

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: P192913

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28775.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

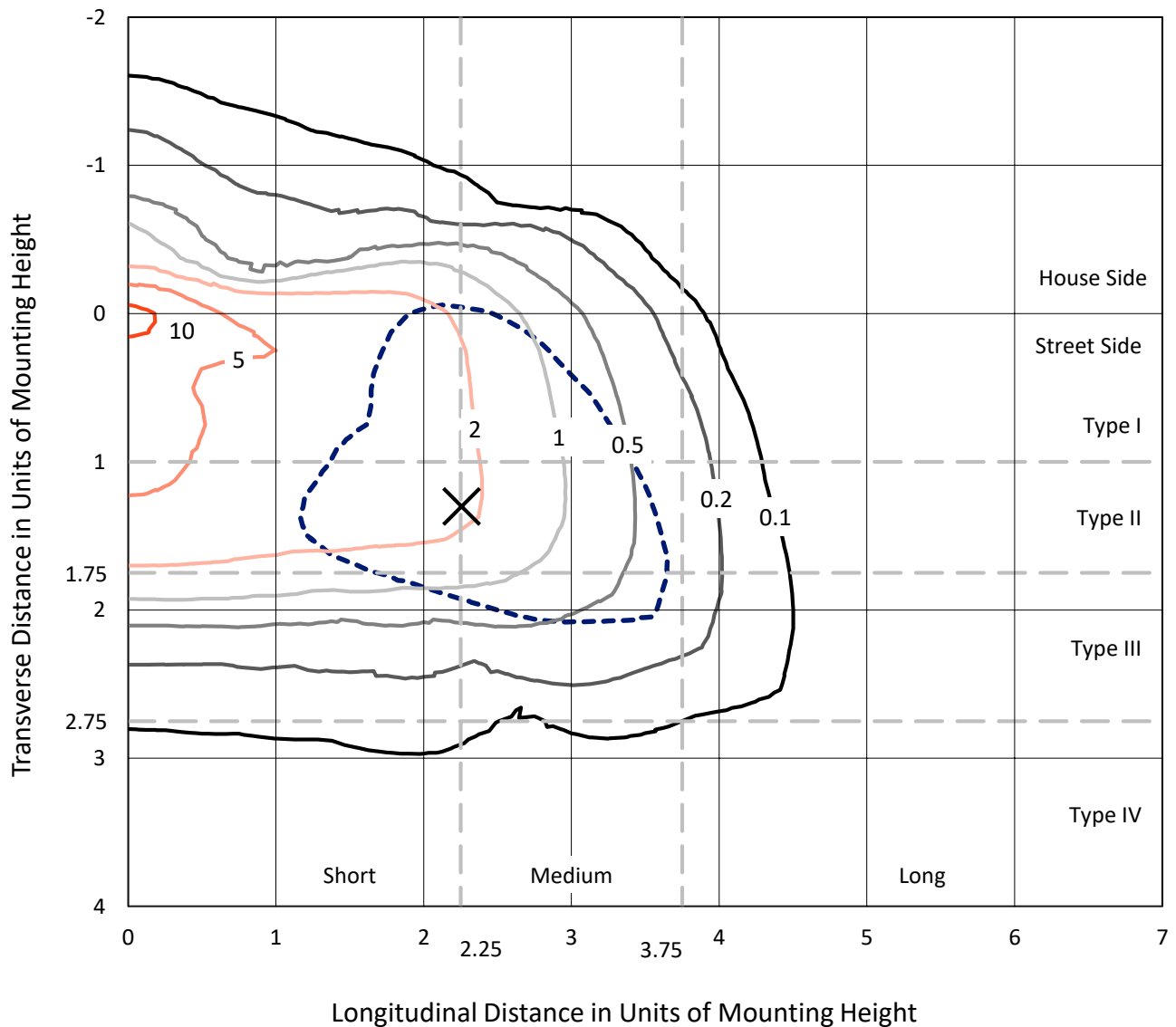


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

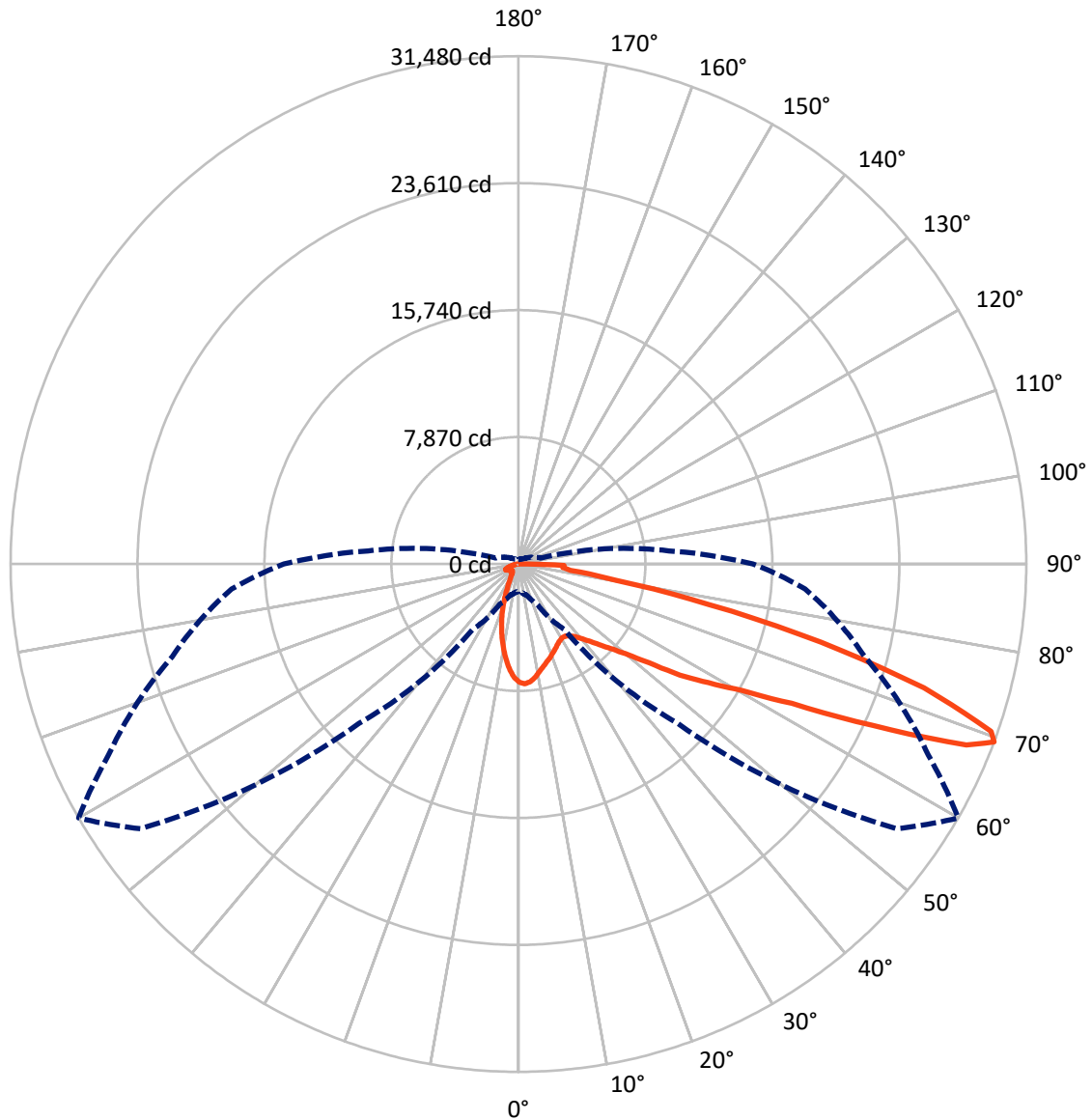


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4093.9 | 0.0 | 4093.9 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 24681.8 | 0.0 | 24681.8 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 28775.6 | 0.0 | 28775.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 620.0 | 2.2 |
| 10°-20° | 1320.9 | 4.6 |
| 20°-30° | 1683.1 | 5.8 |
| 30°-40° | 2313.8 | 8.0 |
| 40°-50° | 3754.4 | 13.0 |
| 50°-60° | 6021.1 | 20.9 |
| 60°-70° | 8013.6 | 27.8 |
| 70°-80° | 4326.7 | 15.0 |
| 80°-90° | 721.9 | 2.5 |
| 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° | 28775.6 | 100.0 |
| 0°-180° | 28775.6 | 100.0 |

Coefficient of Utilization



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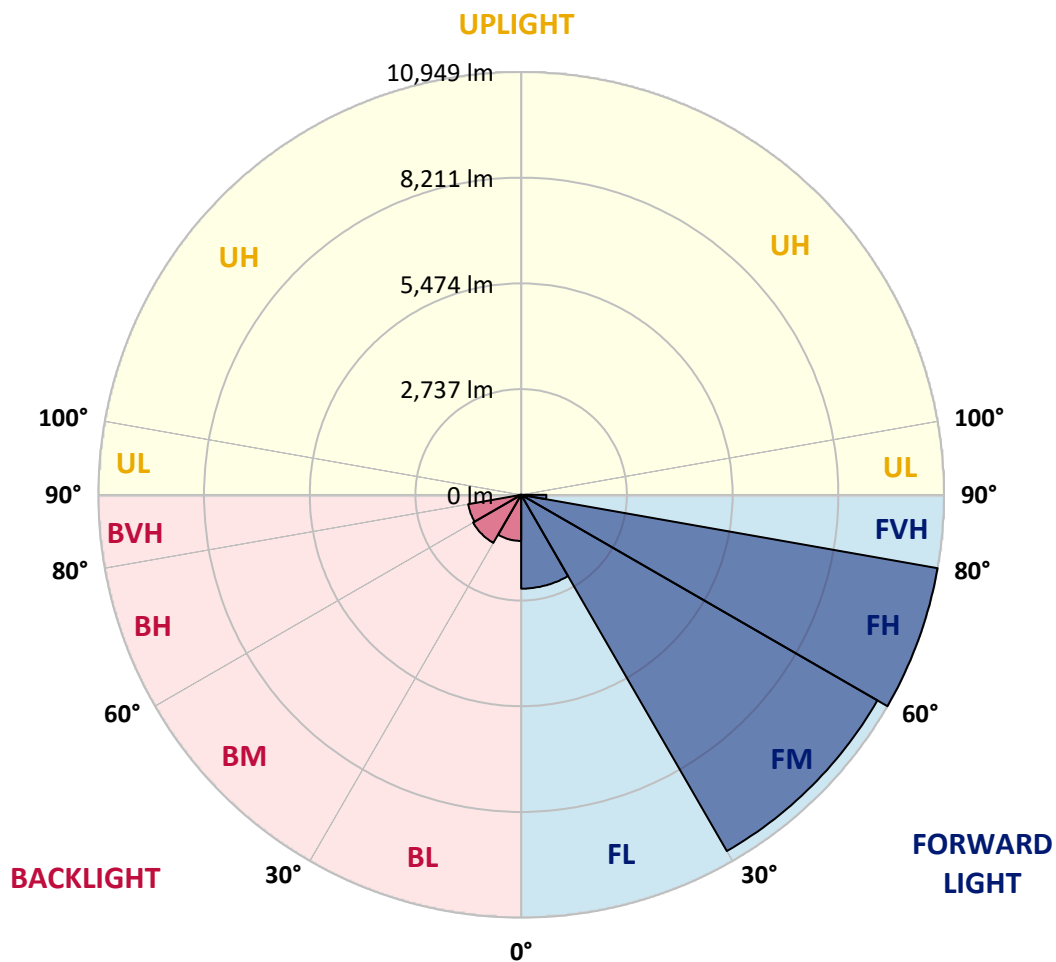
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2429.7 | 8.4 | | | |
| FM (30°-60°) | 10651.1 | 37.0 | | | |
| FH (60°-80°) | 10948.6 | 38.0 | | | G4/12000 |
| FVH (80°-90°) | 652.4 | 2.3 | | | G4/750 |
