

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: P193646

Luminaire Tested: **GAN-AF-08-LED-U-SL2-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41834 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

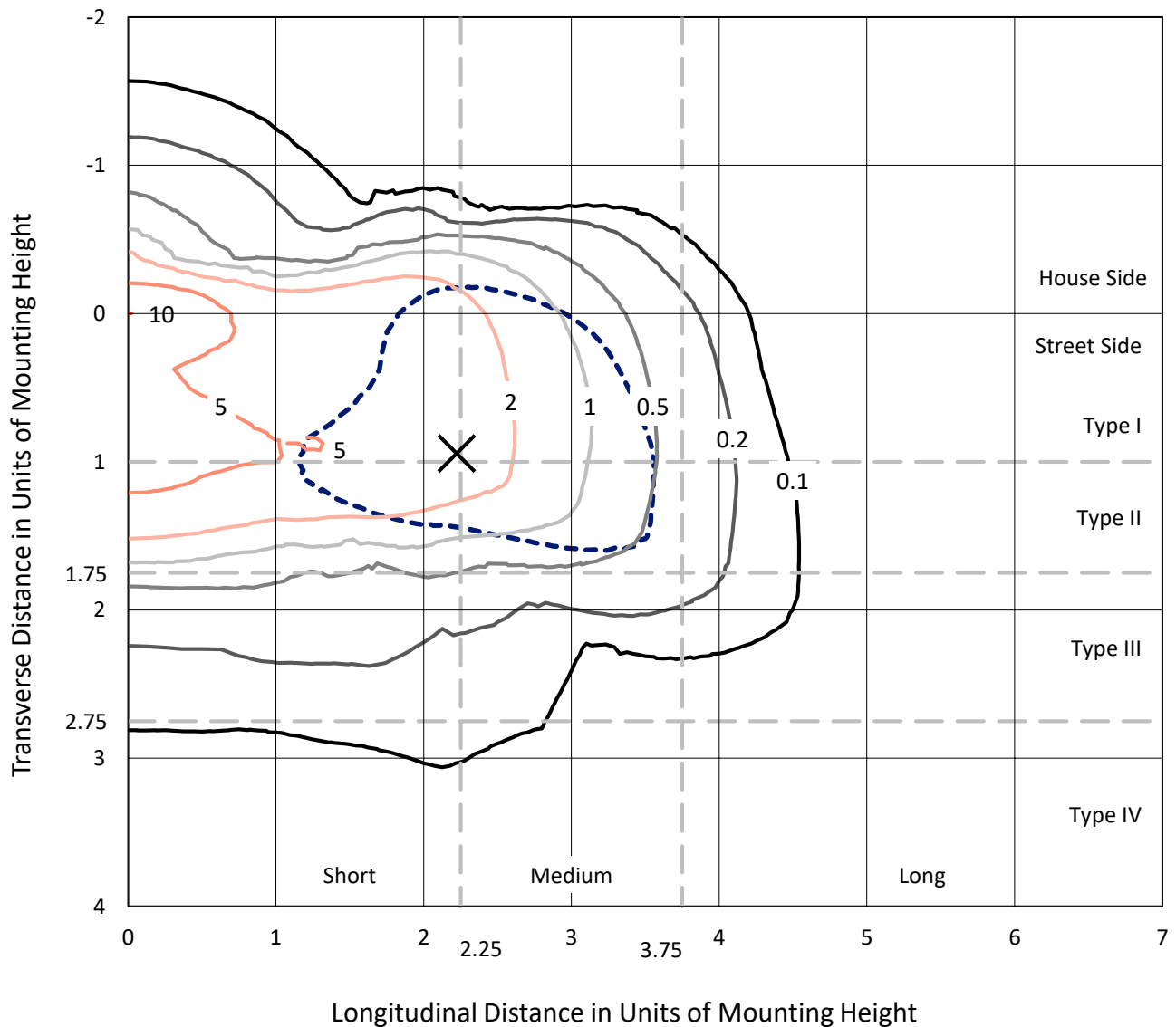


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

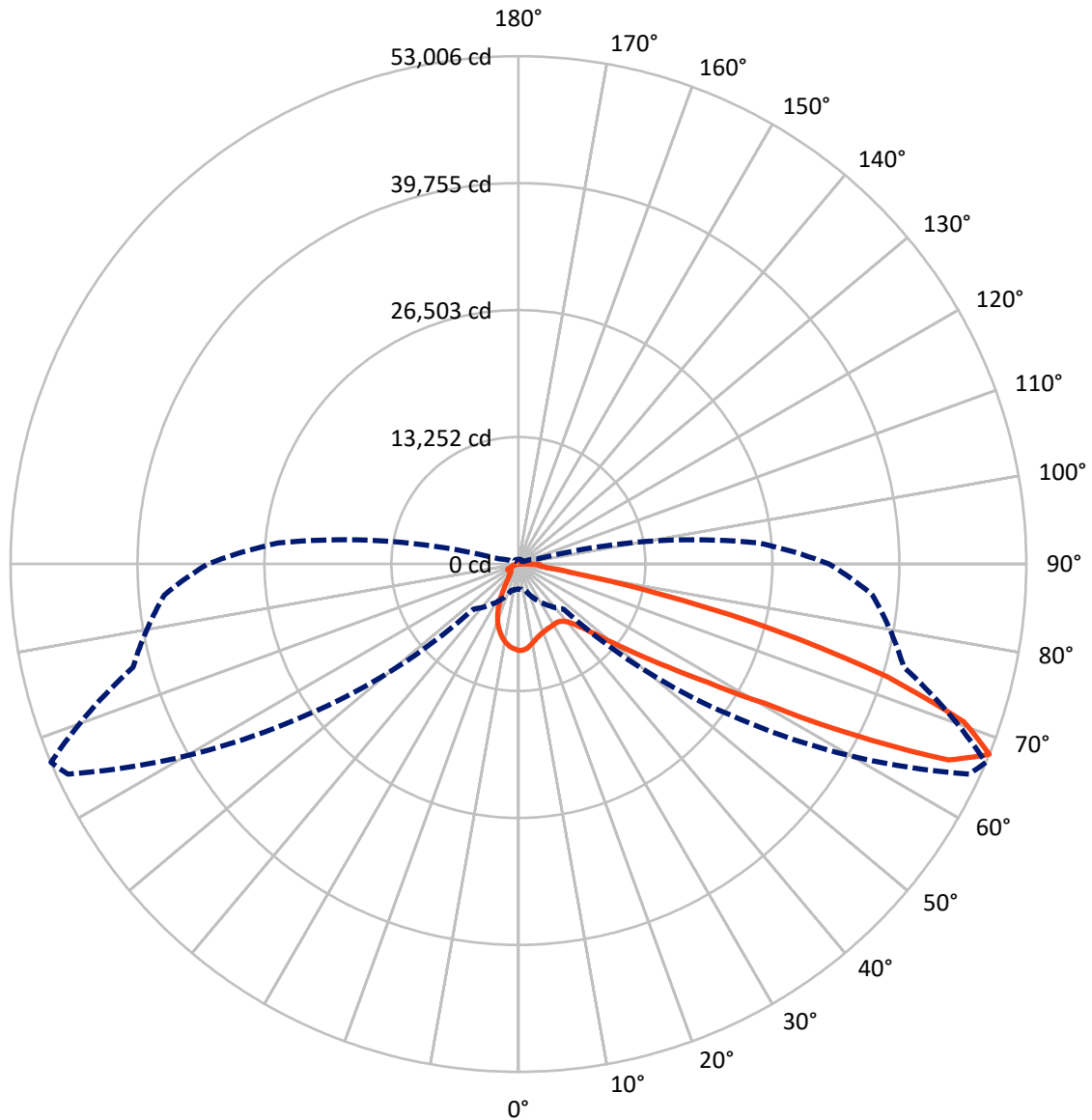


Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6931.4 | 0.0 | 6931.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 34902.6 | 0.0 | 34902.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 41834.0 | 0.0 | 41834.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 769.8 | 1.8 |
| 10°-20° | 1781.3 | 4.3 |
| 20°-30° | 2414.6 | 5.8 |
| 30°-40° | 3432.6 | 8.2 |
| 40°-50° | 5742.8 | 13.7 |
| 50°-60° | 9085.1 | 21.7 |
| 60°-70° | 11573.5 | 27.7 |
| 70°-80° | 6062.2 | 14.5 |
| 80°-90° | 972.3 | 2.3 |
| 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° | 41834.0 | 100.0 |
| 0°-180° | 41834.0 | 100.0 |

Coefficient of Utilization



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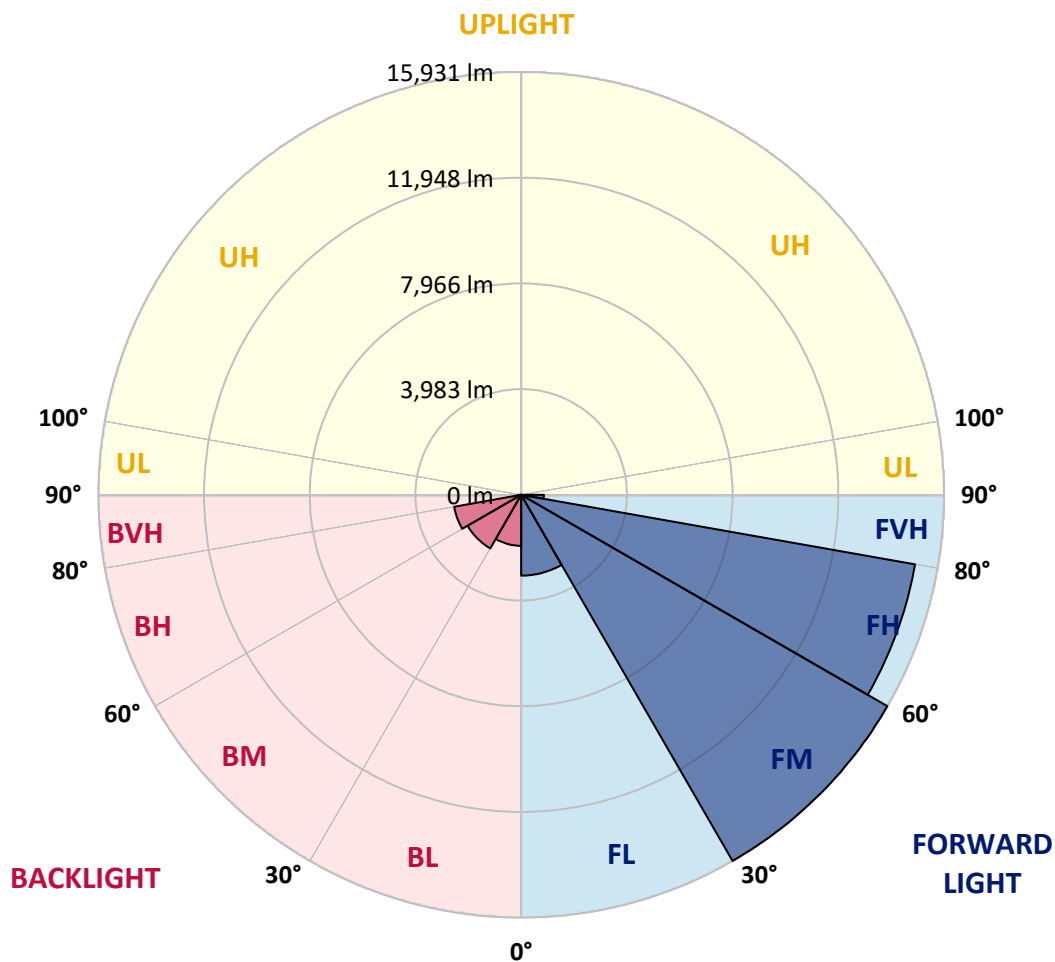
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3044.5 | 7.3 | | | |
| FM | (30°-60°) | 15931.3 | 38.1 | | | |
| FH | (60°-80°) | 15071.9 | 36.0 | | | G5 |
| FVH | (80°-90°) | 854.9 | 2.0 | | | G5 |
| BL | (0°-30°) | 1921.2 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2329.2 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2563.7 | 6.1 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 117.3 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 |
