

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: P457109

Luminaire Tested: **GLAN-SA8B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27295 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

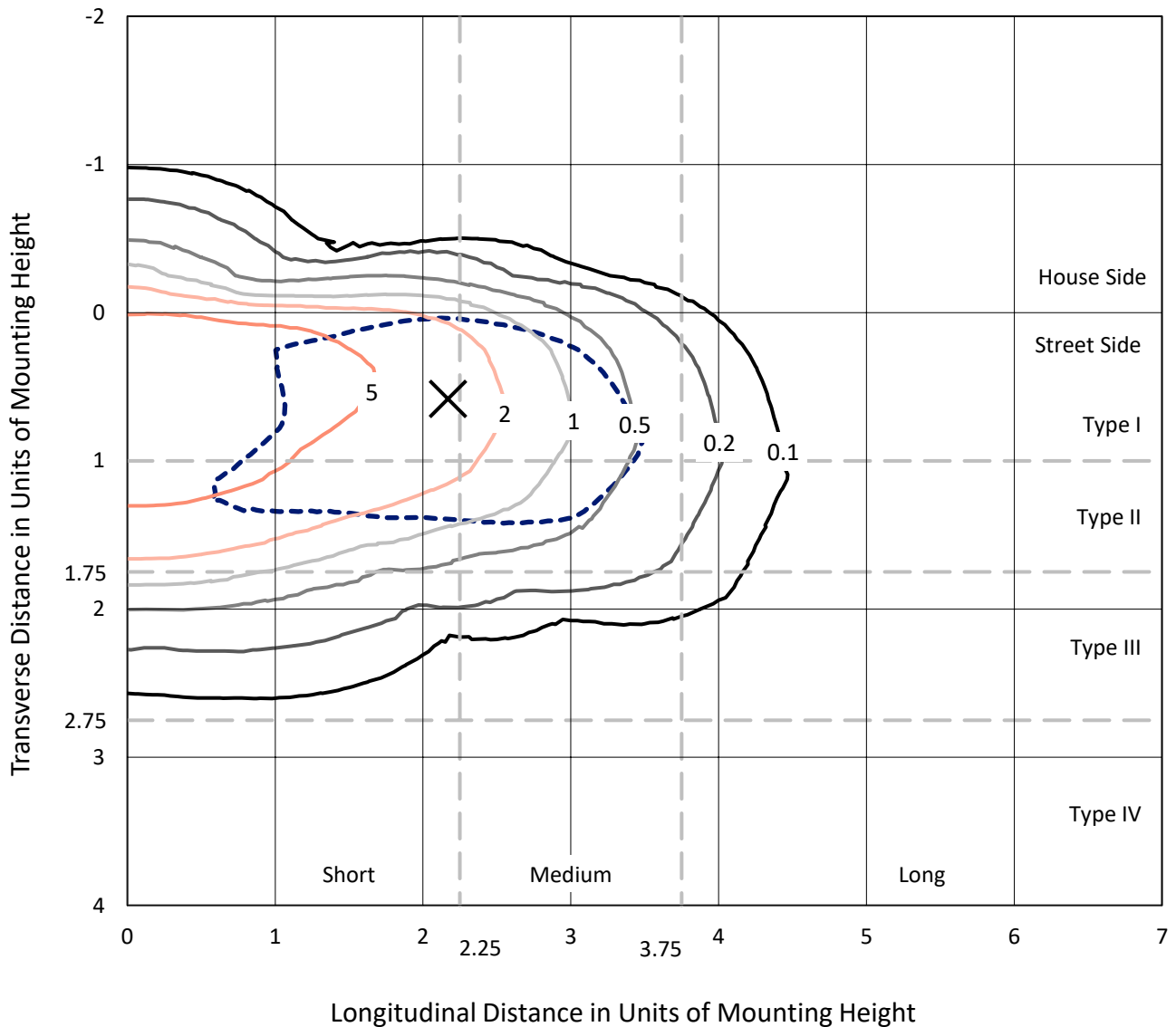
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

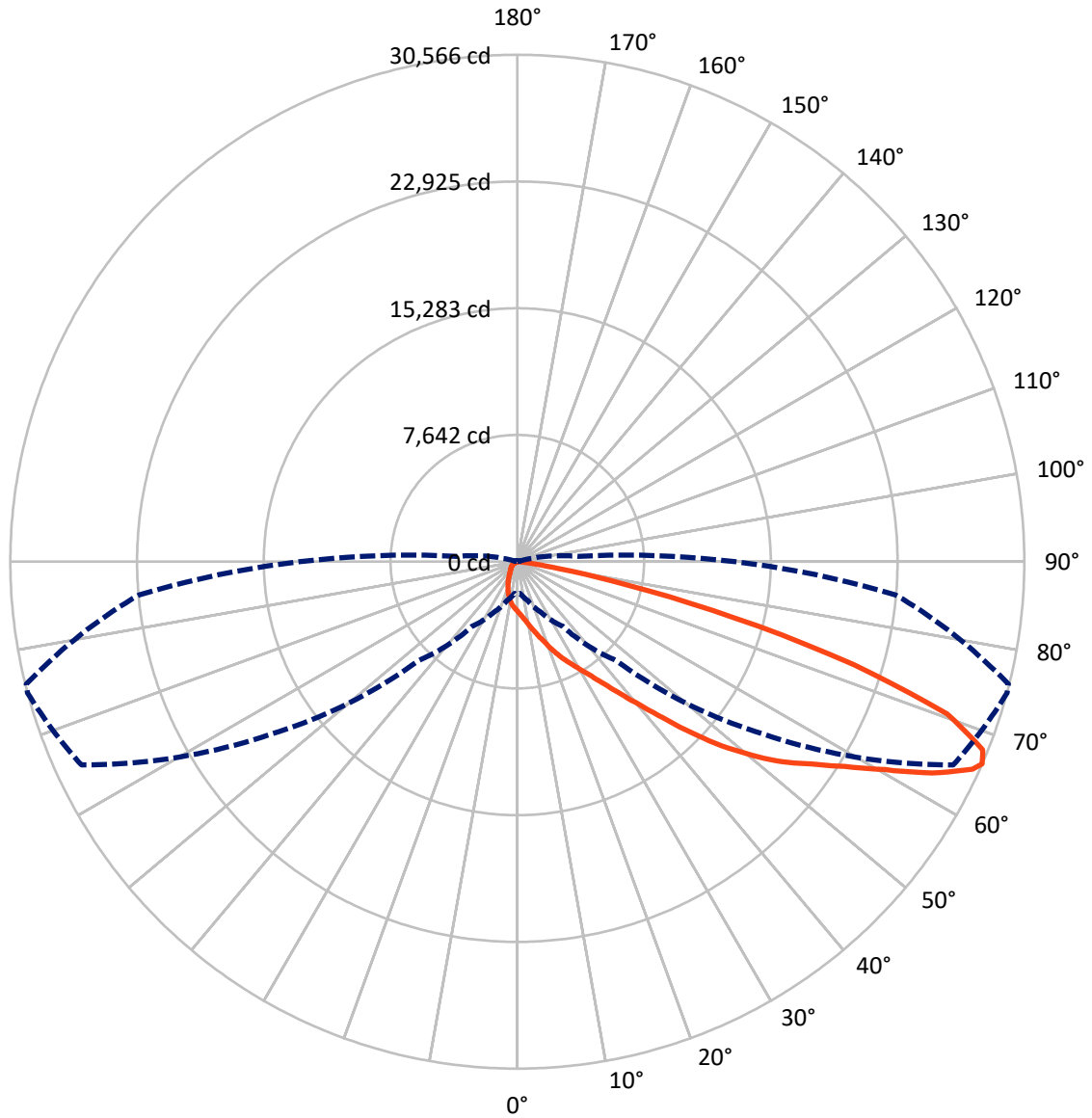
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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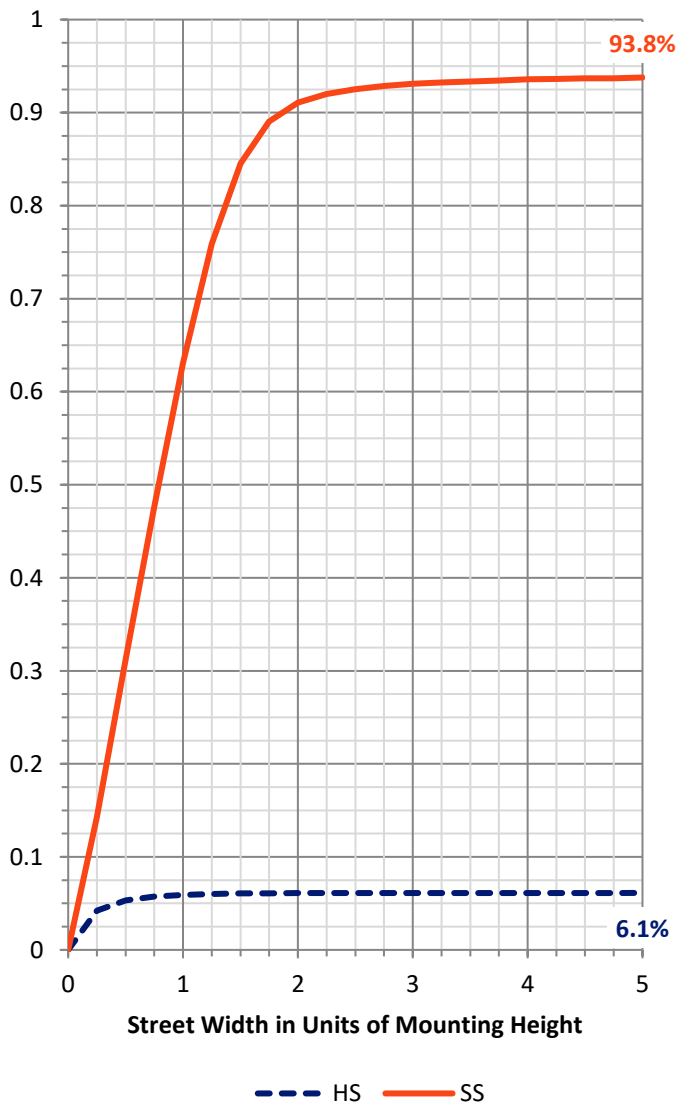
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1685.1 | 0.0 | 1685.1 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 25609.9 | 0.0 | 25609.9 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 27295.0 | 0.0 | 27295.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.9 | 1.1 |
| 10°-20° | 847.3 | 3.1 |
| 20°-30° | 1463.1 | 5.4 |
| 30°-40° | 2639.2 | 9.7 |
| 40°-50° | 4767.8 | 17.5 |
| 50°-60° | 7433.0 | 27.2 |
| 60°-70° | 7061.0 | 25.9 |
| 70°-80° | 2646.3 | 9.7 |
| 80°-90° | 149.3 | 0.5 |
| 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° | 27295.0 | 100.0 |
| 0°-180° | 27295.0 | 100.0 |



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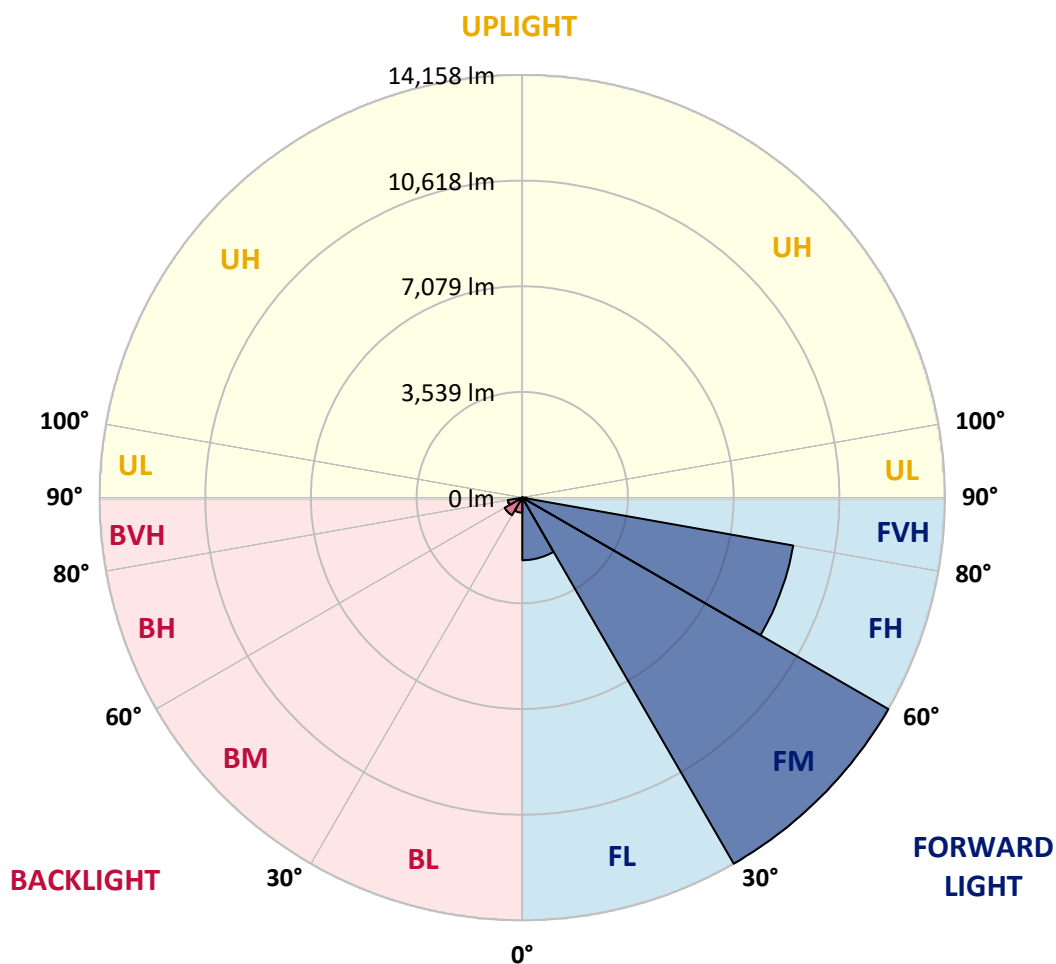
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2095.1 | 7.7 | | | |
| FM | (30°-60°) | 14157.9 | 51.9 | | | |
