

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: P654347

Luminaire Tested: **GLAN-SA4B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P654347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18944.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

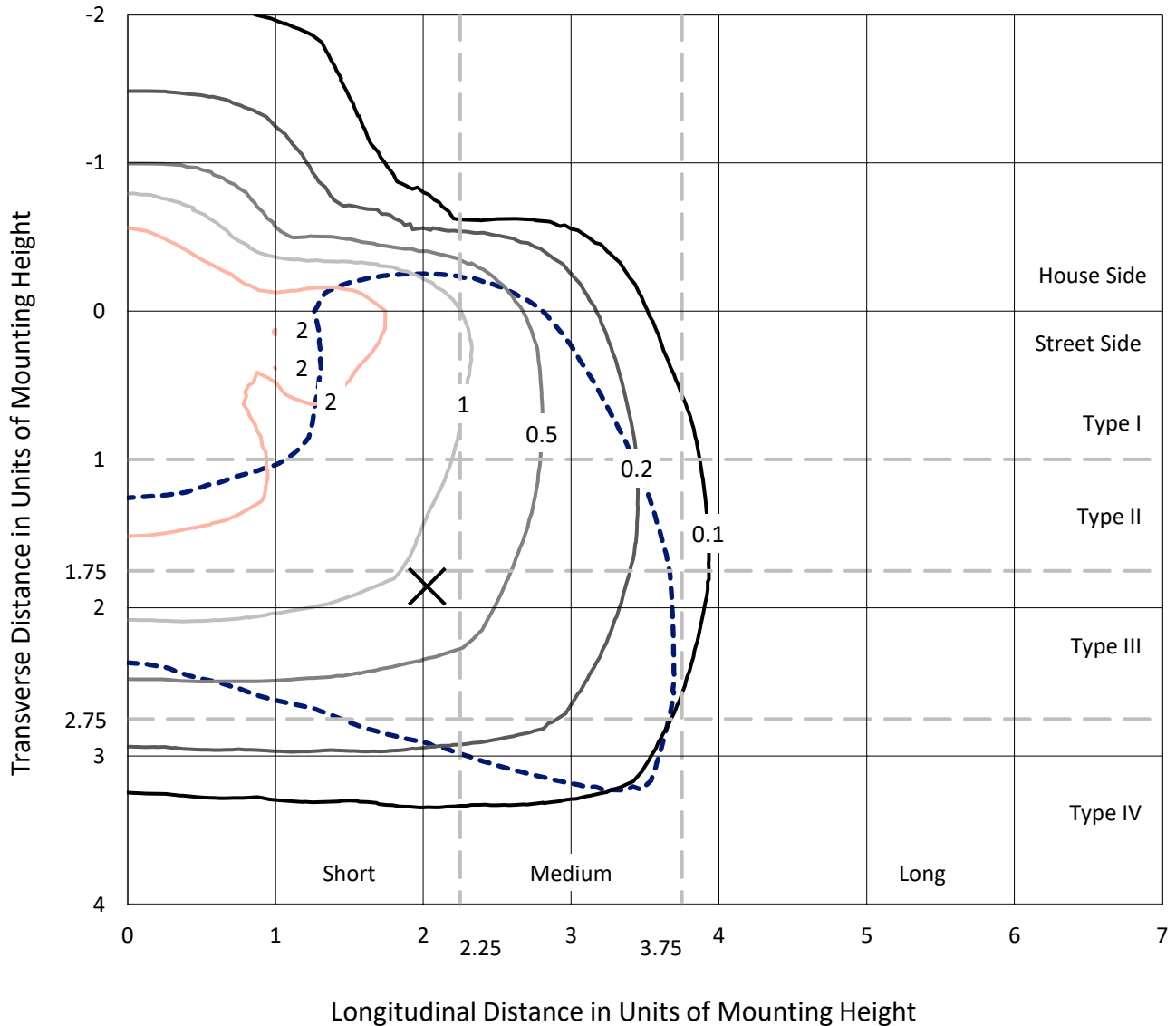
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

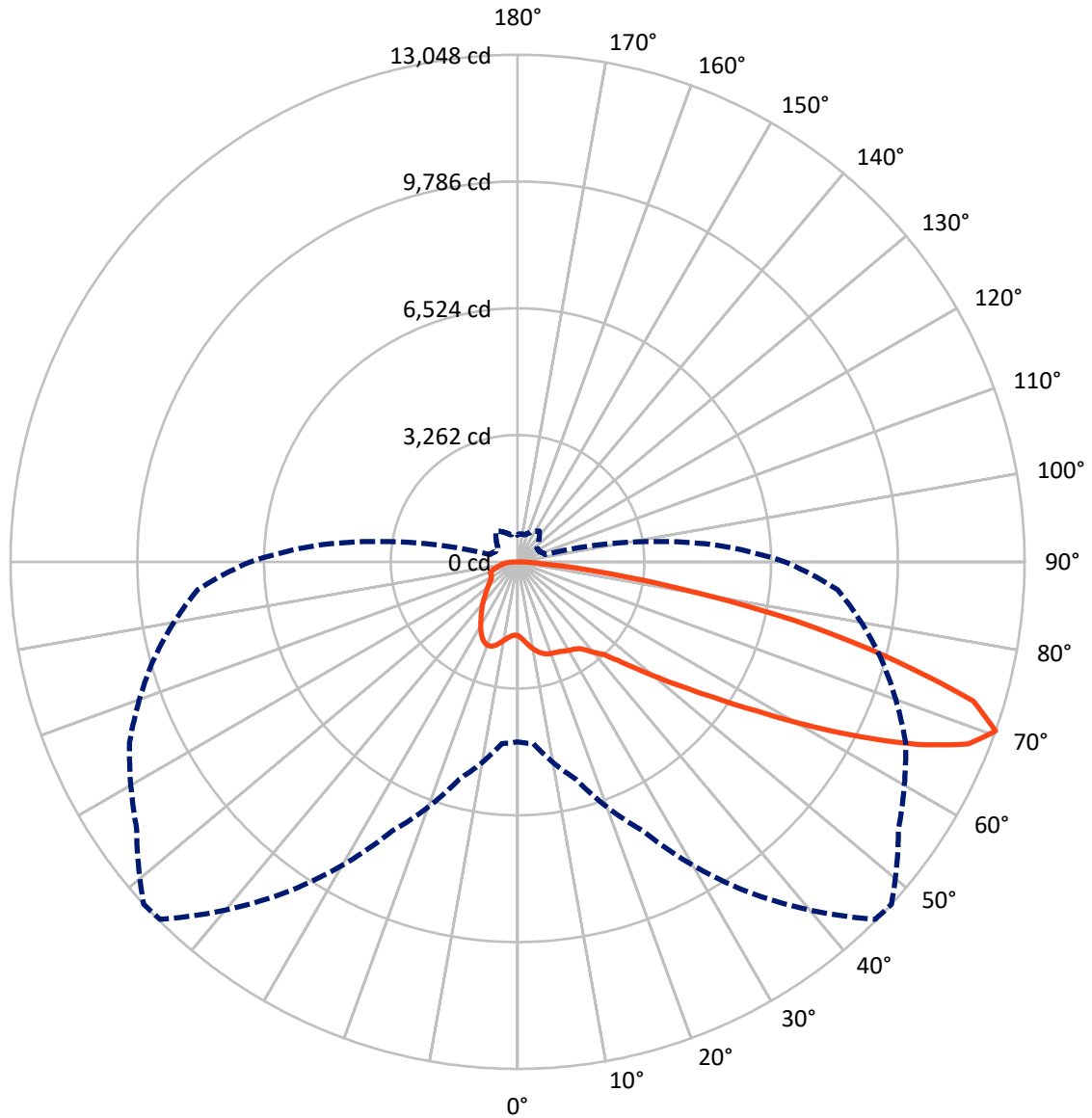
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4289.4 | 0.0 | 4289.4 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 14655.0 | 0.0 | 14655.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 18944.4 | 0.0 | 18944.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 196.0 | 1.0 |
| 10°-20° | 655.4 | 3.5 |
| 20°-30° | 1089.9 | 5.8 |
| 30°-40° | 1544.7 | 8.2 |
| 40°-50° | 2280.3 | 12.0 |
| 50°-60° | 3949.6 | 20.8 |
| 60°-70° | 5578.9 | 29.4 |
| 70°-80° | 3207.1 | 16.9 |
| 80°-90° | 442.5 | 2.3 |
| 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° | 18944.4 | 100.0 |
| 0°-180° | 18944.4 | 100.0 |

Coefficient of Utilization

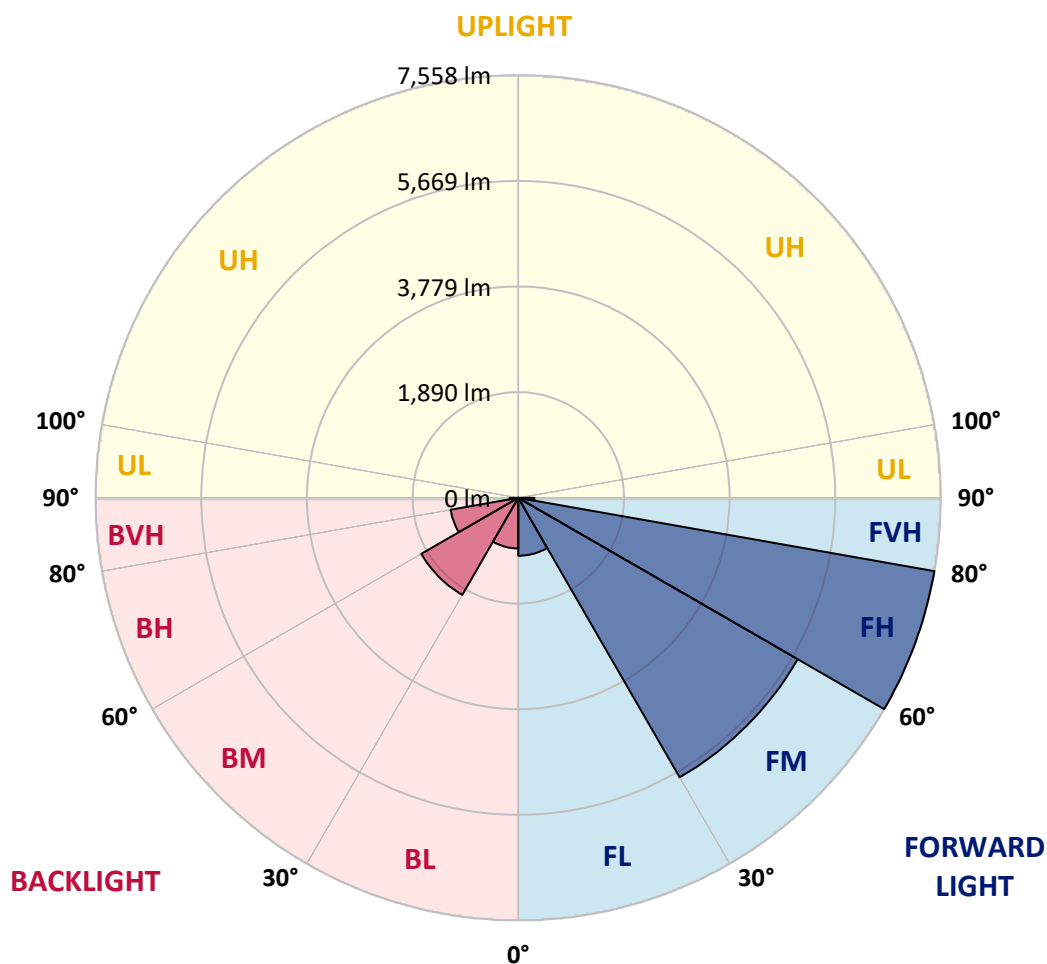


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1035.9 | 5.5 | | | |
| FM (30°-60°) | 5772.0 | 30.5 | | | |
| FH (60°-80°) | 7558.0 | 39.9 | | | G4/12000 |
| FVH (80°-90°) | 289.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 905.3 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 2002.6 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1228.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 153.4 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 |
