

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: P193150

Luminaire Tested: **GAN-AF-02-LED-U-T2R-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T2R-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12270.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

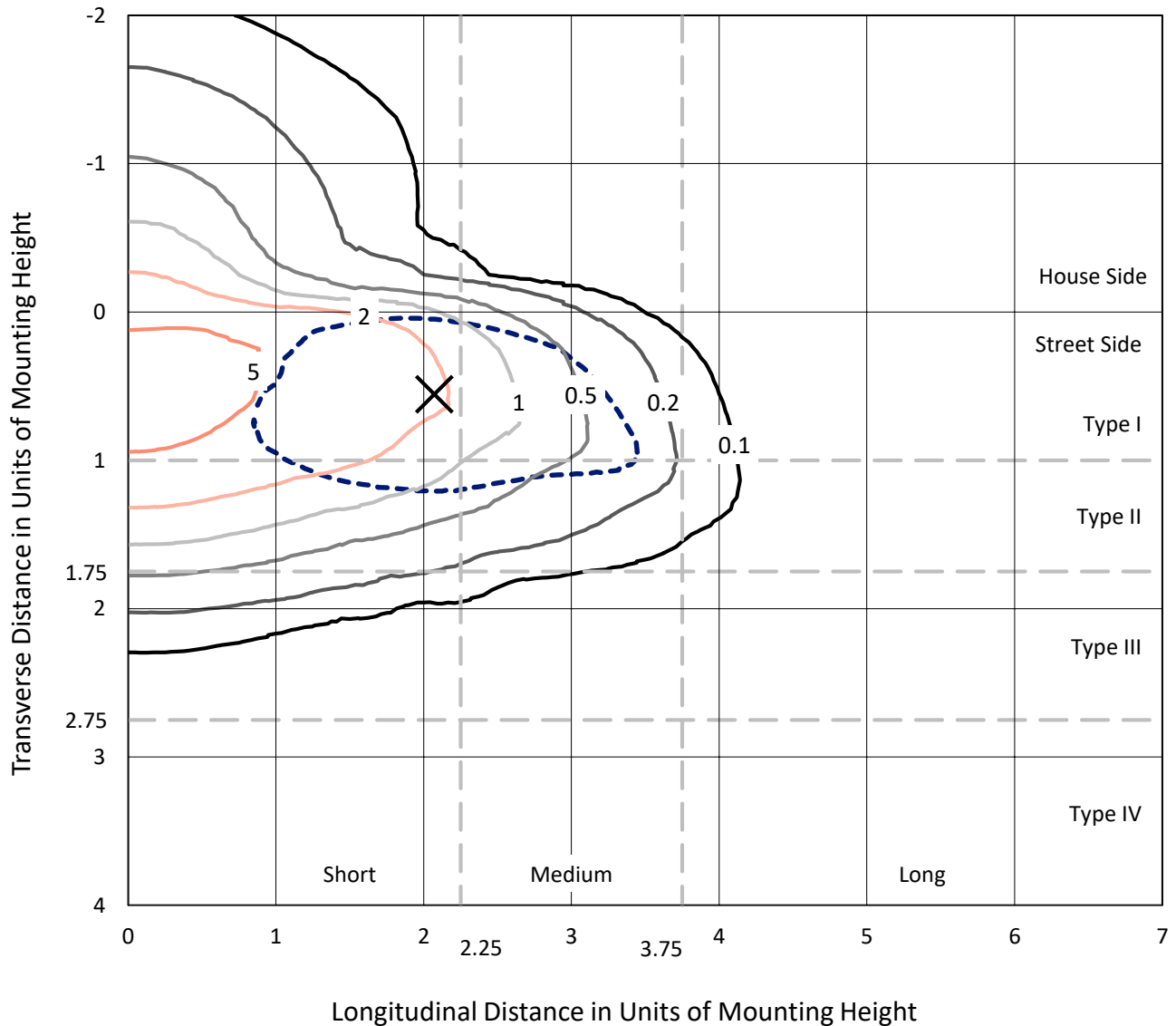
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

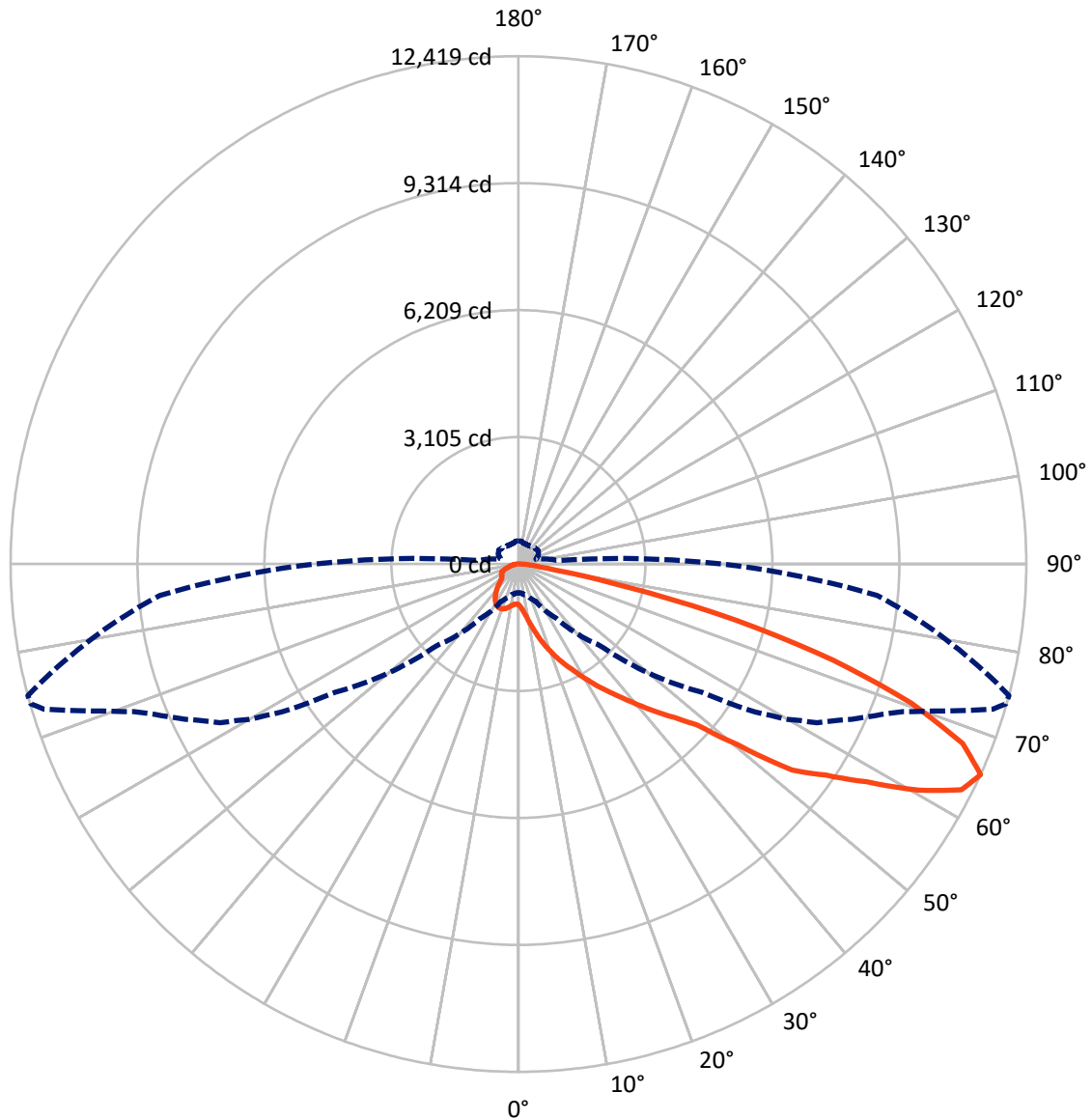
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1891.9 | 0.0 | 1891.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 10379.0 | 0.0 | 10379.0 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 12270.9 | 0.0 | 12270.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.3 | 1.0 |
| 10°-20° | 481.6 | 3.9 |
| 20°-30° | 988.1 | 8.1 |
| 30°-40° | 1662.5 | 13.5 |
| 40°-50° | 2297.0 | 18.7 |
| 50°-60° | 2867.4 | 23.4 |
| 60°-70° | 2580.4 | 21.0 |
| 70°-80° | 1081.7 | 8.8 |
| 80°-90° | 189.0 | 1.5 |
| 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° | 12270.9 | 100.0 |
| 0°-180° | 12270.9 | 100.0 |

Coefficient of Utilization



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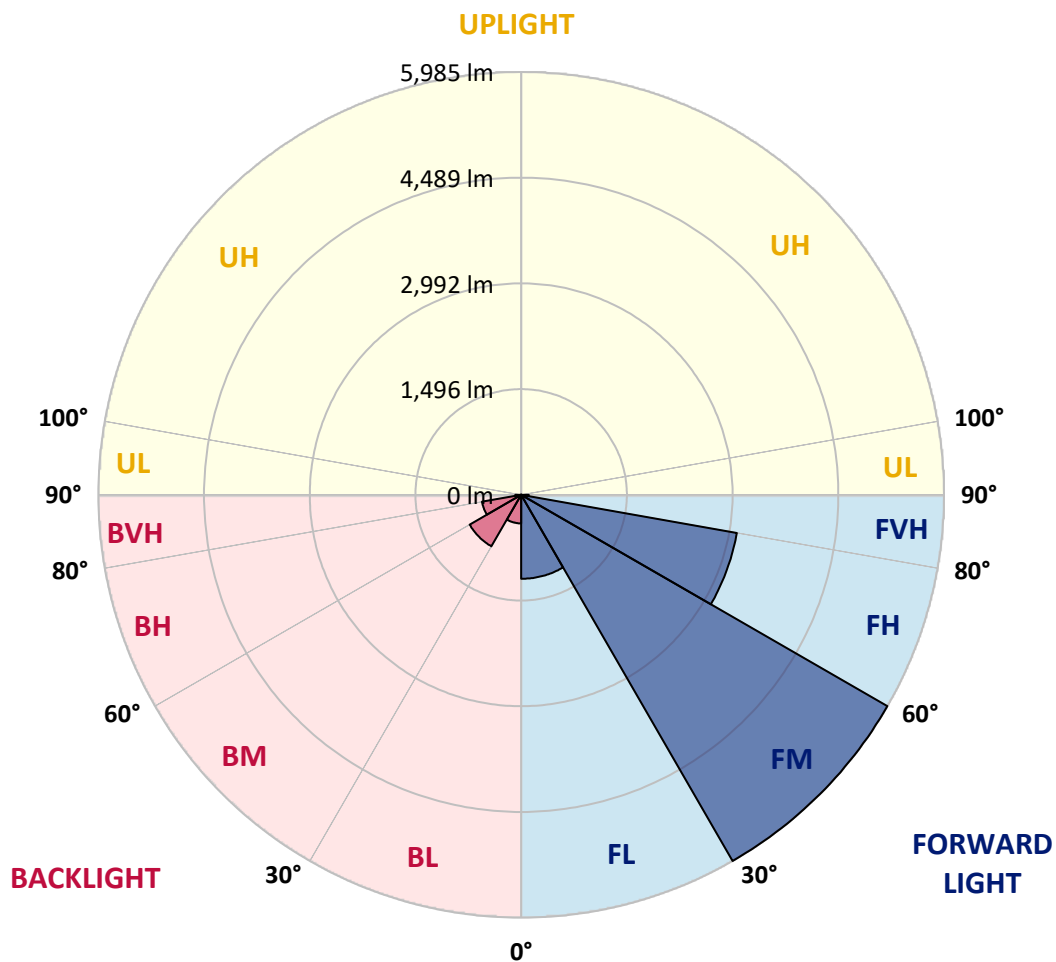
CATALOG NUMBER: GAN-AF-02-LED-U-T2R-7030-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1188.4 | 9.7 | | | |
| FM | (30°-60°) | 5984.8 | 48.8 | | | |
| FH | (60°-80°) | 3099.6 | 25.3 | | | G2/5000 |
| FVH | (80°-90°) | 106.2 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 404.6 | 3.3 | B1/500 | | |
| BM | (30°-60°) | 842.1 | 6.9 | B1/1000 | | |
| BH | (60°-80°) | 562.4 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 82.8 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CATALOG NUMBER: GAN-AF-02-LED-U-T2R-7030-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 |
| 2.5° | 1266.2 | 1252.2 | 1255.7 | 1232.5 | 1204.0 | 1166.9 | 1125.6 | 1125.1 | 1125.6 | 1121.5 | 1106.5 |
