

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: P192751

Luminaire Tested: **GAN-AF-03-LED-U-RW-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-RW-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17965.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 166
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: 28.75 FT

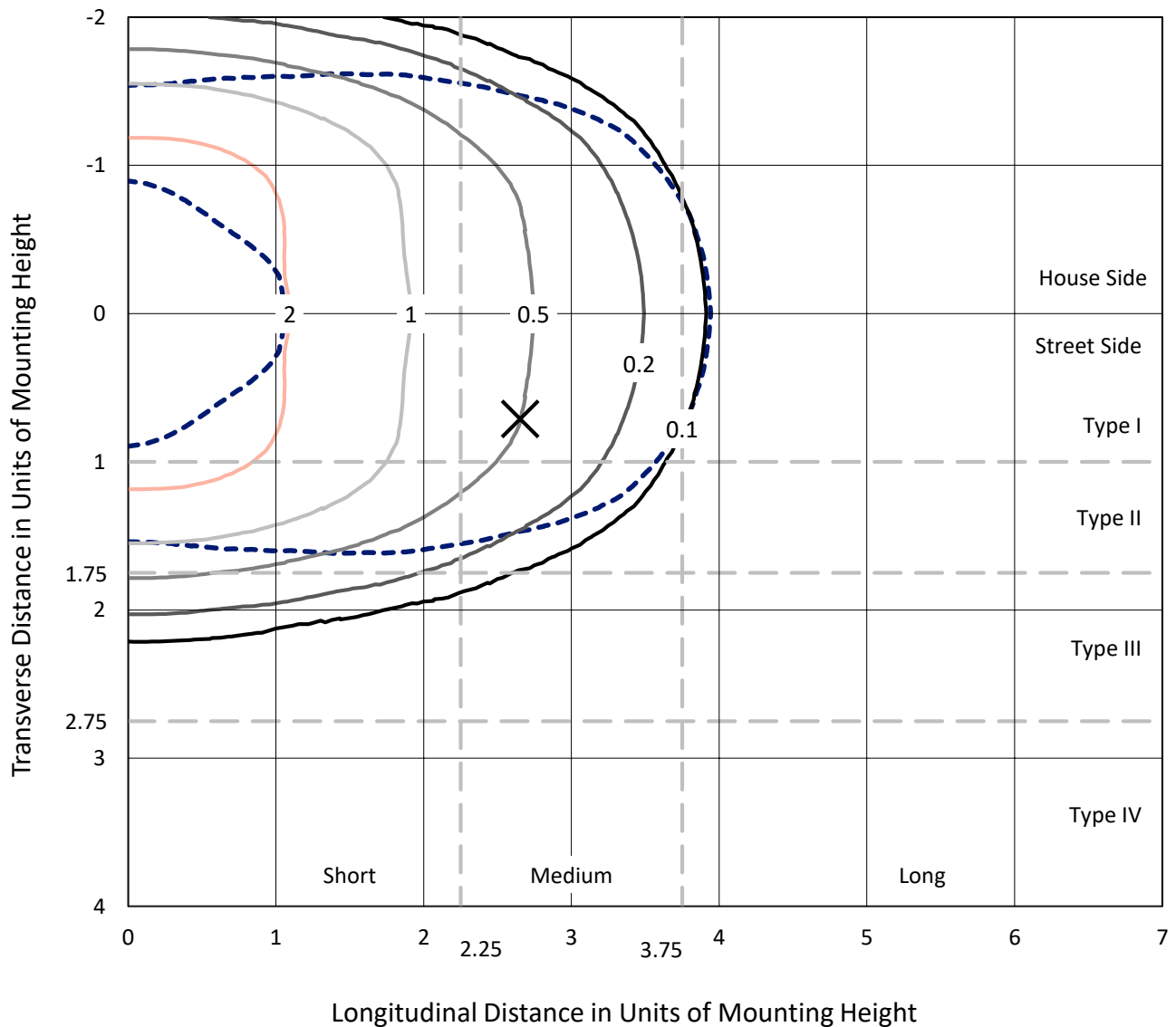


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Iso-Footcandle Lines of Horizontal Illumination

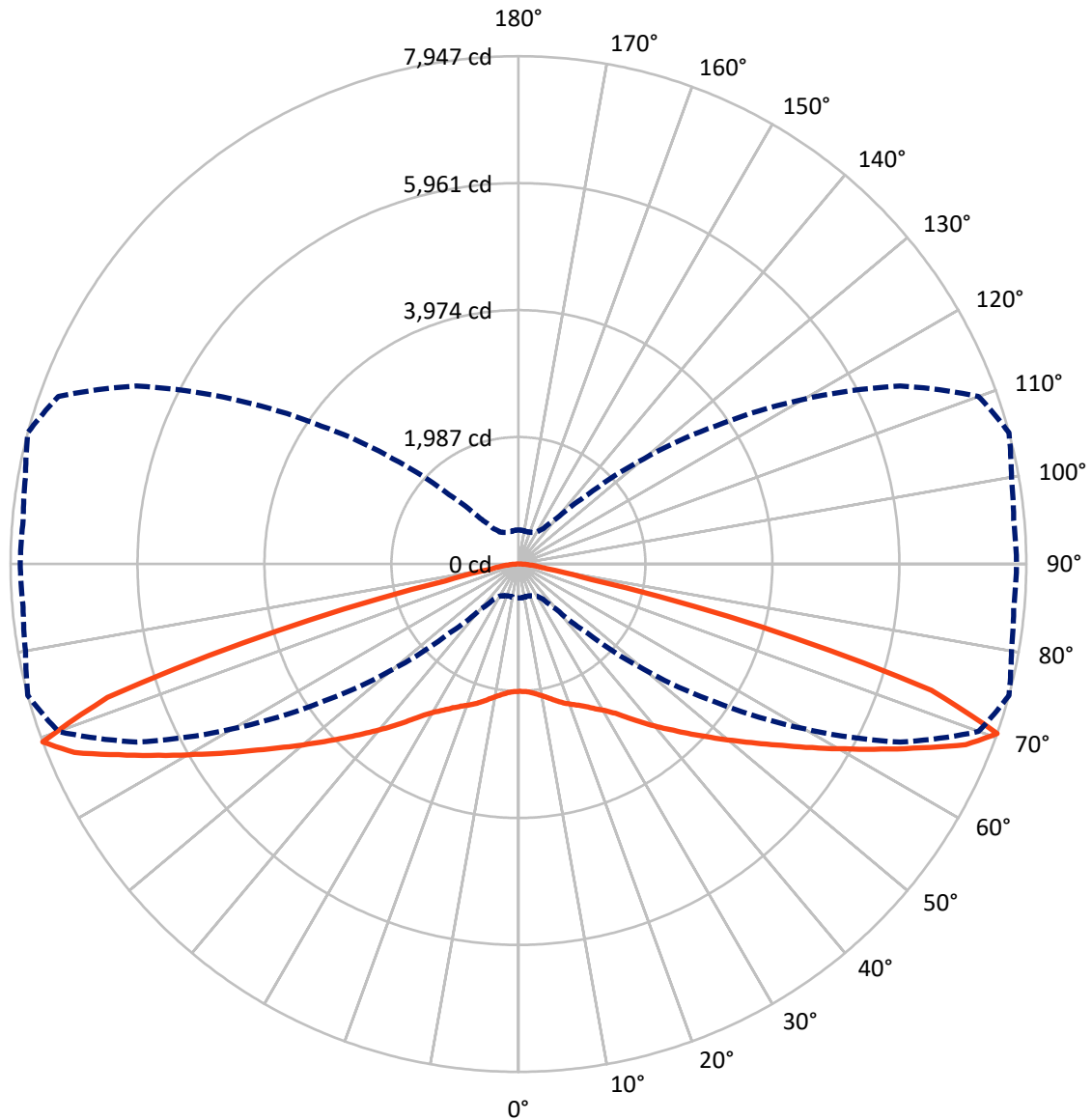
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8982.7 | 0.0 | 8982.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8982.7 | 0.0 | 8982.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17965.5 | 0.0 | 17965.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 191.1 | 1.1 |
| 10°-20° | 593.9 | 3.3 |
| 20°-30° | 1117.7 | 6.2 |
| 30°-40° | 1979.3 | 11.0 |
| 40°-50° | 3310.0 | 18.4 |
| 50°-60° | 4612.4 | 25.7 |
| 60°-70° | 4277.3 | 23.8 |
| 70°-80° | 1704.6 | 9.5 |
| 80°-90° | 179.2 | 1.0 |
| 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° | 17965.5 | 100.0 |
| 0°-180° | 17965.5 | 100.0 |



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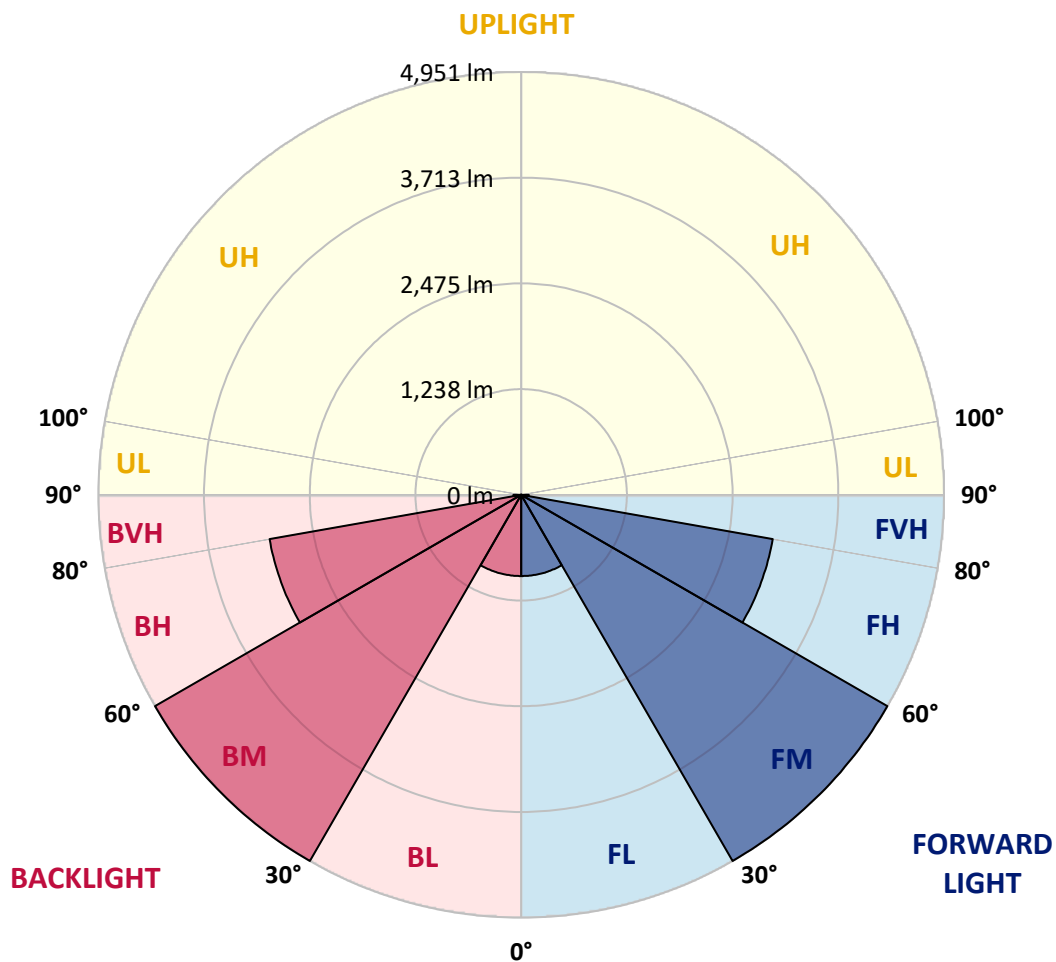
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 951.3 | 5.3 | | | |
| FM | (30°-60°) | 4950.8 | 27.6 | | | |
