

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: P453447

Luminaire Tested: **GLAN-SA4C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 23054 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

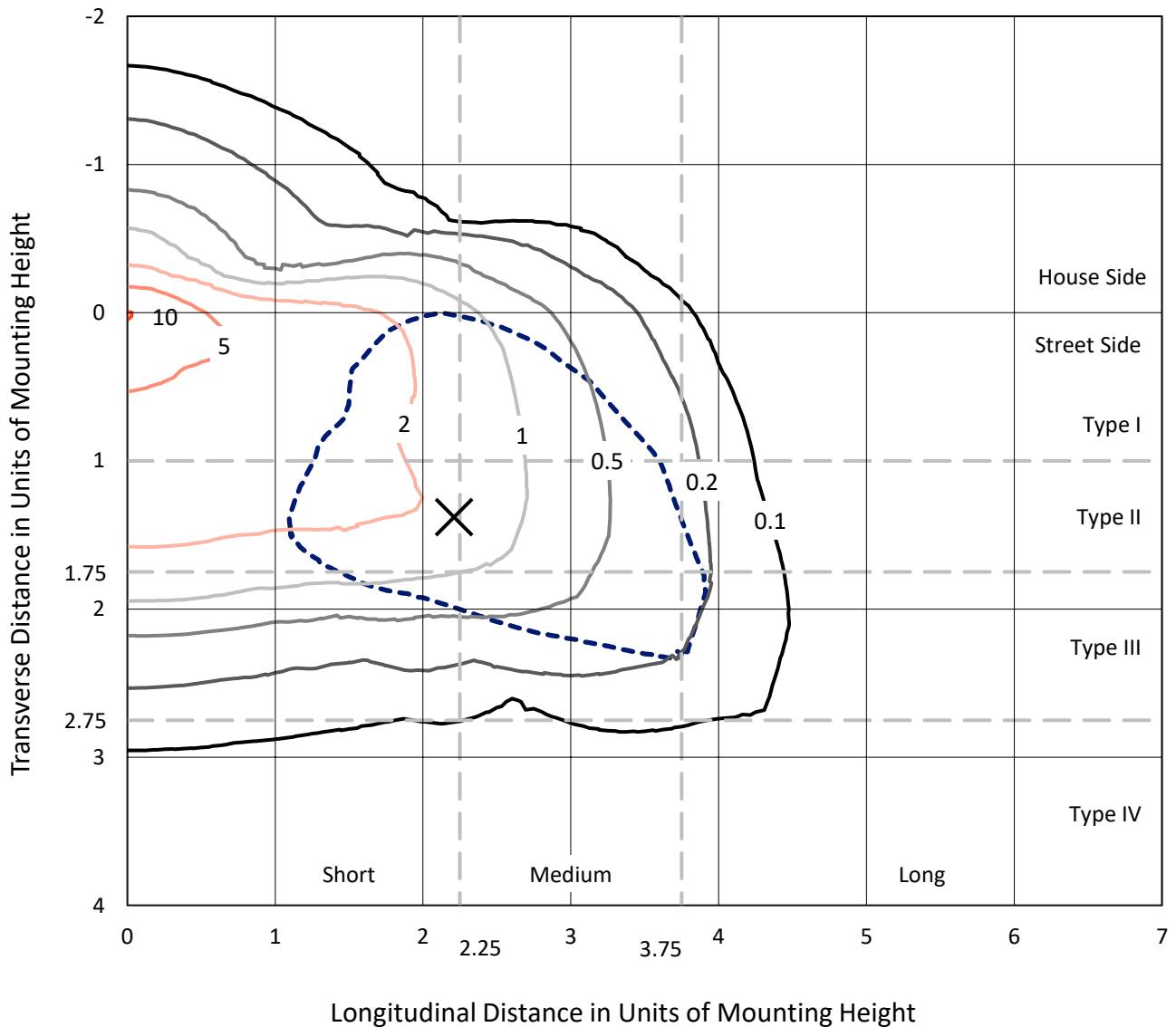
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

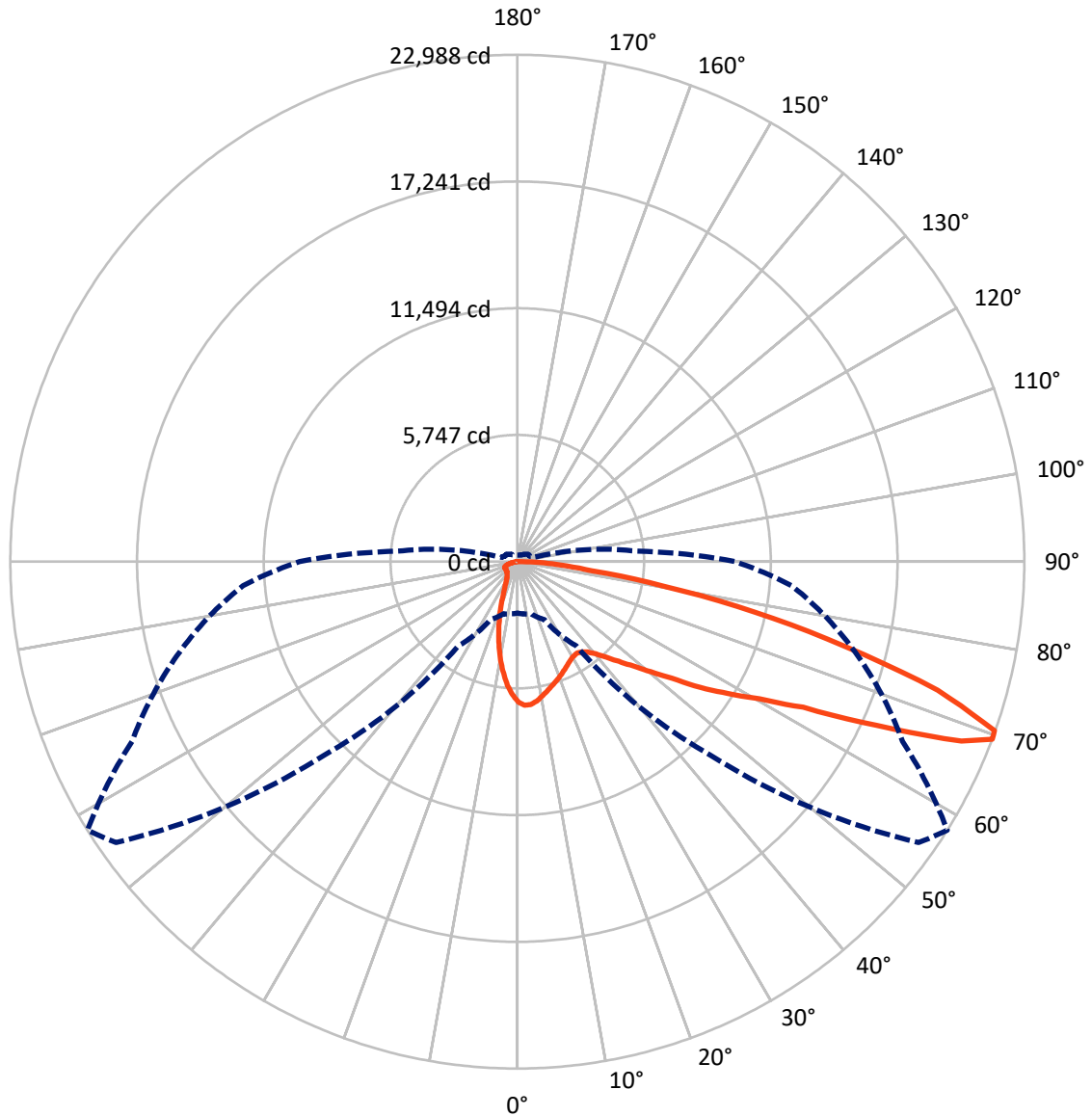
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3378.6 | 0.0 | 3378.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 19675.4 | 0.0 | 19675.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 23054.0 | 0.0 | 23054.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 541.0 | 2.3 |
| 10°-20° | 1188.0 | 5.2 |
| 20°-30° | 1534.9 | 6.7 |
| 30°-40° | 1993.6 | 8.6 |
| 40°-50° | 2898.4 | 12.6 |
| 50°-60° | 4624.9 | 20.1 |
| 60°-70° | 6178.2 | 26.8 |
| 70°-80° | 3561.5 | 15.4 |
| 80°-90° | 533.4 | 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° | 23054.0 | 100.0 |
| 0°-180° | 23054.0 | 100.0 |

Coefficient of Utilization



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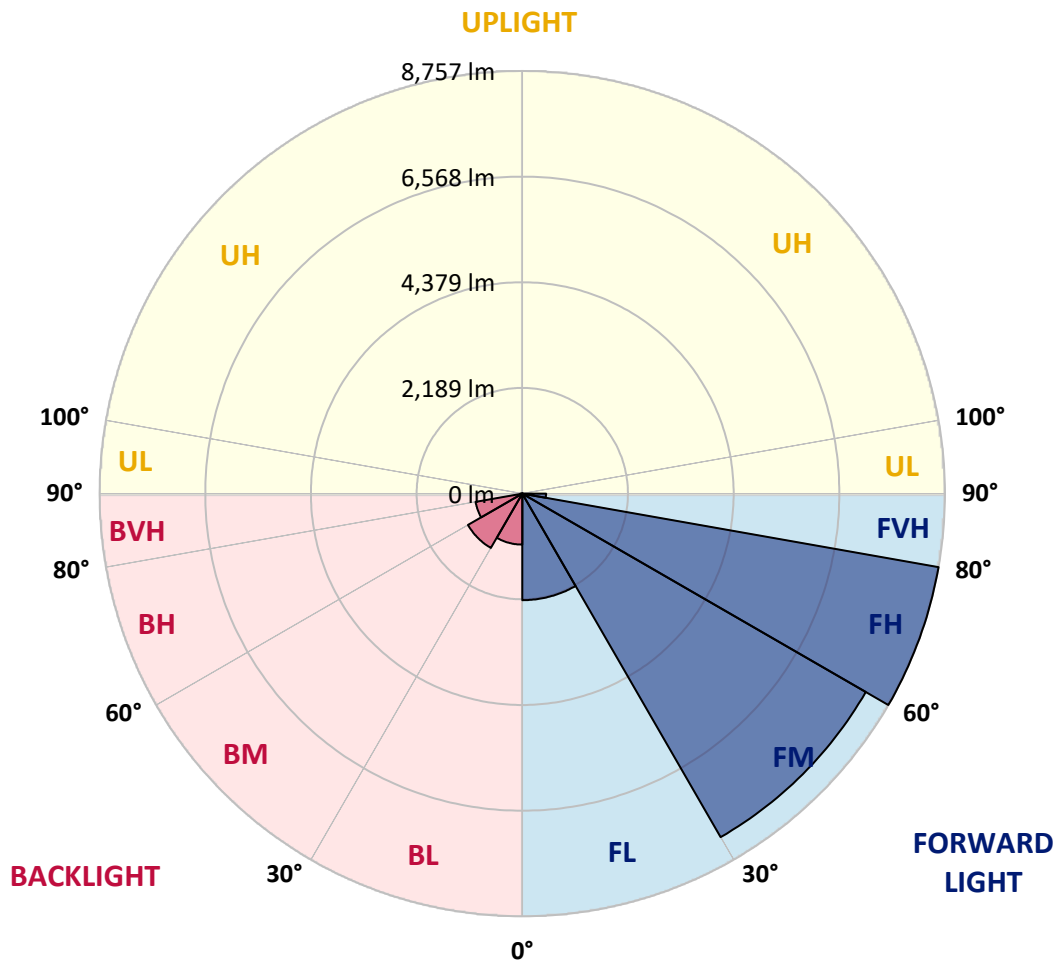
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2208.0 | 9.6 | | | |
| FM (30°-60°) | 8217.6 | 35.6 | | | |
| FH (60°-80°) | 8757.3 | 38.0 | | | G4/12000 |
| FVH (80°-90°) | 492.6 | 2.1 | | | G3/500 |
| BL (0°-30°) | 1056.0 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1299.3 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 982.4 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 40.9 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 |
