

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: P193296

Luminaire Tested: **GAN-AF-08-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30187.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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

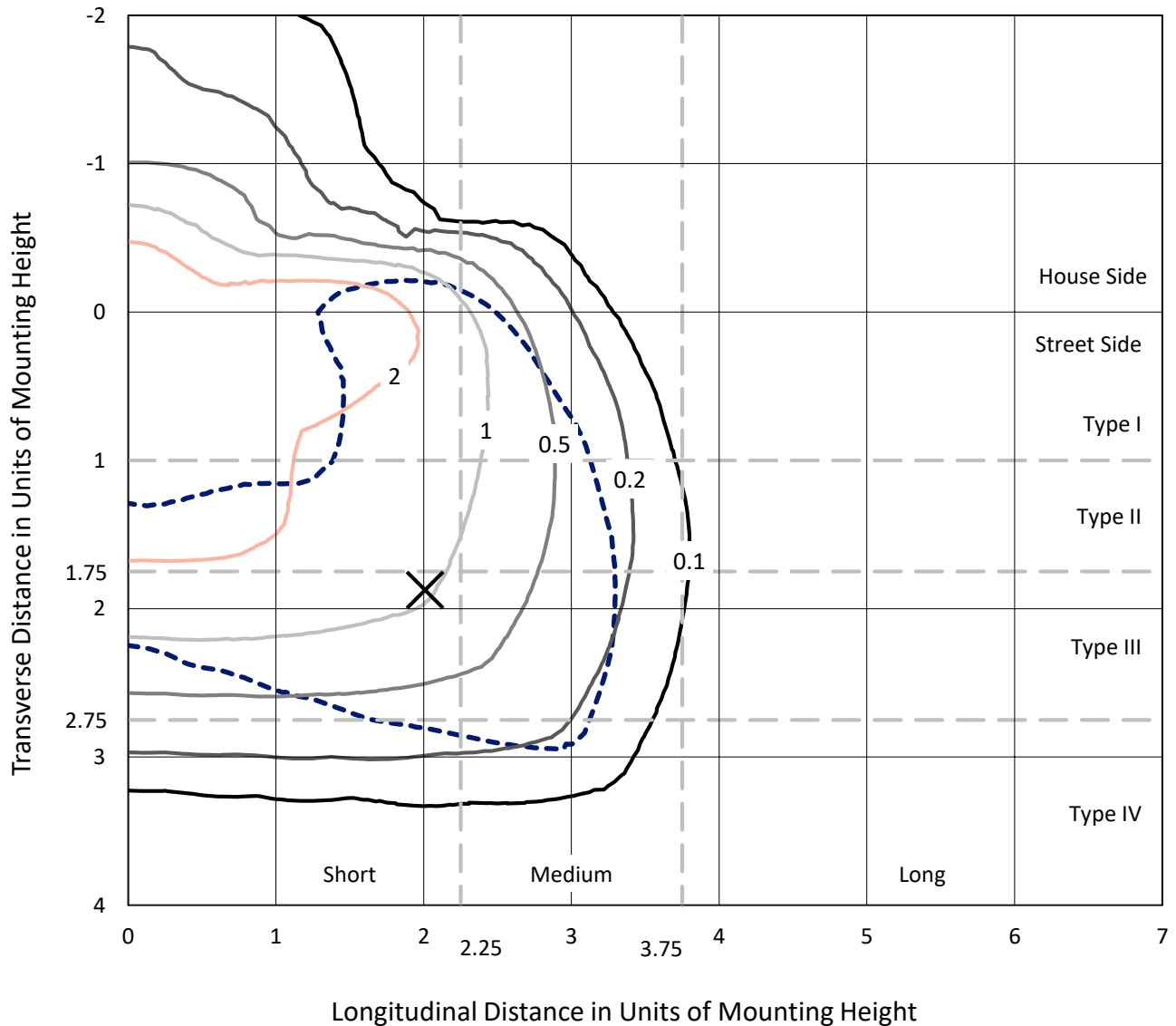


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

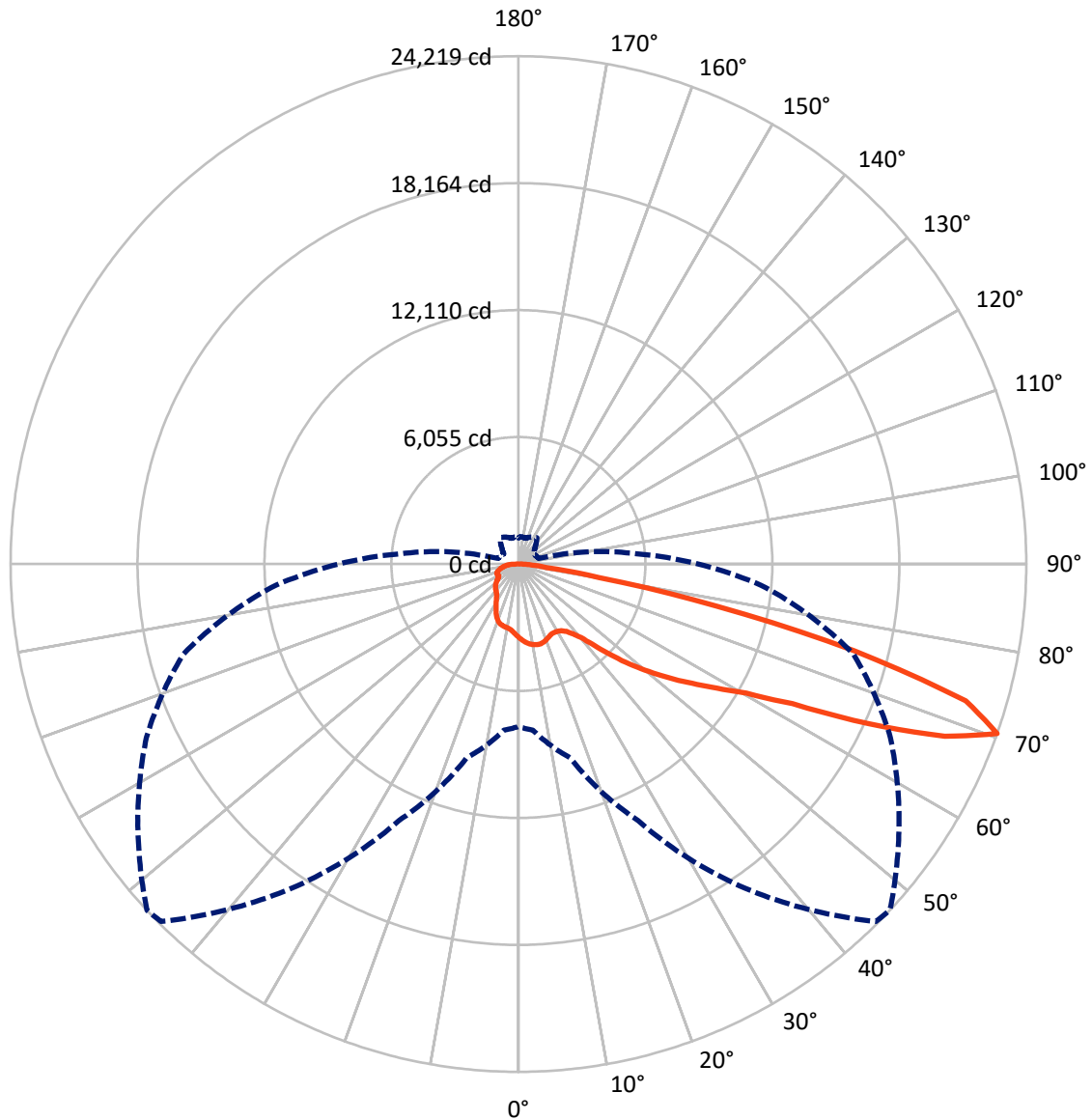


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6297.7 | 0.0 | 6297.7 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 23889.6 | 0.0 | 23889.6 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 30187.2 | 0.0 | 30187.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.6 | 1.1 |
| 10°-20° | 984.6 | 3.3 |
| 20°-30° | 1454.0 | 4.8 |
| 30°-40° | 2113.4 | 7.0 |
| 40°-50° | 3803.3 | 12.6 |
| 50°-60° | 6588.8 | 21.8 |
| 60°-70° | 9404.1 | 31.2 |
| 70°-80° | 4827.6 | 16.0 |
| 80°-90° | 675.9 | 2.2 |
| 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° | 30187.2 | 100.0 |
| 0°-180° | 30187.2 | 100.0 |



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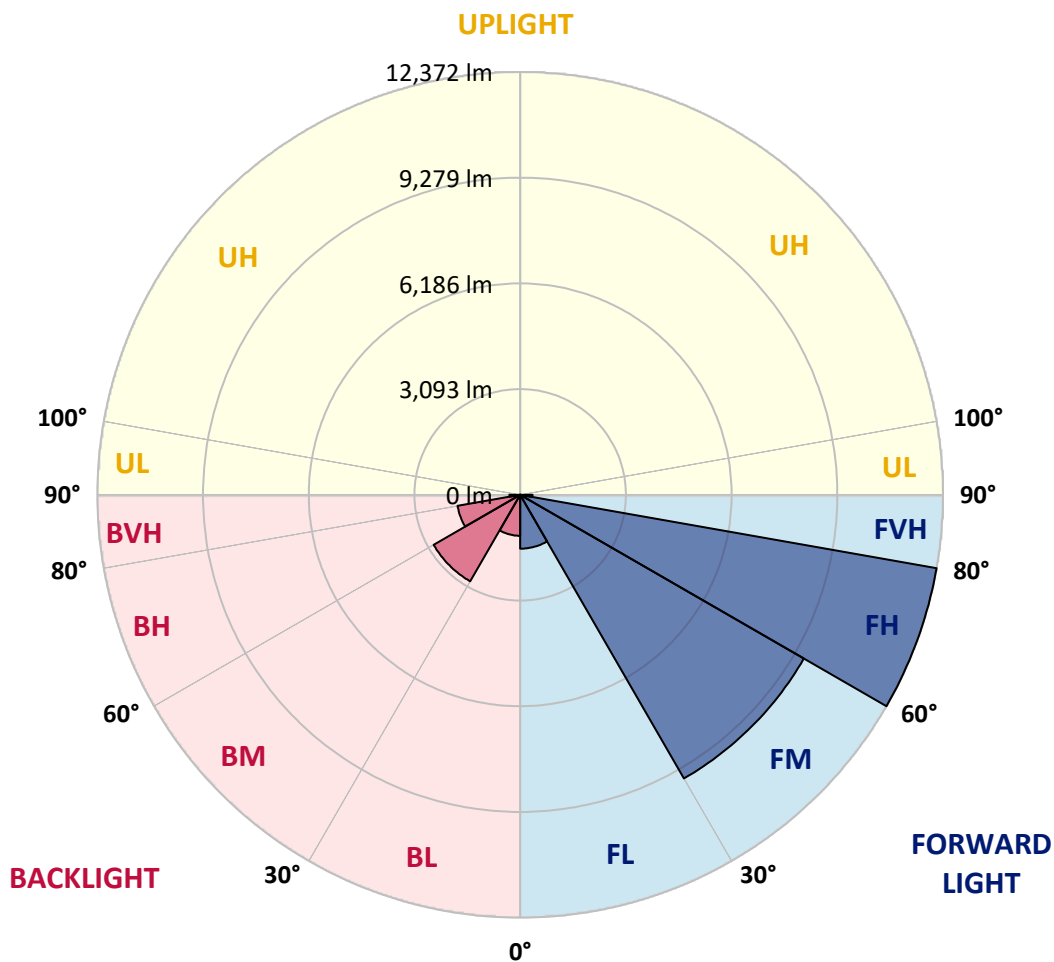
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1575.1 | 5.2 | | | |
| FM | (30°-60°) | 9582.3 | 31.7 | | | |
| FH | (60°-80°) | 12371.6 | 41.0 | | | G5 |
| FVH | (80°-90°) | 360.7 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1199.1 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2923.2 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 1860.1 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 315.2 | 1.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 |