| FH | (60°-80°) | 2991.0 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 89.6 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 951.3 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 4950.8 | 27.6 | B3/5000 | | |
| BH | (60°-80°) | 2991.0 | 16.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 89.6 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5° | 1989.4 | 1987.7 | 1989.4 | 1988.5 | 1990.2 | 1990.2 | 1991.9 | 1995.3 | 1995.3 | 1998.0 | 1997.0 |
| 5° | 1969.8 | 1969.1 | 1971.6 | 1974.1 | 1976.6 | 1981.8 | 1986.9 | 1994.5 | 2000.4 | 2004.7 | 2009.0 |
| 7.5° | 1931.7 | 1931.7 | 1935.1 | 1941.0 | 1946.9 | 1957.9 | 1969.8 | 1985.1 | 2000.4 | 2013.2 | 2024.2 |
| 10° | 1900.2 | 1901.9 | 1906.1 | 1916.4 | 1926.6 | 1943.5 | 1959.7 | 1981.8 | 2002.9 | 2024.2 | 2041.2 |
| 12.5° | 1881.6 | 1884.0 | 1891.8 | 1907.0 | 1924.0 | 1946.9 | 1971.6 | 1999.6 | 2023.4 | 2048.8 | 2065.8 |
| 15° | 1887.5 | 1889.2 | 1900.2 | 1918.9 | 1941.0 | 1969.8 | 2002.9 | 2036.0 | 2064.1 | 2091.3 | 2114.1 |
| 17.5° | 1920.7 | 1923.2 | 1935.8 | 1957.2 | 1980.1 | 2013.9 | 2049.7 | 2087.1 | 2121.9 | 2152.4 | 2180.5 |
| 20° | 1980.1 | 1982.6 | 1998.8 | 2021.7 | 2048.8 | 2083.7 | 2119.3 | 2158.4 | 2197.4 | 2229.7 | 2261.1 |
| 22.5° | 2064.1 | 2068.4 | 2083.7 | 2106.5 | 2137.1 | 2174.5 | 2217.0 | 2258.6 | 2295.9 | 2325.6 | 2353.7 |
| 25° | 2174.5 | 2183.9 | 2198.3 | 2223.8 | 2255.9 | 2290.0 | 2335.9 | 2378.2 | 2414.0 | 2442.0 | 2462.3 |
