

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: P192035

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26359 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

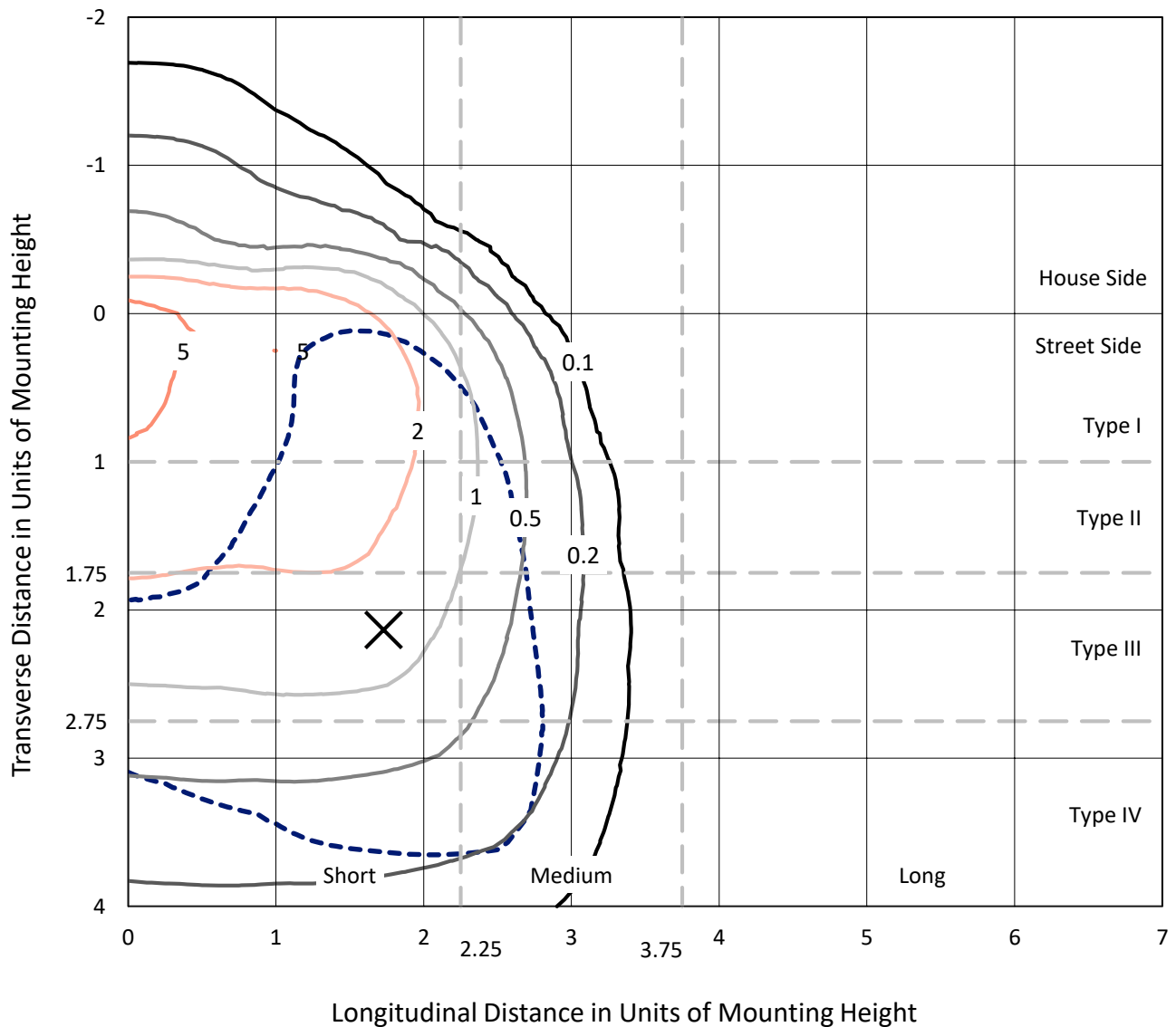
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

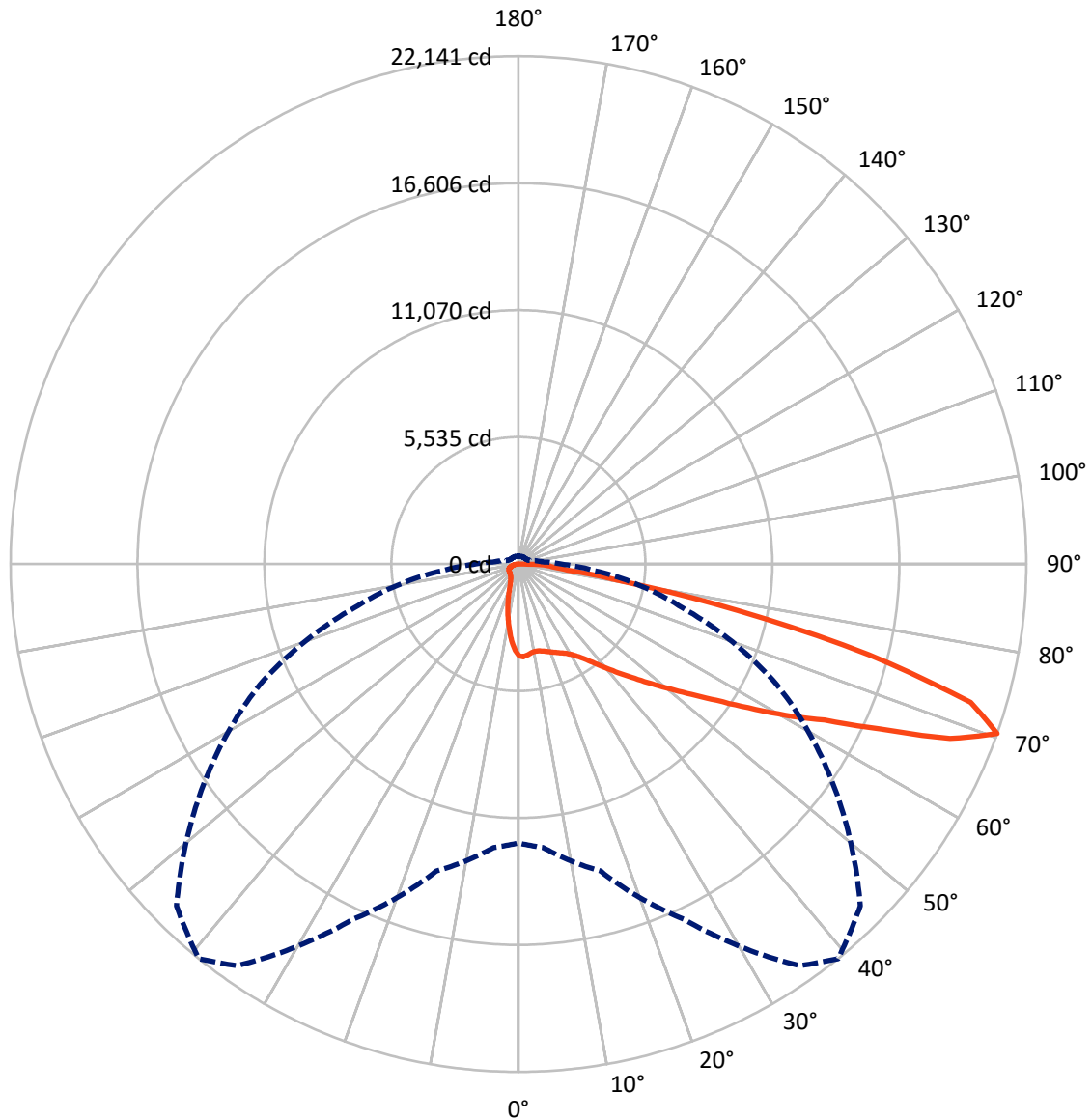
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2997.9 | 0.0 | 2997.9 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 23361.1 | 0.0 | 23361.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 26359.0 | 0.0 | 26359.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.4 | 1.3 |
| 10°-20° | 858.4 | 3.3 |
| 20°-30° | 1336.6 | 5.1 |
| 30°-40° | 2082.2 | 7.9 |
| 40°-50° | 3495.6 | 13.3 |
| 50°-60° | 5553.1 | 21.1 |
| 60°-70° | 7407.2 | 28.1 |
| 70°-80° | 4473.0 | 17.0 |
| 80°-90° | 809.6 | 3.1 |
| 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° | 26359.0 | 100.0 |
| 0°-180° | 26359.0 | 100.0 |



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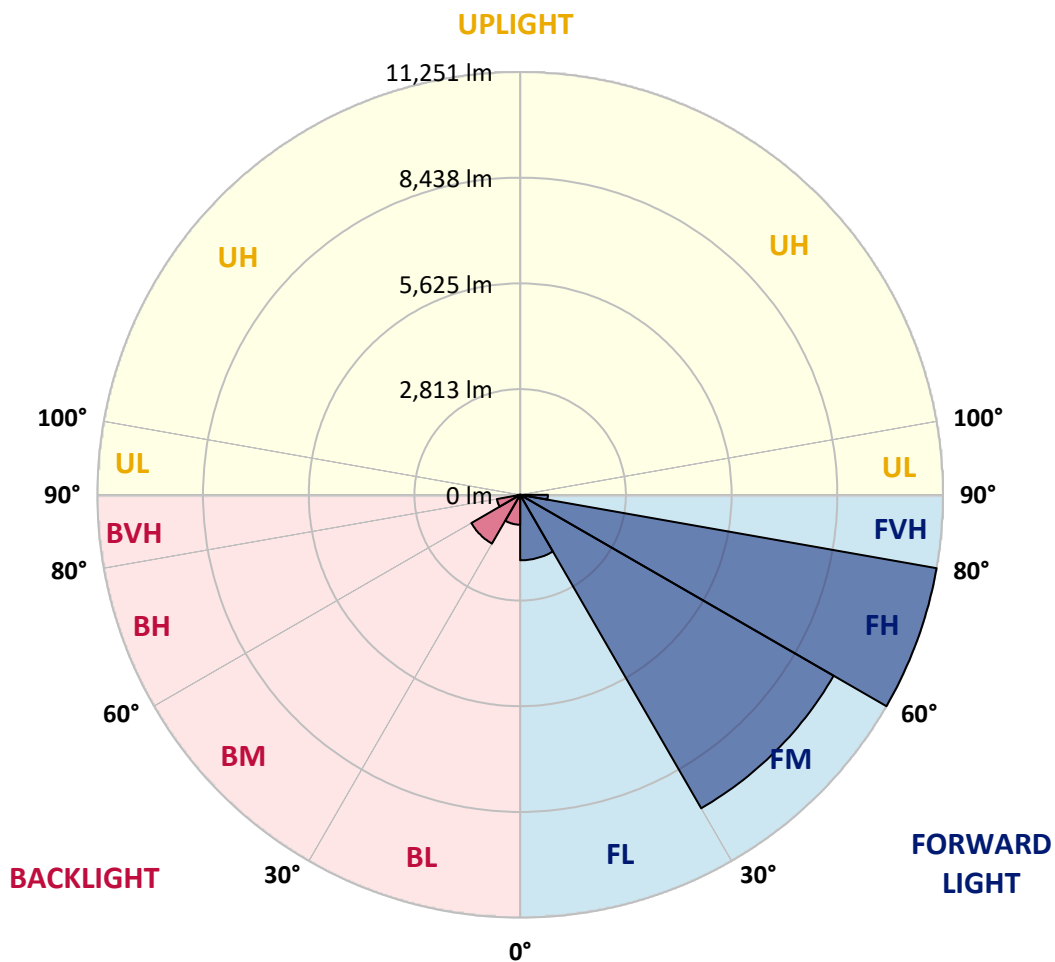
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1743.1 | 6.6 | | | |
| FM | (30°-60°) | 9630.6 | 36.5 | | | |
| FH | (60°-80°) | 11250.8 | 42.7 | | | G4/12000 |
| FVH | (80°-90°) | 736.6 | 2.8 | | | G4/750 |
| BL | (0°-30°) | 795.3 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1500.3 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 629.4 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 73.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 |
