

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: P456058

Luminaire Tested: **GLAN-SA7B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32601 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

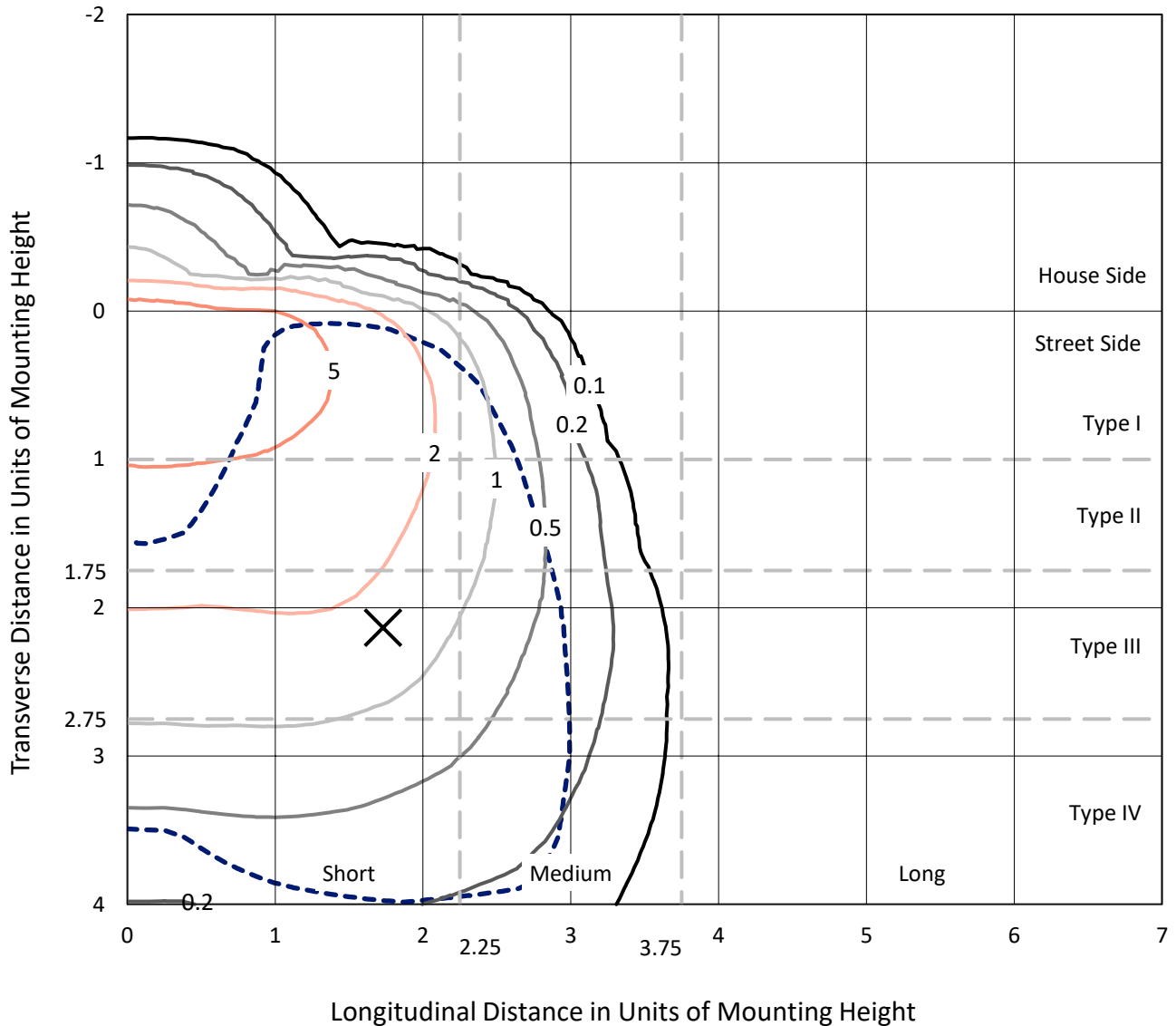
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

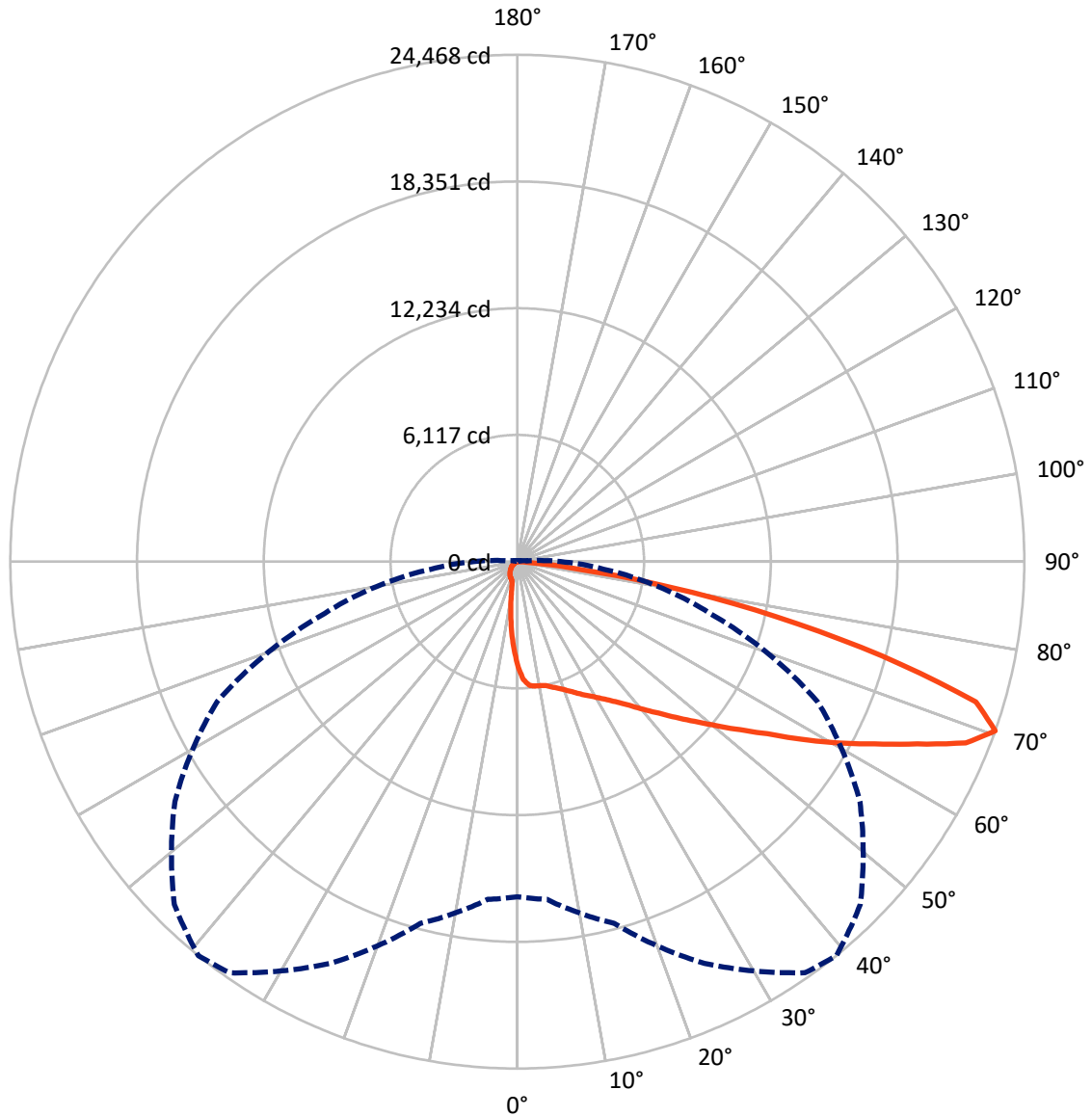
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2125.7 | 0.0 | 2125.7 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 30475.3 | 0.0 | 30475.3 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 32601.0 | 0.0 | 32601.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 433.9 | 1.3 |
| 10°-20° | 1127.5 | 3.5 |
| 20°-30° | 1888.9 | 5.8 |
| 30°-40° | 2929.5 | 9.0 |
| 40°-50° | 4642.3 | 14.2 |
| 50°-60° | 6804.9 | 20.9 |
| 60°-70° | 8722.3 | 26.8 |
| 70°-80° | 5480.8 | 16.8 |
| 80°-90° | 571.0 | 1.8 |
| 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° | 32601.0 | 100.0 |
| 0°-180° | 32601.0 | 100.0 |

Coefficient of Utilization



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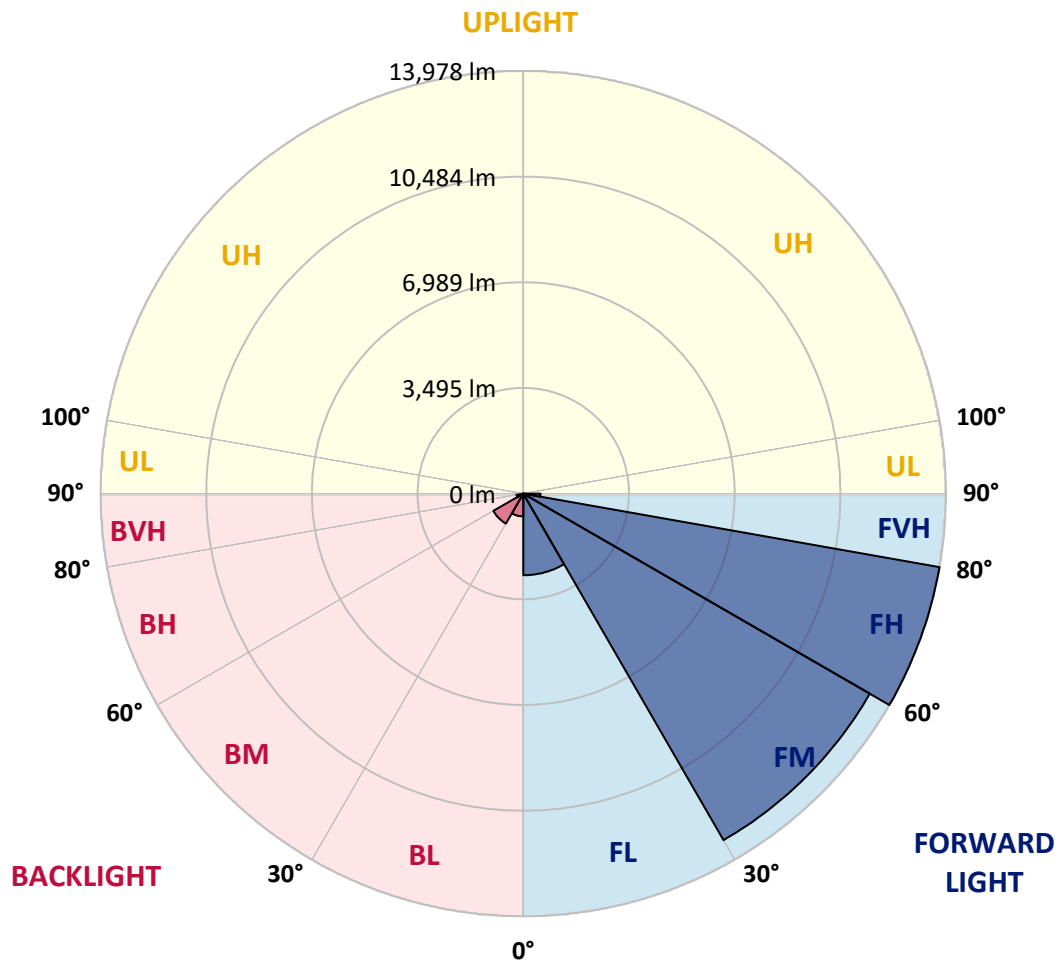
CATALOG NUMBER: GLAN-SA7B-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 2697.6 | 8.3 | | | |
| FM | (30°-60°) | 13232.7 | 40.6 | | | |
| FH | (60°-80°) | 13978.2 | 42.9 | | | G5 |
| FVH | (80°-90°) | 566.8 | 1.7 | | | G4/750 |
| BL | (0°-30°) | 752.7 | 2.3 | B2/1000 | | |
| BM | (30°-60°) | 1144.0 | 3.5 | B2/2500 | | |
| BH | (60°-80°) | 224.8 | 0.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.2 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 |
