3 | 12343.2 | 6406.0 | 5550.0 | 5781.0 | 6059.5 | 6018.7 | 5964.4 | 5998.4 | 5950.8 | 5896.5 |
| 30° | 16575.3 | 11480.4 | 5781.0 | 5380.2 | 5638.3 | 5774.2 | 5821.7 | 5767.4 | 5808.2 | 5719.8 | 5747.0 |
| 32.5° | 16398.7 | 10638.1 | 5373.4 | 5183.2 | 5468.5 | 5461.7 | 5617.9 | 5658.7 | 5563.6 | 5380.2 | 5407.4 |
| 35° | 16473.4 | 9958.8 | 5026.9 | 5094.9 | 5278.3 | 5278.3 | 5400.6 | 5353.0 | 5101.7 | 4993.0 | 5020.1 |
| 37.5° | 16989.7 | 9293.0 | 4857.1 | 4972.6 | 5094.9 | 5149.2 | 5108.5 | 4904.7 | 4843.5 | 4843.5 | 4857.1 |
| 40° | 17478.8 | 8722.4 | 4755.2 | 4945.4 | 4925.0 | 4959.0 | 4660.1 | 4680.5 | 4680.5 | 4687.3 | 4653.3 |
| 42.5° | 17913.6 | 8335.2 | 4673.7 | 4782.4 | 4816.4 | 4639.7 | 4456.3 | 4435.9 | 4483.5 | 4476.7 | 4449.5 |
| 45° | 18069.8 | 8015.9 | 4558.2 | 4599.0 | 4626.1 | 4334.0 | 4245.7 | 4205.0 | 4259.3 | 4279.7 | 4306.9 |
| 47.5° | 17472.0 | 7751.0 | 4429.1 | 4347.6 | 4293.3 | 4103.1 | 3987.6 | 3912.9 | 3980.8 | 4096.3 | 4123.4 |
| 50° | 16704.4 | 7404.5 | 4225.3 | 4069.1 | 3953.6 | 3872.1 | 3790.6 | 3715.9 | 3763.4 | 3844.9 | 3824.5 |
| 52.5° | 15569.9 | 6861.1 | 3967.2 | 3804.2 | 3607.2 | 3627.5 | 3552.8 | 3512.1 | 3539.2 | 3539.2 | 3518.9 |
| 55° | 13953.2 | 5638.3 | 3532.4 | 3417.0 | 3253.9 | 3308.3 | 3321.9 | 3267.5 | 3213.2 | 3260.7 | 3220.0 |
| 57.5° | 9524.0 | 3980.8 | 3152.0 | 3152.0 | 2989.0 | 3063.7 | 3056.9 | 2927.9 | 2798.8 | 2812.4 | 2785.2 |
| 60° | 5509.3 | 3172.4 | 2907.5 | 2880.3 | 2710.5 | 2771.6 | 2785.2 | 2696.9 | 2499.9 | 2513.5 | 2486.3 |
| 62.5° | 3131.6 | 2710.5 | 2540.6 | 2499.9 | 2465.9 | 2520.3 | 2520.3 | 2404.8 | 2235.0 | 2248.5 | 2221.4 |
| 65° | 2662.9 | 2513.5 | 2268.9 | 2262.1 | 2248.5 | 2262.1 | 2207.8 | 2085.5 | 1936.1 | 1874.9 | 1881.7 |
| 67.5° | 2418.4 | 2323.3 | 2085.5 | 2024.4 | 1983.6 | 1976.8 | 1874.9 | 1759.4 | 1691.5 | 1637.2 | 1630.4 |
| 70° | 2119.5 | 2044.7 | 1868.1 | 1786.6 | 1745.8 | 1650.7 | 1548.8 | 1474.1 | 1379.0 | 1351.8 | 1379.0 |
| 72.5° | 1677.9 | 1671.1 | 1603.2 | 1514.9 | 1426.6 | 1351.8 | 1263.5 | 1161.6 | 1073.3 | 1052.9 | 1005.4 |
| 75° | 1161.6 | 1175.2 | 1188.8 | 1175.2 | 1100.5 | 1005.4 | 903.5 | 822.0 | 713.3 | 652.1 | 638.6 |
| 77.5° | 760.8 | 781.2 | 801.6 | 774.4 | 726.9 | 638.6 | 570.6 | 468.7 | 387.2 | 339.7 | 332.9 |
| 80° | 557.0 | 584.2 | 597.8 | 577.4 | 523.1 | 455.1 | 380.4 | 298.9 | 237.8 | 197.0 | 197.0 |
| 82.5° | 428.0 | 455.1 | 468.7 | 434.8 | 380.4 | 326.1 | 271.7 | 210.6 | 163.0 | 129.1 | 122.3 |
| 85° | 149.4 | 142.7 | 169.8 | 176.6 | 210.6 | 197.0 | 163.0 | 122.3 | 95.1 | 67.9 | 61.1 |
| 87.5° | 40.8 | 40.8 | 47.6 | 47.6 | 40.8 | 34.0 | 34.0 | 34.0 | 27.2 | 20.4 | 20.4 |
| 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)