

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: P456171

Luminaire Tested: **GLAN-SA7B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31437 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

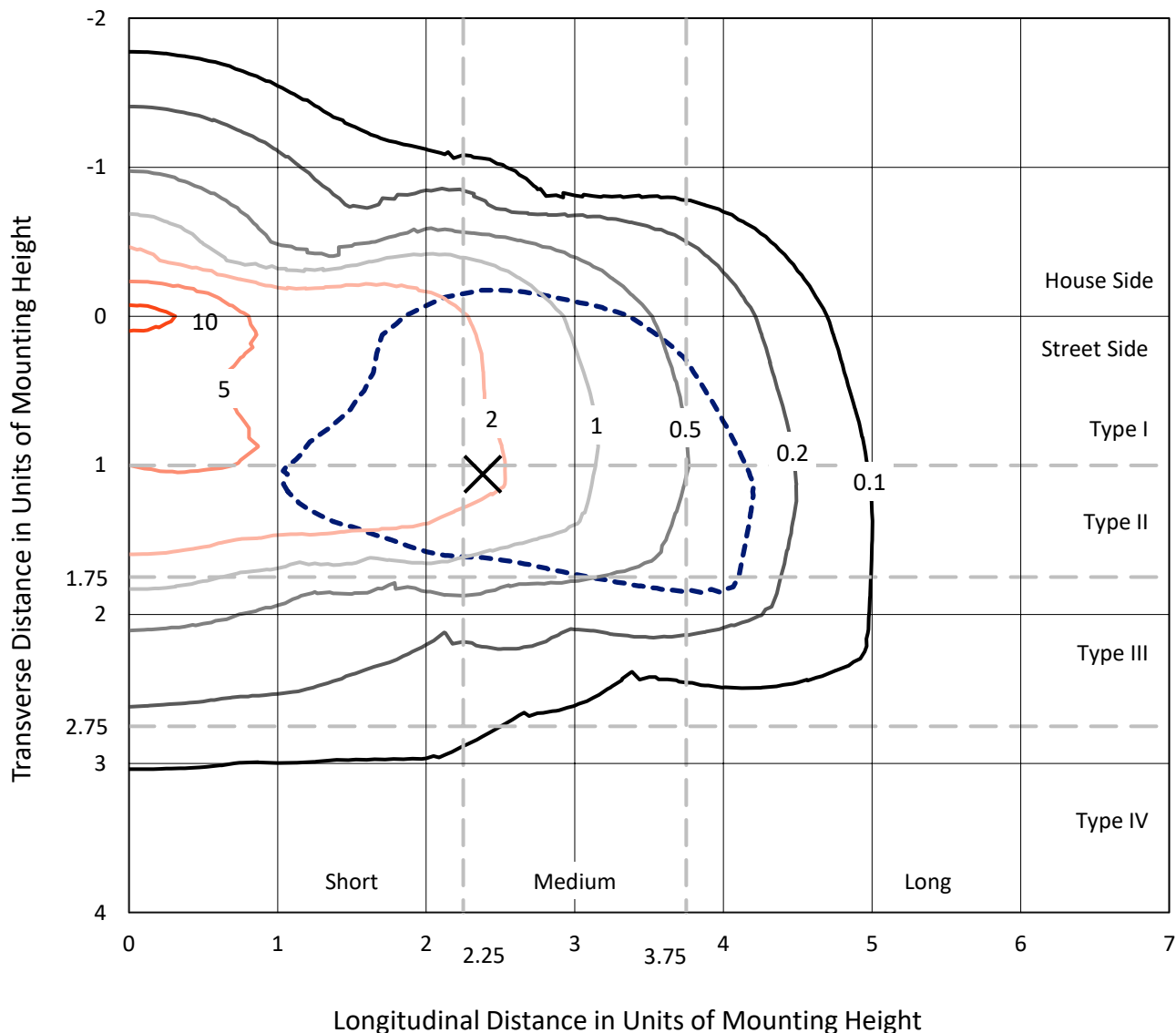
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

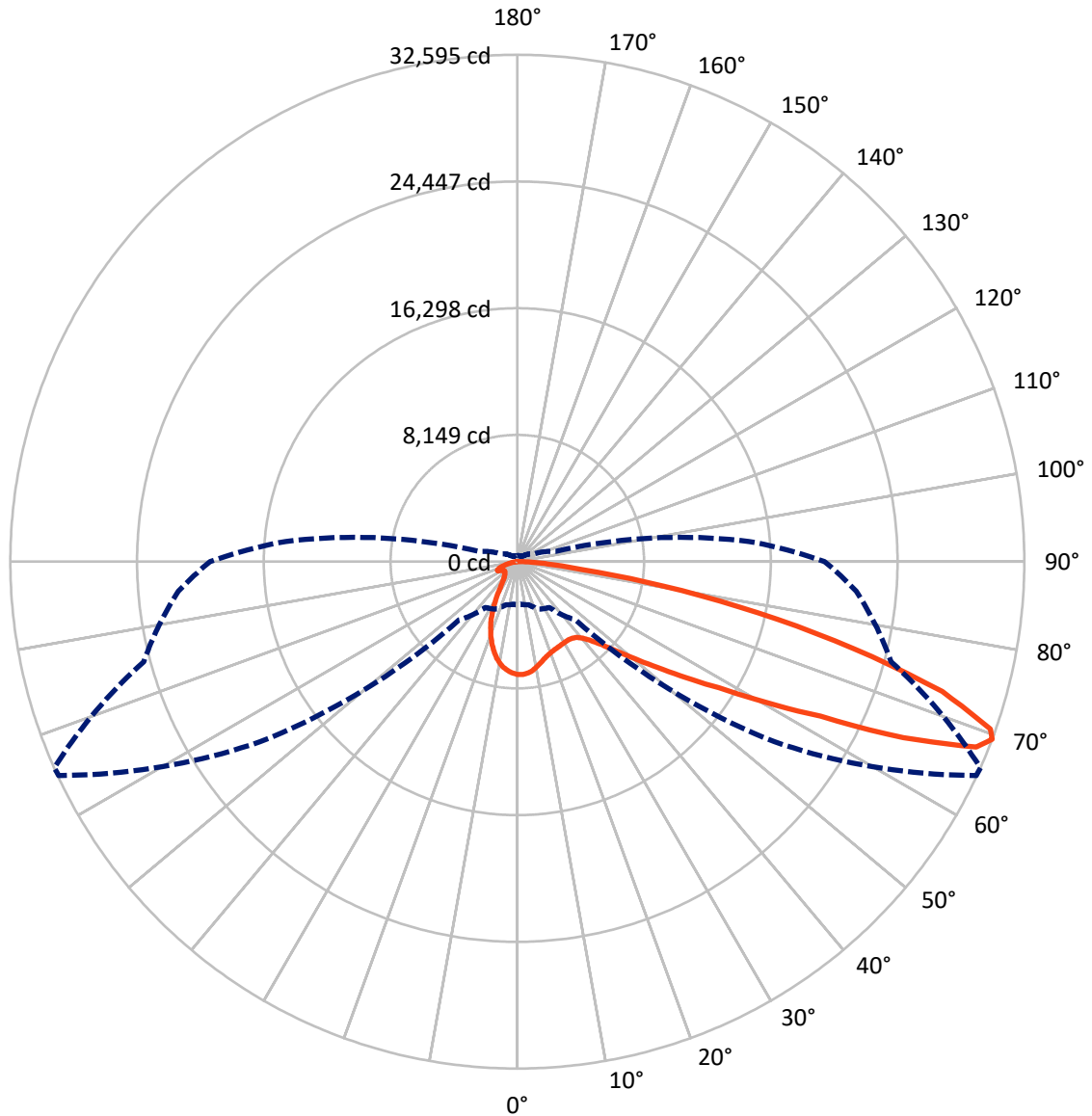
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5912.1 | 0.0 | 5912.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 25524.9 | 0.0 | 25524.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 31437.0 | 0.0 | 31437.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 630.4 | 2.0 |
| 10°-20° | 1495.3 | 4.8 |
| 20°-30° | 2035.7 | 6.5 |
| 30°-40° | 2735.5 | 8.7 |
| 40°-50° | 4084.6 | 13.0 |
| 50°-60° | 6497.2 | 20.7 |
| 60°-70° | 7991.2 | 25.4 |
| 70°-80° | 5199.4 | 16.5 |
| 80°-90° | 767.8 | 2.4 |
| 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° | 31437.0 | 100.0 |
| 0°-180° | 31437.0 | 100.0 |

Coefficient of Utilization



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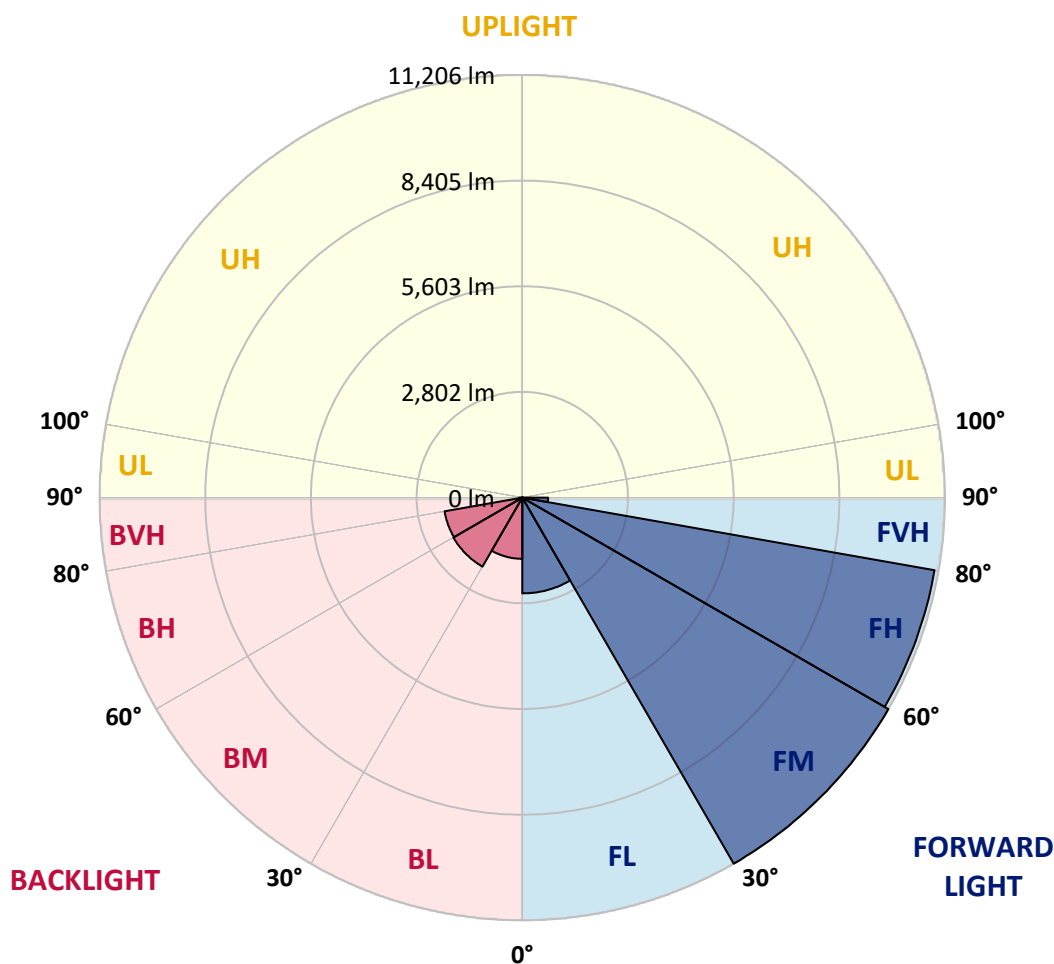
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2538.5 | 8.1 | | | |
| FM | (30°-60°) | 11206.3 | 35.6 | | | |
| FH | (60°-80°) | 11097.4 | 35.3 | | | G4/12000 |
| FVH | (80°-90°) | 682.6 | 2.2 | | | G4/750 |
