

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: P268757

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 28608.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

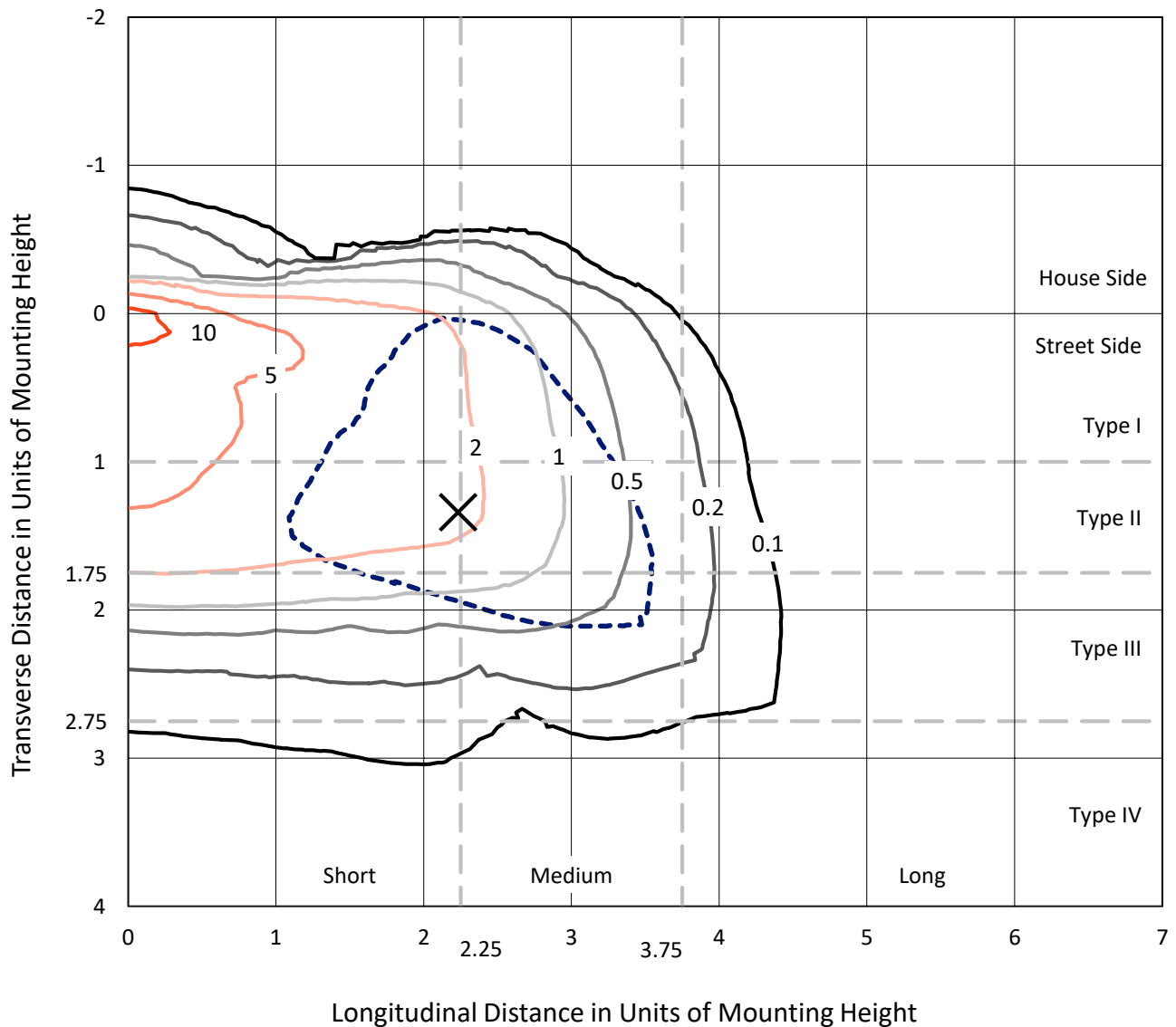


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

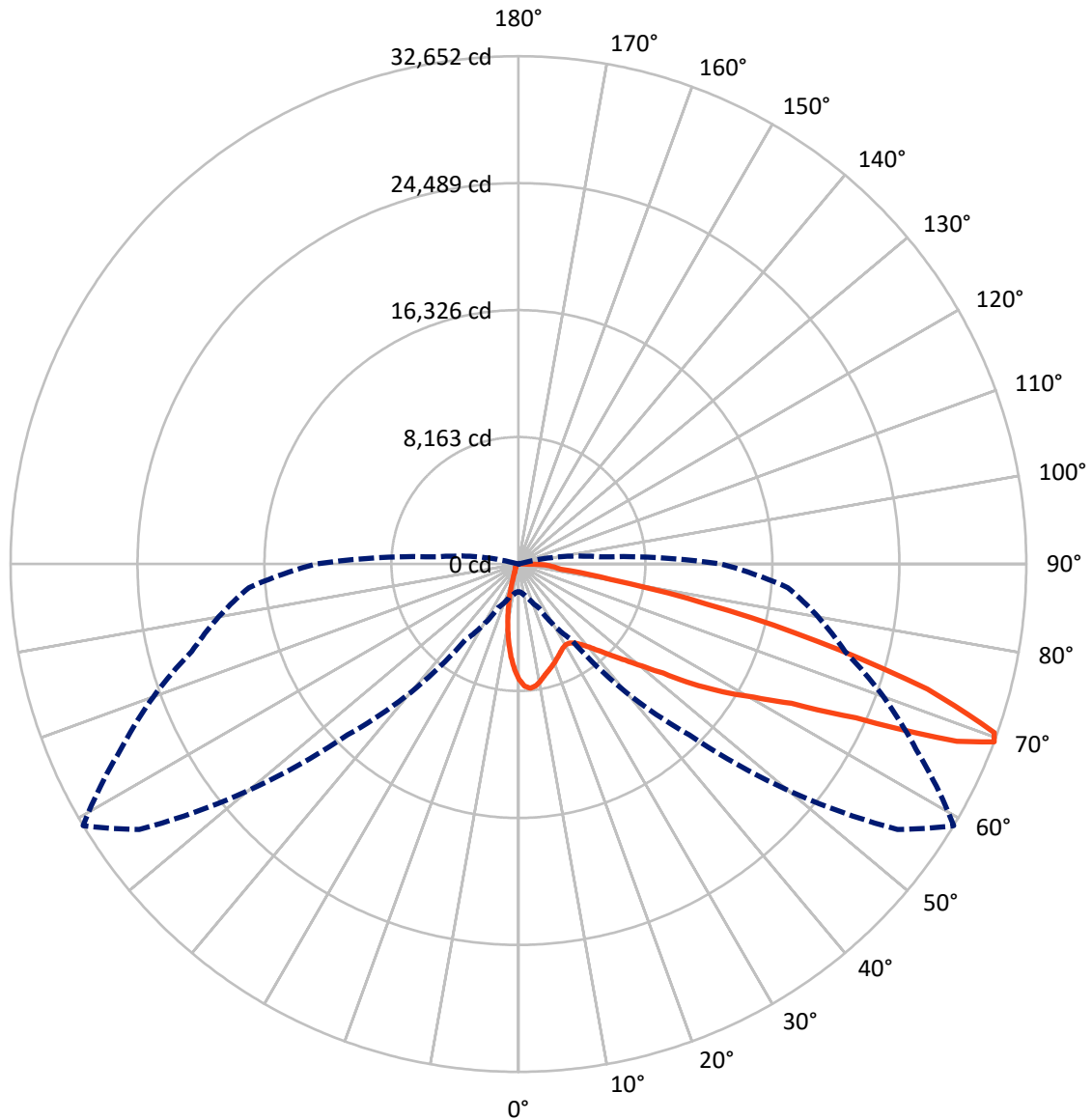


Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2329.8 | 0.0 | 2329.8 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 26278.5 | 0.0 | 26278.5 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 28608.2 | 0.0 | 28608.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 604.4 | 2.1 |
| 10°-20° | 1248.9 | 4.4 |
| 20°-30° | 1680.6 | 5.9 |
| 30°-40° | 2440.1 | 8.5 |
| 40°-50° | 4062.9 | 14.2 |
| 50°-60° | 6338.0 | 22.2 |
| 60°-70° | 7842.8 | 27.4 |
| 70°-80° | 3974.7 | 13.9 |
| 80°-90° | 415.9 | 1.5 |
| 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° | 28608.2 | 100.0 |
| 0°-180° | 28608.2 | 100.0 |



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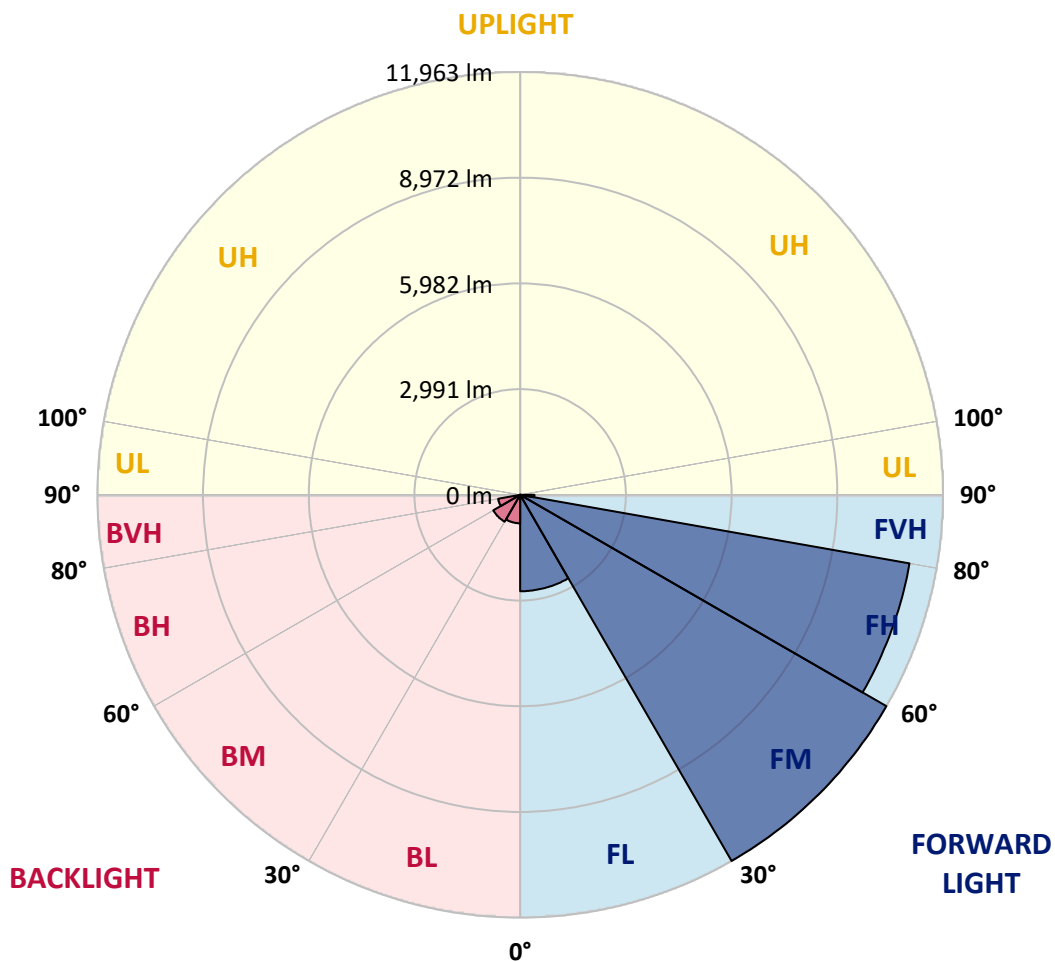
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2727.5 | 9.5 | | | |
| FM (30°-60°) | 11963.1 | 41.8 | | | |
| FH (60°-80°) | 11184.8 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 403.1 | 1.4 | | | G3/500 |
| BL (0°-30°) | 806.4 | 2.8 | B2/1000 | | |
| BM (30°-60°) | 877.8 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 632.7 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 12.8 | 0.0 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 |
