

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: P648890

Luminaire Tested: **GLAN-SA4C-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21900.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

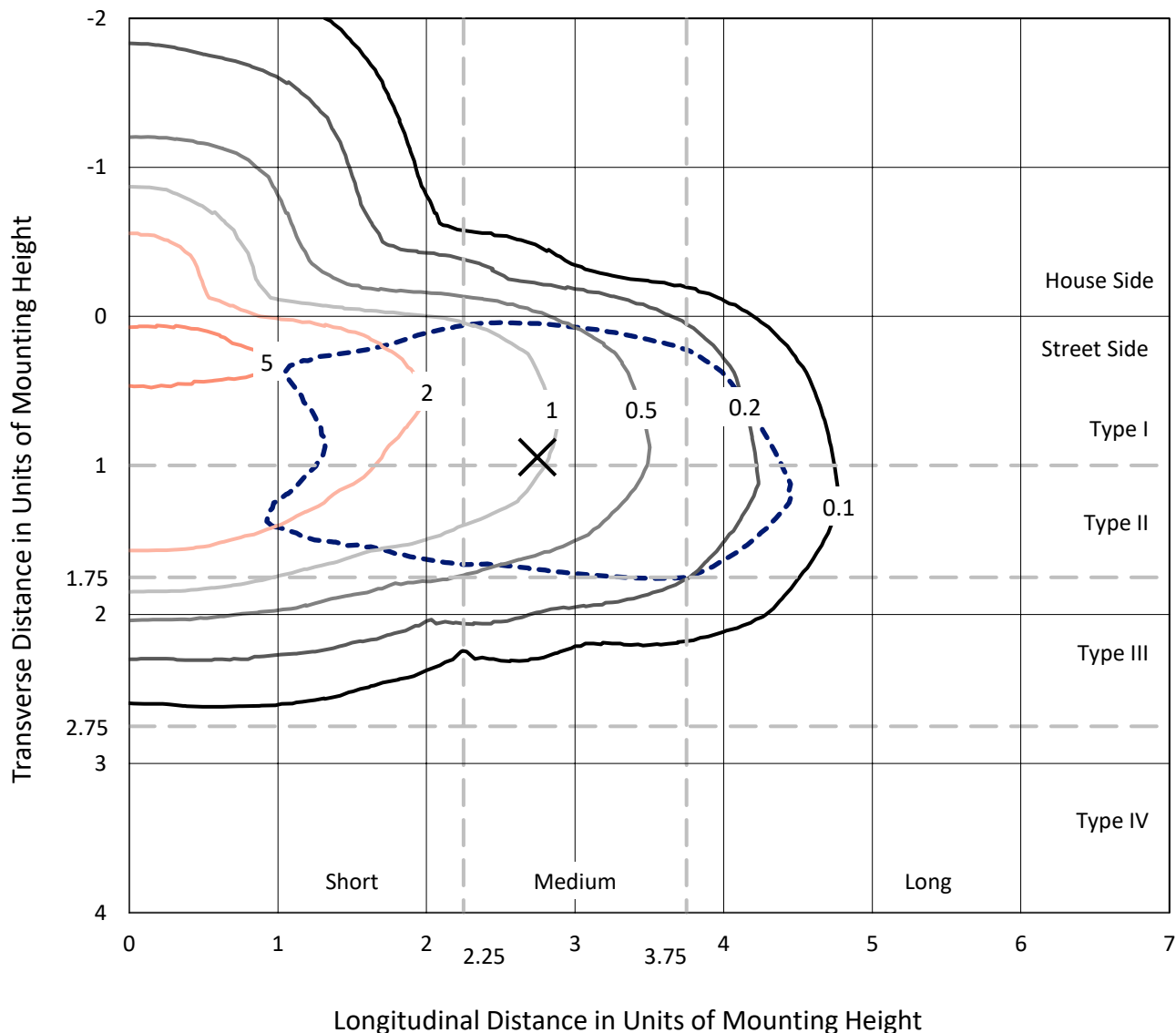
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