| BL | (0°-30°) | 1622.9 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 2110.9 | 6.7 | B2/2500 | | |
| BH | (60°-80°) | 2093.2 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 85.2 | 0.3 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 |
| 2.5° | 7005.5 | 7033.4 | 7064.7 | 7099.5 | 7165.7 | 7202.2 | 7228.3 | 7257.9 | 7261.4 | 7277.1 | 7264.9 |
| 5° | 6488.4 | 6521.5 | 6568.5 | 6634.7 | 6733.9 | 6888.9 | 7049.0 | 7179.6 | 7195.3 | 7268.4 | 7289.3 |
| 7.5° | 6056.7 | 6075.8 | 6114.1 | 6220.3 | 6361.4 | 6533.7 | 6767.0 | 7031.6 | 7069.9 | 7244.0 | 7304.9 |
| 10° | 5705.0 | 5724.2 | 5769.4 | 5879.1 | 6018.4 | 6234.3 | 6490.2 | 6838.4 | 6869.7 | 7169.1 | 7308.4 |
| 12.5° | 5442.1 | 5459.6 | 5508.3 | 5616.2 | 5776.4 | 5978.4 | 6260.4 | 6629.5 | 6674.7 | 7069.9 | 7275.3 |
| 15° | 5241.9 | 5275.0 | 5315.1 | 5403.8 | 5572.7 | 5767.7 | 6041.0 | 6438.0 | 6474.5 | 6965.5 | 7252.7 |
| 17.5° | 5156.6 | 5172.3 | 5200.2 | 5282.0 | 5405.6 | 5597.1 | 5872.2 | 6288.2 | 6331.8 | 6892.3 | 7247.5 |
| 20° | 5160.1 | 5175.8 | 5181.0 | 5226.3 | 5315.1 | 5480.4 | 5752.0 | 6169.9 | 6222.1 | 6827.9 | 7256.2 |
| 22.5° | 5278.5 | 5280.2 | 5261.1 | 5245.4 | 5280.2 | 5417.8 | 5666.7 | 6081.1 | 6142.0 | 6800.1 | 7263.2 |
| 25° | 5461.3 | 5492.6 | 5464.8 | 5391.7 | 5327.2 | 5393.4 | 5633.6 | 6032.3 | 6089.8 | 6760.0 | 7254.5 |
| 27.5° | 5757.3 | 5762.5 | 5739.8 | 5640.6 | 5473.5 | 5424.7 | 5619.7 | 5995.8 | 6044.5 | 6730.4 | 7210.9 |
