

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: P318059

Luminaire Tested: **GAN-SA5D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34656 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

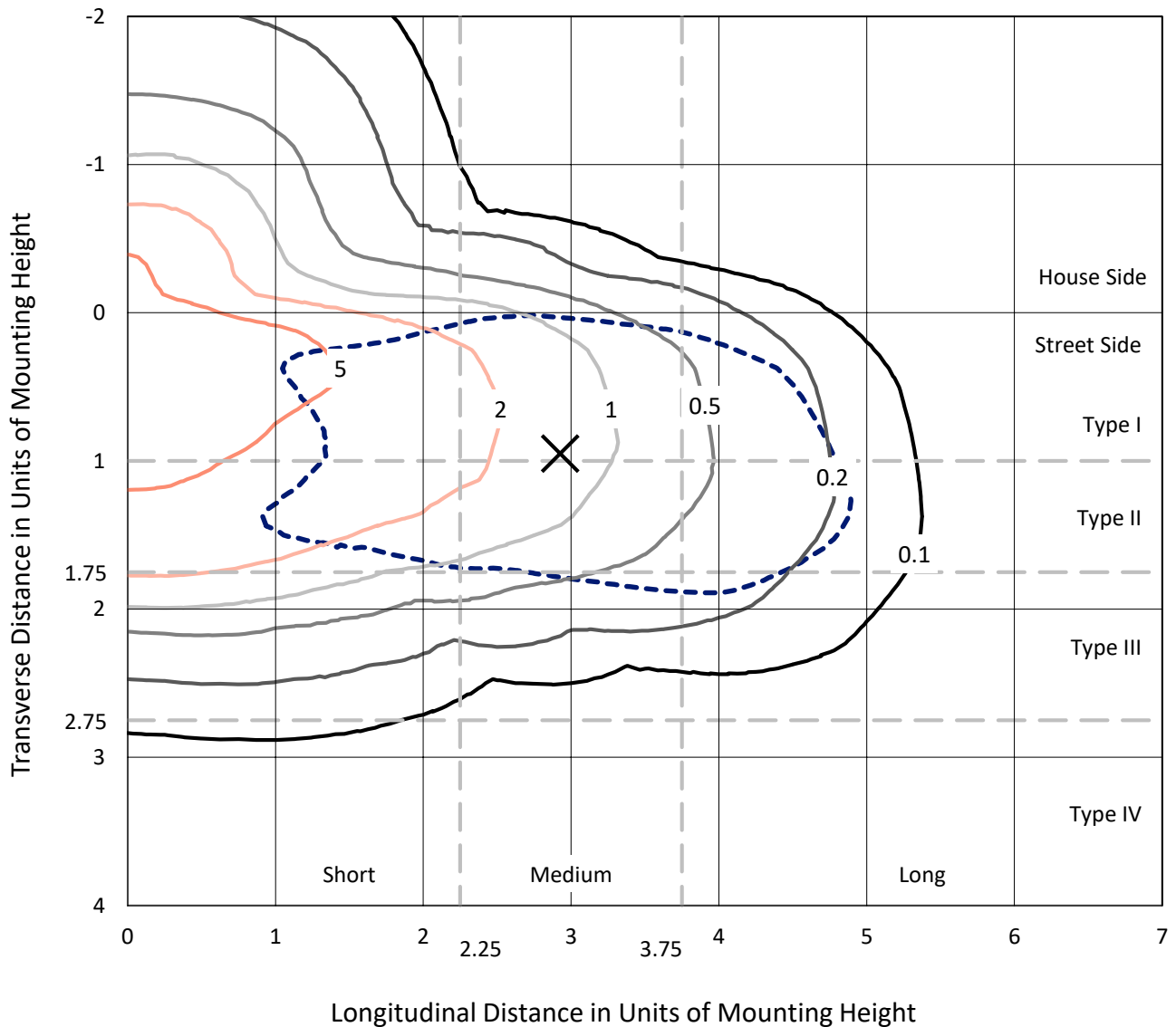
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

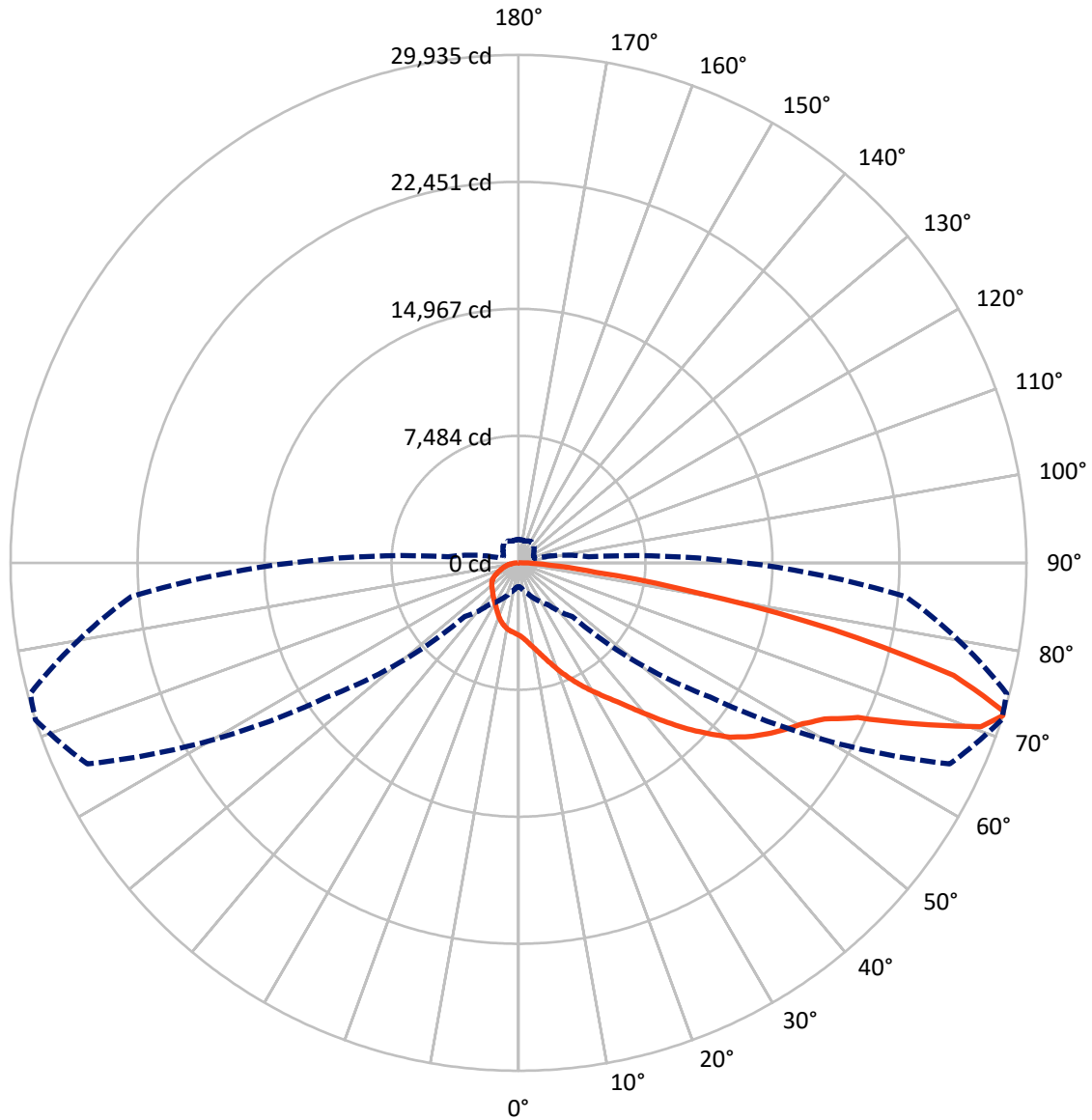
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6428.9 | 0.0 | 6428.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 28227.1 | 0.0 | 28227.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 34656.0 | 0.0 | 34656.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.2 | 1.2 |
| 10°-20° | 1380.6 | 4.0 |
| 20°-30° | 2419.2 | 7.0 |
| 30°-40° | 3586.9 | 10.4 |
| 40°-50° | 5246.2 | 15.1 |
| 50°-60° | 7218.7 | 20.8 |
| 60°-70° | 8036.6 | 23.2 |
| 70°-80° | 5445.6 | 15.7 |
| 80°-90° | 895.0 | 2.6 |
| 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° | 34656.0 | 100.0 |
| 0°-180° | 34656.0 | 100.0 |

Coefficient of Utilization

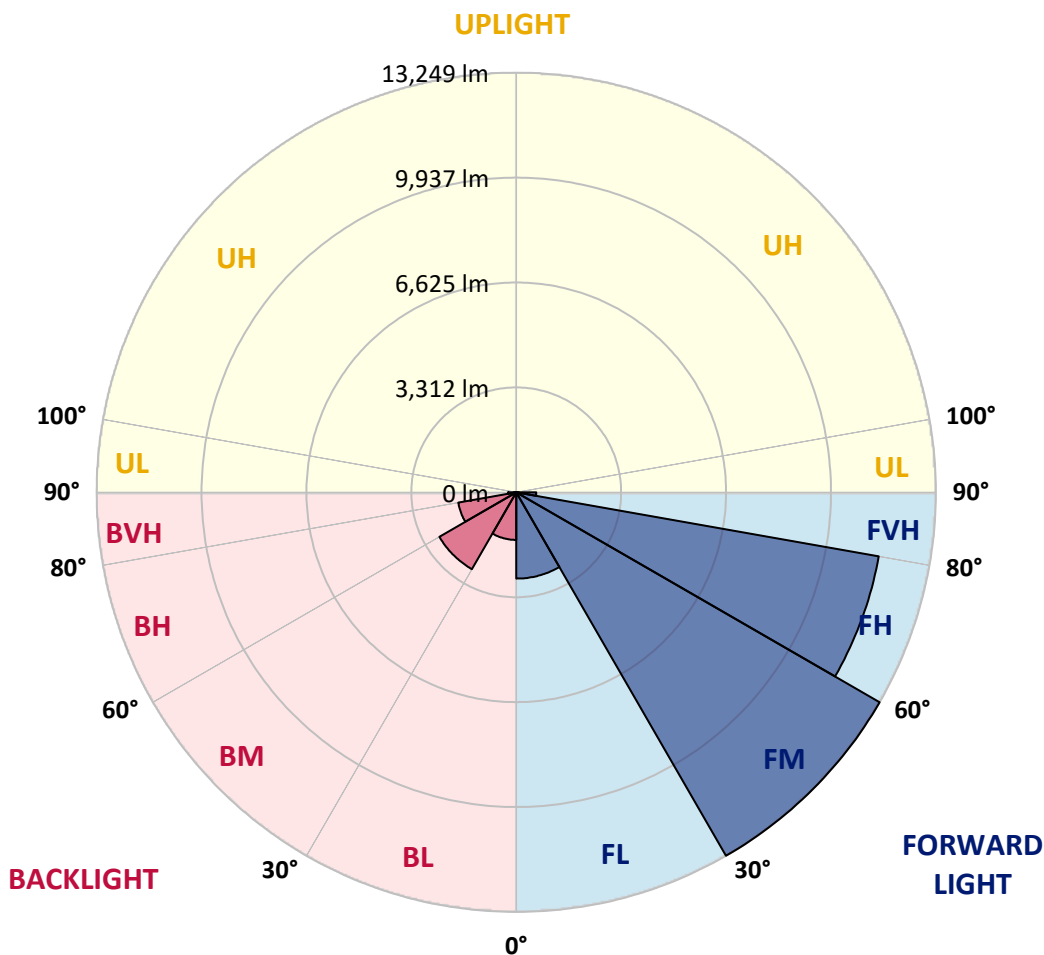


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2724.2 | 7.9 | | | |
| FM (30°-60°) | 13249.4 | 38.2 | | | |
| FH (60°-80°) | 11622.2 | 33.5 | | | G4/12000 |
| FVH (80°-90°) | 631.3 | 1.8 | | | G4/750 |