| 2.5° | 5877.7 | 5858.0 | 5831.7 | 5801.1 | 5713.4 | 5698.1 | 5645.5 | 5533.8 | 5400.1 | 5290.6 | 5139.5 |
| 5° | 6156.0 | 6166.9 | 6147.2 | 6092.4 | 6028.9 | 5991.6 | 5925.9 | 5752.9 | 5579.8 | 5358.5 | 5111.0 |
| 7.5° | 6219.5 | 6241.4 | 6217.3 | 6164.7 | 6103.4 | 6063.9 | 6011.4 | 5862.4 | 5660.8 | 5408.9 | 5069.3 |
| 10° | 6212.9 | 6239.2 | 6223.9 | 6175.7 | 6125.3 | 6088.0 | 6031.1 | 5912.8 | 5750.7 | 5485.6 | 5082.5 |
| 12.5° | 6202.0 | 6237.0 | 6234.8 | 6210.7 | 6169.1 | 6140.6 | 6105.6 | 6000.4 | 5849.2 | 5597.3 | 5154.8 |
| 15° | 6171.3 | 6215.1 | 6254.5 | 6274.2 | 6276.4 | 6276.4 | 6232.6 | 6120.9 | 5976.3 | 5744.1 | 5249.0 |
| 17.5° | 6184.4 | 6234.8 | 6333.4 | 6390.4 | 6429.8 | 6425.4 | 6379.4 | 6258.9 | 6099.0 | 5895.3 | 5347.6 |
| 20° | 6265.5 | 6333.4 | 6471.4 | 6585.3 | 6624.8 | 6611.6 | 6550.3 | 6410.1 | 6228.2 | 6024.5 | 5444.0 |
| 22.5° | 6464.8 | 6526.2 | 6699.3 | 6832.9 | 6861.4 | 6826.3 | 6738.7 | 6548.1 | 6383.8 | 6164.7 | 5560.1 |
| 25° | 6762.8 | 6835.1 | 6995.0 | 7095.8 | 7095.8 | 7076.1 | 6953.4 | 6729.9 | 6559.0 | 6359.7 | 5711.2 |
| 27.5° | 7124.3 | 7185.6 | 7343.3 | 7433.1 | 7380.6 | 7323.6 | 7200.9 | 6931.5 | 6767.2 | 6605.0 | 5893.1 |
| 30° | 7490.1 | 7529.5 | 7696.0 | 7735.5 | 7680.7 | 7608.4 | 7477.0 | 7207.5 | 7062.9 | 6938.0 | 6156.0 |
| 32.5° | 7836.2 | 7921.7 | 8059.7 | 8050.9 | 7976.4 | 7941.4 | 7820.9 | 7533.9 | 7452.9 | 7439.7 | 6524.0 |