| 30° | 6154.2 | 6138.5 | 6117.6 | 6007.9 | 5745.1 | 5544.9 | 5649.3 | 5962.7 | 6013.2 | 6686.9 | 7158.7 |
| 32.5° | 6556.3 | 6605.1 | 6585.9 | 6457.1 | 6115.9 | 5778.1 | 5745.1 | 5959.2 | 6001.0 | 6653.8 | 7101.3 |
| 35° | 6982.9 | 7005.5 | 7096.0 | 7029.9 | 6679.9 | 6155.9 | 5924.4 | 6013.2 | 6046.2 | 6655.6 | 7061.2 |
| 37.5° | 7317.1 | 7378.1 | 7590.5 | 7647.9 | 7318.9 | 6655.6 | 6215.1 | 6166.4 | 6180.3 | 6740.9 | 7076.9 |
| 40° | 7721.0 | 7825.5 | 8098.8 | 8333.8 | 8118.0 | 7304.9 | 6709.5 | 6450.1 | 6467.6 | 6946.3 | 7179.6 |
| 42.5° | 8232.9 | 8306.0 | 8673.3 | 8991.9 | 8957.1 | 8163.2 | 7308.4 | 6915.0 | 6923.7 | 7355.4 | 7466.8 |
| 45° | 8831.7 | 8936.2 | 9348.8 | 9827.5 | 9909.4 | 9134.7 | 8173.7 | 7618.3 | 7613.1 | 7990.9 | 8003.1 |
| 47.5° | 9597.7 | 9662.2 | 10071.3 | 10593.6 | 10924.3 | 10355.0 | 9223.4 | 8628.0 | 8572.3 | 8917.0 | 8817.8 |
| 50° | 10302.8 | 10403.8 | 10713.7 | 11284.7 | 12108.2 | 11784.4 | 10604.0 | 9937.2 | 9806.7 | 10128.7 | 9961.6 |
| 52.5° | 10598.8 | 10705.0 | 10966.1 | 11674.7 | 13123.1 | 13633.2 | 12357.1 | 11498.8 | 11281.2 | 11528.4 | 11467.5 |
| 55° | 10085.2 | 10222.7 | 10466.5 | 11328.2 | 13568.8 | 15765.9 | 14721.3 | 13304.2 | 13145.8 | 13039.6 | 13057.0 |
| 57.5° | 8704.6 | 8835.2 | 9164.3 | 10114.8 | 13036.1 | 17313.5 | 18097.0 | 15624.8 | 15285.4 | 14796.2 | 14879.7 |