| BL (0°-30°) | 1502.8 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2802.4 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 1860.0 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 263.7 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 |
| 2.5° | 4709.9 | 4702.7 | 4677.7 | 4677.7 | 4629.9 | 4589.4 | 4513.0 | 4461.7 | 4400.8 | 4379.3 | 4307.7 |
| 5° | 5165.7 | 5168.1 | 5137.1 | 5115.6 | 5045.2 | 4959.3 | 4829.2 | 4711.1 | 4592.9 | 4545.2 | 4398.4 |
| 7.5° | 5548.8 | 5544.0 | 5535.6 | 5517.7 | 5452.1 | 5363.8 | 5188.4 | 5013.0 | 4838.8 | 4767.2 | 4514.2 |
| 10° | 5794.6 | 5805.3 | 5812.5 | 5820.8 | 5793.4 | 5730.1 | 5564.3 | 5350.7 | 5122.8 | 5024.9 | 4652.6 |
| 12.5° | 5918.7 | 5937.8 | 5971.2 | 6028.5 | 6073.8 | 6066.6 | 5946.1 | 5719.4 | 5448.5 | 5325.6 | 4825.6 |
| 15° | 5991.5 | 6016.5 | 6069.0 | 6171.6 | 6299.3 | 6372.1 | 6339.9 | 6134.7 | 5832.8 | 5681.2 | 5036.8 |
| 17.5° | 6036.8 | 6057.1 | 6138.2 | 6275.5 | 6465.2 | 6658.5 | 6743.2 | 6571.4 | 6267.1 | 6094.1 | 5279.1 |
| 20° | 6067.8 | 6083.3 | 6184.8 | 6345.9 | 6591.7 | 6899.5 | 7135.8 | 7092.9 | 6745.6 | 6521.3 | 5532.0 |
| 22.5° | 6137.0 | 6150.2 | 6246.8 | 6409.1 | 6681.2 | 7078.5 | 7514.1 | 7578.5 | 7250.4 | 6996.2 | 5802.9 |
| 25° | 6330.4 | 6330.4 | 6411.5 | 6524.9 | 6780.2 | 7233.7 | 7833.9 | 8119.1 | 7765.9 | 7469.9 | 6053.5 |
| 27.5° | 6699.1 | 6695.5 | 6725.3 | 6764.7 | 6958.0 | 7391.2 | 8119.1 | 8596.4 | 8300.5 | 7977.1 | 6296.9 |