| 5° | 1755.8 | 1739.0 | 1732.6 | 1680.3 | 1603.6 | 1494.4 | 1375.9 | 1363.1 | 1357.9 | 1344.6 | 1313.8 |
| 7.5° | 2113.0 | 2103.7 | 2093.9 | 2054.3 | 1984.5 | 1862.7 | 1703.5 | 1676.2 | 1650.1 | 1643.7 | 1608.9 |
| 10° | 2343.6 | 2341.2 | 2320.3 | 2309.8 | 2266.2 | 2160.6 | 2005.6 | 1979.3 | 1951.0 | 1941.1 | 1904.5 |
| 12.5° | 2526.0 | 2525.3 | 2515.4 | 2518.4 | 2480.6 | 2403.9 | 2270.4 | 2246.6 | 2225.6 | 2195.4 | 2169.4 |
| 15° | 2651.9 | 2652.6 | 2667.0 | 2683.3 | 2677.5 | 2625.8 | 2500.4 | 2489.9 | 2471.9 | 2451.0 | 2420.2 |
| 17.5° | 2755.3 | 2758.2 | 2773.3 | 2802.9 | 2835.0 | 2830.9 | 2731.6 | 2722.8 | 2707.1 | 2678.7 | 2662.4 |
| 20° | 2988.8 | 2999.8 | 2970.9 | 2970.9 | 2974.4 | 2990.0 | 2942.4 | 2935.4 | 2913.3 | 2898.2 | 2885.4 |
| 22.5° | 3383.2 | 3396.0 | 3330.3 | 3263.6 | 3197.9 | 3150.3 | 3102.6 | 3111.3 | 3096.3 | 3085.8 | 3078.3 |
| 25° | 3895.4 | 3905.4 | 3799.1 | 3686.4 | 3552.8 | 3378.6 | 3260.7 | 3255.4 | 3247.3 | 3240.9 | 3237.5 |
| 27.5° | 4377.6 | 4381.7 | 4281.1 | 4116.3 | 3961.0 | 3710.8 | 3420.9 | 3414.6 | 3404.7 | 3392.5 | 3382.0 |
| 30° | 4789.9 | 4788.8 | 4685.4 | 4527.9 | 4361.8 | 4084.7 | 3664.3 | 3644.6 | 3615.5 | 3582.4 | 3556.8 |
| 32.5° | 5147.1 | 5145.3 | 5032.2 | 4868.9 | 4694.7 | 4455.4 | 3997.7 | 3957.1 | 3911.7 | 3847.2 | 3808.3 |
| 35° | 5428.2 | 5427.0 | 5320.2 | 5150.1 | 4950.2 | 4804.4 | 4379.8 | 4330.0 | 4272.4 | 4185.8 | 4126.0 |
| 37.5° | 5534.5 | 5534.5 | 5474.7 | 5358.5 | 5181.9 | 5082.0 | 4804.4 | 4744.0 | 4682.5 | 4584.3 | 4516.9 |
| 40° | 5472.4 | 5473.6 | 5486.4 | 5464.8 | 5378.9 | 5302.3 | 5200.5 | 5164.5 | 5111.7 | 5023.4 | 4953.2 |
| 42.5° | 5263.9 | 5270.2 | 5355.1 | 5459.0 | 5502.0 | 5489.8 | 5551.9 | 5535.6 | 5498.5 | 5430.5 | 5374.8 |
| 45° | 4999.6 | 5019.4 | 5112.2 | 5308.6 | 5536.2 | 5651.9 | 5846.4 | 5848.1 | 5841.2 | 5804.6 | 5761.6 |
| 47.5° | 4636.6 | 4664.5 | 4786.9 | 5052.4 | 5456.1 | 5809.2 | 6145.5 | 6161.2 | 6175.8 | 6152.0 | 6132.1 |
