

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: P324747

Luminaire Tested: **GAN-SA3A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10606 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

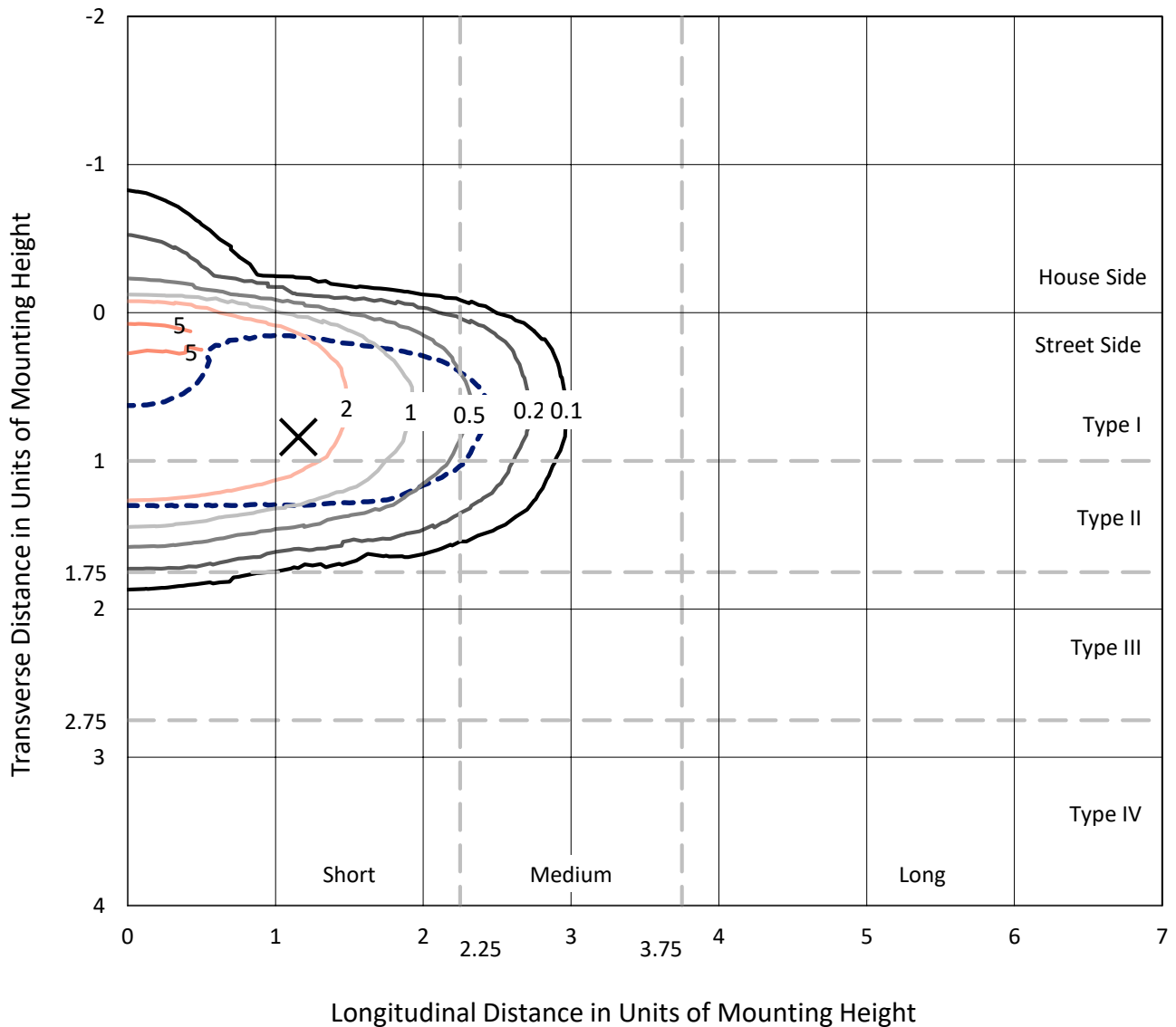
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

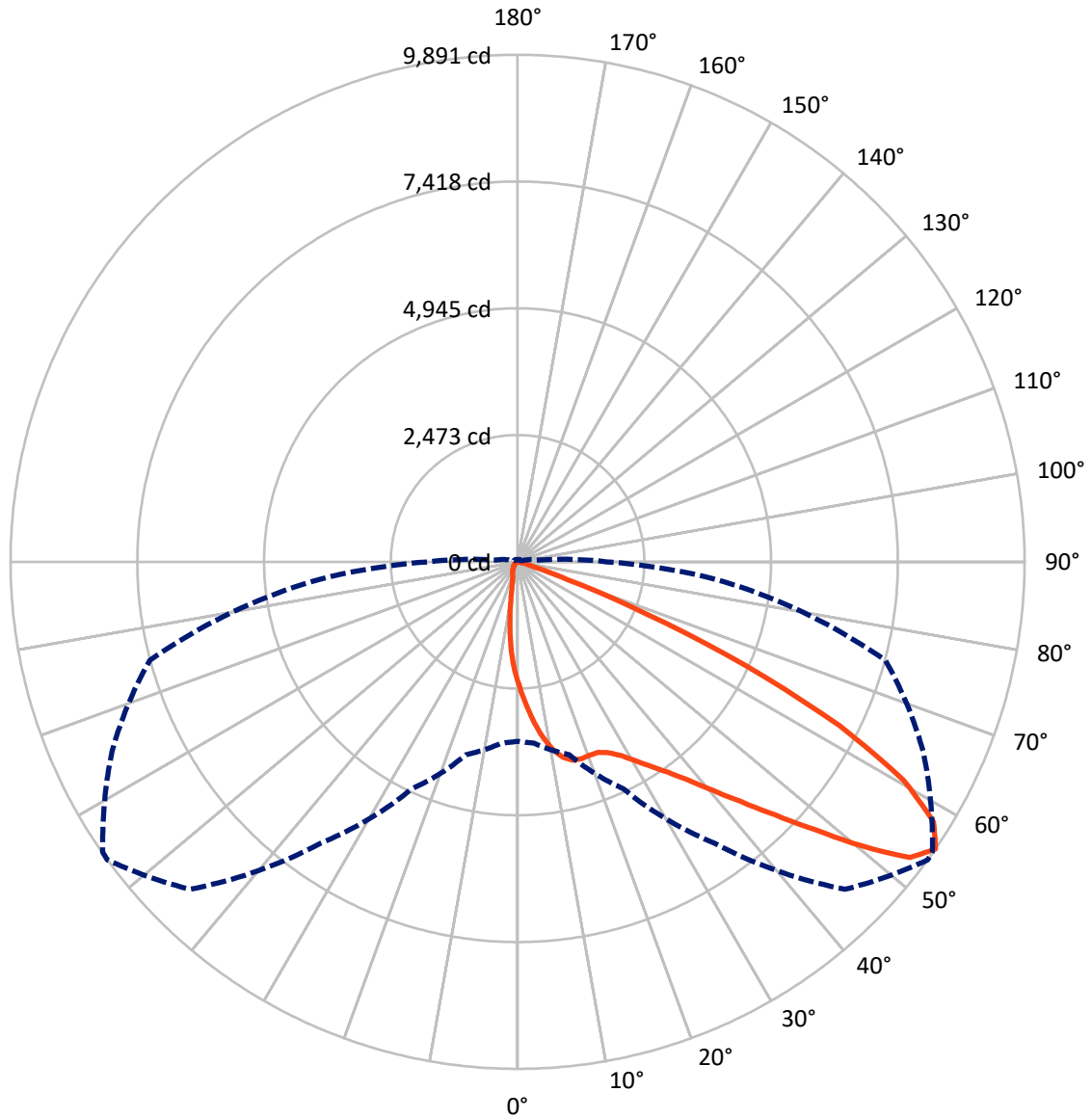
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 529.2 | 0.0 | 529.2 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 10076.8 | 0.0 | 10076.8 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 10606.0 | 0.0 | 10606.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 218.7 | 2.1 |
| 10°-20° | 599.9 | 5.7 |
| 20°-30° | 1024.2 | 9.7 |
| 30°-40° | 1643.7 | 15.5 |
| 40°-50° | 2626.7 | 24.8 |
| 50°-60° | 2814.5 | 26.5 |
| 60°-70° | 1445.1 | 13.6 |
| 70°-80° | 218.9 | 2.1 |
| 80°-90° | 14.3 | 0.1 |
| 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° | 10606.0 | 100.0 |
| 0°-180° | 10606.0 | 100.0 |

Coefficient of Utilization

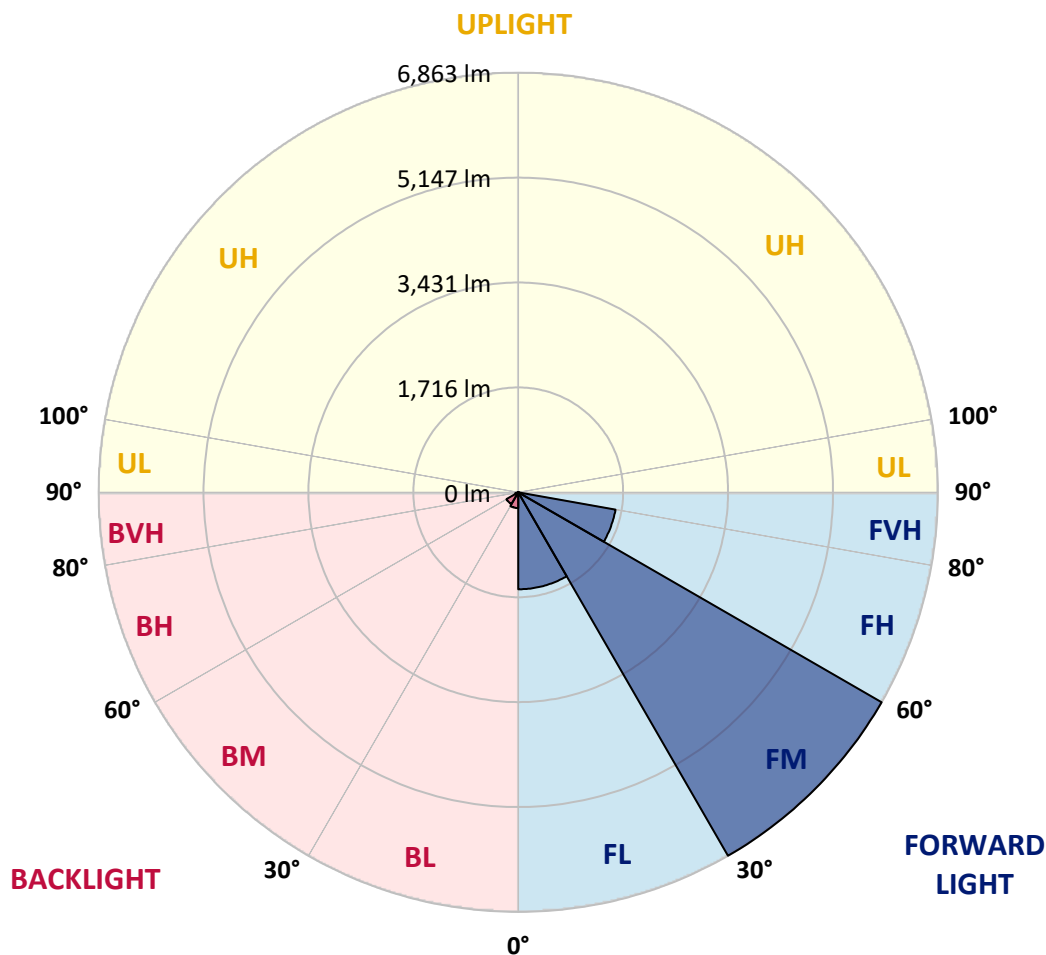


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1585.4 | 14.9 | | | |
| FM (30°-60°) | 6862.5 | 64.7 | | | |
| FH (60°-80°) | 1615.2 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 13.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 257.5 | 2.4 | B1/500 | | |
| BM (30°-60°) | 222.4 | 2.1 | B1/1000 | | |
| BH (60°-80°) | 48.8 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 |
