

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: P323537

Luminaire Tested: **GAN-SA3D-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20238 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

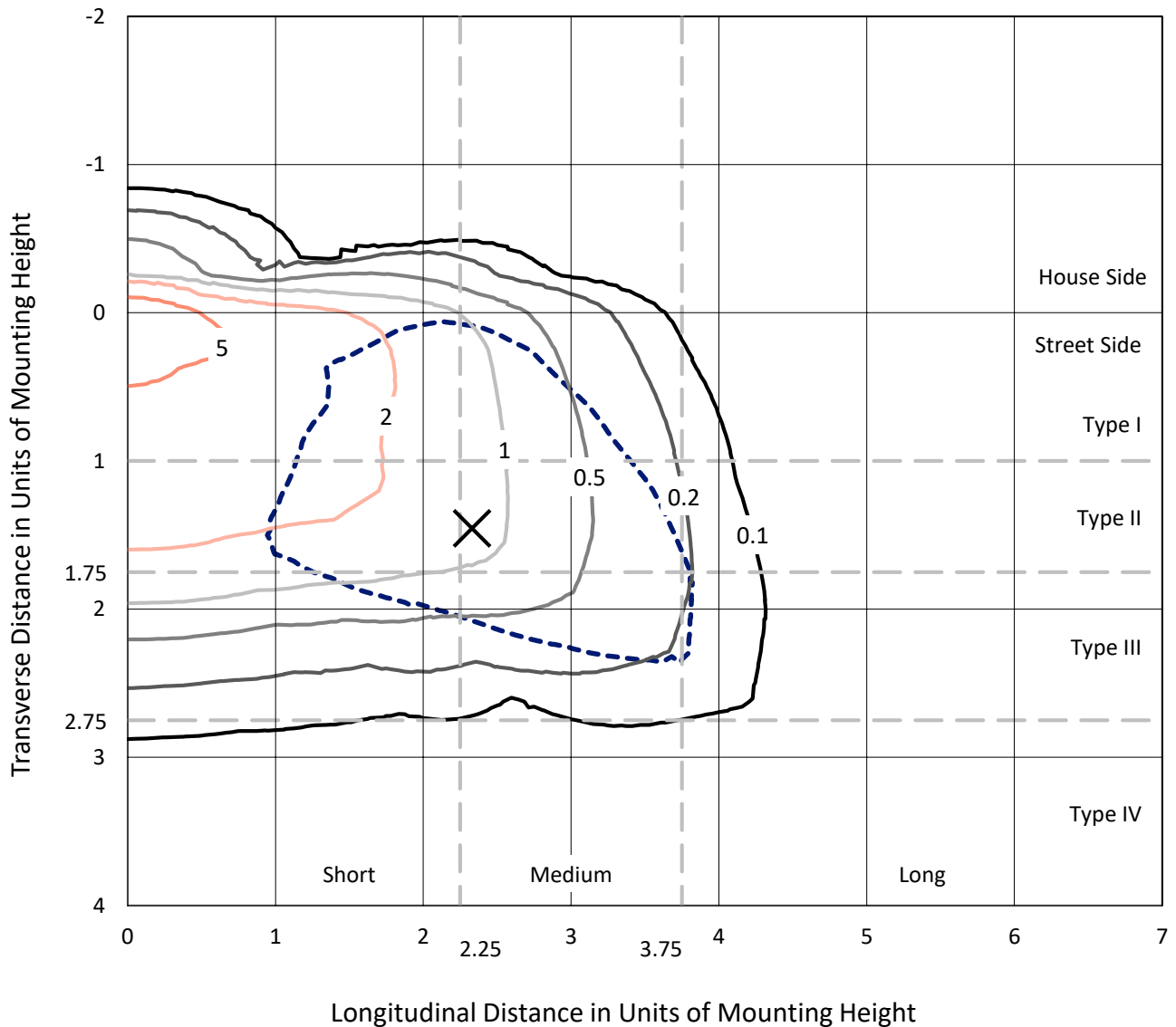
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

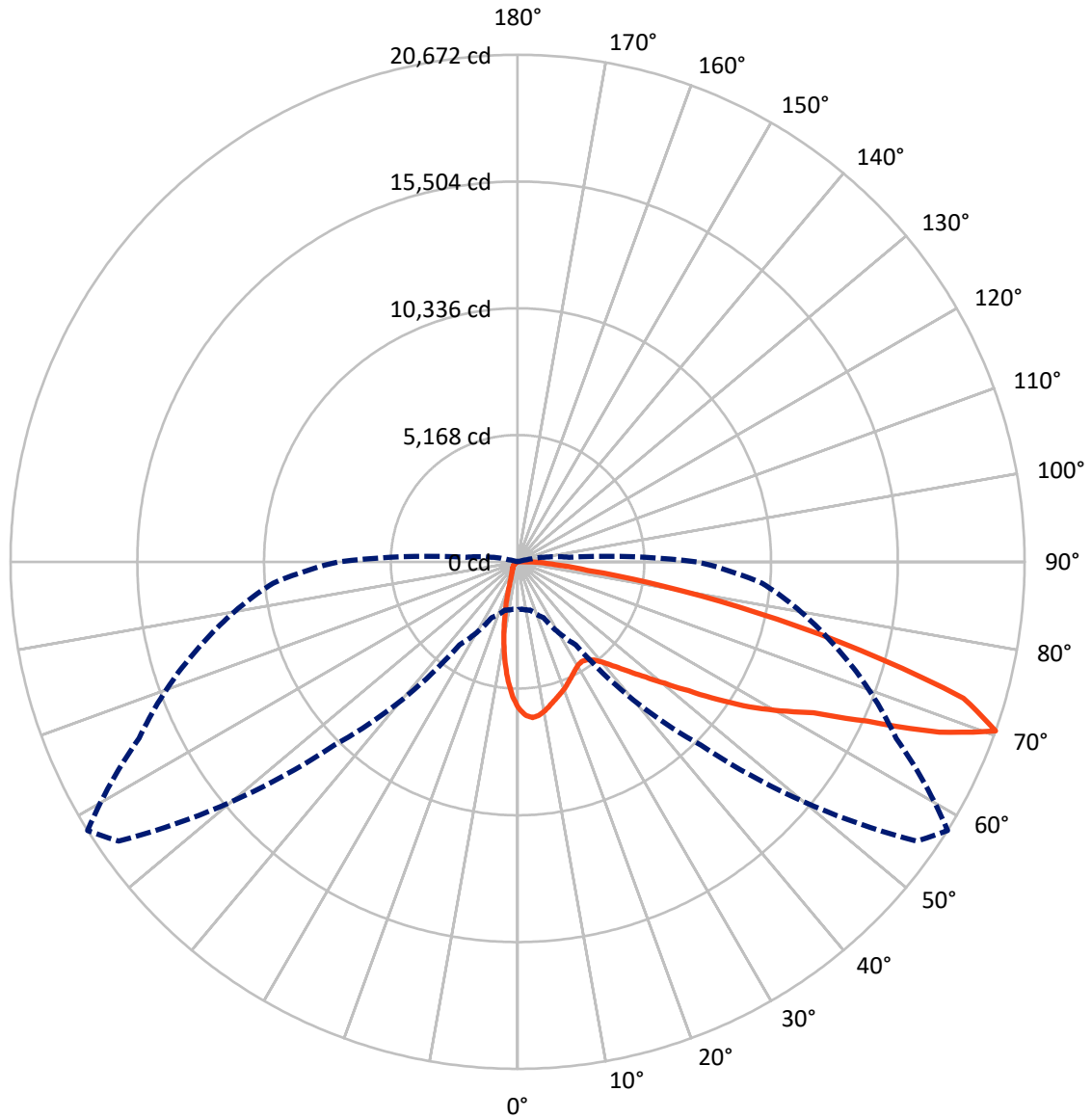
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1731.9 | 0.0 | 1731.9 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 18506.1 | 0.0 | 18506.1 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 20238.0 | 0.0 | 20238.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 488.9 | 2.4 |
| 10°-20° | 1026.0 | 5.1 |
| 20°-30° | 1348.9 | 6.7 |
| 30°-40° | 1786.4 | 8.8 |
| 40°-50° | 2670.1 | 13.2 |
| 50°-60° | 4277.4 | 21.1 |
| 60°-70° | 5391.7 | 26.6 |
| 70°-80° | 2908.2 | 14.4 |
| 80°-90° | 340.4 | 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° | 20238.0 | 100.0 |
| 0°-180° | 20238.0 | 100.0 |

Coefficient of Utilization

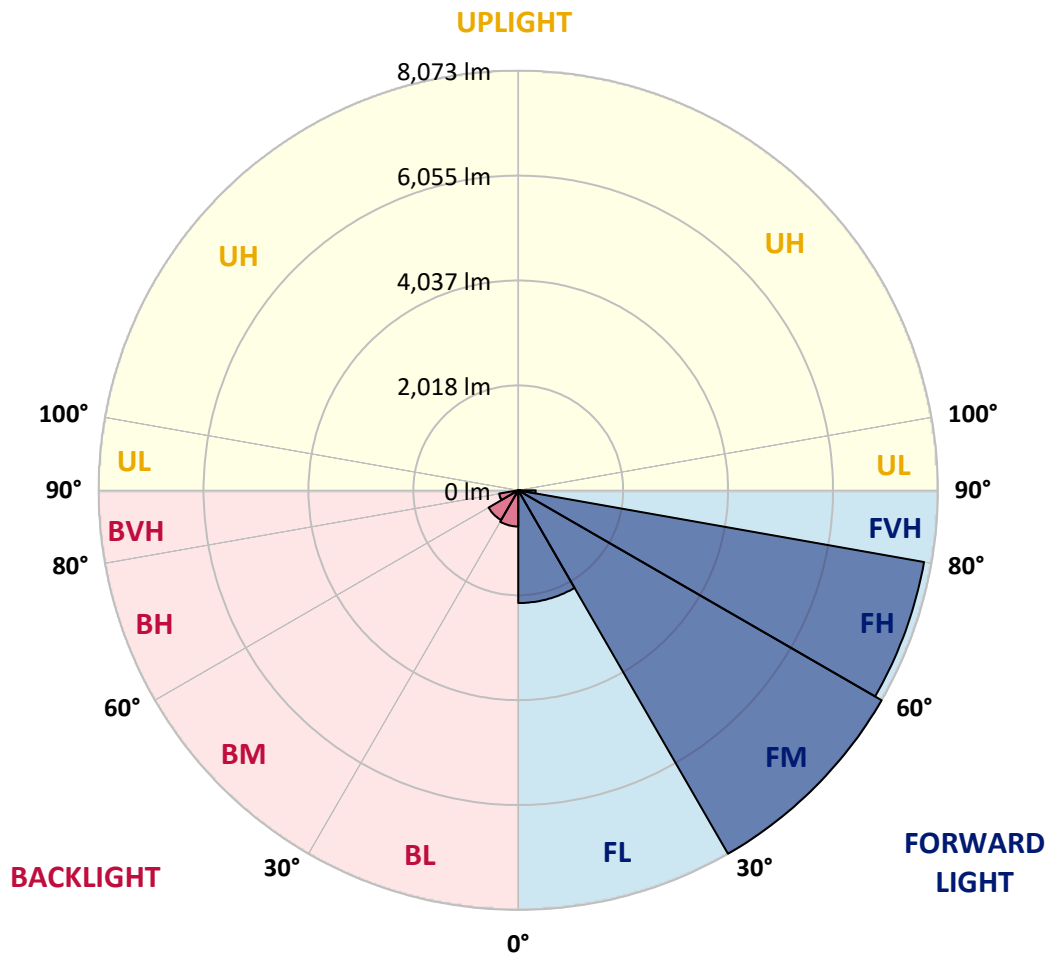


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2167.9 | 10.7 | | | |
| FM (30°-60°) | 8073.3 | 39.9 | | | |
| FH (60°-80°) | 7927.4 | 39.2 | | | G4/12000 |
| FVH (80°-90°) | 337.5 | 1.7 | | | G3/500 |
| BL (0°-30°) | 695.8 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 660.7 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 372.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 |
