

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: P193986

Luminaire Tested: **GAN-AF-08-LED-U-T3-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31458 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

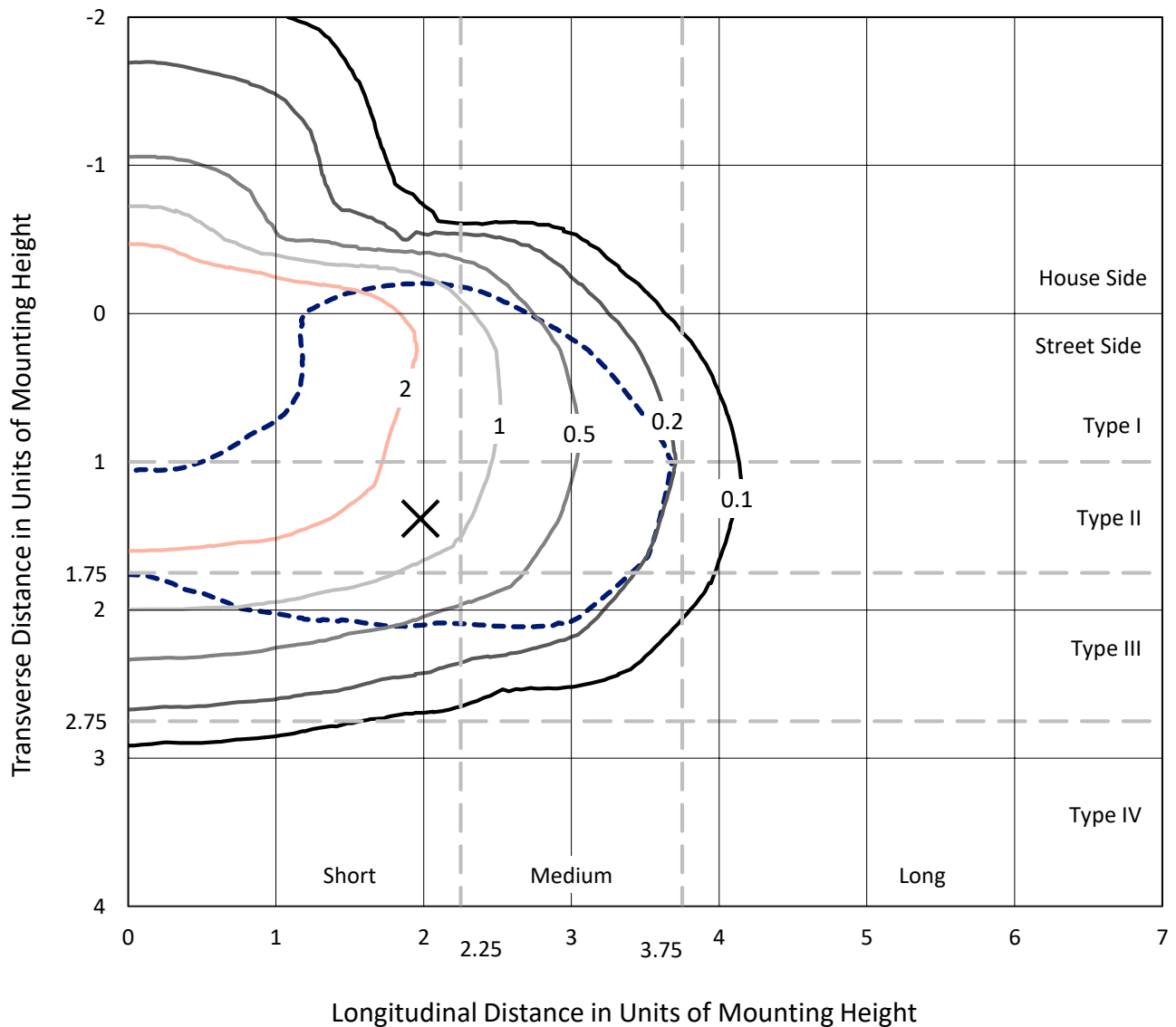


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

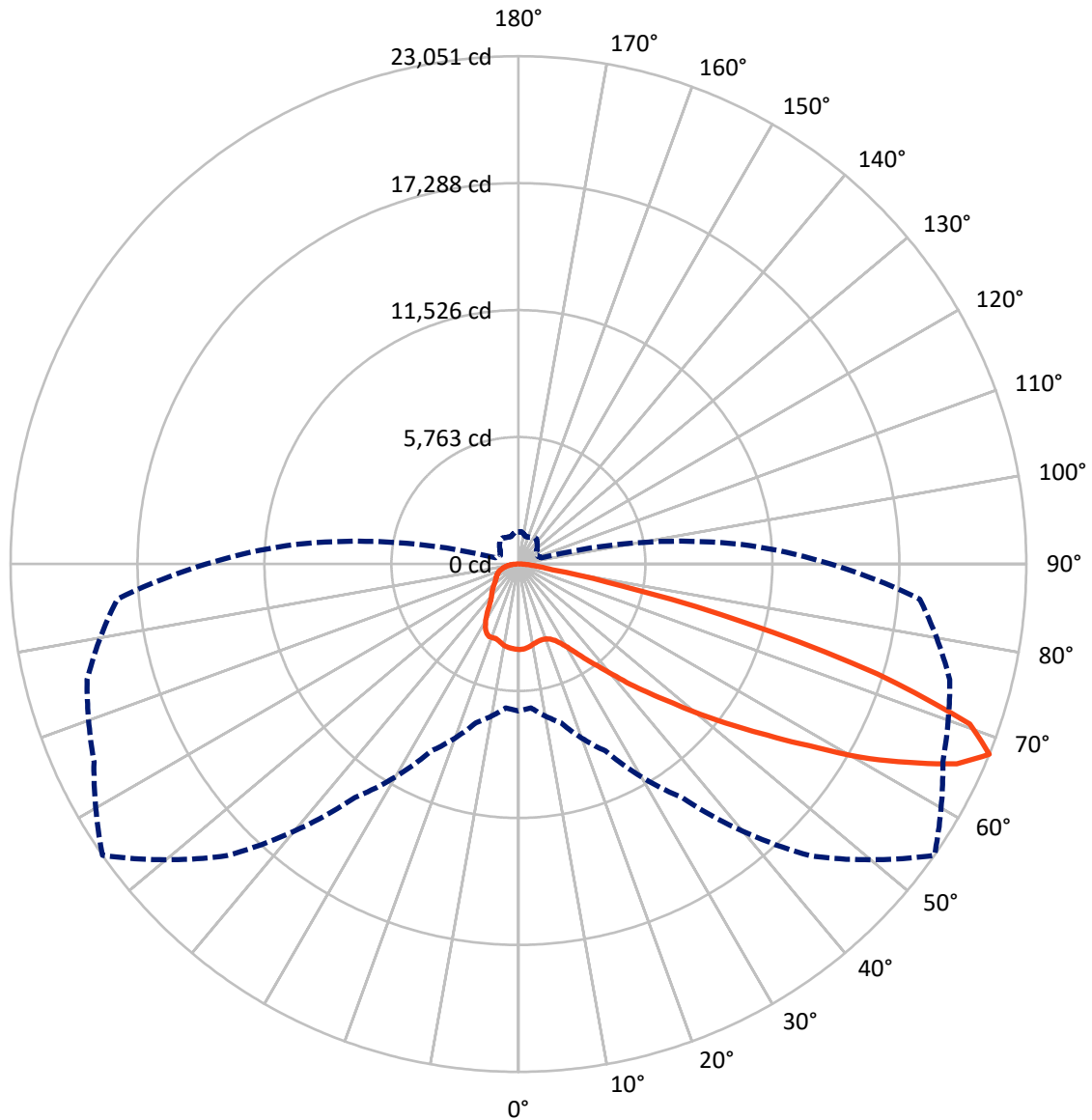


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6795.6 | 0.0 | 6795.6 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 24662.4 | 0.0 | 24662.4 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 31458.0 | 0.0 | 31458.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.1 | 1.2 |
| 10°-20° | 1025.4 | 3.3 |
| 20°-30° | 1717.8 | 5.5 |
| 30°-40° | 2824.7 | 9.0 |
| 40°-50° | 4754.9 | 15.1 |
| 50°-60° | 7483.8 | 23.8 |
| 60°-70° | 8931.2 | 28.4 |
| 70°-80° | 3835.2 | 12.2 |
| 80°-90° | 522.9 | 1.7 |
| 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° | 31458.0 | 100.0 |
| 0°-180° | 31458.0 | 100.0 |

Coefficient of Utilization



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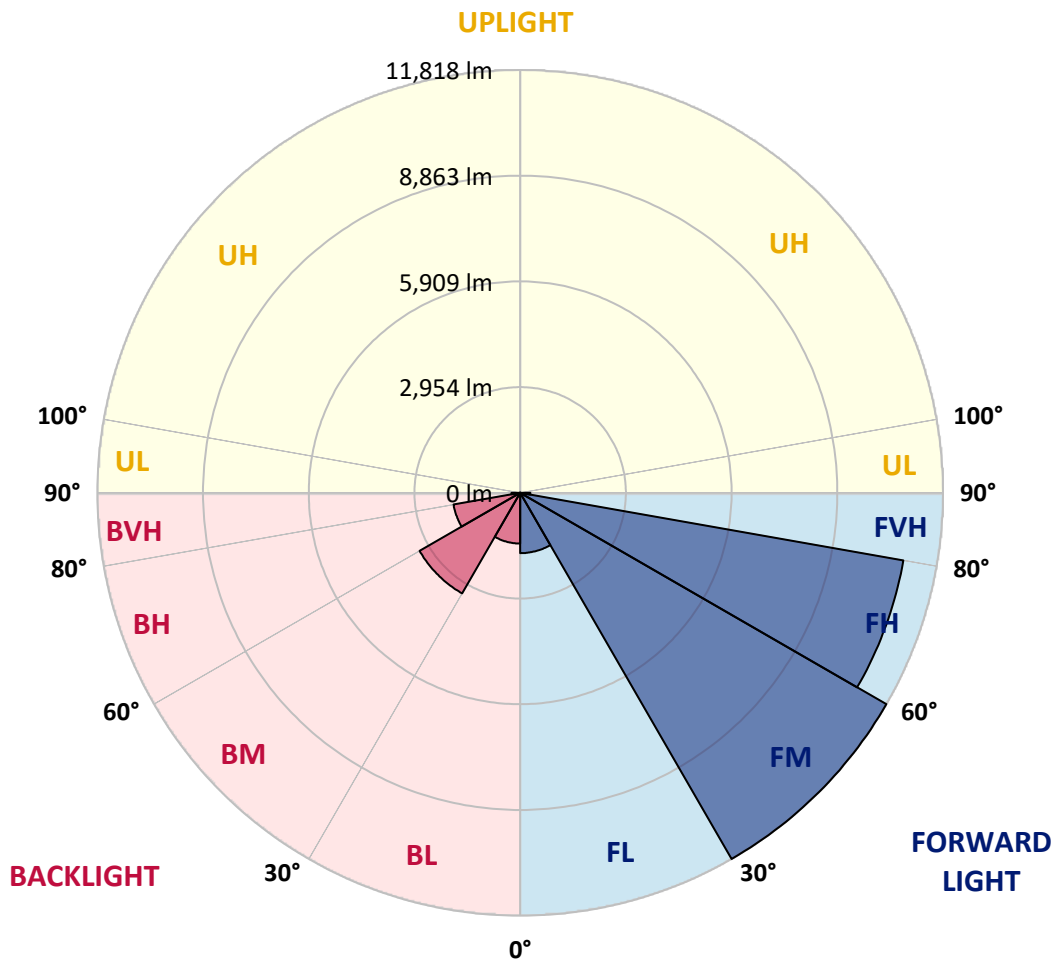
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1686.2 | 5.4 | | | |
| FM | (30°-60°) | 11817.9 | 37.6 | | | |
| FH | (60°-80°) | 10875.2 | 34.6 | | | G4/12000 |
| FVH | (80°-90°) | 283.0 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1419.1 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3245.5 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 1891.2 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 239.8 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 |