| 2.5° | 3708.3 | 3700.9 | 3698.0 | 3692.1 | 3684.8 | 3648.0 | 3640.7 | 3614.3 | 3577.5 | 3539.4 | 3499.7 |
| 5° | 3952.0 | 3950.6 | 3934.4 | 3905.0 | 3858.1 | 3777.3 | 3758.2 | 3693.6 | 3606.9 | 3523.2 | 3439.5 |
| 7.5° | 4166.5 | 4153.3 | 4122.5 | 4063.7 | 3981.4 | 3871.3 | 3844.9 | 3755.2 | 3636.2 | 3521.8 | 3408.7 |
| 10° | 4323.6 | 4316.3 | 4248.8 | 4167.9 | 4060.7 | 3938.8 | 3907.9 | 3808.1 | 3677.4 | 3532.1 | 3391.1 |
| 12.5° | 4413.2 | 4398.6 | 4320.6 | 4223.8 | 4096.0 | 3977.0 | 3946.2 | 3844.9 | 3698.0 | 3532.1 | 3366.1 |
| 15° | 4407.3 | 4397.0 | 4319.2 | 4213.5 | 4084.2 | 3980.0 | 3952.0 | 3850.8 | 3693.6 | 3517.4 | 3333.7 |
| 17.5° | 4289.8 | 4294.2 | 4228.2 | 4123.9 | 4018.1 | 3938.8 | 3913.8 | 3819.9 | 3664.2 | 3488.0 | 3295.6 |
| 20° | 4084.2 | 4104.8 | 4060.7 | 3968.2 | 3909.6 | 3855.1 | 3839.0 | 3759.7 | 3618.6 | 3445.4 | 3254.5 |
| 22.5° | 3878.6 | 3897.8 | 3880.2 | 3802.2 | 3793.5 | 3761.1 | 3752.3 | 3695.0 | 3579.0 | 3418.9 | 3229.4 |
| 25° | 3727.4 | 3745.0 | 3742.0 | 3674.5 | 3700.9 | 3699.4 | 3692.1 | 3664.2 | 3570.3 | 3418.9 | 3233.8 |
| 27.5° | 3686.2 | 3692.1 | 3686.2 | 3624.5 | 3661.3 | 3690.7 | 3684.8 | 3680.4 | 3596.7 | 3461.6 | 3289.7 |
| 30° | 3827.3 | 3818.4 | 3772.8 | 3648.0 | 3681.8 | 3722.9 | 3717.1 | 3720.1 | 3675.9 | 3573.1 | 3414.6 |
| 32.5° | 4389.7 | 4350.0 | 4206.2 | 3855.1 | 3765.5 | 3787.6 | 3790.5 | 3839.0 | 3846.4 | 3745.0 | 3608.4 |
| 35° | 5231.3 | 5187.2 | 5000.7 | 4410.2 | 4025.4 | 3949.0 | 3949.0 | 4022.6 | 4066.6 | 3991.7 | 3909.6 |