| 2.5° | 6473.9 | 6457.9 | 6452.0 | 6441.9 | 6403.2 | 6365.3 | 6290.4 | 6269.4 | 6222.3 | 6110.3 | 5991.7 |
| 5° | 6478.9 | 6478.1 | 6495.7 | 6491.5 | 6478.1 | 6460.4 | 6406.5 | 6378.8 | 6298.8 | 6138.9 | 5921.8 |
| 7.5° | 6166.7 | 6182.7 | 6222.3 | 6254.2 | 6291.3 | 6339.2 | 6346.0 | 6319.0 | 6253.4 | 6080.9 | 5793.1 |
| 10° | 5747.6 | 5772.9 | 5828.4 | 5891.5 | 5988.3 | 6084.2 | 6170.1 | 6166.7 | 6144.0 | 5974.0 | 5638.2 |
| 12.5° | 5327.7 | 5357.2 | 5421.1 | 5514.5 | 5651.7 | 5808.2 | 5961.4 | 5982.4 | 6020.3 | 5878.1 | 5495.2 |
| 15° | 4960.0 | 4985.2 | 5048.3 | 5162.8 | 5332.8 | 5543.1 | 5767.8 | 5806.5 | 5904.2 | 5803.2 | 5375.7 |
| 17.5° | 4647.8 | 4663.7 | 4710.0 | 4837.1 | 5034.0 | 5289.0 | 5581.0 | 5656.7 | 5802.3 | 5744.3 | 5272.2 |
| 20° | 4429.8 | 4432.3 | 4462.6 | 4551.8 | 4748.7 | 5034.0 | 5387.5 | 5496.0 | 5694.6 | 5693.8 | 5165.3 |
| 22.5° | 4322.1 | 4313.7 | 4319.6 | 4370.9 | 4515.6 | 4790.8 | 5193.9 | 5322.7 | 5597.8 | 5650.9 | 5056.7 |
| 25° | 4301.9 | 4295.2 | 4278.3 | 4285.1 | 4372.6 | 4577.9 | 4998.7 | 5147.6 | 5512.8 | 5624.8 | 4962.5 |
| 27.5° | 4365.0 | 4371.7 | 4343.1 | 4312.8 | 4319.6 | 4439.9 | 4825.3 | 4997.8 | 5443.8 | 5624.8 | 4896.0 |
| 30° | 4492.1 | 4495.4 | 4474.4 | 4434.8 | 4381.8 | 4401.2 | 4705.0 | 4877.5 | 5409.3 | 5663.5 | 4853.9 |
| 32.5° | 4632.6 | 4651.1 | 4648.6 | 4616.6 | 4540.9 | 4462.6 | 4676.4 | 4833.7 | 5406.8 | 5749.3 | 4849.7 |
| 35° | 4806.8 | 4827.8 | 4863.2 | 4856.5 | 4777.4 | 4648.6 | 4774.0 | 4897.7 | 5456.5 | 5890.7 | 4895.2 |