| 60° | 6626.0 | 6707.8 | 6878.4 | 7931.7 | 11457.1 | 17715.7 | 21930.5 | 18558.3 | 18342.4 | 16545.8 | 16605.0 |
| 62.5° | 4705.7 | 4798.0 | 4916.4 | 5442.1 | 8387.8 | 16582.4 | 24931.9 | 22654.7 | 21883.5 | 18358.1 | 18300.7 |
| 65° | 3821.3 | 3758.7 | 3901.4 | 4146.9 | 4921.6 | 12851.5 | 25607.3 | 28340.6 | 27278.6 | 20744.9 | 19947.6 |
| 67.5° | 3142.4 | 3076.2 | 3217.2 | 3654.2 | 3743.0 | 7459.9 | 23173.5 | 32031.4 | 31819.0 | 23340.6 | 21620.6 |
| 69° | 2782.0 | 2747.2 | 2870.8 | 3368.7 | 3593.3 | 5297.6 | 20187.8 | 32544.9 | 32595.4 | 24870.9 | 21878.3 |
| 70° | 2506.9 | 2520.9 | 2641.0 | 3224.2 | 3525.4 | 4368.0 | 17254.4 | 31836.4 | 32264.6 | 25635.2 | 21599.7 |
| 72.5° | 1845.4 | 1875.0 | 2042.1 | 2670.6 | 3461.0 | 3706.4 | 10268.0 | 27807.9 | 28565.2 | 25680.5 | 19759.6 |
| 75° | 1290.0 | 1276.1 | 1424.1 | 2010.8 | 3269.5 | 3673.4 | 6030.6 | 21505.7 | 22364.0 | 22196.9 | 16603.2 |
| 77.5° | 844.4 | 867.0 | 985.4 | 1420.6 | 2750.7 | 3645.5 | 3931.0 | 15257.5 | 15814.6 | 14844.9 | 9820.6 |
| 80° | 595.4 | 593.7 | 659.8 | 969.7 | 2040.4 | 3502.8 | 3219.0 | 9616.9 | 9475.9 | 5833.9 | 2912.6 |
| 82.5° | 341.2 | 365.6 | 442.2 | 682.4 | 1364.9 | 3083.2 | 2961.3 | 4599.5 | 4199.1 | 1662.6 | 983.6 |
| 85° | 189.8 | 198.5 | 262.9 | 412.6 | 797.3 | 2322.4 | 2585.3 | 2092.6 | 1974.2 | 694.6 | 423.0 |