| 50° | 4154.5 | 4187.6 | 4371.1 | 4723.2 | 5292.8 | 5972.4 | 6710.6 | 6781.5 | 6847.8 | 6839.6 | 6853.0 |
| 52.5° | 3638.3 | 3677.1 | 3901.8 | 4293.9 | 5012.4 | 6010.3 | 7072.0 | 7187.5 | 7303.1 | 7397.7 | 7498.3 |
| 55° | 3172.4 | 3151.5 | 3376.2 | 3789.2 | 4551.2 | 5840.0 | 7396.7 | 7535.9 | 7664.9 | 7781.1 | 7900.7 |
| 57.5° | 2541.1 | 2575.3 | 2800.7 | 3209.0 | 3940.8 | 5359.7 | 7620.2 | 7824.0 | 8009.4 | 8201.5 | 8371.2 |
| 60° | 1857.4 | 1891.8 | 2136.2 | 2550.8 | 3278.1 | 4631.4 | 7449.4 | 7758.4 | 8055.2 | 8349.7 | 8579.7 |
| 62.5° | 1121.5 | 1147.1 | 1362.6 | 1757.6 | 2527.7 | 3767.7 | 6688.6 | 7093.9 | 7530.7 | 7882.7 | 8235.3 |
| 65° | 698.1 | 712.7 | 792.2 | 1009.4 | 1623.4 | 2812.9 | 5464.8 | 5906.8 | 6377.3 | 6823.9 | 7190.4 |
| 67.5° | 571.5 | 576.8 | 591.3 | 637.7 | 891.5 | 1834.1 | 4067.4 | 4458.9 | 4883.5 | 5315.6 | 5723.3 |
| 70° | 514.1 | 510.6 | 510.6 | 513.4 | 571.5 | 986.2 | 2662.9 | 2918.0 | 3271.7 | 3647.5 | 4020.3 |
| 72.5° | 464.1 | 460.5 | 454.2 | 445.4 | 466.4 | 601.7 | 1376.5 | 1568.8 | 1823.7 | 2157.7 | 2514.9 |
| 75° | 417.1 | 412.4 | 404.8 | 393.8 | 408.3 | 454.2 | 660.9 | 741.7 | 866.0 | 1043.8 | 1243.0 |
| 77.5° | 368.2 | 362.4 | 355.4 | 347.3 | 365.9 | 353.1 | 387.5 | 416.4 | 464.1 | 520.9 | 595.9 |
| 80° | 313.0 | 307.8 | 305.5 | 301.4 | 323.5 | 268.9 | 273.5 | 291.6 | 319.5 | 350.1 | 385.0 |
| 82.5° | 245.1 | 245.1 | 254.3 | 256.1 | 280.6 | 193.4 | 204.5 | 220.1 | 234.7 | 250.9 | 267.1 |
| 85° | 161.4 | 162.6 | 193.9 | 206.2 | 221.2 | 130.1 | 153.3 | 158.5 | 170.2 | 179.5 | 186.4 |
| 87.5° | 50.5 | 54.6 | 118.4 | 131.2 | 127.2 | 73.8 | 94.1 | 96.3 | 104.6 | 110.9 | 116.7 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 |
| 2.5° | 1106.5 | 1099.4 | 1093.0 | 1092.5 | 1087.9 | 1081.4 | 1083.8 | 1073.9 | 1074.4 | 1069.3 | 1063.4 |
| 5° | 1301.1 | 1296.4 | 1273.1 | 1266.8 | 1249.3 | 1238.2 | 1236.5 | 1213.4 | 1210.4 | 1197.1 | 1182.5 |
