

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: P458922

Luminaire Tested: **GLAN-SA4C-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21227 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

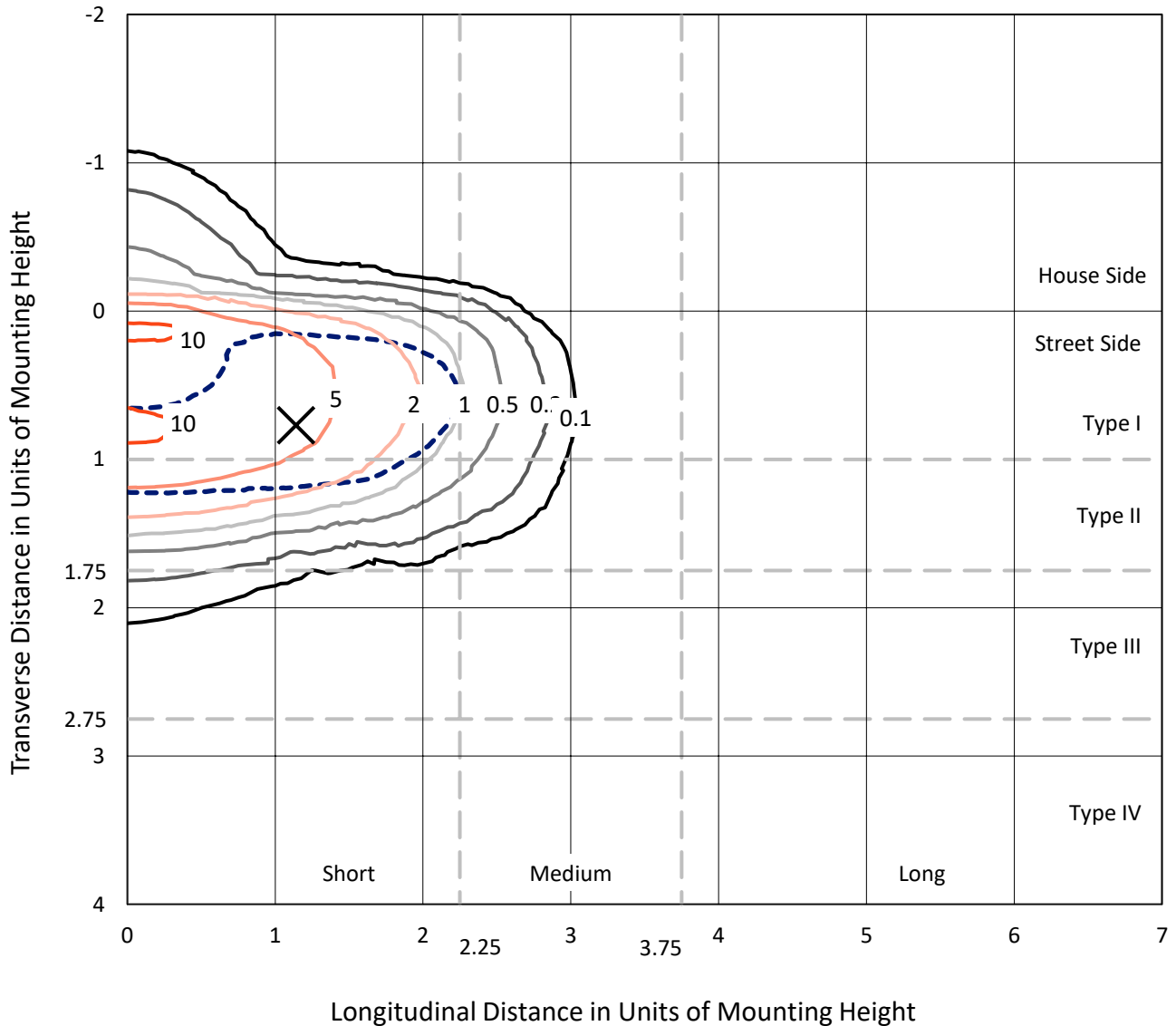
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

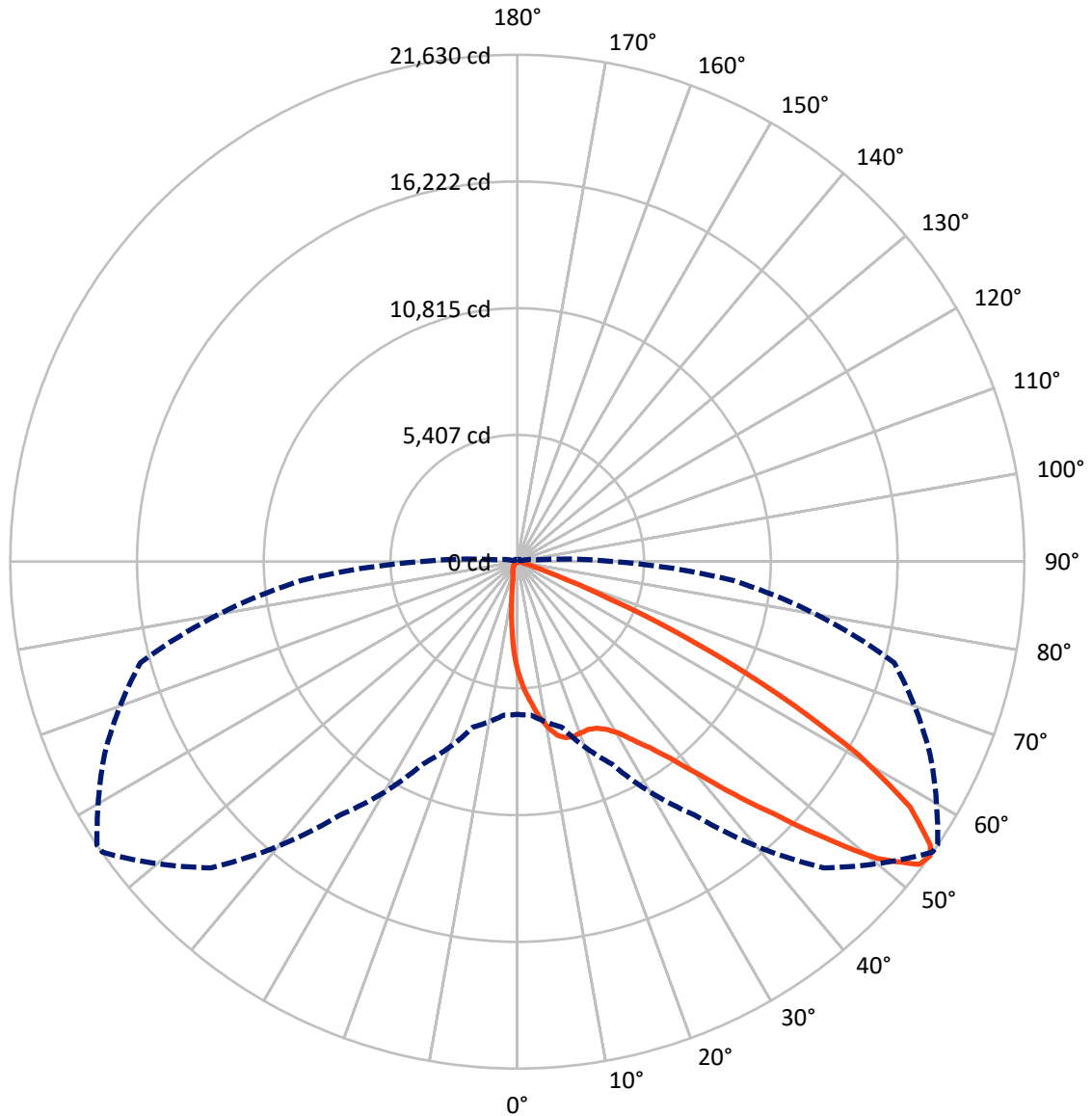
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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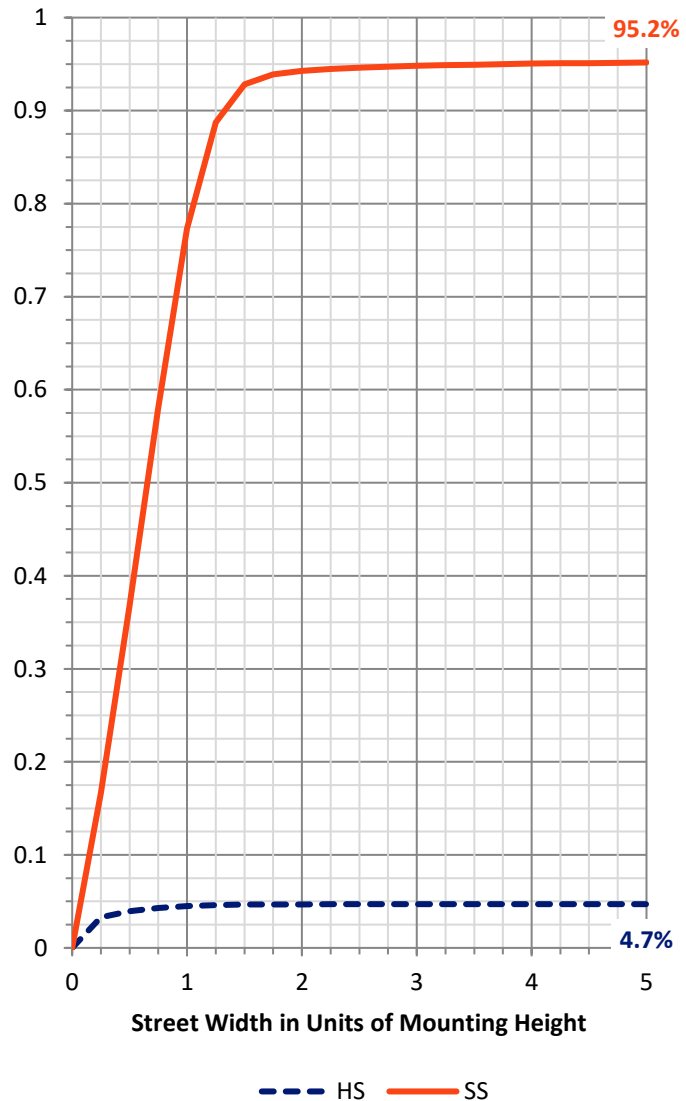
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1003.8 | 0.0 | 1003.8 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 20223.2 | 0.0 | 20223.2 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 21227.0 | 0.0 | 21227.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 416.7 | 2.0 |
| 10°-20° | 1126.6 | 5.3 |
| 20°-30° | 1951.1 | 9.2 |
| 30°-40° | 3368.0 | 15.9 |
| 40°-50° | 5732.4 | 27.0 |
| 50°-60° | 5672.9 | 26.7 |
| 60°-70° | 2589.2 | 12.2 |
| 70°-80° | 332.5 | 1.6 |
| 80°-90° | 37.5 | 0.2 |
| 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° | 21227.0 | 100.0 |
| 0°-180° | 21227.0 | 100.0 |



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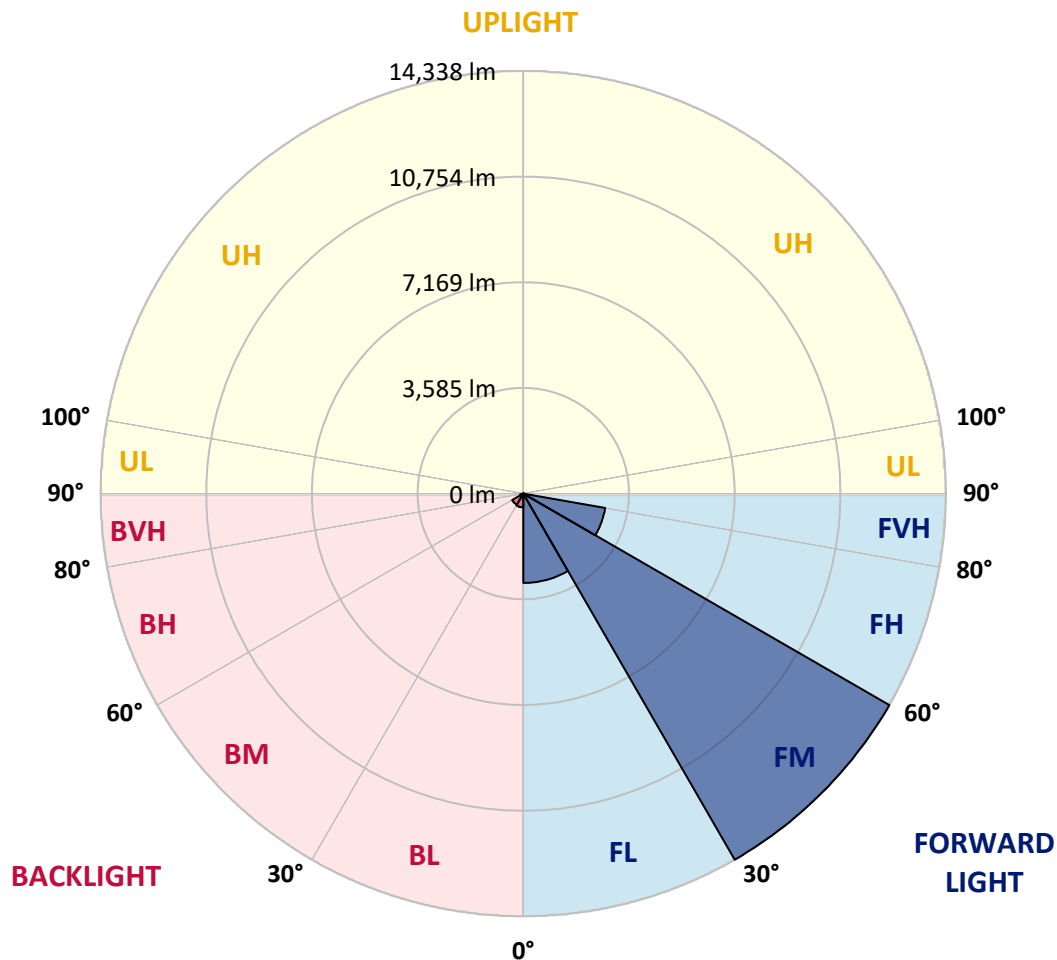
CATALOG NUMBER: GLAN-SA4C-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3030.2 | 14.3 | | | |