| 87.5° | 60.9 | 66.2 | 109.7 | 208.9 | 362.1 | 1096.8 | 1464.1 | 966.2 | 891.4 | 250.7 | 170.6 |
| 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° | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 | 7259.7 |
| 2.5° | 7270.1 | 7291.0 | 7235.3 | 7181.3 | 7132.6 | 7064.7 | 7003.8 | 6953.3 | 6918.5 | 6913.2 | 6895.8 |
| 5° | 7294.5 | 7296.2 | 7190.0 | 7047.3 | 6908.0 | 6754.8 | 6596.4 | 6483.2 | 6377.0 | 6317.8 | 6288.2 |
| 7.5° | 7311.9 | 7296.2 | 7104.7 | 6873.2 | 6605.1 | 6326.5 | 6048.0 | 5825.2 | 5652.8 | 5584.9 | 5611.0 |
| 10° | 7304.9 | 7256.2 | 6975.9 | 6605.1 | 6215.1 | 5799.0 | 5398.6 | 5085.3 | 4798.0 | 4650.0 | 4653.5 |
| 12.5° | 7266.6 | 7186.6 | 6784.4 | 6303.9 | 5731.1 | 5174.0 | 4561.2 | 4138.2 | 3805.7 | 3608.9 | 3548.0 |
| 15° | 7233.6 | 7094.3 | 6559.8 | 5894.8 | 5182.7 | 4387.1 | 3640.3 | 3118.0 | 2839.5 | 2684.5 | 2682.8 |
| 17.5° | 7198.7 | 7005.5 | 6314.4 | 5461.3 | 4552.5 | 3528.9 | 2745.4 | 2346.8 | 2216.2 | 2231.9 | 2205.8 |
| 20° | 7162.2 | 6901.0 | 6058.4 | 4979.1 | 3784.8 | 2632.3 | 2056.0 | 1894.1 | 1930.7 | 2002.1 | 2012.5 |
| 22.5° | 7120.4 | 6789.6 | 5783.4 | 4448.1 | 2977.0 | 1981.2 | 1667.8 | 1643.4 | 1737.4 | 1848.9 | 1864.5 |
| 25° | 7056.0 | 6650.4 | 5436.9 | 3892.7 | 2296.3 | 1596.4 | 1460.6 | 1478.0 | 1570.3 | 1664.3 | 1674.8 |