| 7.5° | 1581.0 | 1565.9 | 1533.4 | 1517.6 | 1488.0 | 1465.9 | 1455.6 | 1424.7 | 1409.7 | 1374.8 | 1359.0 |
| 10° | 1874.3 | 1855.1 | 1815.1 | 1793.0 | 1764.5 | 1729.0 | 1709.9 | 1665.2 | 1647.7 | 1615.8 | 1577.4 |
| 12.5° | 2146.1 | 2127.0 | 2085.6 | 2068.9 | 2031.1 | 1993.3 | 1972.4 | 1921.9 | 1899.3 | 1848.1 | 1818.0 |
| 15° | 2397.5 | 2378.3 | 2342.4 | 2324.9 | 2287.3 | 2256.4 | 2228.6 | 2178.6 | 2151.9 | 2104.3 | 2064.8 |
| 17.5° | 2641.6 | 2621.1 | 2589.8 | 2574.1 | 2537.5 | 2506.2 | 2476.1 | 2429.0 | 2401.6 | 2354.0 | 2318.6 |
| 20° | 2868.0 | 2853.0 | 2830.3 | 2809.4 | 2772.8 | 2744.3 | 2708.3 | 2667.7 | 2628.1 | 2593.3 | 2559.6 |
| 22.5° | 3065.5 | 3059.7 | 3035.3 | 3026.1 | 2994.7 | 2970.2 | 2938.8 | 2898.7 | 2870.3 | 2826.2 | 2794.9 |
| 25° | 3235.7 | 3234.0 | 3222.3 | 3219.5 | 3197.4 | 3174.1 | 3167.1 | 3134.0 | 3107.9 | 3069.0 | 3036.5 |
| 27.5° | 3382.0 | 3383.8 | 3380.9 | 3389.0 | 3383.2 | 3372.8 | 3373.4 | 3362.4 | 3347.1 | 3314.7 | 3286.2 |
| 30° | 3544.7 | 3535.4 | 3540.5 | 3552.2 | 3555.8 | 3556.8 | 3576.0 | 3582.4 | 3581.3 | 3559.7 | 3545.8 |
| 32.5° | 3774.7 | 3752.6 | 3732.3 | 3730.5 | 3742.1 | 3746.8 | 3779.3 | 3796.1 | 3810.6 | 3815.9 | 3818.2 |
| 35° | 4067.9 | 4023.8 | 3981.4 | 3958.8 | 3939.1 | 3944.3 | 3967.5 | 3994.8 | 4026.7 | 4048.8 | 4075.0 |
| 37.5° | 4437.3 | 4383.4 | 4308.4 | 4255.0 | 4241.7 | 4212.6 | 4227.7 | 4249.2 | 4280.6 | 4314.8 | 4360.1 |
| 40° | 4885.2 | 4803.2 | 4719.0 | 4648.2 | 4609.8 | 4556.4 | 4555.9 | 4551.7 | 4571.0 | 4602.9 | 4666.8 |
| 42.5° | 5316.1 | 5243.6 | 5154.1 | 5079.8 | 5029.8 | 4958.4 | 4943.9 | 4906.1 | 4914.8 | 4942.7 | 5004.8 |
| 45° | 5719.8 | 5659.9 | 5605.3 | 5519.4 | 5477.0 | 5399.8 | 5375.3 | 5330.6 | 5305.6 | 5318.4 | 5380.6 |
| 47.5° | 6110.7 | 6072.3 | 6015.4 | 5959.6 | 5927.1 | 5858.1 | 5826.7 | 5794.7 | 5762.8 | 5761.6 | 5826.7 |