| 2.5° | 6607.3 | 6625.3 | 6620.2 | 6613.8 | 6603.5 | 6575.2 | 6528.9 | 6521.2 | 6491.6 | 6428.6 | 6350.2 |
| 5° | 6505.8 | 6521.2 | 6522.5 | 6531.5 | 6544.3 | 6539.2 | 6505.8 | 6501.9 | 6458.2 | 6373.3 | 6242.2 |
| 7.5° | 6157.3 | 6177.9 | 6222.9 | 6273.1 | 6318.1 | 6360.5 | 6370.8 | 6377.2 | 6350.2 | 6252.5 | 6077.6 |
| 10° | 5765.2 | 5785.8 | 5806.3 | 5880.9 | 5991.5 | 6096.9 | 6184.3 | 6195.9 | 6202.3 | 6112.3 | 5898.9 |
| 12.5° | 5330.6 | 5373.1 | 5416.8 | 5527.3 | 5675.2 | 5841.1 | 5995.3 | 6019.8 | 6063.5 | 5995.3 | 5744.6 |
| 15° | 4961.6 | 5005.3 | 5068.3 | 5167.3 | 5346.1 | 5585.2 | 5802.5 | 5842.3 | 5928.5 | 5893.8 | 5600.6 |
| 17.5° | 4705.8 | 4721.2 | 4764.9 | 4878.0 | 5070.9 | 5322.9 | 5613.5 | 5693.2 | 5830.8 | 5821.8 | 5477.2 |
| 20° | 4503.9 | 4523.2 | 4550.2 | 4619.6 | 4820.2 | 5086.3 | 5437.3 | 5540.2 | 5726.6 | 5757.5 | 5355.1 |
| 22.5° | 4419.0 | 4433.2 | 4429.3 | 4466.6 | 4602.9 | 4870.3 | 5258.6 | 5380.8 | 5634.1 | 5713.8 | 5241.9 |
| 25° | 4424.2 | 4437.0 | 4417.8 | 4408.8 | 4489.8 | 4680.0 | 5072.2 | 5227.8 | 5559.5 | 5684.2 | 5139.0 |
| 27.5° | 4510.3 | 4519.3 | 4483.3 | 4447.3 | 4453.8 | 4561.8 | 4917.9 | 5090.2 | 5496.5 | 5697.1 | 5052.9 |
| 30° | 4626.0 | 4642.8 | 4619.6 | 4575.9 | 4528.3 | 4533.5 | 4818.9 | 4988.6 | 5466.9 | 5742.1 | 5011.8 |
| 32.5° | 4775.2 | 4790.6 | 4780.3 | 4745.6 | 4683.9 | 4615.8 | 4794.5 | 4951.3 | 5469.5 | 5833.3 | 5002.8 |
| 35° | 4932.0 | 4962.9 | 4979.6 | 4977.0 | 4926.9 | 4808.6 | 4890.9 | 5020.8 | 5531.2 | 5986.3 | 5055.5 |