| 27.5° | 6965.5 | 6478.0 | 5087.0 | 3199.8 | 1725.3 | 1370.1 | 1335.3 | 1357.9 | 1403.2 | 1460.6 | 1474.6 |
| 30° | 6843.6 | 6283.0 | 4684.8 | 2600.9 | 1382.3 | 1257.0 | 1243.0 | 1255.2 | 1281.3 | 1305.7 | 1312.7 |
| 32.5° | 6721.7 | 6095.0 | 4279.2 | 1991.6 | 1232.6 | 1182.1 | 1168.2 | 1168.2 | 1168.2 | 1171.6 | 1173.4 |
| 35° | 6608.6 | 5917.4 | 3844.0 | 1551.2 | 1154.2 | 1122.9 | 1103.7 | 1082.9 | 1079.4 | 1067.2 | 1067.2 |
| 37.5° | 6545.9 | 5755.5 | 3380.9 | 1298.7 | 1096.8 | 1074.2 | 1048.0 | 1013.2 | 994.1 | 995.8 | 992.3 |
| 40° | 6558.1 | 5649.3 | 2959.6 | 1156.0 | 1049.8 | 1025.4 | 985.4 | 945.3 | 933.1 | 933.1 | 929.7 |
| 42.5° | 6695.6 | 5614.5 | 2555.7 | 1081.1 | 1004.5 | 976.7 | 926.2 | 889.6 | 882.7 | 880.9 | 884.4 |
| 45° | 7012.5 | 5699.8 | 2193.6 | 1032.4 | 966.2 | 924.4 | 873.9 | 840.9 | 833.9 | 833.9 | 832.2 |
| 47.5° | 7630.5 | 5976.6 | 1934.2 | 1001.0 | 938.4 | 884.4 | 832.2 | 799.1 | 786.9 | 783.4 | 783.4 |
| 50° | 8591.5 | 6577.2 | 1740.9 | 973.2 | 903.5 | 847.8 | 793.9 | 755.6 | 736.4 | 734.7 | 732.9 |
| 52.5° | 9926.8 | 7513.9 | 1666.1 | 952.3 | 865.2 | 809.5 | 750.3 | 713.8 | 689.4 | 684.2 | 680.7 |
| 55° | 11488.4 | 8821.3 | 1768.8 | 936.6 | 825.2 | 766.0 | 705.1 | 666.8 | 644.1 | 633.7 | 632.0 |
| 57.5° | 13297.2 | 10391.6 | 2158.8 | 915.7 | 788.6 | 719.0 | 659.8 | 621.5 | 597.1 | 585.0 | 581.5 |