| 2.5° | 8161.3 | 8158.0 | 8122.6 | 8106.3 | 8077.2 | 8015.8 | 7920.4 | 7870.2 | 7789.3 | 7648.6 | 7459.3 |
| 5° | 8086.9 | 8125.8 | 8146.8 | 8148.4 | 8169.5 | 8146.8 | 8061.1 | 8019.0 | 7907.4 | 7680.9 | 7341.2 |
| 7.5° | 7582.2 | 7596.7 | 7656.7 | 7708.4 | 7808.6 | 7904.1 | 7934.9 | 7917.1 | 7850.7 | 7608.0 | 7156.7 |
| 10° | 7042.0 | 7056.5 | 7127.6 | 7195.6 | 7331.4 | 7478.7 | 7633.9 | 7666.3 | 7693.9 | 7504.6 | 6978.8 |
| 12.5° | 6576.0 | 6590.5 | 6663.4 | 6752.3 | 6910.9 | 7092.1 | 7333.0 | 7386.5 | 7507.9 | 7405.8 | 6836.5 |
| 15° | 6174.8 | 6181.2 | 6252.5 | 6362.4 | 6551.7 | 6784.7 | 7058.1 | 7143.9 | 7329.8 | 7336.3 | 6711.9 |
| 17.5° | 5833.5 | 5849.7 | 5893.3 | 5998.5 | 6205.5 | 6493.5 | 6812.1 | 6935.2 | 7153.6 | 7278.1 | 6590.5 |
| 20° | 5624.7 | 5640.9 | 5639.3 | 5697.6 | 5883.5 | 6190.9 | 6566.3 | 6713.6 | 6978.8 | 7218.2 | 6482.2 |
| 22.5° | 5584.4 | 5584.4 | 5542.3 | 5534.2 | 5644.2 | 5901.4 | 6310.8 | 6490.3 | 6821.9 | 7192.3 | 6406.2 |
| 25° | 5728.3 | 5721.8 | 5616.7 | 5531.0 | 5535.9 | 5689.4 | 6063.2 | 6276.6 | 6689.1 | 7210.2 | 6365.7 |
| 27.5° | 6032.5 | 6024.4 | 5891.8 | 5728.3 | 5597.2 | 5595.6 | 5875.5 | 6105.2 | 6584.0 | 7294.2 | 6381.9 |
| 30° | 6453.1 | 6449.8 | 6305.8 | 6100.4 | 5862.6 | 5644.2 | 5810.9 | 6019.5 | 6516.1 | 7446.3 | 6419.1 |
| 32.5° | 6912.5 | 6907.6 | 6799.2 | 6582.5 | 6281.6 | 5862.6 | 5878.8 | 6053.5 | 6535.6 | 7648.6 | 6509.7 |
| 35° | 7399.3 | 7391.3 | 7344.5 | 7155.1 | 6823.5 | 6265.4 | 6101.9 | 6237.9 | 6658.4 | 7951.1 | 6687.6 |