| 27.5° | 2330.7 | 2343.5 | 2354.5 | 2379.1 | 2410.6 | 2442.8 | 2488.7 | 2526.0 | 2560.0 | 2587.2 | 2602.4 |
| 30° | 2537.9 | 2550.6 | 2561.7 | 2585.4 | 2614.3 | 2644.8 | 2688.3 | 2721.3 | 2742.5 | 2763.7 | 2762.9 |
| 32.5° | 2789.3 | 2802.8 | 2807.1 | 2832.5 | 2862.3 | 2895.4 | 2934.3 | 2953.1 | 2970.1 | 2972.6 | 2957.3 |
| 35° | 3070.3 | 3077.1 | 3094.0 | 3128.0 | 3162.0 | 3189.2 | 3226.5 | 3235.8 | 3235.8 | 3223.1 | 3189.2 |
| 37.5° | 3378.6 | 3382.7 | 3406.4 | 3444.7 | 3479.6 | 3507.6 | 3533.0 | 3551.7 | 3542.4 | 3515.2 | 3458.3 |
| 40° | 3716.5 | 3724.1 | 3758.1 | 3792.0 | 3831.0 | 3857.4 | 3884.5 | 3888.0 | 3878.6 | 3838.8 | 3761.5 |
| 42.5° | 4039.1 | 4045.9 | 4079.8 | 4133.3 | 4184.3 | 4220.8 | 4246.3 | 4251.4 | 4221.7 | 4185.0 | 4089.1 |
| 45° | 4316.8 | 4334.6 | 4378.7 | 4441.5 | 4515.3 | 4567.2 | 4602.0 | 4616.4 | 4590.1 | 4542.6 | 4431.3 |
| 47.5° | 4536.7 | 4554.5 | 4617.3 | 4692.0 | 4783.7 | 4867.8 | 4925.5 | 4956.1 | 4949.3 | 4913.6 | 4792.2 |
| 50° | 4697.9 | 4715.0 | 4782.9 | 4874.6 | 4981.5 | 5086.0 | 5184.5 | 5257.5 | 5283.0 | 5266.9 | 5155.6 |
| 52.5° | 4716.6 | 4744.7 | 4824.5 | 4947.6 | 5086.9 | 5229.4 | 5369.5 | 5493.5 | 5577.5 | 5590.4 | 5508.0 |
| 55° | 4456.0 | 4484.0 | 4594.4 | 4777.0 | 4984.1 | 5216.8 | 5440.9 | 5649.8 | 5815.4 | 5900.2 | 5857.0 |