| 2.5° | 8652.2 | 8666.6 | 8712.0 | 8740.9 | 8870.8 | 8926.5 | 8965.7 | 9004.9 | 9011.1 | 9029.7 | 9011.1 |
| 5° | 7744.4 | 7775.4 | 7860.0 | 7954.9 | 8206.5 | 8404.6 | 8613.0 | 8829.6 | 8868.8 | 9009.1 | 9048.2 |
| 7.5° | 7041.0 | 7032.7 | 7102.9 | 7216.3 | 7474.2 | 7748.6 | 8113.7 | 8544.9 | 8629.5 | 8945.1 | 9097.8 |
| 10° | 6527.3 | 6521.1 | 6595.4 | 6712.9 | 6958.4 | 7218.4 | 7631.0 | 8221.0 | 8340.6 | 8844.0 | 9145.2 |
| 12.5° | 6147.7 | 6149.8 | 6224.0 | 6354.0 | 6603.6 | 6865.6 | 7284.4 | 7907.4 | 8060.1 | 8726.4 | 9194.7 |
| 15° | 5896.0 | 5912.5 | 5972.3 | 6110.6 | 6354.0 | 6616.0 | 7026.5 | 7672.2 | 7843.5 | 8633.6 | 9250.4 |
| 17.5° | 5811.4 | 5838.2 | 5858.9 | 5960.0 | 6168.3 | 6430.3 | 6832.6 | 7498.9 | 7680.5 | 8569.6 | 9299.9 |
| 20° | 5889.8 | 5920.8 | 5881.6 | 5916.6 | 6048.7 | 6279.7 | 6679.9 | 7362.8 | 7548.5 | 8497.4 | 9306.1 |
| 22.5° | 6226.1 | 6255.0 | 6139.4 | 6038.4 | 6030.1 | 6170.4 | 6554.1 | 7255.5 | 7447.4 | 8443.8 | 9308.2 |
| 25° | 6818.2 | 6836.7 | 6642.8 | 6407.6 | 6178.6 | 6131.2 | 6465.4 | 7181.2 | 7385.5 | 8396.3 | 9269.0 |
| 27.5° | 7544.3 | 7558.8 | 7336.0 | 6989.4 | 6529.3 | 6224.0 | 6434.4 | 7137.9 | 7350.4 | 8355.1 | 9203.0 |
| 30° | 8427.3 | 8495.4 | 8196.2 | 7758.9 | 7088.4 | 6498.4 | 6496.3 | 7115.2 | 7311.2 | 8284.9 | 9073.0 |
| 32.5° | 9330.9 | 9359.8 | 9153.5 | 8709.9 | 7841.4 | 6981.1 | 6669.6 | 7131.7 | 7300.9 | 8200.4 | 8908.0 |
| 35° | 10246.8 | 10284.0 | 10149.9 | 9793.0 | 8870.8 | 7688.7 | 7008.0 | 7228.7 | 7364.9 | 8171.5 | 8792.4 |