| 2.5° | 2024.5 | 2017.4 | 2016.4 | 2001.2 | 1993.0 | 1977.8 | 1971.7 | 1957.5 | 1940.3 | 1923.1 | 1906.9 |
| 5° | 2183.6 | 2183.6 | 2176.5 | 2155.2 | 2121.8 | 2087.3 | 2072.1 | 2044.7 | 1996.0 | 1956.5 | 1923.1 |
| 7.5° | 2346.8 | 2348.8 | 2334.6 | 2303.2 | 2255.6 | 2199.8 | 2185.7 | 2145.1 | 2076.2 | 2018.4 | 1968.7 |
| 10° | 2487.8 | 2487.8 | 2468.5 | 2425.9 | 2366.1 | 2305.3 | 2291.1 | 2245.5 | 2168.4 | 2096.4 | 2031.5 |
| 12.5° | 2595.2 | 2595.2 | 2569.8 | 2514.1 | 2449.2 | 2394.5 | 2378.3 | 2334.6 | 2262.7 | 2182.6 | 2100.5 |
| 15° | 2665.1 | 2660.1 | 2631.7 | 2568.8 | 2506.0 | 2458.3 | 2447.1 | 2410.7 | 2344.8 | 2263.7 | 2171.5 |
| 17.5° | 2668.2 | 2666.1 | 2638.8 | 2586.1 | 2531.3 | 2498.9 | 2491.8 | 2467.5 | 2415.8 | 2338.7 | 2241.3 |
| 20° | 2609.4 | 2613.4 | 2595.2 | 2557.6 | 2531.3 | 2517.1 | 2514.1 | 2506.0 | 2469.5 | 2397.5 | 2300.2 |
| 22.5° | 2546.5 | 2553.6 | 2536.4 | 2516.1 | 2514.1 | 2528.3 | 2530.3 | 2532.3 | 2509.0 | 2439.1 | 2349.8 |
| 25° | 2531.3 | 2536.4 | 2519.1 | 2500.9 | 2512.1 | 2549.6 | 2557.6 | 2565.8 | 2547.6 | 2488.8 | 2408.6 |
| 27.5° | 2608.4 | 2604.3 | 2570.9 | 2531.3 | 2538.4 | 2589.1 | 2600.3 | 2609.4 | 2600.3 | 2549.6 | 2481.6 |
| 30° | 2826.3 | 2813.1 | 2746.2 | 2630.6 | 2594.1 | 2629.6 | 2640.8 | 2666.1 | 2666.1 | 2628.6 | 2560.8 |
| 32.5° | 3191.3 | 3165.9 | 3043.2 | 2816.2 | 2689.4 | 2668.2 | 2679.3 | 2720.9 | 2742.2 | 2712.8 | 2638.8 |