| 37.5° | 6122.7 | 6074.3 | 5974.3 | 5179.9 | 4571.9 | 4229.7 | 4222.4 | 4273.6 | 4336.8 | 4354.4 | 4375.1 |
| 40° | 7136.0 | 7084.6 | 7112.6 | 6043.3 | 5334.0 | 4715.7 | 4611.5 | 4574.8 | 4745.1 | 4858.2 | 5022.6 |
| 42.5° | 8244.8 | 8221.3 | 8231.6 | 7005.2 | 6202.0 | 5442.8 | 5294.3 | 5104.9 | 5310.5 | 5511.7 | 5856.9 |
| 45° | 9271.4 | 9292.0 | 9281.7 | 8034.8 | 7168.4 | 6329.7 | 6172.6 | 5805.5 | 6006.6 | 6351.8 | 6914.3 |
| 47.5° | 10170.2 | 10085.0 | 10217.2 | 9159.8 | 8250.7 | 7322.5 | 7128.7 | 6636.7 | 6840.8 | 7266.8 | 8218.4 |
| 50° | 11261.4 | 11249.7 | 11055.7 | 10660.8 | 9559.2 | 8319.8 | 8065.6 | 7495.8 | 7813.0 | 8404.9 | 9861.7 |
| 52.5° | 12408.3 | 12195.4 | 12017.8 | 11828.3 | 10947.1 | 9341.8 | 9030.5 | 8352.0 | 8955.7 | 9700.2 | 11865.0 |
| 55° | 12643.4 | 12547.9 | 12768.1 | 13086.8 | 12285.0 | 10403.6 | 10040.9 | 9425.6 | 10242.2 | 11180.6 | 14175.1 |
| 57.5° | 13145.6 | 13144.1 | 13599.4 | 14167.7 | 13662.6 | 11530.1 | 11164.4 | 10722.3 | 11688.8 | 12876.9 | 16627.7 |
| 60° | 13484.9 | 13580.4 | 14426.3 | 15529.2 | 15015.2 | 12831.3 | 12495.0 | 12218.9 | 13333.6 | 14772.8 | 18912.9 |
| 62.5° | 13662.6 | 13791.8 | 14946.1 | 16081.5 | 16927.3 | 14997.6 | 14661.3 | 14263.2 | 15510.1 | 16852.3 | 20249.3 |
| 65° | 12923.8 | 13178.0 | 14865.4 | 16558.7 | 18601.5 | 18509.1 | 18357.7 | 17658.7 | 18231.4 | 18495.9 | 19766.2 |
| 67.5° | 10879.5 | 11139.5 | 13104.4 | 16113.7 | 19797.0 | 21895.7 | 21928.0 | 20734.0 | 19905.7 | 18636.8 | 16618.9 |
| 70° | 7751.4 | 7955.5 | 9581.3 | 13509.8 | 18886.4 | 24108.8 | 24219.1 | 22151.2 | 19572.2 | 16527.8 | 11610.9 |