| 37.5° | 11433.1 | 11482.6 | 11296.9 | 10884.3 | 10123.1 | 8648.0 | 7571.2 | 7472.1 | 7560.8 | 8254.0 | 8757.4 |
| 40° | 13308.3 | 13285.6 | 12743.1 | 12128.3 | 11492.9 | 9875.5 | 8375.7 | 7884.7 | 7936.3 | 8520.1 | 8864.6 |
| 42.5° | 15490.9 | 15435.2 | 14500.7 | 13535.2 | 12998.9 | 11360.9 | 9440.2 | 8600.6 | 8590.3 | 9044.1 | 9242.2 |
| 45° | 17232.1 | 17186.7 | 16345.0 | 15154.7 | 14725.6 | 13052.5 | 10816.2 | 9667.1 | 9590.8 | 9875.5 | 9939.5 |
| 47.5° | 18174.9 | 18177.0 | 17692.1 | 16720.5 | 16710.2 | 15202.1 | 12584.2 | 11210.3 | 11078.2 | 11212.3 | 11144.2 |
| 50° | 17844.8 | 17888.1 | 17836.6 | 17527.1 | 18521.5 | 18020.2 | 14892.7 | 13361.9 | 13095.8 | 13227.9 | 12965.9 |
| 52.5° | 16248.1 | 16303.8 | 16609.1 | 17083.6 | 19282.7 | 21426.2 | 18284.2 | 16035.6 | 15726.1 | 15678.7 | 15387.8 |
| 55° | 13417.6 | 13485.7 | 14108.7 | 15398.1 | 18649.4 | 23714.0 | 23635.6 | 19443.6 | 18950.6 | 18502.9 | 18379.1 |
| 57.5° | 9248.4 | 9361.8 | 10364.4 | 12278.9 | 16600.8 | 24405.1 | 30008.2 | 24301.9 | 23299.3 | 21735.6 | 21764.5 |
| 60° | 5213.2 | 5345.2 | 6527.3 | 8266.4 | 12466.6 | 23654.2 | 34856.2 | 31660.6 | 29544.0 | 25521.2 | 25735.7 |
| 62.5° | 3315.2 | 3457.6 | 4355.0 | 5743.3 | 7480.4 | 19610.7 | 36842.8 | 41890.9 | 39202.9 | 30187.6 | 30398.1 |
| 65° | 2683.9 | 2745.8 | 3168.7 | 4740.7 | 5431.8 | 11814.7 | 35334.8 | 50318.2 | 49315.6 | 36110.5 | 35128.5 |
| 67.5° | 2620.0 | 2640.6 | 2859.3 | 3979.5 | 5209.0 | 6640.7 | 28184.5 | 51894.4 | 53006.3 | 41641.3 | 37098.6 |