| 2.5° | 2980.8 | 2936.4 | 2937.8 | 2917.6 | 2843.9 | 2786.2 | 2726.2 | 2712.0 | 2618.5 | 2520.5 | 2426.2 |
| 5° | 3496.1 | 3463.6 | 3455.8 | 3416.9 | 3314.3 | 3205.7 | 3089.4 | 3062.4 | 2879.6 | 2679.0 | 2481.6 |
| 7.5° | 3760.8 | 3761.3 | 3754.9 | 3740.7 | 3676.6 | 3571.2 | 3429.2 | 3400.8 | 3152.1 | 2851.2 | 2539.3 |
| 10° | 3683.9 | 3701.3 | 3737.0 | 3784.2 | 3833.2 | 3819.9 | 3713.2 | 3687.6 | 3417.3 | 3033.5 | 2603.4 |
| 12.5° | 3504.4 | 3506.6 | 3546.5 | 3623.9 | 3765.0 | 3909.7 | 3911.5 | 3902.8 | 3670.6 | 3224.0 | 2674.0 |
| 15° | 3415.0 | 3423.7 | 3438.4 | 3488.3 | 3622.1 | 3853.8 | 4019.6 | 4032.0 | 3902.8 | 3426.5 | 2749.1 |
| 17.5° | 3473.7 | 3486.0 | 3473.7 | 3479.6 | 3557.0 | 3765.4 | 4038.4 | 4070.0 | 4105.7 | 3626.6 | 2820.1 |
| 20° | 3632.6 | 3644.0 | 3622.1 | 3597.8 | 3612.9 | 3739.8 | 4025.1 | 4067.7 | 4264.7 | 3804.4 | 2879.6 |
| 22.5° | 3847.0 | 3851.5 | 3818.1 | 3778.2 | 3767.3 | 3826.8 | 4036.1 | 4080.1 | 4392.0 | 3965.1 | 2917.2 |
| 25° | 4082.8 | 4087.0 | 4045.3 | 3999.5 | 3973.4 | 3997.6 | 4126.3 | 4159.3 | 4504.2 | 4118.6 | 2938.7 |
| 27.5° | 4339.8 | 4343.5 | 4291.2 | 4234.9 | 4204.7 | 4205.6 | 4275.2 | 4310.5 | 4623.8 | 4293.5 | 2956.1 |
| 30° | 4611.4 | 4609.6 | 4561.5 | 4483.1 | 4444.7 | 4443.8 | 4489.6 | 4525.3 | 4796.9 | 4518.0 | 2979.9 |
| 32.5° | 4916.4 | 4912.8 | 4844.5 | 4747.4 | 4703.9 | 4710.3 | 4751.1 | 4771.7 | 5011.7 | 4757.0 | 3022.5 |