| 2.5° | 3845.7 | 3847.2 | 3850.2 | 3862.4 | 3873.0 | 3870.0 | 3871.5 | 3865.4 | 3863.9 | 3854.8 | 3863.9 |
| 5° | 3797.1 | 3801.6 | 3803.1 | 3822.9 | 3835.1 | 3838.1 | 3833.5 | 3825.9 | 3816.8 | 3807.7 | 3812.3 |
| 7.5° | 3686.1 | 3698.3 | 3699.8 | 3727.2 | 3746.9 | 3772.8 | 3774.3 | 3775.8 | 3771.2 | 3765.2 | 3774.3 |
| 10° | 3616.3 | 3619.3 | 3617.8 | 3637.5 | 3652.7 | 3681.6 | 3698.3 | 3727.2 | 3739.3 | 3742.4 | 3748.4 |
| 12.5° | 3611.7 | 3608.7 | 3604.1 | 3604.1 | 3599.5 | 3611.7 | 3642.1 | 3683.1 | 3712.0 | 3721.1 | 3728.7 |
| 15° | 3660.3 | 3658.8 | 3643.6 | 3620.8 | 3591.9 | 3582.8 | 3608.7 | 3654.2 | 3692.2 | 3712.0 | 3719.6 |
| 17.5° | 3769.7 | 3760.6 | 3736.3 | 3684.6 | 3622.3 | 3598.0 | 3601.1 | 3639.0 | 3683.1 | 3708.9 | 3716.5 |
| 20° | 3970.3 | 3970.3 | 3918.6 | 3821.4 | 3710.5 | 3652.7 | 3625.4 | 3648.2 | 3690.7 | 3725.7 | 3736.3 |
| 22.5° | 4316.7 | 4319.8 | 4233.1 | 4073.6 | 3886.7 | 3763.6 | 3695.3 | 3690.7 | 3740.8 | 3780.4 | 3792.5 |
| 25° | 4807.5 | 4795.3 | 4673.8 | 4445.9 | 4161.7 | 3958.1 | 3839.6 | 3812.3 | 3854.8 | 3898.9 | 3914.1 |
| 27.5° | 5378.8 | 5334.7 | 5190.4 | 4915.4 | 4547.7 | 4249.9 | 4067.5 | 4023.5 | 4064.5 | 4114.6 | 4129.8 |
| 30° | 5944.0 | 5898.4 | 5726.7 | 5425.9 | 5017.2 | 4640.4 | 4379.0 | 4307.6 | 4365.3 | 4436.7 | 4445.9 |
| 32.5° | 6509.3 | 6509.3 | 6317.8 | 5966.8 | 5521.6 | 5106.8 | 4793.8 | 4708.7 | 4804.5 | 4891.1 | 4910.8 |