| 50° | 6872.7 | 6852.4 | 6785.0 | 6726.9 | 6742.6 | 6657.8 | 6663.0 | 6577.1 | 6615.9 | 6620.7 | 6757.1 |
| 52.5° | 7588.8 | 7659.7 | 7709.7 | 7770.6 | 7810.1 | 7817.7 | 7843.8 | 7882.7 | 7929.7 | 8022.7 | 8149.3 |
| 55° | 7998.9 | 8087.7 | 8139.4 | 8185.9 | 8262.5 | 8278.8 | 8322.4 | 8374.0 | 8415.3 | 8519.8 | 8627.3 |
| 57.5° | 8486.1 | 8651.1 | 8731.2 | 8804.9 | 8908.5 | 8947.9 | 9020.6 | 9076.8 | 9130.2 | 9254.0 | 9384.1 |
| 60° | 8786.4 | 8987.4 | 9150.6 | 9267.4 | 9396.9 | 9489.8 | 9599.6 | 9687.9 | 9813.3 | 9961.3 | 10155.4 |
| 62.5° | 8547.8 | 8842.8 | 9059.4 | 9259.8 | 9435.8 | 9613.5 | 9770.9 | 9935.8 | 10126.3 | 10350.5 | 10651.4 |
| 65° | 7596.9 | 7897.3 | 8268.4 | 8476.4 | 8709.2 | 8983.3 | 9222.7 | 9489.8 | 9749.4 | 10075.9 | 10520.8 |
| 67.5° | 6115.9 | 6465.0 | 6882.0 | 7091.7 | 7359.3 | 7665.5 | 7933.9 | 8260.2 | 8563.4 | 8958.9 | 9509.0 |
| 70° | 4408.3 | 4859.7 | 5210.5 | 5429.4 | 5741.9 | 6057.3 | 6316.3 | 6696.2 | 6947.0 | 7352.5 | 7921.1 |
| 72.5° | 2791.3 | 3147.4 | 3577.1 | 3853.0 | 4130.6 | 4450.1 | 4715.0 | 5042.6 | 5276.6 | 5646.0 | 6161.2 |
| 75° | 1500.7 | 1763.3 | 2140.8 | 2402.8 | 2700.2 | 2973.2 | 3283.3 | 3502.9 | 3675.9 | 3968.1 | 4386.2 |
| 77.5° | 703.4 | 863.0 | 1054.2 | 1255.7 | 1457.2 | 1667.6 | 1871.9 | 2049.7 | 2124.0 | 2291.2 | 2538.1 |
| 80° | 426.8 | 478.5 | 534.4 | 596.4 | 680.6 | 748.7 | 838.7 | 903.7 | 908.4 | 961.3 | 1036.8 |
| 82.5° | 285.1 | 304.4 | 321.2 | 336.8 | 358.4 | 375.2 | 394.3 | 417.1 | 426.3 | 438.4 | 462.9 |
| 85° | 194.6 | 203.9 | 207.4 | 217.2 | 214.9 | 220.7 | 228.3 | 235.8 | 239.9 | 239.3 | 250.3 |
| 87.5° | 119.6 | 124.3 | 126.6 | 128.9 | 127.2 | 124.9 | 128.4 | 132.4 | 133.7 | 130.1 | 131.2 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 |
| 2.5° | 1064.6 | 1059.4 | 1054.2 | 1050.6 | 1049.6 | 1018.8 | 1005.4 | 996.7 | 978.1 | 963.0 | 950.8 |
| 5° | 1174.4 | 1163.4 | 1154.7 | 1144.2 | 1138.4 | 1060.6 | 1032.1 | 1012.4 | 979.8 | 960.6 | 943.2 |