| FM (30°-60°) | 14338.3 | 67.5 | | | |
| FH (60°-80°) | 2821.3 | 13.3 | | | G2/5000 |
| FVH (80°-90°) | 33.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 464.2 | 2.2 | B1/500 | | |
| BM (30°-60°) | 435.0 | 2.0 | B1/1000 | | |
| BH (60°-80°) | 100.5 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 |
| 2.5° | 5993.5 | 5952.0 | 5894.7 | 5850.3 | 5745.7 | 5595.4 | 5436.4 | 5436.4 | 5283.2 | 5069.8 | 4852.1 |
| 5° | 6912.9 | 6885.7 | 6829.9 | 6715.3 | 6597.9 | 6387.3 | 6068.0 | 6012.1 | 5738.6 | 5351.9 | 4945.2 |
| 7.5° | 7286.7 | 7299.6 | 7302.5 | 7272.4 | 7216.5 | 7008.9 | 6692.4 | 6653.7 | 6216.9 | 5698.5 | 5066.9 |
| 10° | 6928.7 | 6991.7 | 7053.3 | 7177.9 | 7354.0 | 7404.2 | 7225.1 | 7185.0 | 6755.4 | 6049.3 | 5198.7 |
| 12.5° | 6395.9 | 6430.3 | 6464.7 | 6660.9 | 7014.6 | 7419.9 | 7607.5 | 7606.1 | 7242.3 | 6398.8 | 5366.2 |
| 15° | 6148.2 | 6178.2 | 6181.1 | 6268.5 | 6574.9 | 7165.0 | 7770.8 | 7792.3 | 7717.8 | 6829.9 | 5546.7 |
| 17.5° | 6199.7 | 6224.1 | 6204.0 | 6225.5 | 6385.9 | 6884.3 | 7752.2 | 7823.8 | 8103.0 | 7243.8 | 5709.9 |
| 20° | 6536.3 | 6583.5 | 6506.2 | 6446.1 | 6494.7 | 6809.8 | 7689.1 | 7789.4 | 8375.1 | 7647.6 | 5858.9 |
| 22.5° | 7140.6 | 7166.4 | 7069.0 | 6904.3 | 6818.4 | 6965.9 | 7672.0 | 7770.8 | 8607.1 | 7978.4 | 5944.8 |