| 35° | 7185.4 | 7188.4 | 7003.1 | 6580.7 | 6102.0 | 5662.9 | 5318.0 | 5255.7 | 5400.1 | 5460.8 | 5507.9 |
| 37.5° | 8016.5 | 8033.2 | 7794.7 | 7284.2 | 6760.0 | 6298.1 | 5887.8 | 5802.7 | 5947.1 | 6112.7 | 6264.6 |
| 40° | 8914.5 | 8935.8 | 8672.9 | 8043.9 | 7519.7 | 7036.5 | 6592.8 | 6439.4 | 6679.4 | 6995.5 | 7191.5 |
| 42.5° | 9771.5 | 9880.9 | 9627.1 | 8979.9 | 8416.1 | 7916.3 | 7466.5 | 7243.1 | 7544.0 | 8021.1 | 8191.3 |
| 45° | 11009.8 | 11088.8 | 10646.7 | 10060.2 | 9529.9 | 8970.7 | 8375.1 | 8139.6 | 8560.5 | 9162.2 | 9197.1 |
| 47.5° | 11834.9 | 11775.6 | 11550.7 | 11186.1 | 10850.3 | 10327.6 | 9431.1 | 9172.8 | 9732.0 | 10440.0 | 10244.0 |
| 50° | 12274.0 | 12292.2 | 12261.8 | 12283.1 | 12295.3 | 11967.1 | 10725.7 | 10371.7 | 11038.7 | 11894.1 | 11442.9 |
| 52.5° | 12684.2 | 12562.7 | 12663.0 | 13161.3 | 13763.0 | 13641.5 | 12134.2 | 11765.0 | 12439.6 | 13507.8 | 12710.1 |
| 55° | 12675.1 | 12489.7 | 12816.4 | 13696.2 | 15001.4 | 15141.2 | 13715.9 | 13290.5 | 13921.1 | 15238.4 | 14053.2 |
| 57.5° | 12226.9 | 12236.0 | 12738.9 | 13890.7 | 15864.4 | 16551.2 | 15551.4 | 14913.2 | 15492.1 | 16991.8 | 15279.4 |
| 60° | 11610.0 | 11693.6 | 12418.3 | 13858.8 | 16555.8 | 17707.5 | 17803.2 | 16662.1 | 17031.3 | 18585.7 | 16294.4 |
| 62.5° | 10614.8 | 10702.9 | 11702.7 | 13527.5 | 16450.9 | 18821.2 | 19839.2 | 18646.5 | 18640.4 | 19552.1 | 16592.2 |
| 65° | 9045.2 | 9019.4 | 10069.3 | 12289.2 | 15571.2 | 19644.8 | 21861.6 | 20361.9 | 19852.9 | 19567.3 | 15993.6 |