| 7.5° | 1351.0 | 1320.2 | 1302.2 | 1281.8 | 1264.4 | 1123.8 | 1076.9 | 1046.0 | 1000.7 | 975.1 | 955.5 |
| 10° | 1551.4 | 1519.4 | 1491.0 | 1459.6 | 1432.3 | 1208.1 | 1139.6 | 1091.9 | 1032.1 | 998.9 | 972.9 |
| 12.5° | 1774.9 | 1743.6 | 1707.6 | 1667.6 | 1632.7 | 1314.9 | 1219.7 | 1151.7 | 1069.8 | 1025.7 | 989.2 |
| 15° | 2039.3 | 1984.0 | 1940.5 | 1894.0 | 1853.4 | 1442.8 | 1313.2 | 1219.2 | 1110.0 | 1050.1 | 1001.4 |
| 17.5° | 2284.9 | 2226.8 | 2167.6 | 2127.0 | 2079.9 | 1586.2 | 1407.3 | 1287.6 | 1143.1 | 1065.9 | 1003.6 |
| 20° | 2524.8 | 2461.5 | 2410.4 | 2355.7 | 2306.4 | 1734.8 | 1507.8 | 1348.0 | 1164.4 | 1066.4 | 989.2 |
| 22.5° | 2736.2 | 2696.7 | 2639.8 | 2580.4 | 2530.6 | 1883.5 | 1601.8 | 1399.2 | 1172.7 | 1053.0 | 963.5 |
| 25° | 2976.7 | 2934.8 | 2865.1 | 2815.2 | 2759.5 | 2035.2 | 1694.2 | 1438.6 | 1168.0 | 1028.0 | 924.2 |
| 27.5° | 3233.3 | 3186.9 | 3115.4 | 3063.2 | 2995.8 | 2192.5 | 1779.0 | 1467.2 | 1150.6 | 987.3 | 871.3 |
| 30° | 3501.1 | 3458.7 | 3388.4 | 3335.5 | 3267.6 | 2359.2 | 1873.7 | 1486.3 | 1115.7 | 931.0 | 809.6 |
| 32.5° | 3788.6 | 3753.2 | 3683.4 | 3628.3 | 3555.8 | 2539.8 | 1962.0 | 1492.1 | 1062.9 | 864.2 | 744.6 |
| 35° | 4061.6 | 4037.2 | 3978.5 | 3926.9 | 3851.3 | 2710.6 | 2055.5 | 1489.2 | 1000.2 | 791.0 | 685.4 |
| 37.5° | 4368.8 | 4354.3 | 4325.2 | 4259.7 | 4167.2 | 2942.4 | 2167.6 | 1476.9 | 923.5 | 718.5 | 640.0 |
| 40° | 4696.4 | 4697.6 | 4666.3 | 4621.4 | 4535.6 | 3223.4 | 2301.1 | 1453.1 | 839.8 | 654.6 | 598.8 |
| 42.5° | 5043.2 | 5061.1 | 5046.0 | 5014.1 | 4931.6 | 3506.9 | 2460.8 | 1424.0 | 758.6 | 592.4 | 558.2 |
| 45° | 5440.4 | 5462.5 | 5485.7 | 5438.7 | 5358.5 | 3881.0 | 2671.2 | 1386.4 | 670.9 | 540.8 | 530.2 |
| 47.5° | 5898.7 | 5933.6 | 5954.4 | 5955.0 | 5874.9 | 4344.4 | 3012.6 | 1363.8 | 592.9 | 505.9 | 516.9 |