| 60° | 14921.5 | 12005.5 | 2839.5 | 903.5 | 757.3 | 668.5 | 607.6 | 572.8 | 550.1 | 537.9 | 536.2 |
| 62.5° | 16706.0 | 13544.4 | 3652.5 | 936.6 | 743.4 | 619.8 | 558.8 | 527.5 | 508.4 | 496.2 | 496.2 |
| 65° | 18612.3 | 15085.2 | 4190.4 | 1048.0 | 764.3 | 581.5 | 506.6 | 480.5 | 463.1 | 454.4 | 452.6 |
| 67.5° | 19897.1 | 15617.9 | 3452.3 | 1162.9 | 816.5 | 539.7 | 456.1 | 435.2 | 424.8 | 416.1 | 416.1 |
| 69° | 19757.8 | 14944.1 | 2547.0 | 1192.5 | 832.2 | 518.8 | 428.3 | 412.6 | 398.7 | 395.2 | 391.7 |
| 70° | 19317.4 | 14176.4 | 2134.4 | 1173.4 | 820.0 | 499.6 | 410.9 | 391.7 | 379.5 | 376.0 | 374.3 |
| 72.5° | 17205.6 | 12294.4 | 1589.5 | 1020.2 | 698.1 | 433.5 | 363.9 | 346.4 | 336.0 | 330.8 | 330.8 |
| 75° | 14294.8 | 10048.6 | 1241.3 | 811.3 | 546.7 | 365.6 | 311.6 | 297.7 | 289.0 | 285.5 | 283.8 |
| 77.5° | 8011.8 | 5611.0 | 891.4 | 635.4 | 414.3 | 296.0 | 261.1 | 249.0 | 240.2 | 236.8 | 236.8 |
| 80° | 2231.9 | 1603.4 | 524.0 | 419.6 | 282.0 | 224.6 | 207.2 | 198.5 | 186.3 | 177.6 | 182.8 |
| 82.5° | 840.9 | 694.6 | 299.4 | 252.4 | 179.3 | 149.7 | 144.5 | 137.5 | 132.3 | 120.1 | 120.1 |
| 85° | 409.1 | 337.7 | 191.5 | 134.1 | 99.2 | 78.3 | 74.9 | 71.4 | 67.9 | 59.2 | 60.9 |
| 87.5° | 141.0 | 149.7 | 83.6 | 48.7 | 29.6 | 19.2 | 15.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 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)