| 57.5° | 3841.2 | 3891.4 | 4007.6 | 4221.7 | 4526.5 | 4874.6 | 5232.0 | 5603.1 | 5940.2 | 6165.2 | 6208.4 |
| 60° | 2943.8 | 3003.2 | 3120.3 | 3347.9 | 3687.6 | 4102.8 | 4579.9 | 5128.4 | 5723.6 | 6229.8 | 6531.9 |
| 62.5° | 1888.3 | 1944.4 | 2067.5 | 2265.4 | 2542.1 | 2992.2 | 3504.2 | 4155.3 | 4955.2 | 5754.2 | 6474.2 |
| 65° | 970.6 | 1001.1 | 1065.6 | 1185.4 | 1401.0 | 1737.2 | 2196.5 | 2846.1 | 3760.6 | 4746.3 | 5787.4 |
| 67.5° | 614.7 | 620.7 | 635.2 | 652.1 | 707.2 | 823.6 | 1037.5 | 1442.5 | 2194.9 | 3223.1 | 4441.5 |
| 70° | 531.5 | 531.5 | 524.8 | 522.1 | 529.0 | 545.1 | 578.2 | 672.5 | 926.3 | 1530.0 | 2561.7 |
| 72.5° | 486.5 | 481.4 | 469.6 | 460.2 | 458.5 | 458.5 | 465.3 | 479.7 | 520.5 | 623.3 | 1002.8 |
| 75° | 448.3 | 433.9 | 417.7 | 406.7 | 402.5 | 398.2 | 397.3 | 399.9 | 408.4 | 424.6 | 478.9 |
| 77.5° | 401.6 | 383.0 | 364.3 | 353.2 | 348.1 | 342.2 | 337.1 | 331.2 | 326.9 | 332.0 | 355.7 |
| 80° | 345.6 | 324.4 | 310.0 | 303.0 | 298.1 | 289.5 | 278.5 | 268.3 | 259.0 | 257.3 | 271.7 |
| 82.5° | 278.5 | 253.9 | 254.7 | 257.3 | 247.9 | 236.0 | 224.2 | 213.2 | 197.0 | 188.5 | 197.0 |
| 85° | 225.0 | 212.3 | 206.3 | 222.5 | 208.9 | 191.1 | 172.4 | 152.9 | 127.4 | 107.0 | 116.4 |
| 87.5° | 87.4 | 87.4 | 130.8 | 201.2 | 180.9 | 147.7 | 126.5 | 107.8 | 67.0 | 51.8 | 52.7 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5° | 1996.1 | 1998.0 | 1997.0 | 1996.1 | 1996.1 | 1995.3 | 1996.1 | 1996.1 |