| 37.5° | 4991.9 | 5023.9 | 5099.7 | 5135.8 | 5084.5 | 4938.9 | 4992.8 | 5081.1 | 5589.4 | 6119.6 | 5010.5 |
| 40° | 5171.2 | 5207.4 | 5345.4 | 5487.6 | 5448.9 | 5299.1 | 5324.3 | 5395.0 | 5825.9 | 6448.6 | 5229.3 |
| 42.5° | 5347.1 | 5400.9 | 5603.7 | 5837.7 | 5884.0 | 5764.5 | 5777.9 | 5834.3 | 6176.8 | 6901.4 | 5586.9 |
| 45° | 5557.4 | 5618.0 | 5918.5 | 6207.1 | 6330.8 | 6278.6 | 6335.9 | 6372.9 | 6635.4 | 7499.7 | 6069.1 |
| 47.5° | 5866.3 | 5936.1 | 6304.7 | 6633.8 | 6850.9 | 6884.5 | 6999.8 | 7024.2 | 7215.3 | 8196.5 | 6697.7 |
| 50° | 6468.8 | 6488.2 | 6821.4 | 7120.2 | 7433.2 | 7635.2 | 7766.5 | 7785.0 | 7917.1 | 8958.1 | 7482.9 |
| 52.5° | 7227.0 | 7239.7 | 7428.2 | 7628.4 | 7984.4 | 8396.8 | 8703.9 | 8730.0 | 8757.8 | 9700.3 | 8257.9 |
| 55° | 7980.2 | 7978.5 | 8103.1 | 8220.9 | 8628.2 | 9227.3 | 9893.8 | 9909.8 | 9710.4 | 10404.6 | 8850.3 |
| 57.5° | 8450.6 | 8496.1 | 8685.4 | 8836.9 | 9405.7 | 10174.1 | 11098.9 | 11157.8 | 10711.0 | 10926.4 | 9436.0 |
| 60° | 8300.8 | 8322.7 | 8742.6 | 9303.1 | 10374.3 | 11519.7 | 12318.3 | 12333.4 | 11463.3 | 11447.3 | 10176.6 |
| 62.5° | 7072.2 | 7084.0 | 7743.7 | 8899.2 | 10865.0 | 13265.0 | 13789.3 | 13542.7 | 12328.4 | 12170.2 | 11062.7 |
| 65° | 4847.2 | 4923.8 | 5475.0 | 6903.0 | 9963.7 | 14359.8 | 16066.4 | 15658.3 | 13647.0 | 13212.0 | 11863.9 |
| 67.5° | 2854.5 | 2838.5 | 3111.1 | 4163.0 | 7317.9 | 13632.7 | 18947.0 | 18541.4 | 15445.4 | 13909.6 | 11629.1 |