| 72.5° | 3680.4 | 3805.2 | 5344.3 | 8792.6 | 14987.3 | 22089.5 | 22302.4 | 20341.9 | 16642.4 | 12236.5 | 6334.2 |
| 75° | 1352.6 | 1390.8 | 1806.4 | 3740.6 | 8692.7 | 16289.9 | 16541.1 | 14582.0 | 11032.2 | 6091.9 | 2413.0 |
| 77.5° | 810.7 | 835.7 | 1013.4 | 1578.8 | 3418.9 | 9311.1 | 9682.7 | 7930.6 | 4821.5 | 2267.5 | 1186.7 |
| 80° | 566.8 | 584.5 | 727.0 | 982.5 | 1615.5 | 3548.2 | 3878.6 | 3236.8 | 1921.0 | 1434.8 | 863.5 |
| 82.5° | 383.3 | 392.1 | 511.2 | 663.9 | 1073.6 | 1267.4 | 1367.3 | 1439.3 | 1295.4 | 1067.7 | 547.8 |
| 85° | 251.2 | 259.9 | 346.6 | 437.7 | 682.9 | 655.0 | 669.6 | 847.5 | 945.7 | 725.5 | 304.0 |
| 87.5° | 143.9 | 149.8 | 208.5 | 233.5 | 334.9 | 277.5 | 280.5 | 446.5 | 605.1 | 489.1 | 185.0 |
| 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° | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 | 3502.7 |
| 2.5° | 3489.4 | 3470.4 | 3427.8 | 3401.3 | 3376.3 | 3370.4 | 3360.2 | 3358.7 | 3357.3 | 3357.3 | 3352.8 |
| 5° | 3411.6 | 3379.3 | 3313.2 | 3276.4 | 3245.6 | 3242.7 | 3241.2 | 3248.6 | 3251.5 | 3254.5 | 3250.0 |
| 7.5° | 3361.7 | 3317.6 | 3235.3 | 3182.5 | 3145.8 | 3137.0 | 3151.7 | 3185.5 | 3207.5 | 3216.3 | 3211.9 |
| 10° | 3330.9 | 3276.4 | 3181.1 | 3123.7 | 3092.9 | 3088.5 | 3107.6 | 3147.2 | 3192.8 | 3210.4 | 3209.0 |
| 12.5° | 3295.6 | 3233.8 | 3132.6 | 3072.4 | 3054.8 | 3063.5 | 3088.5 | 3125.3 | 3172.3 | 3200.1 | 3201.7 |
| 15° | 3260.3 | 3188.4 | 3084.1 | 3031.2 | 3023.9 | 3035.7 | 3059.2 | 3087.0 | 3123.7 | 3151.7 | 3154.7 |