| FH | (60°-80°) | 9215.3 | 33.8 | | | G4/12000 |
| FVH | (80°-90°) | 141.6 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 503.2 | 1.8 | B2/1000 | | |
| BM | (30°-60°) | 682.1 | 2.5 | B1/1000 | | |
| BH | (60°-80°) | 492.1 | 1.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.7 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 |
| 2.5° | 3566.2 | 3521.8 | 3536.0 | 3515.8 | 3469.4 | 3400.7 | 3340.2 | 3253.4 | 3166.6 | 3152.5 | 3055.6 |
| 5° | 4036.5 | 4024.4 | 4008.2 | 3949.7 | 3917.4 | 3812.5 | 3687.3 | 3538.0 | 3358.4 | 3326.1 | 3150.5 |
| 7.5° | 4357.4 | 4351.3 | 4359.4 | 4329.1 | 4300.9 | 4206.0 | 4072.8 | 3869.0 | 3590.5 | 3572.3 | 3279.6 |
| 10° | 4462.3 | 4478.5 | 4508.7 | 4557.2 | 4601.6 | 4571.3 | 4470.4 | 4216.1 | 3891.2 | 3838.7 | 3427.0 |
| 12.5° | 4401.8 | 4419.9 | 4492.6 | 4621.8 | 4765.1 | 4847.8 | 4807.4 | 4621.8 | 4210.1 | 4167.7 | 3592.5 |
| 15° | 4246.4 | 4268.6 | 4371.5 | 4571.3 | 4827.6 | 5061.7 | 5162.7 | 5029.5 | 4581.4 | 4512.8 | 3792.3 |
| 17.5° | 4016.3 | 4048.6 | 4195.9 | 4460.3 | 4811.5 | 5215.1 | 5499.7 | 5455.3 | 4977.0 | 4912.4 | 4010.2 |
| 20° | 3842.7 | 3866.9 | 3992.1 | 4294.8 | 4742.9 | 5299.9 | 5820.6 | 5945.7 | 5465.4 | 5354.4 | 4266.6 |
| 22.5° | 3957.8 | 3965.8 | 4008.2 | 4189.9 | 4619.8 | 5322.1 | 6103.2 | 6456.4 | 5984.1 | 5885.2 | 4533.0 |