| BL (0°-30°) | 1194.3 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1438.3 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 1391.8 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.5 | 0.2 | | | G1/100 |
| 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° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 |
| 2.5° | 7482.6 | 7499.2 | 7492.4 | 7488.2 | 7500.6 | 7481.2 | 7440.9 | 7428.4 | 7408.9 | 7363.1 | 7285.2 |
| 5° | 7201.9 | 7251.9 | 7249.1 | 7286.6 | 7349.1 | 7365.8 | 7347.8 | 7350.5 | 7314.4 | 7257.4 | 7128.1 |
| 7.5° | 6716.7 | 6737.5 | 6748.6 | 6830.7 | 6944.6 | 7036.4 | 7114.2 | 7139.2 | 7122.6 | 7073.9 | 6907.2 |
| 10° | 6216.3 | 6232.9 | 6259.4 | 6355.3 | 6499.9 | 6626.3 | 6773.6 | 6858.4 | 6894.6 | 6886.3 | 6700.0 |
| 12.5° | 5786.7 | 5803.5 | 5838.2 | 5946.6 | 6118.9 | 6274.6 | 6488.7 | 6594.4 | 6680.5 | 6732.0 | 6531.8 |
| 15° | 5401.7 | 5437.9 | 5471.1 | 5596.3 | 5789.5 | 5993.9 | 6235.8 | 6369.2 | 6502.6 | 6618.0 | 6383.0 |
| 17.5° | 5101.5 | 5137.6 | 5157.0 | 5271.0 | 5476.7 | 5727.0 | 6010.6 | 6167.5 | 6334.5 | 6523.5 | 6235.8 |
| 20° | 4927.7 | 4944.4 | 4936.0 | 4999.9 | 5184.9 | 5450.4 | 5786.7 | 5968.9 | 6170.4 | 6434.5 | 6088.4 |
| 22.5° | 4879.1 | 4880.4 | 4849.8 | 4842.9 | 4962.4 | 5186.2 | 5547.6 | 5768.7 | 6016.2 | 6376.2 | 5961.8 |
| 25° | 4997.2 | 4993.0 | 4909.7 | 4841.5 | 4854.1 | 4984.7 | 5316.9 | 5574.1 | 5886.8 | 6363.6 | 5864.6 |