| 35° | 8182.4 | 8248.1 | 8370.8 | 8401.4 | 8335.7 | 8329.2 | 8241.5 | 8029.0 | 8031.2 | 8116.7 | 7098.0 |
| 37.5° | 8480.3 | 8539.5 | 8684.1 | 8752.0 | 8765.1 | 8798.0 | 8762.9 | 8622.7 | 8822.1 | 9056.5 | 7858.1 |
| 40° | 8730.1 | 8813.3 | 8997.3 | 9115.6 | 9251.5 | 9371.9 | 9378.5 | 9409.2 | 9810.1 | 10213.2 | 8850.5 |
| 42.5° | 8925.0 | 9041.1 | 9308.4 | 9527.5 | 9838.6 | 9991.9 | 10114.6 | 10283.3 | 10958.0 | 11560.5 | 10020.4 |
| 45° | 9179.2 | 9312.8 | 9645.8 | 9989.7 | 10476.1 | 10728.0 | 10898.9 | 11350.2 | 12307.5 | 13129.0 | 11220.9 |
| 47.5° | 9599.8 | 9669.9 | 10009.4 | 10511.1 | 11150.8 | 11510.1 | 11843.1 | 12526.6 | 13755.6 | 14491.7 | 12219.9 |
| 50° | 10140.9 | 10186.9 | 10443.2 | 11139.9 | 11968.0 | 12441.2 | 13048.0 | 13852.0 | 15258.4 | 15622.1 | 12785.1 |
| 52.5° | 10739.0 | 10754.3 | 10947.1 | 11832.1 | 12883.7 | 13479.6 | 14158.7 | 15151.1 | 16483.0 | 16428.3 | 13159.7 |
| 55° | 11433.4 | 11411.5 | 11575.8 | 12583.6 | 13968.1 | 14649.4 | 15440.3 | 16480.9 | 17545.6 | 17000.1 | 13374.4 |
| 57.5° | 12228.7 | 12169.5 | 12329.4 | 13580.3 | 15357.0 | 16172.0 | 16976.0 | 17628.8 | 18369.3 | 17479.8 | 13477.4 |
| 60° | 13061.1 | 12942.8 | 13133.4 | 14699.8 | 16993.5 | 17766.8 | 18435.0 | 18610.2 | 19236.8 | 17861.0 | 13299.9 |
| 62.5° | 13724.9 | 13727.1 | 14082.0 | 15891.6 | 18676.0 | 19352.9 | 19707.8 | 19865.5 | 19983.8 | 17777.8 | 12366.7 |
| 65° | 14761.1 | 14796.2 | 15363.6 | 17545.6 | 20623.5 | 21210.6 | 21453.8 | 20941.2 | 20016.7 | 16743.7 | 10964.6 |