| 25° | 4520.9 | 4440.1 | 4397.7 | 4357.4 | 4593.5 | 5301.9 | 6359.5 | 6989.2 | 6500.8 | 6395.8 | 4797.4 |
| 27.5° | 5408.9 | 5372.6 | 5158.6 | 4872.0 | 4817.5 | 5328.2 | 6529.0 | 7493.7 | 6987.1 | 6874.1 | 5055.7 |
| 30° | 6375.6 | 6313.1 | 6181.9 | 5762.1 | 5340.3 | 5513.8 | 6652.1 | 7984.2 | 7562.3 | 7413.0 | 5291.8 |
| 32.5° | 7263.6 | 7304.0 | 7108.2 | 6676.3 | 6187.9 | 5909.4 | 6811.6 | 8519.0 | 8222.3 | 8036.6 | 5566.3 |
| 35° | 8299.0 | 8379.7 | 8079.0 | 7665.3 | 7094.1 | 6623.9 | 7122.4 | 9122.4 | 9059.9 | 8825.8 | 5990.1 |
| 37.5° | 9350.5 | 9398.9 | 9215.3 | 8634.0 | 8119.4 | 7532.1 | 7707.7 | 9867.2 | 10091.2 | 9891.4 | 6496.7 |
| 40° | 10234.5 | 10301.1 | 10165.9 | 9649.2 | 9100.2 | 8583.6 | 8557.3 | 10678.5 | 11318.3 | 11112.4 | 7251.5 |
| 42.5° | 10910.6 | 10961.1 | 10965.1 | 10599.8 | 10105.3 | 9871.2 | 9641.1 | 11713.9 | 12856.2 | 12618.0 | 8127.5 |
| 45° | 11764.3 | 11837.0 | 11794.6 | 11546.4 | 11177.0 | 11134.6 | 11015.6 | 12965.2 | 14696.8 | 14396.1 | 9263.7 |
| 47.5° | 13084.3 | 13132.7 | 13027.7 | 12735.1 | 12359.7 | 12426.3 | 12355.7 | 14367.9 | 16573.8 | 16315.5 | 10440.4 |
| 50° | 14000.5 | 14081.3 | 14230.6 | 14347.7 | 14075.2 | 13829.0 | 13619.1 | 15677.7 | 18355.9 | 18123.8 | 11643.2 |
| 52.5° | 13990.4 | 14123.6 | 14595.9 | 15185.2 | 15780.6 | 15705.9 | 15102.5 | 17124.8 | 20057.3 | 19770.7 | 12773.4 |