| 25° | 7812.3 | 7803.7 | 7696.3 | 7511.6 | 7331.1 | 7281.0 | 7785.1 | 7873.9 | 8799.1 | 8276.3 | 5970.6 |
| 27.5° | 8484.0 | 8509.8 | 8329.3 | 8100.2 | 7883.9 | 7753.6 | 8038.6 | 8104.5 | 9015.3 | 8615.7 | 6002.1 |
| 30° | 9264.5 | 9223.0 | 9045.4 | 8783.3 | 8535.5 | 8353.7 | 8446.7 | 8465.4 | 9313.2 | 9065.4 | 6085.2 |
| 32.5° | 10279.9 | 10165.3 | 9966.2 | 9508.0 | 9330.4 | 9022.5 | 9045.4 | 9068.3 | 9675.5 | 9510.8 | 6185.4 |
| 35° | 11657.6 | 11651.9 | 11262.3 | 10645.1 | 10212.6 | 9830.2 | 9729.9 | 9748.6 | 10224.0 | 10172.5 | 6407.4 |
| 37.5° | 13316.0 | 13338.9 | 12895.0 | 12273.4 | 11477.2 | 10869.9 | 10663.7 | 10666.6 | 11057.5 | 11086.2 | 6745.4 |
| 40° | 14666.5 | 14726.7 | 14461.7 | 14042.1 | 13255.9 | 12306.4 | 11959.8 | 11928.3 | 12229.0 | 12193.2 | 7228.0 |
| 42.5° | 15248.0 | 15303.8 | 15402.6 | 15548.7 | 15116.2 | 14332.8 | 13515.1 | 13558.0 | 13649.7 | 13399.1 | 7769.3 |
| 45° | 14963.0 | 15051.8 | 15439.9 | 16342.1 | 16748.8 | 16485.3 | 15510.1 | 15359.7 | 14971.6 | 14709.5 | 8313.6 |
| 47.5° | 13775.7 | 13992.0 | 14640.7 | 16143.1 | 17566.6 | 18457.4 | 17761.4 | 17562.3 | 16294.9 | 15666.2 | 8660.1 |
| 50° | 11823.7 | 11836.6 | 12740.3 | 14660.8 | 17142.7 | 19701.9 | 20060.0 | 19911.0 | 17527.9 | 16203.2 | 8834.9 |