| 67.5° | 6670.3 | 6554.8 | 7455.9 | 9359.7 | 12942.5 | 18722.5 | 23051.3 | 21255.4 | 20266.2 | 18280.3 | 14164.2 |
| 70° | 3461.3 | 3345.8 | 4075.1 | 5465.4 | 8511.9 | 14612.4 | 21734.0 | 20793.5 | 19353.0 | 15323.5 | 11096.4 |
| 72.5° | 1479.9 | 1460.2 | 1756.5 | 2397.7 | 4117.7 | 8428.3 | 17042.0 | 17997.7 | 16605.9 | 11417.0 | 7629.1 |
| 75° | 995.2 | 989.2 | 1100.1 | 1306.7 | 1852.2 | 3420.2 | 10664.9 | 12775.4 | 12149.4 | 7079.0 | 4290.9 |
| 77.5° | 781.0 | 773.4 | 838.7 | 939.0 | 1200.4 | 1349.3 | 4733.0 | 6858.7 | 6348.2 | 3081.4 | 1878.0 |
| 80° | 610.8 | 604.7 | 645.8 | 700.5 | 863.0 | 850.9 | 1557.4 | 2728.9 | 2112.0 | 1180.6 | 913.2 |
| 82.5° | 481.7 | 481.7 | 515.1 | 516.6 | 612.3 | 580.4 | 812.9 | 1201.9 | 1054.5 | 688.3 | 559.2 |
| 85° | 440.6 | 440.6 | 475.6 | 385.9 | 399.6 | 366.2 | 504.5 | 712.6 | 668.6 | 282.6 | 243.1 |
| 87.5° | 221.8 | 215.8 | 399.6 | 341.9 | 217.3 | 194.5 | 246.1 | 344.9 | 370.7 | 156.5 | 121.6 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 | 3879.1 |
| 2.5° | 3860.9 | 3859.4 | 3862.4 | 3863.9 | 3876.1 | 3892.8 | 3900.4 | 3911.0 | 3917.1 | 3914.1 |
| 5° | 3815.3 | 3818.3 | 3830.5 | 3839.6 | 3860.9 | 3888.2 | 3903.4 | 3915.6 | 3926.2 | 3921.7 |
| 7.5° | 3777.3 | 3784.9 | 3803.1 | 3810.7 | 3822.9 | 3830.5 | 3829.0 | 3833.5 | 3842.6 | 3832.0 |
| 10° | 3756.0 | 3765.2 | 3778.8 | 3768.2 | 3739.3 | 3698.3 | 3660.3 | 3640.6 | 3646.6 | 3639.0 |
| 12.5° | 3734.8 | 3746.9 | 3736.3 | 3686.1 | 3605.6 | 3552.4 | 3523.6 | 3526.6 | 3540.3 | 3543.3 |