| 50° | 6865.8 | 6876.8 | 6926.2 | 7012.0 | 6950.5 | 5417.2 | 3609.2 | 1349.8 | 540.2 | 484.3 | 507.1 |
| 52.5° | 8259.1 | 8380.5 | 8465.9 | 8460.1 | 8376.4 | 6098.6 | 3937.9 | 1277.8 | 508.8 | 476.3 | 502.4 |
| 55° | 8826.5 | 8978.2 | 9136.1 | 9177.9 | 9112.9 | 6679.9 | 4248.6 | 1205.7 | 493.7 | 482.1 | 504.1 |
| 57.5° | 9582.7 | 9838.2 | 10054.9 | 10146.2 | 10052.1 | 7423.8 | 4657.5 | 1168.0 | 489.1 | 497.7 | 515.1 |
| 60° | 10466.2 | 10782.1 | 11066.7 | 11230.5 | 11230.5 | 8278.8 | 5081.4 | 1152.3 | 482.6 | 520.9 | 533.7 |
| 62.5° | 11033.5 | 11497.7 | 11927.5 | 12167.3 | 12160.3 | 8874.1 | 5269.7 | 1098.9 | 468.1 | 537.2 | 559.3 |
| 65° | 11035.9 | 11587.7 | 12135.4 | 12404.9 | 12418.9 | 8801.0 | 4958.9 | 970.6 | 441.4 | 539.5 | 584.9 |
| 67.5° | 10115.9 | 10704.2 | 11342.5 | 11644.0 | 11713.6 | 8101.7 | 4292.8 | 798.0 | 397.8 | 516.4 | 594.2 |
| 70° | 8543.6 | 9118.1 | 9769.8 | 10065.9 | 10189.6 | 6906.4 | 3457.5 | 615.0 | 342.1 | 465.2 | 575.0 |
| 72.5° | 6731.0 | 7294.3 | 7748.0 | 7964.6 | 8061.0 | 5279.0 | 2517.8 | 464.7 | 280.6 | 392.0 | 523.4 |
| 75° | 4765.6 | 5188.4 | 5429.4 | 5477.6 | 5492.7 | 3182.2 | 1529.8 | 345.6 | 231.2 | 305.0 | 442.0 |
| 77.5° | 2689.8 | 2870.9 | 2851.2 | 2872.7 | 2693.8 | 1228.4 | 666.2 | 247.5 | 190.5 | 231.7 | 342.6 |
| 80° | 1050.1 | 1082.6 | 1016.9 | 996.7 | 914.2 | 457.1 | 293.9 | 172.5 | 152.2 | 175.4 | 239.9 |
| 82.5° | 462.9 | 478.0 | 464.1 | 467.5 | 447.2 | 235.8 | 176.0 | 124.9 | 116.2 | 128.4 | 159.2 |
| 85° | 255.0 | 259.6 | 258.5 | 266.0 | 255.0 | 94.1 | 83.6 | 76.7 | 81.3 | 87.1 | 102.2 |
| 87.5° | 124.3 | 125.4 | 121.4 | 127.8 | 123.7 | 47.6 | 41.2 | 43.6 | 47.6 | 48.8 | 48.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|
| 0° | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 |
| 2.5° | 942.1 | 937.5 | 938.0 | 936.8 | 934.5 | 934.5 |
| 5° | 933.9 | 929.2 | 929.2 | 928.1 | 925.2 | 925.8 |
| 7.5° | 942.1 | 934.5 | 931.7 | 927.5 | 923.5 | 923.5 |