| 55° | 13047.9 | 13306.3 | 14000.5 | 15046.0 | 16694.9 | 17516.3 | 17241.8 | 18799.9 | 21526.6 | 21332.8 | 14083.3 |
| 57.5° | 11102.3 | 11259.8 | 12224.5 | 13685.7 | 16184.3 | 18368.0 | 19720.2 | 21070.4 | 23288.5 | 23197.7 | 16117.7 |
| 60° | 7467.5 | 7538.1 | 8779.3 | 10585.7 | 13778.5 | 17518.3 | 21536.6 | 23817.3 | 25458.1 | 25413.7 | 18493.1 |
| 62.5° | 4278.7 | 4308.9 | 5209.1 | 6732.9 | 9804.6 | 14846.2 | 21690.0 | 27205.9 | 28059.6 | 28083.8 | 21242.0 |
| 65° | 2302.8 | 2319.0 | 3045.5 | 3951.7 | 5965.9 | 10581.6 | 19504.3 | 29062.7 | 30162.6 | 30209.0 | 22945.4 |
| 66° | 1988.0 | 1911.3 | 2423.9 | 3368.4 | 4746.9 | 8422.1 | 18121.8 | 28996.1 | 30566.3 | 30515.8 | 22884.8 |
| 67.5° | 1511.7 | 1580.3 | 1935.5 | 2589.4 | 3517.8 | 5988.1 | 14961.2 | 27706.4 | 30259.5 | 30102.1 | 21954.4 |
| 70° | 1081.8 | 1110.0 | 1378.5 | 1846.7 | 2395.7 | 3285.7 | 9560.4 | 23012.0 | 27502.6 | 27290.7 | 19126.9 |
| 72.5° | 698.3 | 728.6 | 976.8 | 1336.1 | 1731.7 | 1794.2 | 5352.4 | 16626.3 | 21203.6 | 21173.4 | 14404.2 |
| 75° | 498.5 | 526.8 | 645.8 | 956.6 | 1301.8 | 1110.0 | 2577.3 | 11205.3 | 13479.8 | 13389.0 | 8910.5 |
| 77.5° | 361.3 | 375.4 | 431.9 | 625.7 | 930.4 | 795.2 | 1194.8 | 5984.1 | 6710.7 | 7027.5 | 3937.6 |