| 5° | 2011.5 | 2015.8 | 2015.8 | 2017.4 | 2017.4 | 2018.2 | 2019.1 | 2018.2 |
| 7.5° | 2034.4 | 2042.0 | 2047.1 | 2053.1 | 2054.0 | 2054.7 | 2056.5 | 2054.7 |
| 10° | 2057.4 | 2072.6 | 2083.7 | 2094.7 | 2099.8 | 2101.5 | 2103.1 | 2103.1 |
| 12.5° | 2086.2 | 2107.4 | 2127.0 | 2146.5 | 2155.8 | 2160.9 | 2160.9 | 2164.3 |
| 15° | 2133.8 | 2154.9 | 2177.9 | 2204.2 | 2220.3 | 2228.9 | 2231.4 | 2231.4 |
| 17.5° | 2200.8 | 2219.5 | 2239.0 | 2264.5 | 2284.8 | 2295.9 | 2298.5 | 2297.6 |
| 20° | 2278.9 | 2296.7 | 2307.8 | 2324.0 | 2341.8 | 2354.5 | 2358.0 | 2358.0 |
| 22.5° | 2368.0 | 2378.2 | 2380.0 | 2385.0 | 2399.6 | 2416.5 | 2424.1 | 2425.8 |
| 25° | 2466.5 | 2469.2 | 2462.3 | 2462.3 | 2471.7 | 2487.9 | 2495.5 | 2496.2 |
| 27.5° | 2594.0 | 2581.2 | 2564.2 | 2558.3 | 2564.2 | 2582.9 | 2592.2 | 2595.7 |
| 30° | 2752.7 | 2722.2 | 2683.1 | 2661.9 | 2658.5 | 2683.1 | 2700.2 | 2702.6 |
| 32.5° | 2934.3 | 2890.2 | 2838.4 | 2795.2 | 2784.2 | 2799.4 | 2819.8 | 2819.0 |
| 35° | 3150.1 | 3097.5 | 3034.5 | 2979.4 | 2954.0 | 2969.2 | 2998.1 | 3001.5 |
| 37.5° | 3398.8 | 3330.1 | 3257.9 | 3188.3 | 3148.5 | 3152.6 | 3183.2 | 3193.4 |
| 40° | 3676.6 | 3587.4 | 3496.6 | 3403.1 | 3346.2 | 3335.1 | 3372.5 | 3378.6 |
| 42.5° | 3973.6 | 3859.0 | 3744.5 | 3628.9 | 3556.0 | 3539.0 | 3582.3 | 3579.8 |
| 45° | 4290.4 | 4144.3 | 4010.3 | 3882.8 | 3796.2 | 3770.7 | 3806.5 | 3806.5 |