| 2.5° | 4079.4 | 4078.1 | 4067.4 | 4059.3 | 4052.6 | 4050.0 | 4055.3 | 4035.2 | 4017.8 | 3996.3 | 3973.6 |
| 5° | 4048.6 | 4047.3 | 4029.8 | 4013.8 | 3997.7 | 3992.3 | 3991.0 | 3954.8 | 3933.4 | 3901.2 | 3858.3 |
| 7.5° | 4015.1 | 4008.4 | 3985.6 | 3958.8 | 3930.7 | 3917.3 | 3903.9 | 3857.0 | 3832.8 | 3800.7 | 3751.1 |
| 10° | 3980.3 | 3972.2 | 3950.8 | 3924.0 | 3897.2 | 3877.1 | 3854.3 | 3808.7 | 3783.3 | 3759.1 | 3701.5 |
| 12.5° | 3944.1 | 3937.4 | 3932.0 | 3920.0 | 3901.2 | 3883.8 | 3866.3 | 3827.5 | 3800.7 | 3772.5 | 3705.5 |
| 15° | 3938.7 | 3936.0 | 3948.1 | 3956.1 | 3945.4 | 3934.7 | 3915.9 | 3882.4 | 3854.3 | 3826.1 | 3739.0 |
| 17.5° | 3981.6 | 3980.3 | 4011.1 | 4032.5 | 4027.2 | 4008.4 | 3982.9 | 3945.4 | 3922.6 | 3898.5 | 3790.0 |
| 20° | 4075.4 | 4082.1 | 4119.6 | 4147.8 | 4121.0 | 4094.2 | 4052.6 | 4000.4 | 3988.3 | 3977.6 | 3842.2 |
| 22.5° | 4252.3 | 4259.0 | 4285.8 | 4296.5 | 4226.9 | 4188.0 | 4130.4 | 4063.4 | 4055.3 | 4063.4 | 3905.2 |
| 25° | 4528.4 | 4521.7 | 4517.7 | 4477.5 | 4350.1 | 4289.8 | 4216.1 | 4146.4 | 4150.5 | 4186.6 | 3993.7 |
| 27.5° | 4894.2 | 4858.1 | 4801.8 | 4681.2 | 4478.8 | 4411.8 | 4322.0 | 4257.7 | 4283.1 | 4352.8 | 4126.3 |
| 30° | 5273.5 | 5233.3 | 5103.3 | 4906.3 | 4647.7 | 4574.0 | 4473.4 | 4401.1 | 4468.1 | 4578.0 | 4303.2 |
| 32.5° | 5624.6 | 5619.3 | 5429.0 | 5175.7 | 4880.8 | 4816.5 | 4716.0 | 4634.3 | 4742.8 | 4910.3 | 4568.6 |
| 35° | 6007.9 | 6020.0 | 5792.2 | 5487.9 | 5195.8 | 5128.8 | 5056.4 | 4994.8 | 5139.5 | 5370.0 | 4953.2 |