| 80° | 207.9 | 220.0 | 300.7 | 381.4 | 629.7 | 542.9 | 571.2 | 2401.7 | 2476.4 | 2357.3 | 1231.1 |
| 82.5° | 102.9 | 117.1 | 179.6 | 260.4 | 393.6 | 365.3 | 262.4 | 722.5 | 762.9 | 742.7 | 310.8 |
| 85° | 24.2 | 30.3 | 100.9 | 171.6 | 191.7 | 163.5 | 127.1 | 211.9 | 262.4 | 256.3 | 119.1 |
| 87.5° | 2.0 | 4.0 | 36.3 | 30.3 | 32.3 | 54.5 | 44.4 | 54.5 | 84.8 | 78.7 | 42.4 |
| 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° | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 | 2985.0 |
| 2.5° | 3011.2 | 2972.9 | 2861.9 | 2752.9 | 2662.1 | 2567.2 | 2480.4 | 2430.0 | 2409.8 | 2387.6 | 2397.7 |
| 5° | 3053.6 | 2960.8 | 2736.7 | 2543.0 | 2353.3 | 2191.8 | 2062.6 | 1979.9 | 1939.5 | 1933.5 | 1923.4 |
| 7.5° | 3110.1 | 2950.7 | 2603.5 | 2300.8 | 2052.6 | 1872.9 | 1725.6 | 1606.5 | 1570.2 | 1537.9 | 1511.7 |
| 10° | 3178.7 | 2932.5 | 2438.0 | 2046.5 | 1782.1 | 1556.1 | 1362.3 | 1221.0 | 1148.4 | 1128.2 | 1142.3 |
| 12.5° | 3251.4 | 2898.2 | 2264.5 | 1812.4 | 1507.6 | 1219.0 | 1039.4 | 968.8 | 948.6 | 940.5 | 942.5 |
| 15° | 3324.0 | 2855.8 | 2082.8 | 1586.3 | 1200.9 | 972.8 | 890.0 | 871.9 | 863.8 | 859.8 | 855.7 |
| 17.5° | 3390.6 | 2787.2 | 1879.0 | 1366.3 | 972.8 | 831.5 | 801.2 | 785.1 | 768.9 | 762.9 | 752.8 |
| 20° | 3469.4 | 2708.5 | 1695.3 | 1120.1 | 823.4 | 752.8 | 716.5 | 686.2 | 662.0 | 645.8 | 643.8 |