| 37.5° | 5109.5 | 5135.2 | 5207.2 | 5253.5 | 5207.2 | 5069.6 | 5108.2 | 5198.2 | 5667.5 | 6207.5 | 5171.2 |
| 40° | 5281.8 | 5320.3 | 5425.8 | 5569.8 | 5551.8 | 5430.9 | 5439.9 | 5499.1 | 5907.9 | 6536.6 | 5397.5 |
| 42.5° | 5461.8 | 5508.1 | 5691.9 | 5905.3 | 5947.8 | 5853.9 | 5878.3 | 5931.1 | 6249.9 | 6993.1 | 5785.8 |
| 45° | 5693.2 | 5748.5 | 5974.8 | 6240.9 | 6408.1 | 6350.2 | 6419.6 | 6445.3 | 6707.6 | 7587.1 | 6297.5 |
| 47.5° | 5991.5 | 6055.8 | 6334.8 | 6666.5 | 6903.1 | 6955.8 | 7076.6 | 7061.2 | 7274.6 | 8290.4 | 6960.9 |
| 50° | 6494.2 | 6530.2 | 6793.8 | 7131.9 | 7457.2 | 7695.1 | 7826.2 | 7850.6 | 7977.9 | 8974.4 | 7702.8 |
| 52.5° | 7092.1 | 7124.2 | 7314.5 | 7610.2 | 8017.8 | 8521.8 | 8845.8 | 8766.1 | 8796.9 | 9807.5 | 8570.7 |
| 55° | 7764.5 | 7818.5 | 7939.4 | 8136.1 | 8664.5 | 9406.4 | 10057.0 | 10076.2 | 9734.2 | 10604.7 | 9402.5 |
| 57.5° | 8285.2 | 8376.5 | 8583.5 | 8863.8 | 9533.7 | 10390.0 | 11264.3 | 11277.1 | 10840.0 | 11455.8 | 10320.5 |
| 60° | 8022.9 | 8130.9 | 8604.1 | 9286.8 | 10674.1 | 12106.4 | 12706.8 | 12633.6 | 11916.1 | 12425.3 | 11440.4 |
| 62.5° | 6891.5 | 6910.8 | 7598.6 | 8665.8 | 11025.1 | 14402.7 | 14854.0 | 14544.1 | 13352.3 | 13654.4 | 12578.3 |
| 65° | 4460.2 | 4586.2 | 5131.3 | 6626.6 | 9871.8 | 15676.9 | 18616.0 | 17899.9 | 15365.7 | 15049.4 | 13531.0 |
| 67.5° | 2815.7 | 2783.6 | 3009.9 | 3783.9 | 6789.9 | 14554.4 | 21826.5 | 21713.4 | 17998.9 | 15930.2 | 13303.4 |
| 69° | 2334.9 | 2370.9 | 2448.0 | 2900.6 | 4672.3 | 12426.5 | 22205.8 | 22987.5 | 19275.6 | 15860.7 | 12476.7 |