| 37.5° | 6418.0 | 6442.1 | 6172.8 | 5829.7 | 5554.9 | 5526.8 | 5483.9 | 5457.1 | 5680.9 | 5999.9 | 5490.6 |
| 40° | 6966.1 | 6942.0 | 6568.1 | 6215.6 | 5995.9 | 5994.5 | 5981.1 | 6013.3 | 6385.8 | 6822.7 | 6180.8 |
| 42.5° | 7553.1 | 7482.1 | 6987.6 | 6629.7 | 6479.7 | 6525.2 | 6552.0 | 6683.4 | 7234.2 | 7822.5 | 7022.4 |
| 45° | 8185.7 | 8026.2 | 7423.1 | 7068.0 | 7017.1 | 7113.5 | 7204.7 | 7490.1 | 8232.6 | 8960.3 | 7944.4 |
| 47.5° | 8690.9 | 8536.8 | 7873.4 | 7527.7 | 7638.9 | 7785.0 | 7960.5 | 8412.2 | 9350.3 | 10135.6 | 8854.4 |
| 50° | 9088.9 | 8988.4 | 8327.7 | 8063.7 | 8323.7 | 8548.9 | 8835.6 | 9456.1 | 10513.5 | 11280.1 | 9697.4 |
| 52.5° | 9474.9 | 9399.9 | 8786.1 | 8613.2 | 9127.8 | 9438.7 | 9828.7 | 10576.5 | 11706.3 | 12405.8 | 10406.3 |
| 55° | 9823.3 | 9769.7 | 9279.2 | 9298.0 | 10073.9 | 10478.7 | 10969.2 | 11852.3 | 13006.2 | 13409.6 | 11006.7 |
| 57.5° | 10216.0 | 10147.7 | 9842.1 | 10157.0 | 11289.5 | 11814.8 | 12452.7 | 13286.3 | 14225.8 | 14302.1 | 11463.7 |
| 60° | 10611.4 | 10552.4 | 10466.6 | 11148.8 | 12833.3 | 13385.5 | 13989.9 | 14676.0 | 15462.7 | 14995.0 | 11436.9 |
| 62.5° | 10954.4 | 10961.1 | 11112.6 | 12190.1 | 14345.0 | 14984.3 | 15721.4 | 16399.5 | 16581.7 | 15115.6 | 10591.3 |
| 65° | 11536.1 | 11641.9 | 12093.6 | 13664.2 | 16473.2 | 17328.2 | 18232.8 | 18124.3 | 16891.3 | 13988.5 | 8778.0 |
| 67.5° | 12227.6 | 12413.9 | 13329.2 | 15628.9 | 19162.9 | 20298.0 | 20647.8 | 18514.3 | 15651.7 | 11371.2 | 6257.2 |