| 35° | 3634.3 | 3607.9 | 3432.5 | 3127.4 | 2863.9 | 2745.2 | 2742.2 | 2788.8 | 2845.6 | 2779.7 | 2683.4 |
| 37.5° | 4079.3 | 4051.9 | 3841.1 | 3498.5 | 3118.3 | 2907.4 | 2889.2 | 2905.4 | 2929.7 | 2809.1 | 2745.2 |
| 40° | 4524.3 | 4491.9 | 4307.4 | 3913.1 | 3429.5 | 3122.3 | 3074.7 | 3001.7 | 2991.5 | 2905.4 | 2864.9 |
| 42.5° | 4965.3 | 4935.9 | 4842.6 | 4378.3 | 3802.6 | 3332.2 | 3259.2 | 3133.5 | 3172.0 | 3120.3 | 3084.8 |
| 45° | 5410.3 | 5412.4 | 5313.0 | 4900.4 | 4252.7 | 3719.4 | 3621.1 | 3424.5 | 3515.6 | 3496.4 | 3516.6 |
| 47.5° | 5804.7 | 5799.6 | 5764.1 | 5407.3 | 4811.3 | 4218.2 | 4091.5 | 3863.4 | 4019.5 | 4090.5 | 4245.5 |
| 50° | 6186.9 | 6183.9 | 6185.9 | 5982.1 | 5460.0 | 4811.3 | 4671.3 | 4432.1 | 4783.9 | 5030.2 | 5308.0 |
| 52.5° | 6734.3 | 6751.5 | 6628.8 | 6575.2 | 6248.7 | 5511.7 | 5357.7 | 5110.3 | 5687.1 | 6075.4 | 6617.7 |
| 55° | 7283.7 | 7269.6 | 7173.2 | 7229.0 | 7073.9 | 6341.0 | 6179.8 | 5983.1 | 6692.8 | 7117.5 | 7932.6 |
| 57.5° | 7607.2 | 7612.2 | 7710.5 | 7983.3 | 8092.7 | 7375.0 | 7229.0 | 7076.9 | 7823.1 | 8124.1 | 9102.4 |
| 60° | 7898.1 | 7921.4 | 8204.2 | 8719.2 | 9016.3 | 8645.2 | 8515.5 | 8367.4 | 8860.1 | 8979.8 | 10118.2 |
| 62.5° | 7989.3 | 8061.3 | 8555.0 | 9325.4 | 9916.5 | 10078.6 | 9917.5 | 9591.0 | 9847.5 | 9800.9 | 10806.5 |
| 65° | 7534.2 | 7632.5 | 8517.5 | 9552.5 | 10720.4 | 11439.1 | 11336.7 | 10730.5 | 10688.9 | 10408.1 | 10919.0 |
| 67.5° | 6335.9 | 6434.2 | 7570.7 | 9076.1 | 11052.8 | 12617.1 | 12514.7 | 11561.7 | 11199.8 | 10464.9 | 10067.5 |