| 70° | 2589.0 | 2661.2 | 3222.4 | 3798.0 | 4988.3 | 5601.0 | 16937.1 | 47574.5 | 49330.1 | 43087.5 | 34476.6 |
| 72.5° | 1256.4 | 1252.2 | 1621.5 | 3434.9 | 5619.6 | 5809.4 | 8701.7 | 38493.2 | 40255.0 | 37329.7 | 28331.0 |
| 75° | 1012.9 | 926.3 | 885.0 | 1258.4 | 5403.0 | 5999.2 | 5545.3 | 26486.6 | 27761.6 | 25028.1 | 17415.7 |
| 77.5° | 961.4 | 858.2 | 786.0 | 788.1 | 2283.7 | 6362.2 | 4697.4 | 14659.6 | 15030.9 | 11305.2 | 4771.7 |
| 80° | 796.3 | 701.4 | 649.8 | 732.4 | 1105.8 | 6059.0 | 5079.1 | 6634.6 | 6087.9 | 2776.8 | 1588.5 |
| 82.5° | 552.9 | 503.4 | 488.9 | 614.8 | 885.0 | 4317.8 | 5906.3 | 3564.8 | 2989.3 | 1390.5 | 979.9 |
| 85° | 352.8 | 301.2 | 334.2 | 447.7 | 689.0 | 1992.8 | 6083.7 | 2778.8 | 2209.5 | 883.0 | 552.9 |
| 87.5° | 163.0 | 132.0 | 165.0 | 247.6 | 449.7 | 687.0 | 5788.7 | 3121.3 | 2275.5 | 466.2 | 348.6 |
| 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° | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 | 9023.5 |
| 2.5° | 9027.6 | 8988.4 | 8957.5 | 8899.7 | 8835.8 | 8773.9 | 8718.2 | 8648.0 | 8627.4 | 8608.8 | 8637.7 |
| 5° | 9056.5 | 9017.3 | 8903.8 | 8726.4 | 8530.4 | 8346.8 | 8163.2 | 8006.4 | 7909.5 | 7855.8 | 7886.8 |
| 7.5° | 9099.8 | 9044.1 | 8808.9 | 8483.0 | 8130.2 | 7808.4 | 7476.3 | 7210.1 | 7014.1 | 6921.3 | 6948.1 |
| 10° | 9139.0 | 9031.7 | 8648.0 | 8159.1 | 7643.4 | 7164.7 | 6640.7 | 6207.5 | 5885.7 | 5716.5 | 5757.8 |
| 12.5° | 9155.5 | 8984.3 | 8423.2 | 7754.8 | 7047.2 | 6345.7 | 5574.2 | 4926.4 | 4464.3 | 4295.1 | 4260.1 |