| 35° | 5318.1 | 5307.6 | 5204.5 | 5084.1 | 5003.9 | 5001.6 | 5036.0 | 5052.5 | 5285.6 | 5046.5 | 3093.5 |
| 37.5° | 5839.4 | 5829.7 | 5690.0 | 5515.1 | 5402.4 | 5360.3 | 5401.0 | 5422.1 | 5676.3 | 5418.0 | 3207.5 |
| 40° | 6353.3 | 6343.6 | 6260.7 | 6100.4 | 5926.8 | 5825.6 | 5857.7 | 5880.1 | 6164.1 | 5868.7 | 3351.4 |
| 42.5° | 6707.8 | 6716.0 | 6744.9 | 6758.2 | 6595.6 | 6383.0 | 6397.7 | 6421.1 | 6676.6 | 6350.5 | 3515.8 |
| 45° | 6801.2 | 6819.1 | 6982.1 | 7302.3 | 7363.2 | 7197.4 | 7044.0 | 7056.8 | 7197.4 | 6832.4 | 3680.2 |
| 47.5° | 6520.4 | 6553.4 | 6868.1 | 7463.5 | 7979.3 | 8096.5 | 7806.1 | 7789.2 | 7697.1 | 7222.1 | 3797.0 |
| 50° | 5882.4 | 5912.6 | 6320.3 | 7201.1 | 8166.1 | 8954.8 | 8719.4 | 8669.5 | 8135.4 | 7455.3 | 3838.3 |
| 52.5° | 4959.0 | 4995.7 | 5326.8 | 6374.8 | 7813.9 | 9337.8 | 9584.2 | 9542.5 | 8457.0 | 7473.6 | 3845.1 |
| 55° | 3502.1 | 3546.5 | 3896.9 | 4885.8 | 6697.7 | 9033.2 | 9890.6 | 9878.2 | 8724.0 | 7425.0 | 3859.8 |
| 57.5° | 1968.1 | 2000.2 | 2378.1 | 3132.0 | 4905.4 | 7868.0 | 9570.4 | 9652.4 | 8885.2 | 7340.8 | 3881.8 |
| 60° | 873.9 | 882.6 | 1078.2 | 1559.1 | 2871.8 | 6013.0 | 8653.9 | 8792.3 | 8746.9 | 7228.1 | 3918.9 |
| 62.5° | 484.6 | 477.3 | 477.3 | 648.1 | 1248.1 | 3722.4 | 7056.8 | 7285.3 | 8156.5 | 7094.8 | 3920.7 |
| 65° | 379.7 | 372.8 | 353.1 | 355.9 | 475.4 | 1652.1 | 4886.7 | 5292.9 | 7035.3 | 6704.1 | 3788.8 |