| 70° | 4635.8 | 4697.7 | 5784.4 | 7641.6 | 10384.8 | 13012.5 | 13047.9 | 11967.3 | 11017.4 | 9693.5 | 8266.1 |
| 72.5° | 2671.2 | 2808.1 | 3569.4 | 5375.9 | 8484.0 | 12012.8 | 12259.3 | 11123.8 | 9863.8 | 8086.6 | 5779.4 |
| 75° | 1148.6 | 1151.6 | 1650.4 | 2965.2 | 5745.9 | 9655.9 | 9894.2 | 9221.1 | 7746.0 | 5591.8 | 3085.9 |
| 77.5° | 546.4 | 556.6 | 725.9 | 1324.0 | 3162.9 | 6671.5 | 7314.2 | 6514.3 | 4954.2 | 2686.4 | 1165.8 |
| 80° | 354.8 | 361.9 | 444.0 | 656.9 | 1551.1 | 3868.4 | 4316.5 | 3757.9 | 2185.7 | 960.0 | 502.8 |
| 82.5° | 214.9 | 217.0 | 297.0 | 401.4 | 853.6 | 1751.7 | 2065.0 | 1631.1 | 932.7 | 574.8 | 296.0 |
| 85° | 130.8 | 131.8 | 180.5 | 248.3 | 518.1 | 605.2 | 621.4 | 616.4 | 547.4 | 376.1 | 158.1 |
| 87.5° | 62.8 | 64.8 | 93.3 | 117.6 | 203.8 | 187.5 | 177.4 | 205.8 | 258.5 | 202.8 | 68.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 | 1901.8 |
| 2.5° | 1899.7 | 1896.7 | 1889.6 | 1886.6 | 1884.5 | 1885.6 | 1884.5 | 1884.5 | 1885.6 | 1885.6 | 1885.6 |
| 5° | 1908.9 | 1903.9 | 1892.7 | 1892.7 | 1898.7 | 1912.9 | 1926.1 | 1936.2 | 1947.4 | 1946.4 | 1946.4 |
| 7.5° | 1948.4 | 1939.3 | 1926.1 | 1930.2 | 1945.4 | 1967.7 | 1991.0 | 2013.3 | 2035.6 | 2037.7 | 2036.6 |
| 10° | 2006.2 | 1997.0 | 1982.9 | 1988.0 | 2012.3 | 2045.7 | 2075.2 | 2107.5 | 2131.9 | 2139.0 | 2137.0 |
| 12.5° | 2072.1 | 2053.9 | 2041.7 | 2055.9 | 2094.4 | 2139.0 | 2167.4 | 2191.7 | 2209.0 | 2219.1 | 2215.0 |
| 15° | 2139.0 | 2121.8 | 2107.5 | 2137.0 | 2183.6 | 2225.2 | 2239.3 | 2243.5 | 2246.5 | 2256.6 | 2254.6 |