| 30° | 7135.8 | 7159.7 | 7163.3 | 7144.2 | 7234.9 | 7588.1 | 8382.8 | 9100.0 | 8838.6 | 8490.2 | 6546.3 |
| 32.5° | 7697.9 | 7713.4 | 7695.5 | 7632.2 | 7619.1 | 7867.3 | 8641.7 | 9627.4 | 9421.0 | 9026.0 | 6774.3 |
| 35° | 8411.4 | 8381.6 | 8325.5 | 8196.6 | 8073.7 | 8240.8 | 8937.7 | 10154.8 | 10074.9 | 9673.9 | 7088.1 |
| 37.5° | 9176.3 | 9177.5 | 9108.3 | 8816.0 | 8646.5 | 8718.1 | 9345.8 | 10752.7 | 10866.0 | 10444.8 | 7490.2 |
| 40° | 9789.7 | 9821.9 | 9864.9 | 9480.6 | 9261.1 | 9360.1 | 9864.9 | 11445.9 | 11801.5 | 11358.8 | 8014.1 |
| 42.5° | 10218.1 | 10255.1 | 10376.8 | 10135.7 | 9907.8 | 10091.6 | 10475.8 | 12185.8 | 12851.6 | 12413.7 | 8627.4 |
| 45° | 10671.5 | 10691.8 | 10777.7 | 10673.9 | 10528.3 | 10942.4 | 11164.3 | 12951.9 | 13962.6 | 13537.8 | 9313.6 |
| 47.5° | 11148.8 | 11170.3 | 11258.6 | 11189.4 | 11113.0 | 11737.1 | 11882.7 | 13673.8 | 15027.0 | 14772.8 | 10046.2 |
| 50° | 11738.3 | 11752.6 | 11836.2 | 11710.9 | 11734.7 | 12336.1 | 12524.7 | 14336.1 | 16142.7 | 15882.6 | 10781.3 |
| 52.5° | 12542.6 | 12546.2 | 12661.9 | 12548.5 | 12436.4 | 12775.3 | 13077.2 | 14960.2 | 17017.4 | 16894.5 | 11516.4 |
| 55° | 13172.6 | 13210.8 | 13590.3 | 13566.4 | 13502.0 | 13173.8 | 13539.0 | 15554.4 | 17797.8 | 17856.3 | 12296.8 |
| 57.5° | 12770.5 | 12919.7 | 13688.1 | 14229.9 | 14757.3 | 14165.4 | 14163.0 | 16223.8 | 18523.3 | 18800.1 | 13154.7 |