| 27.5° | 5260.0 | 5272.5 | 5148.8 | 5020.8 | 4894.4 | 4890.1 | 5141.7 | 5412.8 | 5781.1 | 6420.6 | 5822.9 |
| 30° | 5628.3 | 5649.1 | 5517.0 | 5354.5 | 5116.7 | 4920.7 | 5073.7 | 5316.9 | 5715.9 | 6538.7 | 5816.0 |
| 32.5° | 6031.4 | 6053.6 | 5953.5 | 5782.5 | 5471.1 | 5109.8 | 5120.9 | 5325.3 | 5713.0 | 6704.1 | 5863.2 |
| 35° | 6460.9 | 6485.9 | 6434.5 | 6289.9 | 5943.8 | 5458.7 | 5301.6 | 5460.1 | 5803.5 | 6957.2 | 5989.7 |
| 37.5° | 6940.4 | 6979.4 | 6993.2 | 6855.7 | 6485.9 | 5918.8 | 5597.7 | 5715.9 | 6007.7 | 7308.8 | 6221.8 |
| 40° | 7631.3 | 7685.6 | 7681.4 | 7483.9 | 7107.4 | 6540.2 | 6055.0 | 6085.6 | 6326.1 | 7778.7 | 6592.9 |
| 42.5° | 8954.7 | 8965.7 | 8619.7 | 8190.1 | 7791.2 | 7193.4 | 6594.4 | 6569.3 | 6765.4 | 8373.6 | 7139.2 |
| 45° | 10638.0 | 10592.1 | 9822.0 | 8992.1 | 8505.7 | 7944.1 | 7296.4 | 7174.0 | 7322.8 | 9099.2 | 7823.2 |
| 47.5° | 12035.0 | 11929.4 | 10956.3 | 9810.9 | 9261.8 | 8760.1 | 8120.5 | 7906.5 | 7988.6 | 9922.2 | 8707.2 |
| 50° | 12520.1 | 12441.0 | 11634.7 | 10492.0 | 9977.7 | 9755.3 | 9135.3 | 8832.3 | 8854.6 | 10903.5 | 9742.7 |
| 52.5° | 12415.9 | 12404.7 | 11866.7 | 10941.0 | 10647.8 | 10800.6 | 10572.7 | 10162.5 | 9945.8 | 11993.3 | 10860.4 |
| 55° | 12169.9 | 12193.5 | 11998.9 | 11463.7 | 11413.7 | 11809.9 | 12450.6 | 12147.6 | 11473.5 | 13092.7 | 12015.5 |