| 52.5° | 8571.3 | 8853.5 | 9681.3 | 11905.4 | 15306.7 | 19512.9 | 21525.0 | 21463.4 | 18799.7 | 16478.2 | 9086.9 |
| 54° | 6516.2 | 6570.6 | 7306.8 | 9513.7 | 13197.1 | 18474.6 | 21615.3 | 21629.6 | 19431.2 | 16644.3 | 9235.9 |
| 55° | 5341.9 | 5211.5 | 5984.9 | 8104.5 | 11757.8 | 17556.6 | 21320.2 | 21389.0 | 19714.8 | 16730.2 | 9346.1 |
| 57.5° | 2532.0 | 2533.5 | 3124.9 | 4274.9 | 7364.1 | 13632.5 | 19517.2 | 19760.6 | 19746.3 | 16877.7 | 9685.5 |
| 60° | 1281.8 | 1290.4 | 1420.7 | 1973.5 | 3637.6 | 9062.6 | 16137.3 | 16717.3 | 18226.8 | 16899.2 | 9797.3 |
| 62.5° | 896.5 | 886.5 | 865.0 | 949.5 | 1531.0 | 4605.8 | 12014.2 | 12518.3 | 15485.7 | 16081.5 | 9442.1 |
| 65° | 767.6 | 746.1 | 686.0 | 673.1 | 773.4 | 1834.6 | 7482.9 | 8305.0 | 11823.7 | 13924.7 | 8431.0 |
| 67.5° | 655.9 | 647.3 | 592.9 | 560.0 | 547.1 | 799.1 | 3861.0 | 4293.5 | 8081.6 | 10009.2 | 6385.9 |
| 70° | 557.1 | 552.8 | 519.9 | 478.3 | 442.5 | 478.3 | 1432.1 | 1774.4 | 4504.1 | 5389.1 | 3013.2 |
| 72.5° | 452.6 | 456.9 | 462.6 | 409.6 | 372.4 | 339.4 | 611.5 | 711.8 | 1884.7 | 1926.2 | 1054.1 |
| 75° | 396.7 | 392.4 | 392.4 | 356.6 | 310.8 | 252.1 | 336.6 | 362.3 | 577.2 | 535.6 | 244.9 |
| 77.5° | 279.3 | 269.2 | 315.1 | 293.6 | 259.2 | 179.0 | 191.9 | 203.4 | 239.2 | 204.8 | 114.6 |