| 70° | 1949.8 | 1938.9 | 2043.2 | 2520.4 | 4131.1 | 10575.5 | 19853.3 | 20672.1 | 17033.4 | 13440.0 | 10008.3 |
| 72.5° | 1391.9 | 1397.8 | 1551.8 | 1958.2 | 2593.6 | 6161.7 | 17072.9 | 19010.9 | 16536.0 | 11716.6 | 7607.4 |
| 75° | 945.0 | 961.0 | 1181.5 | 1606.5 | 2273.8 | 3134.7 | 12115.5 | 14451.5 | 13465.3 | 8515.4 | 4372.6 |
| 77.5° | 508.3 | 526.0 | 786.0 | 1294.3 | 2055.9 | 2177.9 | 7793.4 | 9946.0 | 8458.2 | 3828.1 | 1267.3 |
| 80° | 212.1 | 222.2 | 367.7 | 940.8 | 1776.5 | 1912.8 | 4585.5 | 6031.2 | 3604.3 | 754.8 | 282.8 |
| 82.5° | 91.7 | 96.8 | 153.2 | 561.3 | 1327.9 | 1614.9 | 2427.8 | 2901.6 | 1092.3 | 165.8 | 142.2 |
| 85° | 17.7 | 18.5 | 63.1 | 297.1 | 847.4 | 911.4 | 1573.7 | 1542.5 | 490.6 | 71.5 | 103.5 |
| 87.5° | 0.0 | 0.0 | 15.1 | 93.4 | 249.1 | 496.5 | 960.2 | 948.4 | 166.6 | 34.5 | 38.7 |
| 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° | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 | 5978.2 |
| 2.5° | 5931.1 | 5873.0 | 5751.0 | 5600.4 | 5485.1 | 5358.0 | 5257.0 | 5129.1 | 5073.6 | 5076.1 | 5045.8 |
| 5° | 5798.1 | 5678.6 | 5408.5 | 5067.7 | 4805.1 | 4534.1 | 4301.0 | 4068.8 | 3931.6 | 3887.0 | 3844.9 |
| 7.5° | 5607.9 | 5418.6 | 4987.7 | 4462.6 | 4018.3 | 3584.1 | 3206.2 | 2873.8 | 2663.4 | 2560.8 | 2522.9 |
| 10° | 5393.3 | 5127.4 | 4503.9 | 3812.1 | 3177.6 | 2590.2 | 2100.5 | 1674.6 | 1504.7 | 1389.4 | 1359.9 |