| 57.5° | 11314.9 | 11376.1 | 11804.3 | 12121.1 | 12646.5 | 13236.0 | 13963.0 | 13876.8 | 13117.7 | 14281.3 | 13388.8 |
| 60° | 9115.9 | 9257.6 | 10405.9 | 11993.3 | 13915.7 | 15758.9 | 16084.2 | 15884.0 | 14813.7 | 15756.1 | 15202.9 |
| 62.5° | 6387.2 | 6534.6 | 7899.6 | 10383.6 | 13707.2 | 18608.5 | 19876.2 | 19013.0 | 17249.0 | 17928.8 | 17550.7 |
| 65° | 3419.5 | 3490.4 | 4532.9 | 7204.5 | 11572.0 | 19196.5 | 25418.3 | 24104.7 | 21104.9 | 20607.4 | 19559.3 |
| 67.5° | 1886.3 | 1925.2 | 2324.2 | 3637.8 | 7411.7 | 16904.3 | 28949.0 | 29941.5 | 25924.3 | 22390.7 | 19193.7 |
| 69° | 1705.5 | 1741.7 | 2003.0 | 2755.1 | 4959.8 | 13976.9 | 28604.3 | 31480.3 | 28037.1 | 22214.3 | 17842.6 |
| 70° | 1668.1 | 1701.3 | 1936.3 | 2539.6 | 4014.4 | 11520.7 | 27449.1 | 31086.9 | 28540.2 | 21581.8 | 16663.7 |
| 72.5° | 1501.2 | 1537.4 | 1765.3 | 2281.0 | 3430.6 | 5743.6 | 21743.0 | 26284.3 | 25911.7 | 18712.8 | 12639.6 |
| 75° | 1399.7 | 1433.2 | 1819.6 | 2233.8 | 3284.7 | 3634.9 | 14334.0 | 19371.5 | 19047.7 | 13090.1 | 6815.4 |
| 77.5° | 599.1 | 596.3 | 843.7 | 1890.4 | 3333.3 | 3519.6 | 7702.2 | 12101.7 | 11041.0 | 5594.9 | 1957.2 |
| 80° | 400.3 | 393.4 | 400.3 | 556.0 | 3056.7 | 3539.0 | 4035.3 | 6142.5 | 4639.9 | 1426.2 | 964.6 |
| 82.5° | 344.7 | 339.1 | 351.7 | 339.1 | 1074.4 | 4039.5 | 3430.6 | 3266.7 | 2206.0 | 810.3 | 478.2 |