| 67.5° | 15830.2 | 15941.9 | 16980.3 | 19823.9 | 22873.4 | 23346.6 | 23033.3 | 21149.3 | 19122.9 | 14384.3 | 8313.8 |
| 70° | 16178.5 | 16362.6 | 18073.5 | 21392.5 | 24222.9 | 24468.3 | 23407.9 | 20178.8 | 15985.8 | 9617.3 | 4184.3 |
| 72.5° | 14824.7 | 15122.6 | 17444.8 | 20820.7 | 23361.9 | 23149.4 | 20943.4 | 16923.4 | 10162.8 | 3651.9 | 1277.2 |
| 75° | 10454.2 | 10585.6 | 14498.2 | 17271.7 | 18789.9 | 18187.4 | 15931.0 | 10909.8 | 4179.9 | 1025.3 | 438.1 |
| 77.5° | 5398.0 | 5334.4 | 8622.7 | 11459.7 | 13400.7 | 12776.3 | 10432.3 | 5647.7 | 1583.9 | 427.2 | 271.7 |
| 80° | 2791.0 | 2837.0 | 3730.8 | 6004.8 | 8180.2 | 7527.3 | 5562.3 | 2617.9 | 843.4 | 236.6 | 208.1 |
| 82.5° | 1564.2 | 1467.8 | 2144.7 | 2622.3 | 3825.0 | 2999.1 | 2133.8 | 1853.4 | 368.0 | 142.4 | 197.2 |
| 85° | 284.8 | 297.9 | 1176.4 | 1417.4 | 1327.6 | 843.4 | 687.9 | 1237.8 | 107.3 | 78.9 | 138.0 |
| 87.5° | 4.4 | 4.4 | 227.8 | 407.5 | 258.5 | 118.3 | 216.9 | 177.4 | 21.9 | 30.7 | 24.1 |
| 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° | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 | 5086.9 |
| 2.5° | 5062.8 | 4979.5 | 4824.0 | 4670.6 | 4475.7 | 4315.7 | 4208.4 | 4096.7 | 3982.7 | 3991.5 | 4017.8 |
| 5° | 4975.1 | 4830.6 | 4523.9 | 4199.6 | 3888.5 | 3608.1 | 3332.1 | 3084.5 | 2983.8 | 2891.8 | 2896.1 |
| 7.5° | 4887.5 | 4683.8 | 4234.7 | 3726.4 | 3255.4 | 2777.8 | 2431.7 | 2146.9 | 1995.8 | 1881.8 | 1849.0 |
| 10° | 4848.1 | 4578.6 | 3969.6 | 3270.8 | 2602.6 | 2081.2 | 1636.5 | 1404.3 | 1224.6 | 1167.7 | 1183.0 |