| 70° | 12157.9 | 12413.9 | 13862.6 | 17093.7 | 21379.5 | 22140.7 | 21079.3 | 16756.0 | 12428.6 | 7428.5 | 3323.6 |
| 72.5° | 10796.3 | 11162.2 | 12775.7 | 16422.3 | 20681.3 | 20614.3 | 18299.8 | 12491.6 | 7384.3 | 2983.2 | 1298.6 |
| 75° | 8228.6 | 8598.4 | 9986.8 | 12974.0 | 16345.9 | 15783.0 | 12984.8 | 6900.5 | 2802.3 | 1184.7 | 818.8 |
| 77.5° | 4733.4 | 5020.2 | 6092.3 | 7956.5 | 10370.1 | 9792.5 | 7227.5 | 3069.0 | 1364.3 | 825.5 | 639.3 |
| 80° | 2642.8 | 2802.3 | 3453.6 | 4036.5 | 5081.9 | 4658.4 | 3233.8 | 1907.0 | 1018.5 | 599.0 | 493.2 |
| 82.5° | 2089.3 | 2231.4 | 2792.9 | 2546.3 | 2321.1 | 2141.6 | 1857.5 | 1698.0 | 813.5 | 377.9 | 294.8 |
| 85° | 1825.3 | 1960.6 | 2364.0 | 2004.9 | 1585.4 | 1454.1 | 1509.0 | 1671.2 | 632.6 | 227.8 | 251.9 |
| 87.5° | 1691.3 | 1872.2 | 2106.7 | 1545.2 | 1234.3 | 1093.6 | 1392.4 | 1832.0 | 203.7 | 142.1 | 101.9 |
| 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° | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 | 4001.7 |
| 2.5° | 3953.5 | 3932.0 | 3897.2 | 3866.3 | 3818.1 | 3792.6 | 3764.5 | 3744.4 | 3728.3 | 3714.9 | 3736.4 |
| 5° | 3831.5 | 3791.3 | 3717.6 | 3638.5 | 3544.7 | 3471.0 | 3409.4 | 3351.7 | 3311.5 | 3284.7 | 3303.5 |
| 7.5° | 3716.3 | 3650.6 | 3535.3 | 3391.9 | 3231.1 | 3094.4 | 2981.8 | 2882.7 | 2814.3 | 2770.1 | 2787.5 |
| 10° | 3650.6 | 3568.8 | 3390.6 | 3165.4 | 2928.2 | 2715.2 | 2538.3 | 2385.5 | 2279.6 | 2219.3 | 2228.7 |
| 12.5° | 3634.5 | 3528.6 | 3282.0 | 2972.5 | 2648.1 | 2352.0 | 2102.7 | 1891.0 | 1742.2 | 1664.5 | 1667.2 |