| 60° | 11184.6 | 11387.5 | 12519.9 | 13721.5 | 15371.8 | 15890.9 | 15459.0 | 17041.2 | 19256.0 | 19735.7 | 14229.9 |
| 62.5° | 7987.8 | 8321.9 | 9856.5 | 11775.3 | 14529.4 | 17034.1 | 18096.1 | 18338.3 | 20252.4 | 20819.2 | 15627.2 |
| 65° | 4038.1 | 4291.0 | 5577.4 | 7888.8 | 11608.2 | 16287.1 | 20962.4 | 21178.3 | 21983.8 | 22487.4 | 17778.7 |
| 67.5° | 2453.4 | 2548.8 | 3176.5 | 4387.7 | 7116.7 | 12687.0 | 21897.9 | 25912.1 | 25334.5 | 25601.8 | 20846.6 |
| 70° | 1807.8 | 1878.2 | 2269.6 | 2914.0 | 4093.0 | 7444.9 | 19026.9 | 29290.3 | 28910.8 | 28881.0 | 23113.8 |
| 72° | 1408.1 | 1459.4 | 1805.4 | 2354.3 | 2992.7 | 4466.4 | 13790.7 | 28043.3 | 29934.6 | 29784.3 | 22906.2 |
| 72.5° | 1335.3 | 1380.6 | 1695.7 | 2215.9 | 2828.1 | 4048.8 | 12399.4 | 27202.0 | 29860.7 | 29792.6 | 22637.7 |
| 75° | 1051.3 | 1083.5 | 1255.3 | 1713.6 | 2213.5 | 2297.1 | 6794.5 | 21080.5 | 26489.6 | 27591.0 | 20360.9 |
| 77.5° | 869.9 | 874.7 | 965.4 | 1247.0 | 1725.5 | 1624.1 | 3337.6 | 14626.0 | 18968.4 | 20179.6 | 14423.2 |
| 80° | 708.8 | 714.8 | 757.7 | 874.7 | 1305.4 | 1201.6 | 1584.7 | 8410.2 | 10620.2 | 10633.3 | 6859.0 |
| 82.5° | 564.4 | 565.6 | 613.3 | 639.6 | 937.9 | 859.2 | 908.1 | 3948.6 | 4640.7 | 4464.1 | 2465.3 |
| 85° | 397.4 | 389.0 | 599.0 | 525.0 | 613.3 | 551.3 | 501.2 | 1563.2 | 1918.8 | 1835.3 | 772.1 |