| 70° | 2117.6 | 2134.3 | 2215.3 | 2571.5 | 3605.2 | 10408.0 | 21583.5 | 22952.8 | 19777.0 | 15570.2 | 11877.5 |
| 72.5° | 1680.4 | 1679.2 | 1818.0 | 2139.4 | 2694.9 | 5941.3 | 17722.5 | 19927.5 | 19216.5 | 14217.6 | 9814.0 |
| 75° | 1276.7 | 1297.3 | 1450.3 | 1810.3 | 2482.7 | 3246.5 | 12367.4 | 15346.4 | 15347.7 | 11229.5 | 6123.9 |
| 77.5° | 920.6 | 933.4 | 1112.2 | 1519.7 | 2338.7 | 2631.9 | 8237.7 | 11007.1 | 10347.5 | 5145.5 | 1924.7 |
| 80° | 603.0 | 610.7 | 747.0 | 1203.4 | 2108.6 | 2482.7 | 4884.5 | 6737.2 | 4880.6 | 1365.4 | 636.4 |
| 82.5° | 330.4 | 369.0 | 456.4 | 779.2 | 1692.0 | 2293.7 | 2968.7 | 3409.7 | 1830.9 | 608.1 | 331.7 |
| 85° | 165.9 | 176.1 | 257.1 | 455.1 | 1105.7 | 1897.7 | 2067.4 | 1955.6 | 945.0 | 302.1 | 172.3 |
| 87.5° | 48.9 | 61.7 | 106.7 | 176.1 | 448.7 | 988.7 | 1150.7 | 1032.4 | 363.9 | 109.3 | 36.0 |
| 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° | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 | 6370.8 |
| 2.5° | 6318.1 | 6294.9 | 6192.1 | 6099.5 | 6014.6 | 5924.6 | 5848.8 | 5781.9 | 5788.3 | 5789.6 | 5721.5 |
| 5° | 6174.1 | 6121.3 | 5925.9 | 5743.3 | 5589.1 | 5393.6 | 5226.5 | 5118.5 | 5064.5 | 4992.5 | 5018.2 |
| 7.5° | 5978.6 | 5877.1 | 5605.8 | 5302.3 | 5018.2 | 4764.9 | 4489.8 | 4300.8 | 4179.9 | 4062.9 | 4078.3 |
| 10° | 5776.8 | 5613.5 | 5218.8 | 4817.6 | 4449.9 | 4044.9 | 3693.9 | 3393.0 | 3169.3 | 3085.7 | 3030.5 |
| 12.5° | 5569.8 | 5355.1 | 4853.6 | 4320.0 | 3812.2 | 3327.5 | 2829.9 | 2507.2 | 2260.3 | 2129.2 | 2145.9 |