| 80° | 193.3 | 193.3 | 201.9 | 263.5 | 233.4 | 130.3 | 117.4 | 126.0 | 141.8 | 121.7 | 65.9 |
| 82.5° | 108.8 | 111.7 | 131.8 | 140.3 | 136.1 | 87.4 | 77.3 | 78.8 | 94.5 | 83.1 | 41.5 |
| 85° | 12.9 | 21.5 | 75.9 | 74.5 | 55.9 | 38.7 | 43.0 | 44.4 | 58.7 | 51.6 | 24.3 |
| 87.5° | 1.4 | 2.9 | 15.8 | 20.0 | 14.3 | 15.8 | 15.8 | 15.8 | 20.0 | 22.9 | 17.2 |
| 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° | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 | 4716.0 |
| 2.5° | 4734.6 | 4625.8 | 4366.6 | 4065.8 | 3873.9 | 3561.7 | 3298.2 | 3107.7 | 3060.5 | 2968.8 | 2996.0 |
| 5° | 4728.9 | 4502.6 | 3974.2 | 3415.6 | 2819.9 | 2375.9 | 2045.1 | 1784.4 | 1669.9 | 1594.0 | 1541.0 |
| 7.5° | 4731.8 | 4378.0 | 3530.2 | 2640.9 | 1929.1 | 1493.7 | 1187.2 | 1028.3 | 922.3 | 877.9 | 883.6 |
| 10° | 4740.4 | 4237.7 | 3014.6 | 1956.3 | 1301.8 | 965.3 | 777.7 | 701.7 | 665.9 | 660.2 | 658.8 |
| 12.5° | 4760.4 | 4084.5 | 2522.0 | 1452.2 | 910.8 | 701.7 | 630.1 | 604.4 | 592.9 | 592.9 | 588.6 |
| 15° | 4781.9 | 3915.5 | 2112.4 | 1079.8 | 701.7 | 602.9 | 570.0 | 557.1 | 549.9 | 549.9 | 548.5 |
| 17.5° | 4781.9 | 3720.7 | 1730.0 | 837.8 | 604.4 | 554.2 | 528.5 | 511.3 | 505.5 | 505.5 | 504.1 |
| 20° | 4751.8 | 3494.4 | 1390.6 | 674.5 | 548.5 | 508.4 | 482.6 | 464.0 | 456.9 | 454.0 | 452.6 |