| 87.5° | 132.5 | 137.2 | 266.1 | 340.1 | 358.0 | 312.6 | 223.1 | 599.0 | 724.3 | 718.4 | 244.6 |
| 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° | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 | 4263.6 |
| 2.5° | 4285.1 | 4246.9 | 4190.8 | 4128.8 | 4079.8 | 4029.7 | 3992.7 | 3973.6 | 3952.1 | 3934.2 | 3955.7 |
| 5° | 4330.4 | 4258.8 | 4139.5 | 4022.5 | 3936.6 | 3860.3 | 3805.4 | 3776.7 | 3750.5 | 3732.6 | 3735.0 |
| 7.5° | 4404.4 | 4288.7 | 4088.2 | 3917.5 | 3798.2 | 3715.9 | 3659.8 | 3640.7 | 3624.0 | 3619.2 | 3625.2 |
| 10° | 4483.2 | 4312.5 | 4020.2 | 3793.4 | 3657.4 | 3589.4 | 3564.3 | 3577.5 | 3589.4 | 3600.1 | 3612.1 |
| 12.5° | 4572.7 | 4334.0 | 3921.1 | 3647.9 | 3532.1 | 3505.9 | 3530.9 | 3588.2 | 3630.0 | 3655.0 | 3670.5 |
| 15° | 4689.6 | 4353.1 | 3806.6 | 3502.3 | 3424.7 | 3454.5 | 3539.3 | 3638.3 | 3711.1 | 3757.6 | 3764.8 |
| 17.5° | 4797.0 | 4351.9 | 3659.8 | 3355.5 | 3337.6 | 3424.7 | 3552.4 | 3692.0 | 3789.9 | 3855.5 | 3868.6 |
| 20° | 4908.0 | 4319.7 | 3489.2 | 3212.3 | 3249.3 | 3392.5 | 3558.4 | 3726.6 | 3844.8 | 3921.1 | 3939.0 |
| 22.5° | 5011.8 | 4263.6 | 3301.8 | 3082.2 | 3175.3 | 3349.5 | 3535.7 | 3706.3 | 3824.5 | 3886.5 | 3905.6 |
| 25° | 5082.2 | 4165.7 | 3112.1 | 2972.5 | 3109.7 | 3297.0 | 3461.7 | 3598.9 | 3687.2 | 3718.3 | 3723.0 |
| 27.5° | 5118.0 | 4038.1 | 2933.1 | 2877.0 | 3041.7 | 3211.1 | 3324.5 | 3392.5 | 3417.6 | 3415.2 | 3410.4 |