| 15° | 9172.0 | 8930.7 | 8175.6 | 7294.7 | 6327.2 | 5334.9 | 4253.9 | 3478.2 | 3094.5 | 3009.9 | 2991.3 |
| 17.5° | 9176.2 | 8837.8 | 7895.0 | 6795.5 | 5483.4 | 4132.2 | 2908.8 | 2415.8 | 2417.8 | 2554.0 | 2570.5 |
| 20° | 9132.8 | 8699.6 | 7554.6 | 6174.5 | 4472.5 | 2857.2 | 1997.0 | 1912.4 | 2223.9 | 2564.3 | 2605.5 |
| 22.5° | 9033.8 | 8516.0 | 7168.9 | 5450.4 | 3315.2 | 1881.4 | 1545.2 | 1638.0 | 2040.3 | 2457.0 | 2504.5 |
| 25° | 8908.0 | 8293.2 | 6712.9 | 4610.8 | 2195.0 | 1345.1 | 1295.6 | 1409.0 | 1681.3 | 1959.8 | 1986.7 |
| 27.5° | 8736.7 | 8029.1 | 6201.3 | 3649.4 | 1425.5 | 1107.8 | 1140.8 | 1217.2 | 1328.6 | 1452.3 | 1464.7 |
| 30° | 8516.0 | 7713.5 | 5654.6 | 2661.2 | 1076.9 | 996.4 | 1043.9 | 1085.1 | 1132.6 | 1202.7 | 1208.9 |
| 32.5° | 8262.3 | 7410.2 | 5093.5 | 1838.1 | 955.2 | 938.7 | 975.8 | 996.4 | 1033.6 | 1076.9 | 1081.0 |
| 35° | 8049.8 | 7121.4 | 4511.7 | 1299.7 | 903.6 | 895.3 | 920.1 | 928.3 | 963.4 | 1010.9 | 1015.0 |
| 37.5° | 7928.0 | 6886.2 | 3911.4 | 1048.0 | 868.5 | 856.1 | 870.6 | 870.6 | 920.1 | 990.2 | 1000.5 |
| 40° | 7936.3 | 6756.3 | 3311.1 | 946.9 | 839.6 | 823.1 | 825.2 | 825.2 | 889.1 | 965.5 | 971.7 |
| 42.5° | 8161.2 | 6789.3 | 2778.8 | 907.7 | 816.9 | 798.4 | 788.1 | 794.2 | 847.9 | 897.4 | 901.5 |
| 45° | 8689.3 | 7022.4 | 2279.6 | 883.0 | 794.2 | 788.1 | 765.4 | 763.3 | 783.9 | 806.6 | 806.6 |
| 47.5° | 9555.7 | 7482.4 | 1941.3 | 866.5 | 775.7 | 773.6 | 746.8 | 720.0 | 717.9 | 726.2 | 726.2 |
| 50° | 10964.8 | 8274.6 | 1714.3 | 847.9 | 763.3 | 746.8 | 715.9 | 674.6 | 660.2 | 666.3 | 666.3 |