| 15° | 3646.6 | 3511.2 | 3180.2 | 2787.5 | 2377.4 | 2003.5 | 1692.6 | 1435.3 | 1262.4 | 1174.0 | 1172.6 |
| 17.5° | 3666.7 | 3497.8 | 3073.0 | 2587.8 | 2102.7 | 1668.5 | 1321.4 | 1069.4 | 916.7 | 845.6 | 840.3 |
| 20° | 3688.1 | 3476.4 | 2952.4 | 2372.1 | 1817.3 | 1357.6 | 1034.6 | 837.6 | 741.1 | 702.2 | 699.6 |
| 22.5° | 3718.9 | 3457.6 | 2827.7 | 2144.2 | 1537.2 | 1105.6 | 851.0 | 718.3 | 667.4 | 647.3 | 644.6 |
| 25° | 3768.5 | 3448.2 | 2695.1 | 1907.0 | 1285.2 | 924.7 | 741.1 | 659.4 | 629.9 | 616.5 | 615.1 |
| 27.5° | 3851.6 | 3461.6 | 2570.4 | 1676.5 | 1080.2 | 802.8 | 679.5 | 629.9 | 608.4 | 596.4 | 595.0 |
| 30° | 3958.8 | 3503.2 | 2439.1 | 1458.1 | 920.7 | 719.7 | 641.9 | 609.8 | 592.3 | 580.3 | 580.3 |
| 32.5° | 4137.1 | 3572.9 | 2301.0 | 1269.1 | 806.8 | 662.0 | 613.8 | 592.3 | 577.6 | 568.2 | 566.9 |
| 35° | 4399.7 | 3704.2 | 2172.4 | 1112.3 | 725.0 | 620.5 | 589.7 | 573.6 | 562.9 | 557.5 | 557.5 |
| 37.5° | 4781.7 | 3911.9 | 2058.5 | 999.8 | 675.4 | 592.3 | 566.9 | 554.8 | 548.1 | 548.1 | 548.1 |
| 40° | 5295.0 | 4198.7 | 1966.0 | 924.7 | 647.3 | 572.2 | 549.5 | 540.1 | 536.1 | 537.4 | 537.4 |
| 42.5° | 5928.8 | 4571.3 | 1904.4 | 872.4 | 633.9 | 560.2 | 537.4 | 529.4 | 525.3 | 524.0 | 525.3 |
| 45° | 6651.2 | 4994.8 | 1897.7 | 833.6 | 620.5 | 552.1 | 529.4 | 521.3 | 513.3 | 507.9 | 507.9 |
| 47.5° | 7353.4 | 5425.0 | 1952.6 | 820.2 | 605.8 | 542.8 | 522.7 | 514.6 | 502.6 | 490.5 | 490.5 |
| 50° | 7973.9 | 5790.8 | 2026.3 | 825.5 | 600.4 | 529.4 | 511.9 | 507.9 | 489.2 | 475.8 | 474.4 |