| 12.5° | 4865.6 | 4526.0 | 3730.8 | 2858.9 | 2063.7 | 1450.3 | 1139.2 | 1020.9 | 981.4 | 974.9 | 970.5 |
| 15° | 4898.5 | 4488.8 | 3496.4 | 2403.2 | 1516.0 | 1077.8 | 957.3 | 935.4 | 931.1 | 926.7 | 928.9 |
| 17.5° | 4942.3 | 4455.9 | 3246.7 | 1976.0 | 1163.3 | 942.0 | 907.0 | 896.0 | 893.8 | 893.8 | 893.8 |
| 20° | 4986.1 | 4418.7 | 2968.4 | 1594.9 | 970.5 | 889.4 | 867.5 | 861.0 | 858.8 | 858.8 | 856.6 |
| 22.5° | 5036.5 | 4385.8 | 2685.8 | 1253.1 | 893.8 | 852.2 | 832.5 | 828.1 | 825.9 | 823.7 | 823.7 |
| 25° | 5108.8 | 4344.2 | 2385.7 | 1025.3 | 845.6 | 817.1 | 797.4 | 793.0 | 790.9 | 782.1 | 784.3 |
| 27.5° | 5205.2 | 4313.5 | 2076.8 | 885.1 | 801.8 | 773.3 | 760.2 | 753.6 | 749.2 | 742.7 | 744.8 |
| 30° | 5336.6 | 4287.3 | 1748.2 | 808.4 | 751.4 | 727.3 | 714.2 | 709.8 | 705.4 | 698.8 | 698.8 |
| 32.5° | 5564.5 | 4298.2 | 1402.1 | 747.0 | 705.4 | 676.9 | 663.8 | 659.4 | 655.0 | 648.5 | 648.5 |
| 35° | 5906.2 | 4361.7 | 1121.7 | 694.5 | 650.6 | 622.2 | 609.0 | 609.0 | 602.5 | 593.7 | 591.5 |
| 37.5° | 6464.8 | 4523.9 | 900.4 | 644.1 | 598.1 | 571.8 | 556.4 | 552.1 | 545.5 | 532.3 | 530.2 |
| 40° | 7124.3 | 4775.8 | 758.0 | 593.7 | 549.9 | 523.6 | 510.4 | 497.3 | 479.8 | 466.6 | 464.4 |
| 42.5° | 7952.3 | 5034.3 | 657.2 | 543.3 | 503.9 | 479.8 | 464.4 | 442.5 | 416.2 | 398.7 | 396.5 |
| 45° | 8815.5 | 5270.9 | 589.3 | 497.3 | 460.1 | 440.3 | 422.8 | 387.8 | 354.9 | 333.0 | 330.8 |
| 47.5° | 9459.6 | 5314.7 | 534.5 | 453.5 | 422.8 | 403.1 | 379.0 | 335.2 | 291.4 | 271.7 | 265.1 |