| 10° | 951.3 | 938.0 | 929.9 | 922.9 | 917.7 | 917.7 |
| 12.5° | 958.3 | 937.5 | 924.2 | 914.7 | 909.6 | 909.6 |
| 15° | 960.6 | 933.4 | 914.7 | 903.7 | 899.1 | 898.5 |
| 17.5° | 953.1 | 917.7 | 895.1 | 882.3 | 876.5 | 874.7 |
| 20° | 929.9 | 889.3 | 861.9 | 847.5 | 839.2 | 836.4 |
| 22.5° | 895.1 | 848.5 | 816.6 | 801.5 | 791.0 | 789.3 |
| 25° | 846.2 | 796.3 | 765.0 | 750.4 | 744.6 | 742.9 |
| 27.5° | 789.3 | 742.9 | 716.0 | 706.8 | 701.7 | 701.0 |
| 30° | 735.4 | 695.8 | 676.1 | 669.1 | 662.6 | 661.6 |
| 32.5° | 684.7 | 659.8 | 652.3 | 642.3 | 627.2 | 625.5 |
| 35° | 648.8 | 646.5 | 641.3 | 619.2 | 600.6 | 595.4 |
| 37.5° | 626.7 | 648.2 | 621.4 | 577.9 | 564.6 | 563.3 |
| 40° | 613.9 | 630.2 | 584.3 | 569.2 | 570.4 | 569.2 |
| 42.5° | 584.9 | 601.7 | 585.4 | 578.5 | 583.1 | 584.3 |
| 45° | 555.8 | 574.3 | 594.2 | 589.6 | 600.6 | 600.6 |
| 47.5° | 539.5 | 567.5 | 593.6 | 593.6 | 609.8 | 615.6 |
| 50° | 520.9 | 561.6 | 584.3 | 592.4 | 605.2 | 600.6 |
| 52.5° | 519.8 | 551.8 | 570.9 | 585.4 | 591.3 | 586.0 |
| 55° | 521.6 | 543.7 | 557.6 | 573.8 | 580.8 | 581.4 |
| 57.5° | 523.9 | 538.9 | 548.3 | 555.8 | 576.8 | 576.8 |
| 60° | 529.7 | 535.0 | 540.2 | 544.2 | 571.5 | 572.1 |
| 62.5° | 538.9 | 530.9 | 529.7 | 533.7 | 568.5 | 566.3 |
| 65° | 553.5 | 525.1 | 516.4 | 520.4 | 565.8 | 558.8 |
| 67.5° | 573.3 | 516.4 | 499.6 | 502.4 | 563.3 | 548.3 |
| 70° | 591.3 | 502.4 | 478.5 | 475.8 | 541.3 | 514.6 |
| 72.5° | 592.9 | 486.1 | 449.5 | 440.9 | 470.5 | 444.9 |
| 75° | 564.0 | 475.1 | 417.6 | 392.0 | 388.5 | 385.0 |
| 77.5° | 508.2 | 468.7 | 380.4 | 340.4 | 333.3 | 335.8 |
| 80° | 425.1 | 444.9 | 335.8 | 288.1 | 325.8 | 321.8 |
| 82.5° | 317.7 | 392.7 | 285.1 | 255.0 | 254.3 | 224.7 |
| 85° | 176.6 | 306.0 | 232.2 | 191.1 | 133.0 | 128.9 |
| 87.5° | 49.3 | 170.2 | 162.6 | 108.0 | 73.8 | 76.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)