| 22.5° | 3544.0 | 2607.6 | 1503.6 | 928.4 | 750.8 | 676.1 | 617.6 | 585.3 | 557.0 | 536.9 | 542.9 |
| 25° | 3584.4 | 2484.5 | 1332.0 | 809.3 | 684.2 | 599.4 | 534.8 | 494.5 | 464.2 | 454.1 | 452.1 |
| 27.5° | 3584.4 | 2333.1 | 1164.5 | 740.7 | 623.6 | 530.8 | 464.2 | 425.8 | 405.7 | 391.5 | 393.6 |
| 30° | 3556.1 | 2165.6 | 1009.1 | 688.2 | 571.2 | 470.3 | 407.7 | 373.4 | 357.2 | 347.1 | 345.1 |
| 32.5° | 3533.9 | 2006.1 | 875.9 | 637.8 | 516.7 | 417.8 | 363.3 | 337.0 | 320.9 | 310.8 | 310.8 |
| 35° | 3568.2 | 1868.9 | 773.0 | 587.3 | 466.2 | 377.4 | 329.0 | 304.8 | 288.6 | 280.5 | 278.5 |
| 37.5° | 3659.1 | 1743.8 | 694.3 | 532.8 | 419.8 | 343.1 | 304.8 | 276.5 | 260.4 | 250.3 | 246.2 |
| 40° | 3883.1 | 1673.1 | 635.7 | 482.4 | 375.4 | 314.8 | 276.5 | 250.3 | 230.1 | 220.0 | 218.0 |
| 42.5° | 4242.3 | 1675.1 | 579.2 | 435.9 | 341.1 | 290.6 | 252.3 | 222.0 | 199.8 | 189.7 | 187.7 |
| 45° | 4783.2 | 1751.8 | 534.8 | 391.5 | 310.8 | 264.4 | 226.0 | 193.8 | 173.6 | 163.5 | 163.5 |
| 47.5° | 5431.1 | 1901.2 | 496.5 | 353.2 | 282.6 | 240.2 | 199.8 | 167.5 | 147.3 | 139.3 | 139.3 |
| 50° | 6133.4 | 2094.9 | 458.1 | 312.8 | 258.3 | 213.9 | 171.6 | 145.3 | 129.2 | 123.1 | 123.1 |
| 52.5° | 6849.9 | 2329.0 | 419.8 | 280.5 | 232.1 | 185.7 | 147.3 | 129.2 | 115.0 | 111.0 | 109.0 |
| 55° | 7790.4 | 2627.7 | 379.4 | 246.2 | 203.8 | 159.4 | 131.2 | 113.0 | 96.9 | 90.8 | 88.8 |