| 15° | 5380.8 | 5119.8 | 4473.0 | 3822.5 | 3162.9 | 2585.6 | 2089.3 | 1782.0 | 1609.7 | 1573.7 | 1594.3 |
| 17.5° | 5205.9 | 4863.9 | 4116.9 | 3339.0 | 2568.9 | 1938.9 | 1569.9 | 1396.3 | 1326.9 | 1307.6 | 1306.3 |
| 20° | 5025.9 | 4646.6 | 3717.0 | 2822.2 | 2001.9 | 1503.0 | 1288.3 | 1207.3 | 1194.4 | 1202.2 | 1203.4 |
| 22.5° | 4843.3 | 4377.9 | 3305.6 | 2309.2 | 1594.3 | 1229.2 | 1126.3 | 1104.4 | 1114.7 | 1132.7 | 1135.3 |
| 25° | 4674.9 | 4141.3 | 2909.6 | 1859.2 | 1272.9 | 1080.0 | 1029.9 | 1029.9 | 1053.0 | 1080.0 | 1081.3 |
| 27.5° | 4536.0 | 3912.5 | 2514.9 | 1476.0 | 1065.9 | 972.0 | 955.3 | 964.3 | 996.4 | 1017.0 | 1018.3 |
| 30° | 4421.6 | 3699.0 | 2142.0 | 1182.9 | 937.3 | 885.9 | 882.0 | 897.4 | 920.6 | 939.9 | 941.2 |
| 32.5° | 4335.5 | 3511.3 | 1793.6 | 993.9 | 848.6 | 820.3 | 819.0 | 830.6 | 843.4 | 848.6 | 853.7 |
| 35° | 4302.0 | 3355.7 | 1474.7 | 874.3 | 789.4 | 771.4 | 771.4 | 770.2 | 775.3 | 777.9 | 780.4 |
| 37.5° | 4329.0 | 3236.2 | 1227.9 | 797.2 | 745.7 | 732.9 | 725.1 | 717.4 | 714.9 | 714.9 | 716.1 |
| 40° | 4443.5 | 3173.2 | 1044.0 | 747.0 | 714.9 | 695.6 | 681.4 | 672.4 | 663.4 | 666.0 | 668.6 |
| 42.5° | 4686.5 | 3184.7 | 919.3 | 713.6 | 687.9 | 660.9 | 640.3 | 630.0 | 623.6 | 631.3 | 630.0 |
| 45° | 5073.5 | 3300.5 | 839.6 | 690.4 | 660.9 | 626.1 | 606.9 | 596.6 | 596.6 | 608.1 | 612.0 |
| 47.5° | 5614.8 | 3521.6 | 797.2 | 672.4 | 640.3 | 599.1 | 579.9 | 572.1 | 574.7 | 594.0 | 595.3 |
| 50° | 6275.6 | 3906.0 | 789.4 | 663.4 | 630.0 | 579.9 | 558.0 | 550.3 | 556.7 | 577.3 | 579.9 |