| 67.5° | 322.0 | 316.0 | 296.3 | 288.6 | 295.4 | 545.0 | 2684.9 | 3106.8 | 5338.3 | 5688.7 | 3281.8 |
| 70° | 272.1 | 267.9 | 257.9 | 248.2 | 230.8 | 269.3 | 1027.4 | 1314.1 | 3289.5 | 3784.2 | 2240.2 |
| 72.5° | 218.9 | 217.1 | 220.8 | 212.5 | 191.5 | 179.5 | 351.3 | 425.5 | 1477.6 | 1688.7 | 922.9 |
| 75° | 188.7 | 187.8 | 189.6 | 181.4 | 157.6 | 125.0 | 178.6 | 195.1 | 416.8 | 413.1 | 186.9 |
| 77.5° | 122.8 | 124.1 | 157.1 | 153.4 | 135.6 | 83.4 | 92.5 | 99.8 | 126.4 | 94.8 | 56.8 |
| 80° | 78.3 | 77.4 | 79.7 | 127.3 | 121.8 | 63.7 | 46.3 | 48.6 | 60.9 | 46.7 | 27.5 |
| 82.5° | 47.6 | 46.7 | 52.2 | 59.5 | 61.4 | 44.4 | 28.4 | 28.9 | 38.0 | 30.2 | 14.7 |
| 85° | 4.1 | 5.5 | 31.6 | 29.3 | 21.1 | 13.7 | 13.7 | 14.7 | 20.2 | 17.9 | 8.2 |
| 87.5° | 0.0 | 0.0 | 5.5 | 8.2 | 4.6 | 5.0 | 5.0 | 5.5 | 7.8 | 7.8 | 4.1 |
| 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° | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 | 2375.3 |
| 2.5° | 2377.2 | 2329.5 | 2233.3 | 2140.8 | 2062.5 | 1986.9 | 1900.8 | 1815.6 | 1775.8 | 1759.7 | 1743.2 |
| 5° | 2381.3 | 2283.3 | 2084.9 | 1885.2 | 1678.2 | 1491.8 | 1332.9 | 1169.8 | 1088.3 | 1052.5 | 1036.1 |
| 7.5° | 2386.8 | 2237.5 | 1916.8 | 1581.6 | 1248.1 | 995.3 | 774.5 | 632.5 | 571.2 | 561.5 | 537.7 |
| 10° | 2387.7 | 2182.0 | 1721.7 | 1246.3 | 836.8 | 600.0 | 461.7 | 388.4 | 361.4 | 356.8 | 349.0 |