| 22.5° | 4647.3 | 3192.2 | 1107.0 | 580.0 | 502.7 | 468.3 | 435.4 | 413.9 | 408.2 | 405.3 | 406.7 |
| 25° | 4461.1 | 2851.4 | 876.5 | 509.8 | 461.1 | 419.6 | 391.0 | 375.2 | 369.5 | 369.5 | 370.9 |
| 27.5° | 4269.2 | 2494.8 | 694.6 | 456.9 | 411.0 | 373.8 | 350.9 | 340.8 | 339.4 | 343.7 | 345.1 |
| 30° | 4091.6 | 2136.7 | 562.8 | 413.9 | 366.6 | 335.1 | 319.4 | 316.5 | 316.5 | 317.9 | 319.4 |
| 32.5° | 3894.0 | 1823.1 | 471.2 | 376.7 | 330.8 | 303.6 | 295.0 | 295.0 | 297.9 | 297.9 | 300.7 |
| 35° | 3769.4 | 1553.9 | 413.9 | 340.8 | 303.6 | 280.7 | 275.0 | 276.4 | 280.7 | 286.4 | 289.3 |
| 37.5° | 3702.1 | 1339.0 | 376.7 | 312.2 | 277.8 | 262.1 | 256.4 | 259.2 | 269.2 | 279.3 | 280.7 |
| 40° | 3707.8 | 1177.2 | 346.6 | 287.9 | 257.8 | 240.6 | 236.3 | 244.9 | 254.9 | 264.9 | 266.4 |
| 42.5° | 3770.8 | 1056.9 | 317.9 | 259.2 | 240.6 | 216.3 | 214.8 | 223.4 | 227.7 | 237.7 | 239.2 |
| 45° | 3845.3 | 969.6 | 287.9 | 229.1 | 209.1 | 187.6 | 189.0 | 196.2 | 201.9 | 217.7 | 220.5 |
| 47.5° | 3868.2 | 909.4 | 253.5 | 194.8 | 171.9 | 164.7 | 166.1 | 170.4 | 181.9 | 196.2 | 197.6 |
| 50° | 3894.0 | 872.2 | 220.5 | 164.7 | 146.1 | 144.6 | 146.1 | 148.9 | 156.1 | 161.8 | 160.4 |
| 52.5° | 4004.3 | 870.7 | 193.3 | 143.2 | 124.6 | 127.5 | 128.9 | 127.5 | 121.7 | 113.1 | 110.3 |