| 52.5° | 13077.3 | 9687.8 | 1627.7 | 823.1 | 736.5 | 709.7 | 674.6 | 633.3 | 621.0 | 623.0 | 623.0 |
| 55° | 15847.8 | 11858.0 | 1615.3 | 794.2 | 707.6 | 664.3 | 635.4 | 604.5 | 590.0 | 594.1 | 594.1 |
| 57.5° | 19233.2 | 14859.7 | 1836.1 | 748.9 | 668.4 | 618.9 | 602.4 | 581.8 | 571.4 | 577.6 | 575.6 |
| 60° | 23348.9 | 18787.6 | 2723.1 | 701.4 | 629.2 | 577.6 | 577.6 | 561.1 | 552.9 | 559.1 | 557.0 |
| 62.5° | 28089.6 | 23299.3 | 3828.9 | 666.3 | 588.0 | 544.6 | 552.9 | 544.6 | 536.4 | 540.5 | 538.4 |
| 65° | 32293.9 | 26239.1 | 3585.5 | 639.5 | 546.7 | 513.7 | 528.1 | 524.0 | 517.8 | 521.9 | 519.9 |
| 67.5° | 32415.7 | 25149.8 | 2013.5 | 610.6 | 507.5 | 482.7 | 503.4 | 501.3 | 497.2 | 501.3 | 499.2 |
| 70° | 28929.2 | 21236.4 | 1134.6 | 557.0 | 466.2 | 445.6 | 474.5 | 472.4 | 468.3 | 476.5 | 474.5 |
| 72.5° | 23177.6 | 15410.5 | 829.3 | 491.0 | 425.0 | 406.4 | 439.4 | 437.4 | 437.4 | 449.7 | 443.5 |
| 75° | 13337.2 | 7930.1 | 662.2 | 420.8 | 381.7 | 367.2 | 396.1 | 398.2 | 402.3 | 418.8 | 406.4 |
| 77.5° | 3802.1 | 2471.5 | 540.5 | 356.9 | 328.0 | 321.8 | 350.7 | 354.8 | 356.9 | 375.5 | 359.0 |
| 80° | 1413.1 | 1138.8 | 445.6 | 299.1 | 268.2 | 270.3 | 297.1 | 303.3 | 305.3 | 323.9 | 303.3 |
| 82.5° | 901.5 | 750.9 | 361.0 | 231.1 | 210.4 | 208.4 | 241.4 | 249.6 | 249.6 | 251.7 | 239.3 |
| 85° | 526.1 | 449.7 | 272.3 | 167.1 | 148.5 | 142.3 | 179.5 | 193.9 | 187.7 | 183.6 | 175.4 |
| 87.5° | 352.8 | 309.4 | 167.1 | 92.8 | 80.5 | 76.3 | 105.2 | 115.5 | 111.4 | 105.2 | 99.0 |
| 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)