| 37.5° | 7926.7 | 7934.9 | 7968.9 | 7787.6 | 7439.9 | 6830.0 | 6475.7 | 6567.9 | 6906.0 | 8362.0 | 6977.1 |
| 40° | 8704.8 | 8703.3 | 8714.5 | 8476.8 | 8142.0 | 7520.7 | 6998.2 | 7027.4 | 7320.2 | 8907.1 | 7417.2 |
| 42.5° | 10117.3 | 10018.4 | 9719.2 | 9233.9 | 8897.4 | 8310.2 | 7656.7 | 7625.9 | 7826.6 | 9581.7 | 8033.5 |
| 45° | 12014.7 | 11804.4 | 11028.0 | 10097.8 | 9667.4 | 9199.9 | 8467.2 | 8368.4 | 8496.2 | 10392.2 | 8793.9 |
| 47.5° | 13647.1 | 13428.7 | 12330.1 | 10997.2 | 10484.4 | 10044.4 | 9416.8 | 9238.8 | 9280.7 | 11299.7 | 9758.0 |
| 50° | 14201.8 | 14095.1 | 13135.8 | 11780.2 | 11275.4 | 11107.3 | 10518.3 | 10301.7 | 10241.8 | 12349.5 | 10875.9 |
| 52.5° | 14009.3 | 14001.3 | 13362.3 | 12288.2 | 12000.2 | 12207.2 | 11904.8 | 11654.0 | 11433.9 | 13456.2 | 12013.2 |
| 55° | 13700.4 | 13740.8 | 13454.5 | 12733.0 | 12723.4 | 13211.8 | 13800.8 | 13592.1 | 12954.6 | 14658.1 | 12993.4 |
| 57.5° | 12847.9 | 13020.9 | 13402.7 | 13574.2 | 13972.1 | 14472.1 | 15379.6 | 15502.5 | 14748.7 | 15578.5 | 13807.2 |
| 60° | 10424.6 | 10804.8 | 12053.5 | 13695.5 | 15581.8 | 16827.4 | 17285.2 | 17390.4 | 16220.8 | 16343.8 | 14905.5 |
| 62.5° | 7399.3 | 7787.6 | 9371.4 | 12148.9 | 15606.1 | 19922.2 | 20124.3 | 19711.8 | 17841.7 | 17477.8 | 16799.9 |
| 65° | 3927.7 | 4227.1 | 5521.3 | 8769.7 | 13530.5 | 20640.4 | 25089.1 | 23859.6 | 20701.9 | 19708.5 | 19247.5 |
| 67.5° | 2009.1 | 2099.8 | 2614.2 | 4291.8 | 9301.8 | 18333.5 | 29539.4 | 30404.9 | 25631.0 | 21921.6 | 19129.4 |