| 12.5° | 5204.8 | 4844.7 | 4030.9 | 3144.8 | 2391.6 | 1683.1 | 1216.0 | 950.9 | 835.6 | 790.2 | 782.6 |
| 15° | 5027.3 | 4580.4 | 3575.6 | 2540.6 | 1656.1 | 1035.9 | 773.4 | 683.3 | 656.4 | 648.8 | 648.8 |
| 17.5° | 4859.8 | 4328.8 | 3130.5 | 1945.6 | 1095.7 | 726.2 | 640.4 | 620.2 | 611.8 | 610.9 | 611.8 |
| 20° | 4684.8 | 4077.2 | 2692.9 | 1425.5 | 764.9 | 615.2 | 591.6 | 580.7 | 578.1 | 578.1 | 578.1 |
| 22.5° | 4517.3 | 3825.6 | 2267.1 | 1018.2 | 613.5 | 561.3 | 549.5 | 541.9 | 539.4 | 538.6 | 536.9 |
| 25° | 4356.6 | 3586.6 | 1851.4 | 719.5 | 538.6 | 514.2 | 504.1 | 494.0 | 486.4 | 482.2 | 479.7 |
| 27.5° | 4224.5 | 3373.7 | 1464.3 | 577.3 | 486.4 | 465.4 | 452.7 | 437.6 | 419.1 | 410.7 | 407.3 |
| 30° | 4119.3 | 3179.3 | 1128.5 | 487.2 | 437.6 | 416.6 | 397.2 | 371.1 | 344.2 | 329.9 | 329.0 |
| 32.5° | 4036.8 | 2988.3 | 856.7 | 430.9 | 393.8 | 367.7 | 340.0 | 307.2 | 276.0 | 260.0 | 259.2 |
| 35° | 3996.4 | 2820.0 | 654.7 | 389.6 | 355.1 | 322.3 | 287.8 | 251.6 | 221.3 | 206.2 | 204.5 |
| 37.5° | 4023.3 | 2677.7 | 510.8 | 355.1 | 322.3 | 284.4 | 244.0 | 206.2 | 179.2 | 165.8 | 164.9 |
| 40° | 4121.8 | 2586.9 | 414.9 | 325.7 | 294.5 | 248.3 | 204.5 | 169.1 | 146.4 | 135.5 | 134.6 |
| 42.5° | 4331.3 | 2553.2 | 354.3 | 301.3 | 267.6 | 214.6 | 170.0 | 139.7 | 118.7 | 111.1 | 109.4 |
| 45° | 4681.4 | 2602.8 | 313.0 | 277.7 | 239.8 | 182.6 | 140.5 | 114.4 | 95.9 | 90.0 | 89.2 |
| 47.5° | 5147.6 | 2733.3 | 283.6 | 255.0 | 214.6 | 154.0 | 117.0 | 92.6 | 78.3 | 72.4 | 71.5 |