| 30° | 5122.8 | 3869.8 | 2779.2 | 2799.4 | 2962.9 | 3084.6 | 3138.3 | 3125.2 | 3093.0 | 3038.1 | 3042.9 |
| 32.5° | 5107.2 | 3680.1 | 2650.3 | 2725.5 | 2862.7 | 2930.7 | 2933.1 | 2869.8 | 2783.9 | 2696.8 | 2672.9 |
| 35° | 5112.0 | 3493.9 | 2536.9 | 2641.9 | 2741.0 | 2770.8 | 2743.4 | 2650.3 | 2533.3 | 2421.2 | 2397.3 |
| 37.5° | 5164.5 | 3331.6 | 2439.1 | 2545.3 | 2606.1 | 2613.3 | 2573.9 | 2476.1 | 2390.1 | 2280.4 | 2270.8 |
| 40° | 5289.8 | 3215.9 | 2346.0 | 2436.7 | 2471.3 | 2474.9 | 2418.8 | 2349.6 | 2356.7 | 2298.3 | 2297.1 |
| 42.5° | 5515.3 | 3165.8 | 2263.7 | 2323.3 | 2344.8 | 2352.0 | 2309.0 | 2264.8 | 2326.9 | 2288.7 | 2275.6 |
| 45° | 5806.5 | 3177.7 | 2194.4 | 2212.3 | 2251.7 | 2285.1 | 2258.9 | 2205.2 | 2229.0 | 2063.2 | 2008.3 |
| 47.5° | 6143.0 | 3254.1 | 2139.6 | 2116.9 | 2184.9 | 2248.1 | 2207.6 | 2126.4 | 2041.7 | 1877.0 | 1846.0 |
| 50° | 6536.8 | 3372.2 | 2089.4 | 2022.6 | 2112.1 | 2198.0 | 2157.5 | 2041.7 | 1914.0 | 1834.1 | 1823.3 |
| 52.5° | 6947.3 | 3516.6 | 2039.3 | 1918.8 | 2020.2 | 2159.8 | 2139.6 | 2022.6 | 1865.1 | 1786.3 | 1772.0 |
| 55° | 7412.7 | 3662.2 | 1976.1 | 1798.3 | 1921.2 | 2141.9 | 2131.2 | 1953.4 | 1828.1 | 1784.0 | 1773.2 |
| 57.5° | 7991.4 | 3828.0 | 1892.5 | 1673.0 | 1828.1 | 2077.5 | 2044.1 | 1911.6 | 1789.9 | 1756.5 | 1752.9 |
| 60° | 8745.6 | 4072.7 | 1772.0 | 1539.3 | 1714.7 | 1978.5 | 1971.3 | 1850.8 | 1729.1 | 1705.2 | 1700.4 |