| 69° | 1777.8 | 1831.3 | 2172.6 | 3102.7 | 5956.4 | 15528.5 | 29756.1 | 32652.0 | 28211.4 | 21737.1 | 17383.9 |
| 70° | 1721.2 | 1768.1 | 2078.8 | 2808.3 | 4655.7 | 13022.5 | 28926.3 | 32454.5 | 28871.3 | 21035.2 | 16080.0 |
| 72.5° | 1460.9 | 1501.2 | 1850.7 | 2481.6 | 3783.8 | 6464.4 | 23497.2 | 27501.2 | 25907.7 | 17523.1 | 11639.3 |
| 75° | 977.0 | 1109.8 | 1776.3 | 2326.3 | 3520.2 | 3672.2 | 15491.2 | 19873.7 | 18461.2 | 11819.0 | 6063.2 |
| 77.5° | 234.5 | 252.3 | 501.6 | 1850.7 | 3219.3 | 3232.2 | 7967.2 | 12354.5 | 10076.7 | 4212.5 | 1433.2 |
| 80° | 126.2 | 121.4 | 140.8 | 367.1 | 2997.6 | 3033.1 | 3586.5 | 5996.8 | 3597.8 | 698.8 | 472.4 |
| 82.5° | 89.0 | 84.1 | 90.5 | 153.7 | 943.1 | 2763.0 | 2594.8 | 2714.5 | 1491.5 | 268.6 | 211.9 |
| 85° | 32.3 | 30.7 | 50.1 | 139.1 | 296.0 | 1588.7 | 2666.0 | 2238.9 | 1208.4 | 123.0 | 155.2 |
| 87.5° | 11.3 | 9.7 | 19.5 | 76.0 | 90.5 | 676.2 | 1645.2 | 1692.1 | 475.7 | 74.4 | 72.9 |
| 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° | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 | 7446.3 |
| 2.5° | 7379.9 | 7279.8 | 7095.4 | 6906.0 | 6731.3 | 6520.9 | 6415.9 | 6312.3 | 6268.6 | 6252.5 | 6176.4 |
| 5° | 7166.5 | 6996.5 | 6605.1 | 6212.0 | 5849.7 | 5464.6 | 5210.7 | 5006.9 | 4887.0 | 4828.8 | 4736.7 |
| 7.5° | 6893.1 | 6614.8 | 6021.1 | 5414.4 | 4849.9 | 4293.4 | 3880.9 | 3563.8 | 3345.4 | 3240.2 | 3144.8 |
| 10° | 6627.8 | 6257.4 | 5412.8 | 4586.1 | 3819.5 | 3081.7 | 2512.3 | 2099.8 | 1836.0 | 1714.8 | 1637.2 |
| 12.5° | 6390.0 | 5909.5 | 4825.6 | 3779.0 | 2816.5 | 1952.6 | 1373.5 | 1045.1 | 881.6 | 825.1 | 797.5 |