| 52.5° | 8467.1 | 6072.2 | 2086.6 | 841.6 | 605.8 | 520.0 | 498.5 | 499.9 | 479.8 | 465.0 | 463.7 |
| 55° | 8862.4 | 6257.2 | 2070.5 | 857.7 | 617.8 | 514.6 | 486.5 | 489.2 | 473.1 | 458.3 | 458.3 |
| 57.5° | 9035.3 | 6188.8 | 1892.3 | 844.3 | 627.2 | 516.0 | 477.1 | 487.8 | 474.4 | 461.0 | 461.0 |
| 60° | 8664.1 | 5581.7 | 1558.6 | 785.3 | 615.1 | 511.9 | 473.1 | 493.2 | 491.8 | 478.4 | 477.1 |
| 62.5° | 7541.1 | 4494.9 | 1208.8 | 698.2 | 573.6 | 491.8 | 462.4 | 491.8 | 506.6 | 502.6 | 501.2 |
| 65° | 5812.3 | 3201.6 | 923.4 | 604.4 | 517.3 | 458.3 | 434.2 | 461.0 | 481.1 | 486.5 | 485.1 |
| 67.5° | 3772.5 | 1962.0 | 711.6 | 516.0 | 454.3 | 419.5 | 398.0 | 410.1 | 414.1 | 414.1 | 411.4 |
| 70° | 1854.8 | 1056.0 | 566.9 | 434.2 | 390.0 | 377.9 | 365.9 | 359.2 | 352.5 | 347.1 | 347.1 |
| 72.5° | 915.3 | 690.2 | 466.4 | 367.2 | 336.4 | 331.0 | 328.3 | 320.3 | 314.9 | 308.2 | 305.6 |
| 75° | 676.8 | 561.5 | 396.7 | 309.6 | 289.5 | 284.1 | 289.5 | 282.8 | 281.4 | 276.1 | 273.4 |
| 77.5° | 556.2 | 478.4 | 341.7 | 265.4 | 247.9 | 238.5 | 246.6 | 247.9 | 249.3 | 241.2 | 238.5 |
| 80° | 451.6 | 404.7 | 285.5 | 219.8 | 203.7 | 197.0 | 202.4 | 213.1 | 215.8 | 203.7 | 198.3 |
| 82.5° | 325.7 | 331.0 | 230.5 | 171.5 | 158.1 | 152.8 | 163.5 | 176.9 | 179.6 | 162.2 | 158.1 |
| 85° | 273.4 | 276.1 | 176.9 | 122.0 | 108.6 | 100.5 | 117.9 | 131.3 | 140.7 | 123.3 | 119.3 |
| 87.5° | 113.9 | 162.2 | 101.9 | 68.3 | 60.3 | 52.3 | 63.0 | 69.7 | 84.4 | 77.7 | 76.4 |
| 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)