| 15° | 3722.6 | 3727.2 | 3681.6 | 3587.4 | 3505.3 | 3497.7 | 3512.9 | 3509.9 | 3511.4 | 3511.4 |
| 17.5° | 3722.6 | 3710.5 | 3625.4 | 3531.2 | 3496.2 | 3482.5 | 3435.4 | 3376.2 | 3350.4 | 3341.2 |
| 20° | 3742.4 | 3710.5 | 3607.1 | 3544.8 | 3468.9 | 3351.9 | 3227.3 | 3117.9 | 3069.3 | 3055.6 |
| 22.5° | 3801.6 | 3746.9 | 3658.8 | 3550.9 | 3335.2 | 3139.2 | 2941.6 | 2811.0 | 2722.8 | 2707.6 |
| 25° | 3921.7 | 3860.9 | 3760.6 | 3470.4 | 3122.4 | 2842.9 | 2618.0 | 2472.1 | 2384.0 | 2371.8 |
| 27.5° | 4131.3 | 4091.8 | 3815.3 | 3292.6 | 2839.8 | 2540.5 | 2332.3 | 2219.9 | 2154.6 | 2150.0 |
| 30° | 4447.4 | 4427.6 | 3787.9 | 3029.8 | 2491.9 | 2247.2 | 2147.0 | 2081.6 | 2033.0 | 2031.5 |
| 32.5° | 4951.8 | 4792.3 | 3698.3 | 2709.2 | 2174.3 | 2039.1 | 1998.1 | 1958.6 | 1920.6 | 1920.6 |
| 35° | 5600.6 | 5087.1 | 3528.1 | 2365.8 | 1981.3 | 1923.6 | 1871.9 | 1809.6 | 1759.5 | 1756.5 |
| 37.5° | 6363.4 | 5269.4 | 3222.7 | 2089.2 | 1890.2 | 1846.1 | 1770.1 | 1677.5 | 1589.3 | 1574.1 |
| 40° | 7133.7 | 5324.1 | 2792.7 | 1919.0 | 1832.4 | 1768.6 | 1675.9 | 1566.5 | 1481.4 | 1476.9 |
| 42.5° | 7840.3 | 5219.3 | 2336.9 | 1802.0 | 1774.7 | 1689.6 | 1592.4 | 1495.1 | 1428.3 | 1426.7 |
| 45° | 8432.9 | 4947.3 | 1954.0 | 1691.1 | 1713.9 | 1618.2 | 1531.6 | 1452.6 | 1400.9 | 1390.3 |
| 47.5° | 8990.5 | 4562.9 | 1685.1 | 1574.1 | 1653.1 | 1578.7 | 1505.8 | 1431.3 | 1381.2 | 1373.6 |
| 50° | 9637.8 | 4148.1 | 1496.6 | 1460.2 | 1600.0 | 1565.0 | 1527.0 | 1449.5 | 1366.0 | 1356.9 |