| 17.5° | 3217.8 | 3142.9 | 3038.6 | 2984.2 | 2978.4 | 2984.2 | 2985.7 | 3000.4 | 3023.9 | 3050.3 | 3057.6 |
| 20° | 3172.3 | 3095.9 | 2987.1 | 2932.8 | 2906.4 | 2883.0 | 2856.5 | 2859.5 | 2866.8 | 2893.1 | 2899.0 |
| 22.5° | 3139.9 | 3063.5 | 2947.5 | 2872.7 | 2802.2 | 2731.6 | 2678.7 | 2671.4 | 2674.3 | 2696.4 | 2703.7 |
| 25° | 3142.9 | 3062.1 | 2937.2 | 2808.0 | 2653.8 | 2540.8 | 2470.3 | 2458.5 | 2457.0 | 2473.2 | 2483.5 |
| 27.5° | 3200.1 | 3119.4 | 2975.4 | 2741.9 | 2492.2 | 2324.8 | 2249.9 | 2241.1 | 2229.3 | 2233.8 | 2245.5 |
| 30° | 3327.9 | 3252.9 | 3068.0 | 2674.3 | 2317.5 | 2113.3 | 2035.5 | 2026.6 | 2010.6 | 2003.2 | 2012.0 |
| 32.5° | 3536.4 | 3474.8 | 3203.1 | 2609.7 | 2142.7 | 1932.7 | 1853.4 | 1834.4 | 1824.0 | 1815.3 | 1822.6 |
| 35° | 3883.1 | 3856.7 | 3383.6 | 2539.3 | 1988.5 | 1793.2 | 1721.3 | 1691.9 | 1677.1 | 1693.3 | 1705.1 |
| 37.5° | 4426.4 | 4441.1 | 3620.2 | 2429.1 | 1869.5 | 1700.6 | 1640.4 | 1606.6 | 1584.6 | 1597.8 | 1611.0 |
| 40° | 5196.0 | 5206.3 | 3881.6 | 2273.4 | 1766.7 | 1646.3 | 1581.7 | 1550.8 | 1520.1 | 1496.6 | 1495.1 |
| 42.5° | 6206.4 | 6102.1 | 4138.5 | 2104.6 | 1647.7 | 1612.5 | 1540.5 | 1502.5 | 1455.5 | 1390.8 | 1377.5 |
| 45° | 7404.8 | 7039.1 | 4333.9 | 1910.7 | 1514.2 | 1571.4 | 1495.1 | 1442.2 | 1368.8 | 1298.2 | 1290.9 |
| 47.5° | 8785.3 | 8045.1 | 4429.4 | 1709.5 | 1389.3 | 1511.2 | 1439.3 | 1355.6 | 1263.0 | 1227.7 | 1223.3 |
| 50° | 10471.3 | 9239.1 | 4474.9 | 1514.2 | 1280.6 | 1432.0 | 1358.4 | 1260.1 | 1182.1 | 1174.9 | 1170.5 |
| 52.5° | 12390.8 | 10675.4 | 4489.6 | 1354.0 | 1191.0 | 1329.1 | 1292.4 | 1196.9 | 1135.2 | 1141.1 | 1141.1 |