| 15° | 6178.1 | 5589.2 | 4270.7 | 3012.1 | 1907.3 | 1116.2 | 750.7 | 639.1 | 613.2 | 613.2 | 609.9 |
| 17.5° | 5977.4 | 5275.3 | 3735.3 | 2292.3 | 1197.1 | 682.7 | 571.1 | 556.5 | 556.5 | 563.0 | 563.0 |
| 20° | 5784.9 | 4976.2 | 3217.5 | 1645.2 | 753.9 | 541.9 | 516.0 | 512.8 | 516.0 | 524.2 | 524.2 |
| 22.5° | 5619.9 | 4704.3 | 2733.9 | 1129.2 | 559.7 | 488.6 | 475.7 | 470.7 | 472.4 | 477.2 | 480.5 |
| 25° | 5497.0 | 4474.5 | 2277.7 | 765.1 | 482.1 | 444.9 | 430.3 | 422.3 | 415.7 | 415.7 | 419.0 |
| 27.5° | 5419.4 | 4280.5 | 1836.0 | 556.5 | 433.5 | 404.4 | 381.8 | 368.8 | 354.3 | 346.1 | 349.4 |
| 30° | 5362.7 | 4096.0 | 1421.9 | 454.6 | 388.2 | 359.1 | 329.9 | 308.9 | 287.9 | 278.3 | 281.4 |
| 32.5° | 5341.7 | 3947.2 | 1062.9 | 401.3 | 347.9 | 315.5 | 279.8 | 252.3 | 229.6 | 221.6 | 223.3 |
| 35° | 5398.4 | 3829.1 | 778.1 | 362.3 | 315.5 | 275.1 | 234.5 | 203.8 | 185.9 | 181.2 | 182.8 |
| 37.5° | 5547.2 | 3766.1 | 582.5 | 329.9 | 286.3 | 241.0 | 195.7 | 166.6 | 155.2 | 155.2 | 156.9 |
| 40° | 5828.7 | 3764.3 | 467.5 | 307.4 | 260.5 | 208.6 | 161.8 | 140.8 | 134.2 | 137.5 | 139.1 |
| 42.5° | 6239.4 | 3850.1 | 407.7 | 286.3 | 237.8 | 178.0 | 134.2 | 119.7 | 118.0 | 121.4 | 123.0 |
| 45° | 6800.9 | 4007.1 | 375.3 | 268.6 | 213.5 | 148.8 | 113.2 | 103.6 | 103.6 | 108.3 | 110.0 |
| 47.5° | 7488.5 | 4236.8 | 347.9 | 250.7 | 189.3 | 124.5 | 97.0 | 90.5 | 92.2 | 97.0 | 98.6 |
| 50° | 8316.7 | 4526.4 | 320.3 | 231.4 | 171.4 | 103.6 | 84.1 | 79.3 | 80.8 | 87.3 | 89.0 |