| 50° | 9764.1 | 5102.2 | 477.6 | 409.7 | 385.6 | 363.7 | 333.0 | 282.6 | 234.4 | 210.3 | 205.9 |
| 52.5° | 9871.4 | 4734.2 | 431.6 | 370.2 | 348.3 | 322.0 | 284.8 | 227.8 | 184.0 | 159.9 | 157.7 |
| 55° | 9827.6 | 4269.7 | 389.9 | 333.0 | 304.5 | 273.8 | 236.6 | 181.8 | 135.8 | 116.1 | 111.7 |
| 57.5° | 9597.6 | 3678.2 | 348.3 | 295.7 | 260.7 | 230.0 | 188.4 | 135.8 | 92.0 | 74.5 | 72.3 |
| 60° | 8977.6 | 2872.0 | 306.7 | 254.1 | 221.3 | 188.4 | 149.0 | 96.4 | 57.0 | 41.6 | 41.6 |
| 62.5° | 7930.4 | 2131.6 | 267.3 | 212.5 | 186.2 | 151.2 | 105.2 | 61.3 | 30.7 | 21.9 | 19.7 |
| 65° | 6627.0 | 1572.9 | 223.5 | 179.6 | 155.5 | 118.3 | 74.5 | 37.2 | 15.3 | 6.6 | 4.4 |
| 67.5° | 4624.6 | 970.5 | 186.2 | 146.8 | 127.1 | 85.4 | 46.0 | 15.3 | 6.6 | 0.0 | 0.0 |
| 70° | 2100.9 | 462.2 | 142.4 | 111.7 | 96.4 | 61.3 | 24.1 | 8.8 | 4.4 | 0.0 | 0.0 |
| 72.5° | 652.8 | 243.2 | 100.8 | 81.1 | 65.7 | 39.4 | 13.1 | 6.6 | 4.4 | 0.0 | 0.0 |
| 75° | 302.3 | 155.5 | 63.5 | 43.8 | 37.2 | 19.7 | 8.8 | 4.4 | 2.2 | 0.0 | 0.0 |
| 77.5° | 225.6 | 120.5 | 37.2 | 24.1 | 19.7 | 13.1 | 6.6 | 4.4 | 2.2 | 0.0 | 0.0 |
| 80° | 197.2 | 61.3 | 21.9 | 15.3 | 11.0 | 8.8 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 177.4 | 30.7 | 13.1 | 8.8 | 6.6 | 4.4 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 85° | 96.4 | 17.5 | 8.8 | 6.6 | 4.4 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.5 | 8.8 | 6.6 | 4.4 | 4.4 | 2.2 | 2.2 | 2.2 | 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)