| 54° | 4107.4 | 875.0 | 180.4 | 133.2 | 114.6 | 118.9 | 117.4 | 110.3 | 96.0 | 87.4 | 83.1 |
| 55° | 4190.4 | 879.3 | 173.3 | 126.0 | 108.8 | 110.3 | 111.7 | 97.4 | 78.8 | 70.2 | 67.3 |
| 57.5° | 4353.7 | 869.3 | 156.1 | 110.3 | 96.0 | 90.2 | 88.8 | 64.4 | 43.0 | 37.2 | 34.4 |
| 60° | 4272.1 | 784.8 | 141.8 | 94.5 | 81.6 | 73.0 | 60.1 | 35.8 | 21.5 | 15.8 | 15.8 |
| 62.5° | 3951.3 | 665.9 | 126.0 | 77.3 | 67.3 | 55.9 | 31.5 | 20.0 | 10.0 | 5.7 | 4.3 |
| 65° | 3534.5 | 560.0 | 113.1 | 61.6 | 53.0 | 35.8 | 17.2 | 12.9 | 4.3 | 0.0 | 0.0 |
| 67.5° | 2628.0 | 415.3 | 96.0 | 48.7 | 40.1 | 22.9 | 11.5 | 7.2 | 1.4 | 0.0 | 0.0 |
| 70° | 1217.3 | 253.5 | 81.6 | 37.2 | 28.6 | 17.2 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 349.4 | 159.0 | 67.3 | 27.2 | 20.0 | 14.3 | 7.2 | 2.9 | 1.4 | 0.0 | 0.0 |
| 75° | 121.7 | 127.5 | 50.1 | 20.0 | 15.8 | 10.0 | 5.7 | 2.9 | 1.4 | 0.0 | 0.0 |
| 77.5° | 73.0 | 103.1 | 31.5 | 17.2 | 12.9 | 8.6 | 5.7 | 2.9 | 1.4 | 1.4 | 0.0 |
| 80° | 41.5 | 68.7 | 20.0 | 14.3 | 11.5 | 7.2 | 4.3 | 2.9 | 1.4 | 1.4 | 0.0 |
| 82.5° | 22.9 | 32.9 | 15.8 | 12.9 | 10.0 | 7.2 | 4.3 | 2.9 | 1.4 | 1.4 | 1.4 |
| 85° | 18.6 | 17.2 | 12.9 | 11.5 | 8.6 | 5.7 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.3 | 11.5 | 11.5 | 11.5 | 8.6 | 5.7 | 4.3 | 1.4 | 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)