| 52.5° | 9259.8 | 4916.2 | 297.7 | 213.5 | 148.8 | 85.8 | 71.1 | 67.9 | 71.1 | 77.7 | 79.3 |
| 55° | 10068.7 | 5265.7 | 270.2 | 199.0 | 119.7 | 71.1 | 58.2 | 58.2 | 61.4 | 69.6 | 71.1 |
| 57.5° | 10846.8 | 5631.2 | 245.9 | 171.4 | 93.9 | 56.7 | 48.5 | 50.1 | 54.9 | 63.2 | 64.7 |
| 60° | 11988.9 | 6250.9 | 216.9 | 144.0 | 71.1 | 45.4 | 40.5 | 42.1 | 48.5 | 56.7 | 58.2 |
| 62.5° | 13928.5 | 7193.9 | 187.7 | 119.7 | 54.9 | 35.7 | 32.3 | 35.7 | 43.7 | 53.4 | 54.9 |
| 65° | 15678.8 | 7577.4 | 153.7 | 100.3 | 42.1 | 27.5 | 27.5 | 32.3 | 42.1 | 51.7 | 53.4 |
| 67.5° | 14703.4 | 6378.7 | 119.7 | 79.3 | 32.3 | 21.0 | 22.6 | 30.7 | 40.5 | 51.7 | 53.4 |
| 69° | 13003.1 | 5215.5 | 101.9 | 63.2 | 27.5 | 19.5 | 21.0 | 30.7 | 40.5 | 50.1 | 51.7 |
| 70° | 11678.2 | 4403.4 | 90.5 | 53.4 | 24.3 | 19.5 | 21.0 | 29.1 | 40.5 | 50.1 | 51.7 |
| 72.5° | 7821.6 | 2378.1 | 72.9 | 38.8 | 22.6 | 17.7 | 17.7 | 29.1 | 38.8 | 48.5 | 50.1 |
| 75° | 3361.5 | 656.8 | 58.2 | 27.5 | 19.5 | 16.2 | 16.2 | 27.5 | 37.2 | 46.9 | 50.1 |
| 77.5° | 614.7 | 166.6 | 46.9 | 24.3 | 19.5 | 16.2 | 14.6 | 26.0 | 35.7 | 45.4 | 46.9 |
| 80° | 244.2 | 82.6 | 37.2 | 21.0 | 17.7 | 14.6 | 12.9 | 24.3 | 34.0 | 43.7 | 45.4 |
| 82.5° | 147.2 | 46.9 | 30.7 | 19.5 | 17.7 | 12.9 | 11.3 | 21.0 | 32.3 | 42.1 | 43.7 |
| 85° | 119.7 | 32.3 | 24.3 | 19.5 | 16.2 | 12.9 | 9.7 | 19.5 | 29.1 | 40.5 | 42.1 |
| 87.5° | 58.2 | 22.6 | 22.6 | 17.7 | 16.2 | 12.9 | 9.7 | 17.7 | 27.5 | 38.8 | 40.5 |
| 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)