| 85° | 232.1 | 222.5 | 302.9 | 304.4 | 507.4 | 3589.0 | 3864.3 | 2759.3 | 1784.9 | 481.0 | 236.3 |
| 87.5° | 111.2 | 108.3 | 176.6 | 215.5 | 297.5 | 1458.2 | 4335.5 | 2827.3 | 1800.1 | 246.1 | 112.6 |
| 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° | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 | 7332.5 |
| 2.5° | 7261.6 | 7204.5 | 7149.0 | 7082.3 | 7012.8 | 6934.9 | 6896.0 | 6857.1 | 6847.4 | 6836.3 | 6797.3 |
| 5° | 7061.4 | 6980.8 | 6841.9 | 6688.9 | 6527.5 | 6370.6 | 6251.0 | 6176.0 | 6118.9 | 6089.8 | 6038.3 |
| 7.5° | 6802.8 | 6684.7 | 6441.5 | 6177.3 | 5906.2 | 5658.9 | 5444.8 | 5310.0 | 5182.0 | 5122.3 | 5054.3 |
| 10° | 6556.8 | 6380.3 | 6002.1 | 5612.9 | 5223.8 | 4849.8 | 4498.2 | 4249.3 | 4028.4 | 3904.6 | 3817.1 |
| 12.5° | 6345.6 | 6103.7 | 5579.7 | 5052.8 | 4519.1 | 3986.7 | 3459.8 | 3045.6 | 2699.5 | 2517.4 | 2424.3 |
| 15° | 6139.9 | 5847.9 | 5177.9 | 4509.2 | 3824.0 | 3099.8 | 2407.5 | 1937.7 | 1651.4 | 1537.4 | 1498.5 |
| 17.5° | 5953.5 | 5579.7 | 4774.7 | 3961.6 | 3106.8 | 2231.0 | 1618.0 | 1359.5 | 1249.6 | 1212.1 | 1199.5 |
| 20° | 5752.0 | 5308.6 | 4356.3 | 3388.9 | 2358.9 | 1559.6 | 1263.6 | 1149.5 | 1105.0 | 1094.0 | 1088.4 |
| 22.5° | 5557.4 | 5041.7 | 3956.1 | 2776.0 | 1694.5 | 1203.8 | 1085.6 | 1038.4 | 1031.4 | 1041.1 | 1041.1 |
| 25° | 5392.0 | 4802.6 | 3523.7 | 2135.2 | 1244.1 | 1013.4 | 971.7 | 960.5 | 986.9 | 1023.1 | 1030.0 |