| 12.5° | 2389.5 | 2116.5 | 1505.1 | 922.9 | 557.9 | 401.2 | 333.9 | 309.6 | 302.3 | 301.8 | 301.8 |
| 15° | 2395.0 | 2047.8 | 1280.2 | 665.1 | 400.8 | 317.9 | 293.1 | 283.5 | 280.8 | 282.1 | 281.7 |
| 17.5° | 2395.0 | 1966.8 | 1059.4 | 495.6 | 323.8 | 285.8 | 272.1 | 265.7 | 264.7 | 266.1 | 266.6 |
| 20° | 2377.6 | 1868.3 | 857.0 | 385.7 | 287.2 | 265.2 | 252.8 | 246.9 | 244.6 | 245.5 | 246.0 |
| 22.5° | 2335.9 | 1747.4 | 692.1 | 319.2 | 262.9 | 246.4 | 233.1 | 224.0 | 220.3 | 220.8 | 220.8 |
| 25° | 2270.9 | 1604.0 | 541.4 | 276.2 | 243.2 | 226.3 | 210.7 | 200.2 | 197.9 | 197.4 | 198.3 |
| 27.5° | 2187.5 | 1445.5 | 431.0 | 243.2 | 219.9 | 203.8 | 188.2 | 179.5 | 177.7 | 178.2 | 178.6 |
| 30° | 2105.5 | 1281.1 | 339.9 | 215.3 | 193.7 | 178.6 | 166.7 | 162.6 | 162.6 | 164.0 | 164.4 |
| 32.5° | 2030.4 | 1123.1 | 268.9 | 191.0 | 170.4 | 156.6 | 149.8 | 149.3 | 151.6 | 152.5 | 153.0 |
| 35° | 1965.8 | 977.0 | 222.6 | 172.2 | 152.1 | 140.2 | 137.9 | 139.7 | 142.4 | 144.3 | 144.7 |
| 37.5° | 1920.0 | 846.4 | 194.7 | 156.6 | 137.9 | 128.2 | 127.8 | 131.5 | 135.1 | 139.2 | 140.2 |
| 40° | 1900.8 | 736.0 | 175.4 | 142.9 | 126.4 | 119.1 | 117.7 | 122.8 | 129.6 | 135.6 | 136.5 |
| 42.5° | 1884.8 | 645.8 | 158.9 | 129.6 | 117.3 | 106.7 | 106.3 | 112.7 | 120.9 | 126.9 | 128.2 |
| 45° | 1871.0 | 573.4 | 143.8 | 115.4 | 105.3 | 91.6 | 93.0 | 101.2 | 107.6 | 114.0 | 115.4 |