| 50° | 5748.5 | 2940.3 | 259.2 | 232.3 | 191.0 | 130.4 | 96.8 | 73.2 | 60.6 | 56.4 | 56.4 |
| 52.5° | 6402.3 | 3186.9 | 237.3 | 211.2 | 167.5 | 108.6 | 78.3 | 56.4 | 48.0 | 42.9 | 42.9 |
| 55° | 6942.6 | 3402.3 | 213.7 | 195.2 | 138.9 | 90.0 | 59.7 | 42.9 | 35.3 | 32.8 | 32.8 |
| 57.5° | 7482.0 | 3632.0 | 186.8 | 167.5 | 111.1 | 73.2 | 45.4 | 32.0 | 26.1 | 24.4 | 24.4 |
| 60° | 8181.3 | 3913.1 | 160.7 | 136.3 | 87.5 | 55.5 | 33.7 | 22.7 | 19.4 | 18.5 | 18.5 |
| 62.5° | 8950.5 | 4078.0 | 137.2 | 109.4 | 68.2 | 41.2 | 24.4 | 15.1 | 14.3 | 14.3 | 13.5 |
| 65° | 9420.9 | 3844.9 | 115.3 | 87.5 | 53.0 | 31.1 | 16.0 | 10.9 | 12.6 | 11.8 | 10.1 |
| 67.5° | 8820.9 | 3010.1 | 94.3 | 68.2 | 41.2 | 23.6 | 10.1 | 7.6 | 13.5 | 10.9 | 8.4 |
| 70° | 7303.6 | 2107.2 | 73.2 | 48.0 | 32.8 | 20.2 | 6.7 | 5.0 | 14.3 | 10.9 | 6.7 |
| 72.5° | 5465.7 | 1410.4 | 58.1 | 32.0 | 24.4 | 17.7 | 5.9 | 2.5 | 12.6 | 9.3 | 5.9 |
| 75° | 2986.6 | 568.0 | 46.3 | 20.2 | 15.1 | 12.6 | 4.2 | 1.7 | 8.4 | 6.7 | 4.2 |
| 77.5° | 786.0 | 149.8 | 33.7 | 13.5 | 8.4 | 5.0 | 2.5 | 0.8 | 4.2 | 3.4 | 1.7 |
| 80° | 200.3 | 58.1 | 21.9 | 9.3 | 5.9 | 2.5 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| 82.5° | 106.9 | 24.4 | 13.5 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 80.8 | 16.0 | 7.6 | 4.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 31.1 | 5.0 | 2.5 | 0.0 | 0.0 | 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)