| 17.5° | 2203.8 | 2180.5 | 2175.5 | 2214.0 | 2258.6 | 2276.8 | 2268.8 | 2251.5 | 2238.3 | 2246.5 | 2245.5 |
| 20° | 2261.7 | 2243.5 | 2241.3 | 2280.0 | 2297.1 | 2280.0 | 2245.5 | 2215.0 | 2191.7 | 2193.7 | 2192.7 |
| 22.5° | 2316.4 | 2302.2 | 2304.3 | 2320.5 | 2293.1 | 2234.3 | 2177.5 | 2136.0 | 2110.7 | 2115.7 | 2118.7 |
| 25° | 2377.3 | 2363.0 | 2368.1 | 2341.8 | 2251.5 | 2149.2 | 2067.0 | 2031.5 | 2021.4 | 2031.5 | 2038.7 |
| 27.5° | 2456.3 | 2447.1 | 2444.1 | 2342.8 | 2177.5 | 2023.4 | 1930.2 | 1917.0 | 1926.1 | 1948.4 | 1959.5 |
| 30° | 2541.4 | 2541.4 | 2525.3 | 2325.5 | 2076.2 | 1872.4 | 1791.3 | 1793.3 | 1824.7 | 1856.2 | 1867.4 |
| 32.5° | 2623.6 | 2640.8 | 2590.1 | 2278.9 | 1945.4 | 1725.4 | 1663.6 | 1665.6 | 1692.9 | 1731.5 | 1741.6 |
| 35° | 2691.5 | 2741.2 | 2645.9 | 2193.7 | 1791.3 | 1601.7 | 1555.1 | 1527.7 | 1528.8 | 1558.1 | 1566.3 |
| 37.5° | 2784.7 | 2877.0 | 2678.3 | 2067.0 | 1627.1 | 1496.3 | 1443.6 | 1395.9 | 1364.5 | 1352.3 | 1352.3 |
| 40° | 2946.9 | 3082.8 | 2686.4 | 1879.5 | 1471.9 | 1395.9 | 1320.9 | 1264.1 | 1203.3 | 1148.6 | 1138.5 |
| 42.5° | 3221.7 | 3393.0 | 2670.2 | 1663.6 | 1332.1 | 1285.5 | 1212.5 | 1142.5 | 1058.3 | 981.3 | 975.2 |
| 45° | 3708.3 | 3796.4 | 2626.6 | 1439.5 | 1207.3 | 1179.0 | 1108.0 | 1032.0 | 942.8 | 873.9 | 868.8 |
| 47.5° | 4487.8 | 4363.2 | 2568.8 | 1240.8 | 1093.8 | 1085.7 | 1031.0 | 942.8 | 853.6 | 805.9 | 800.9 |
| 50° | 5626.3 | 5255.2 | 2560.8 | 1096.8 | 1002.6 | 1006.7 | 962.0 | 880.9 | 802.9 | 763.4 | 757.2 |