| 52.5° | 10421.8 | 3789.5 | 1349.3 | 1359.9 | 1558.9 | 1583.3 | 1581.7 | 1501.2 | 1355.3 | 1343.2 |
| 55° | 11297.0 | 3391.4 | 1238.3 | 1277.8 | 1542.2 | 1616.7 | 1595.4 | 1549.8 | 1364.5 | 1346.2 |
| 57.5° | 12158.5 | 2926.4 | 1160.8 | 1215.5 | 1517.9 | 1613.6 | 1530.1 | 1464.7 | 1385.7 | 1359.9 |
| 60° | 12804.3 | 2301.9 | 1101.6 | 1160.8 | 1464.7 | 1563.5 | 1458.7 | 1372.0 | 1381.2 | 1361.4 |
| 62.5° | 12846.8 | 1779.3 | 1030.2 | 1113.7 | 1384.2 | 1513.4 | 1411.6 | 1331.0 | 1400.9 | 1382.7 |
| 65° | 12091.7 | 1344.7 | 961.8 | 1057.5 | 1297.6 | 1481.4 | 1366.0 | 1308.2 | 1441.9 | 1422.2 |
| 67.5° | 10180.2 | 1081.8 | 904.1 | 999.8 | 1211.0 | 1414.6 | 1324.9 | 1287.0 | 1478.4 | 1443.5 |
| 70° | 7349.5 | 922.3 | 847.8 | 929.9 | 1133.5 | 1338.6 | 1288.5 | 1249.0 | 1379.6 | 1324.9 |
| 72.5° | 4524.9 | 799.2 | 784.0 | 837.2 | 1074.2 | 1259.6 | 1233.8 | 1177.6 | 1242.9 | 1198.8 |
| 75° | 2259.4 | 692.9 | 712.6 | 746.0 | 990.7 | 1170.0 | 1142.6 | 1086.4 | 1095.5 | 1086.4 |
| 77.5° | 1081.8 | 592.6 | 629.0 | 654.9 | 882.8 | 1068.2 | 1039.3 | 981.6 | 970.9 | 972.4 |
| 80° | 685.3 | 495.3 | 530.3 | 548.5 | 788.6 | 949.6 | 920.8 | 863.0 | 984.6 | 913.2 |
| 82.5° | 428.5 | 402.7 | 411.8 | 445.2 | 686.8 | 826.6 | 788.6 | 736.9 | 887.3 | 702.0 |
| 85° | 237.0 | 281.1 | 293.3 | 322.1 | 528.8 | 691.3 | 653.4 | 588.0 | 527.2 | 518.1 |
| 87.5° | 141.3 | 167.1 | 171.7 | 193.0 | 355.5 | 499.9 | 442.2 | 419.4 | 348.0 | 346.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)