| 52.5° | 7004.6 | 4401.0 | 826.7 | 664.7 | 621.0 | 568.3 | 540.0 | 528.4 | 534.9 | 551.6 | 556.7 |
| 55° | 7868.6 | 5020.8 | 923.2 | 669.9 | 608.1 | 561.9 | 527.1 | 501.4 | 509.1 | 520.7 | 522.0 |
| 57.5° | 8750.7 | 5802.5 | 1092.9 | 671.1 | 597.9 | 550.3 | 505.3 | 471.9 | 471.9 | 479.6 | 483.4 |
| 60° | 9828.1 | 6653.6 | 1316.6 | 672.4 | 599.1 | 533.6 | 475.7 | 438.4 | 433.3 | 437.1 | 438.4 |
| 62.5° | 10897.8 | 7365.9 | 1353.9 | 668.6 | 612.0 | 516.9 | 443.6 | 405.0 | 396.0 | 394.7 | 392.1 |
| 65° | 11369.7 | 7233.5 | 1109.6 | 650.6 | 626.1 | 506.6 | 417.9 | 372.9 | 357.4 | 352.3 | 352.3 |
| 67.5° | 10600.8 | 6118.8 | 834.4 | 626.1 | 617.1 | 496.3 | 393.4 | 345.9 | 327.9 | 317.6 | 317.6 |
| 69° | 9878.2 | 5442.5 | 749.6 | 609.4 | 594.0 | 479.6 | 378.0 | 331.7 | 309.9 | 298.3 | 294.4 |
| 70° | 9320.2 | 4977.0 | 713.6 | 595.3 | 572.1 | 460.3 | 366.4 | 321.4 | 297.0 | 284.1 | 281.6 |
| 72.5° | 7437.9 | 3904.8 | 624.9 | 541.3 | 487.3 | 387.0 | 325.3 | 289.3 | 266.1 | 252.0 | 248.1 |
| 75° | 4286.6 | 2116.3 | 518.1 | 470.6 | 392.1 | 300.9 | 275.1 | 252.0 | 234.0 | 221.1 | 217.3 |
| 77.5° | 1319.2 | 817.7 | 375.4 | 371.6 | 288.0 | 232.7 | 219.9 | 210.9 | 198.0 | 183.9 | 181.3 |
| 80° | 555.4 | 416.6 | 254.6 | 250.7 | 191.6 | 162.0 | 158.1 | 156.9 | 151.7 | 140.1 | 136.3 |
| 82.5° | 304.7 | 235.3 | 177.4 | 154.3 | 115.7 | 93.9 | 97.7 | 99.0 | 95.1 | 83.6 | 75.9 |
| 85° | 149.1 | 128.6 | 86.1 | 69.4 | 52.7 | 33.4 | 32.1 | 38.6 | 36.0 | 25.7 | 28.3 |
| 87.5° | 29.6 | 36.0 | 23.1 | 10.3 | 5.1 | 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)