| 27.5° | 5268.3 | 4606.6 | 3063.6 | 1576.3 | 991.1 | 881.2 | 879.9 | 898.0 | 963.3 | 1032.8 | 1046.7 |
| 30° | 5183.5 | 4420.3 | 2571.5 | 1137.1 | 831.3 | 775.6 | 797.9 | 836.8 | 932.7 | 1031.4 | 1057.8 |
| 32.5° | 5140.3 | 4282.8 | 2058.7 | 879.9 | 711.8 | 681.1 | 718.6 | 765.9 | 860.4 | 952.2 | 986.9 |
| 35° | 5173.8 | 4181.3 | 1574.9 | 733.9 | 628.4 | 604.6 | 643.5 | 689.4 | 745.0 | 783.9 | 810.3 |
| 37.5° | 5298.8 | 4140.9 | 1188.5 | 657.5 | 571.3 | 549.0 | 579.6 | 606.1 | 628.4 | 639.3 | 651.9 |
| 40° | 5568.5 | 4184.0 | 952.2 | 618.5 | 539.3 | 511.6 | 524.0 | 533.7 | 547.7 | 558.8 | 564.4 |
| 42.5° | 5966.1 | 4313.3 | 853.6 | 603.3 | 522.7 | 482.4 | 479.5 | 483.7 | 501.8 | 522.7 | 526.8 |
| 45° | 6522.1 | 4541.3 | 846.5 | 613.1 | 514.3 | 458.7 | 446.3 | 451.8 | 479.5 | 511.6 | 517.2 |
| 47.5° | 7232.4 | 4888.8 | 902.2 | 642.2 | 521.2 | 446.3 | 425.3 | 432.3 | 467.1 | 510.1 | 517.2 |
| 50° | 8092.9 | 5373.9 | 995.3 | 685.3 | 551.9 | 448.9 | 418.4 | 422.7 | 458.7 | 506.0 | 513.0 |
| 52.5° | 9109.0 | 6061.9 | 1096.8 | 727.0 | 583.8 | 467.1 | 423.9 | 414.2 | 447.6 | 489.3 | 497.6 |
| 55° | 10239.0 | 6944.6 | 1201.0 | 764.5 | 600.5 | 489.3 | 435.1 | 403.0 | 426.7 | 461.5 | 468.4 |
| 57.5° | 11626.3 | 8179.0 | 1381.7 | 800.7 | 611.7 | 504.6 | 446.3 | 392.0 | 400.3 | 425.3 | 430.9 |