| 52.5° | 6996.9 | 6332.9 | 2614.4 | 995.5 | 922.5 | 937.7 | 915.4 | 840.4 | 771.4 | 738.0 | 731.9 |
| 55° | 8326.9 | 7302.0 | 2646.9 | 916.4 | 847.5 | 875.9 | 878.9 | 816.1 | 753.2 | 719.7 | 715.7 |
| 57.5° | 9406.6 | 8031.9 | 2502.9 | 844.4 | 782.6 | 826.2 | 848.5 | 801.9 | 744.1 | 718.7 | 714.7 |
| 60° | 10157.8 | 8376.6 | 2093.4 | 780.6 | 734.9 | 786.7 | 837.4 | 802.9 | 766.4 | 769.4 | 771.4 |
| 62.5° | 10396.9 | 8223.5 | 1570.3 | 732.9 | 702.5 | 773.5 | 855.6 | 844.4 | 806.9 | 830.2 | 834.3 |
| 65° | 10000.6 | 7591.0 | 1138.5 | 695.4 | 674.1 | 782.6 | 910.4 | 874.9 | 792.7 | 810.0 | 810.0 |
| 67.5° | 8673.6 | 6539.7 | 886.0 | 660.9 | 641.7 | 799.9 | 965.0 | 871.8 | 759.3 | 779.6 | 761.4 |
| 70° | 6880.3 | 5058.6 | 738.0 | 622.4 | 607.2 | 774.5 | 970.2 | 840.4 | 719.7 | 723.8 | 689.4 |
| 72.5° | 4565.9 | 3326.1 | 634.6 | 585.9 | 554.6 | 696.4 | 928.6 | 799.9 | 681.2 | 657.9 | 623.4 |
| 75° | 2237.3 | 1658.5 | 553.5 | 540.3 | 485.6 | 606.2 | 871.8 | 761.4 | 639.7 | 603.2 | 583.9 |
| 77.5° | 866.7 | 705.6 | 472.4 | 482.6 | 422.8 | 534.2 | 796.8 | 706.6 | 584.9 | 535.3 | 520.1 |
| 80° | 420.7 | 400.4 | 387.3 | 402.4 | 347.8 | 455.1 | 727.9 | 658.9 | 534.2 | 479.5 | 457.2 |
| 82.5° | 261.6 | 247.3 | 297.0 | 313.3 | 267.6 | 415.6 | 690.4 | 618.4 | 470.4 | 397.4 | 379.1 |
| 85° | 132.8 | 142.0 | 198.7 | 213.9 | 191.6 | 330.5 | 568.7 | 464.3 | 339.6 | 281.8 | 283.8 |
| 87.5° | 50.7 | 68.0 | 104.5 | 112.5 | 102.3 | 174.3 | 313.3 | 270.6 | 218.0 | 148.0 | 136.8 |
| 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)