| 57.5° | 9237.5 | 3077.8 | 335.0 | 216.0 | 167.5 | 133.2 | 113.0 | 94.9 | 76.7 | 66.6 | 64.6 |
| 60° | 10983.3 | 3626.8 | 288.6 | 189.7 | 135.2 | 109.0 | 90.8 | 72.7 | 56.5 | 44.4 | 42.4 |
| 62.5° | 12618.0 | 3975.9 | 244.2 | 159.4 | 107.0 | 82.7 | 64.6 | 54.5 | 40.4 | 28.3 | 26.2 |
| 65° | 13340.6 | 3858.9 | 201.8 | 129.2 | 84.8 | 58.5 | 42.4 | 38.3 | 24.2 | 12.1 | 10.1 |
| 66° | 13100.4 | 3685.3 | 185.7 | 117.1 | 76.7 | 50.5 | 36.3 | 32.3 | 18.2 | 6.1 | 6.1 |
| 67.5° | 12392.0 | 3275.6 | 161.5 | 100.9 | 66.6 | 40.4 | 28.3 | 24.2 | 10.1 | 2.0 | 0.0 |
| 70° | 10618.0 | 2650.0 | 127.1 | 74.7 | 48.4 | 28.3 | 16.1 | 12.1 | 6.1 | 0.0 | 0.0 |
| 72.5° | 8155.7 | 1973.8 | 100.9 | 56.5 | 34.3 | 16.1 | 8.1 | 4.0 | 6.1 | 0.0 | 0.0 |
| 75° | 4997.2 | 1128.2 | 78.7 | 42.4 | 22.2 | 10.1 | 6.1 | 0.0 | 6.1 | 2.0 | 0.0 |
| 77.5° | 2218.0 | 506.6 | 52.5 | 28.3 | 16.1 | 8.1 | 4.0 | 0.0 | 4.0 | 2.0 | 0.0 |
| 80° | 561.1 | 165.5 | 30.3 | 20.2 | 12.1 | 6.1 | 2.0 | 0.0 | 4.0 | 4.0 | 2.0 |
| 82.5° | 153.4 | 60.5 | 22.2 | 16.1 | 10.1 | 6.1 | 2.0 | 0.0 | 4.0 | 4.0 | 4.0 |
| 85° | 60.5 | 28.3 | 20.2 | 16.1 | 12.1 | 6.1 | 2.0 | 0.0 | 4.0 | 4.0 | 4.0 |
| 87.5° | 28.3 | 20.2 | 20.2 | 18.2 | 14.1 | 6.1 | 2.0 | 0.0 | 4.0 | 2.0 | 4.0 |
| 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)