| 60° | 13504.2 | 9924.9 | 1700.0 | 860.4 | 636.7 | 510.1 | 444.8 | 382.3 | 373.8 | 387.9 | 390.6 |
| 62.5° | 15754.7 | 11820.9 | 1965.5 | 935.5 | 678.4 | 514.3 | 436.5 | 375.3 | 351.7 | 351.7 | 354.4 |
| 65° | 17090.6 | 12328.3 | 1818.2 | 998.1 | 713.1 | 510.1 | 426.7 | 368.3 | 335.0 | 319.7 | 321.1 |
| 67.5° | 15957.7 | 10842.4 | 1558.2 | 1010.5 | 711.8 | 490.7 | 411.5 | 355.8 | 318.3 | 294.7 | 293.3 |
| 69° | 14538.5 | 9355.0 | 1441.4 | 977.3 | 678.4 | 465.7 | 392.0 | 342.0 | 305.8 | 280.8 | 279.3 |
| 70° | 13394.4 | 8447.3 | 1364.9 | 941.0 | 642.2 | 447.6 | 376.7 | 329.4 | 296.1 | 272.5 | 269.7 |
| 72.5° | 9738.6 | 5535.2 | 1166.3 | 808.9 | 529.6 | 375.3 | 325.3 | 289.1 | 264.1 | 250.2 | 247.5 |
| 75° | 4866.5 | 2639.7 | 946.6 | 656.1 | 405.9 | 300.3 | 266.9 | 241.9 | 229.3 | 226.6 | 225.2 |
| 77.5° | 1598.6 | 1209.3 | 677.0 | 489.3 | 301.7 | 234.9 | 215.5 | 197.4 | 194.6 | 202.9 | 200.2 |
| 80° | 878.6 | 703.4 | 429.5 | 323.9 | 205.7 | 172.4 | 169.6 | 159.8 | 164.0 | 177.9 | 175.2 |
| 82.5° | 447.6 | 365.6 | 265.5 | 194.6 | 139.0 | 123.7 | 134.8 | 129.3 | 134.8 | 147.4 | 146.0 |
| 85° | 221.0 | 200.2 | 168.2 | 118.1 | 91.8 | 79.2 | 95.9 | 100.1 | 102.8 | 112.6 | 112.6 |
| 87.5° | 127.9 | 118.1 | 88.9 | 55.6 | 45.9 | 41.7 | 55.6 | 54.2 | 63.9 | 69.5 | 68.1 |
| 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)