| 55° | 14399.9 | 12158.7 | 4289.8 | 1238.0 | 1108.8 | 1223.3 | 1248.3 | 1172.0 | 1120.6 | 1144.1 | 1152.9 |
| 57.5° | 16244.4 | 13473.1 | 3661.3 | 1148.5 | 1031.0 | 1142.7 | 1232.2 | 1195.4 | 1160.3 | 1255.7 | 1261.5 |
| 60° | 17660.1 | 14250.0 | 2734.5 | 1067.7 | 973.7 | 1114.7 | 1274.7 | 1285.0 | 1293.8 | 1521.6 | 1552.3 |
| 62.5° | 17956.9 | 13991.5 | 1879.8 | 1004.5 | 947.3 | 1138.2 | 1352.6 | 1354.0 | 1343.8 | 1502.5 | 1521.6 |
| 65° | 16595.4 | 12357.0 | 1367.3 | 969.2 | 925.2 | 1180.8 | 1418.7 | 1387.8 | 1320.3 | 1440.7 | 1405.5 |
| 67.5° | 13179.4 | 9309.6 | 1138.2 | 942.9 | 892.8 | 1177.9 | 1489.2 | 1418.7 | 1307.1 | 1411.3 | 1354.0 |
| 70° | 8554.7 | 5629.2 | 1013.4 | 920.8 | 854.7 | 1122.0 | 1530.2 | 1415.8 | 1268.9 | 1313.0 | 1245.3 |
| 72.5° | 4173.8 | 2517.3 | 929.7 | 888.5 | 815.1 | 1044.2 | 1528.9 | 1389.3 | 1229.2 | 1226.3 | 1189.7 |
| 75° | 1633.1 | 1152.9 | 853.4 | 840.1 | 747.6 | 956.0 | 1487.7 | 1351.1 | 1182.1 | 1135.2 | 1122.0 |
| 77.5° | 956.0 | 822.4 | 756.3 | 768.1 | 666.7 | 867.9 | 1427.5 | 1285.0 | 1117.6 | 1061.8 | 1047.1 |
| 80° | 696.1 | 615.3 | 644.7 | 663.9 | 569.8 | 779.8 | 1346.7 | 1204.2 | 1045.6 | 1073.6 | 1053.0 |
| 82.5° | 446.5 | 396.5 | 522.8 | 541.9 | 474.4 | 690.3 | 1258.5 | 1119.2 | 944.3 | 857.6 | 837.2 |
| 85° | 227.6 | 251.2 | 389.2 | 412.7 | 365.7 | 566.8 | 1151.4 | 1006.1 | 829.9 | 713.8 | 725.5 |
| 87.5° | 127.8 | 171.9 | 248.2 | 277.5 | 258.5 | 436.2 | 934.0 | 829.9 | 677.1 | 550.7 | 484.7 |
| 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)