| 47.5° | 1842.6 | 513.9 | 127.3 | 100.3 | 87.0 | 78.3 | 81.1 | 88.4 | 93.4 | 103.1 | 104.4 |
| 50° | 1791.8 | 465.4 | 110.4 | 82.0 | 71.0 | 67.8 | 71.9 | 76.9 | 83.4 | 91.6 | 92.5 |
| 52.5° | 1757.4 | 428.7 | 95.7 | 68.7 | 58.6 | 59.5 | 63.7 | 65.5 | 69.2 | 72.4 | 71.5 |
| 55° | 1737.7 | 408.6 | 83.8 | 59.5 | 49.9 | 52.7 | 53.6 | 51.3 | 49.5 | 46.3 | 44.9 |
| 57.5° | 1735.5 | 390.2 | 74.7 | 51.8 | 44.0 | 45.3 | 42.1 | 34.4 | 27.9 | 24.3 | 23.4 |
| 60° | 1731.8 | 367.8 | 67.3 | 43.5 | 38.9 | 37.1 | 30.2 | 18.8 | 13.3 | 12.4 | 12.4 |
| 62.5° | 1691.9 | 333.0 | 61.8 | 36.6 | 33.0 | 27.9 | 17.4 | 8.7 | 7.3 | 7.8 | 7.8 |
| 65° | 1565.1 | 284.4 | 56.3 | 29.8 | 26.1 | 20.2 | 8.7 | 5.0 | 2.7 | 3.2 | 3.2 |
| 67.5° | 1330.6 | 226.7 | 50.4 | 22.9 | 19.7 | 12.8 | 5.0 | 2.3 | 0.0 | 0.0 | 0.0 |
| 70° | 890.9 | 140.6 | 42.6 | 16.0 | 12.8 | 7.8 | 3.7 | 0.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 341.7 | 76.0 | 34.4 | 9.6 | 8.2 | 5.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 76.9 | 49.9 | 23.8 | 6.9 | 6.0 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 29.3 | 36.2 | 13.7 | 4.6 | 4.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 14.2 | 21.5 | 6.4 | 2.7 | 2.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 7.3 | 8.2 | 2.7 | 1.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.1 | 4.1 | 1.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.3 | 1.4 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)