| 62.5° | 9876.8 | 4477.2 | 1606.2 | 1405.7 | 1588.3 | 1810.2 | 1875.8 | 1768.4 | 1664.6 | 1663.4 | 1665.8 |
| 65° | 11630.9 | 5085.8 | 1426.0 | 1288.7 | 1460.6 | 1668.2 | 1764.9 | 1683.7 | 1599.0 | 1622.9 | 1626.4 |
| 67.5° | 13664.3 | 5590.5 | 1249.4 | 1174.2 | 1330.5 | 1533.4 | 1664.6 | 1599.0 | 1511.9 | 1573.9 | 1575.1 |
| 70° | 14340.8 | 5139.5 | 1094.2 | 1060.8 | 1195.7 | 1403.3 | 1556.0 | 1505.9 | 1417.6 | 1479.7 | 1473.7 |
| 72° | 13345.7 | 4149.0 | 994.0 | 974.9 | 1094.2 | 1295.9 | 1459.4 | 1418.8 | 1331.7 | 1373.5 | 1358.0 |
| 72.5° | 13031.8 | 3955.7 | 968.9 | 953.4 | 1066.8 | 1268.5 | 1434.3 | 1397.3 | 1310.2 | 1346.0 | 1331.7 |
| 75° | 11624.9 | 3435.5 | 832.9 | 836.5 | 930.8 | 1134.8 | 1293.5 | 1281.6 | 1192.1 | 1195.7 | 1190.9 |
| 77.5° | 8431.7 | 2519.0 | 701.6 | 725.5 | 792.3 | 997.6 | 1151.5 | 1144.4 | 1046.5 | 1028.6 | 1025.0 |
| 80° | 3912.8 | 1285.2 | 571.6 | 582.3 | 651.5 | 834.1 | 982.1 | 972.5 | 893.8 | 871.1 | 858.0 |
| 82.5° | 1340.1 | 611.0 | 429.6 | 436.7 | 504.8 | 671.8 | 852.0 | 846.0 | 780.4 | 736.3 | 708.8 |
| 85° | 478.5 | 304.3 | 300.7 | 293.5 | 360.4 | 528.6 | 742.2 | 710.0 | 613.3 | 522.7 | 520.3 |
| 87.5° | 155.1 | 130.1 | 155.1 | 153.9 | 210.0 | 358.0 | 539.4 | 459.4 | 445.1 | 369.9 | 362.8 |
| 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)