| 47.5° | 4630.9 | 4450.9 | 4291.2 | 4146.9 | 4052.7 | 4016.2 | 4050.1 | 4052.7 |
| 50° | 4991.7 | 4800.8 | 4613.0 | 4452.6 | 4339.7 | 4292.9 | 4337.1 | 4343.9 |
| 52.5° | 5350.9 | 5165.0 | 4975.6 | 4792.2 | 4655.5 | 4598.6 | 4649.5 | 4671.6 |
| 55° | 5715.2 | 5532.6 | 5351.7 | 5172.6 | 5010.4 | 4943.3 | 4997.7 | 5025.7 |
| 57.5° | 6099.8 | 5930.8 | 5758.5 | 5577.5 | 5421.3 | 5317.0 | 5374.7 | 5412.0 |
| 60° | 6550.6 | 6406.3 | 6227.1 | 6027.7 | 5869.7 | 5763.5 | 5796.6 | 5829.7 |
| 62.5° | 6907.3 | 6963.3 | 6811.3 | 6580.3 | 6377.5 | 6241.6 | 6273.8 | 6308.6 |
| 65° | 6735.0 | 7309.8 | 7444.7 | 7211.2 | 6930.2 | 6718.8 | 6705.2 | 6723.0 |
| 67.5° | 5629.4 | 6746.0 | 7560.2 | 7782.6 | 7547.5 | 7253.7 | 7199.3 | 7225.7 |
| 70° | 3765.6 | 5156.5 | 6593.1 | 7663.0 | 7947.4 | 7833.7 | 7780.2 | 7796.3 |
| 72.5° | 1808.6 | 3003.2 | 4473.0 | 5895.2 | 6761.2 | 7158.5 | 7286.0 | 7347.9 |
| 75° | 661.4 | 1192.1 | 2155.8 | 3248.6 | 3921.9 | 4540.0 | 4943.3 | 5108.1 |
| 77.5° | 399.1 | 481.4 | 688.6 | 1036.8 | 1174.3 | 1314.4 | 1260.1 | 1287.2 |
| 80° | 295.4 | 333.7 | 377.8 | 424.6 | 439.9 | 439.9 | 422.9 | 409.2 |
| 82.5° | 207.1 | 231.8 | 253.1 | 278.5 | 285.2 | 272.6 | 224.2 | 178.3 |
| 85° | 133.3 | 144.3 | 153.7 | 169.8 | 165.5 | 157.9 | 106.1 | 94.3 |
| 87.5° | 61.1 | 69.6 | 72.9 | 80.7 | 77.2 | 73.9 | 52.7 | 44.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)