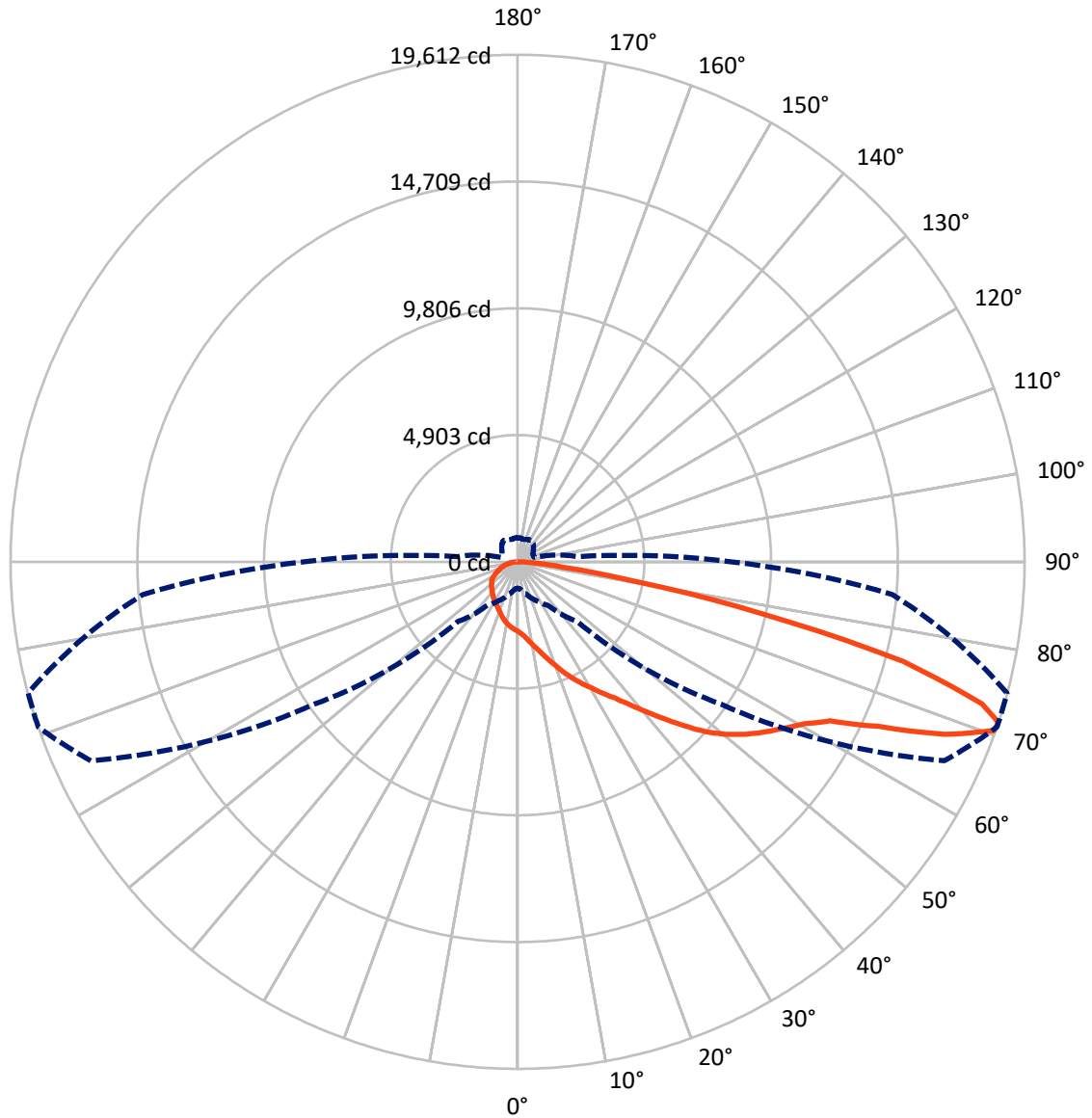
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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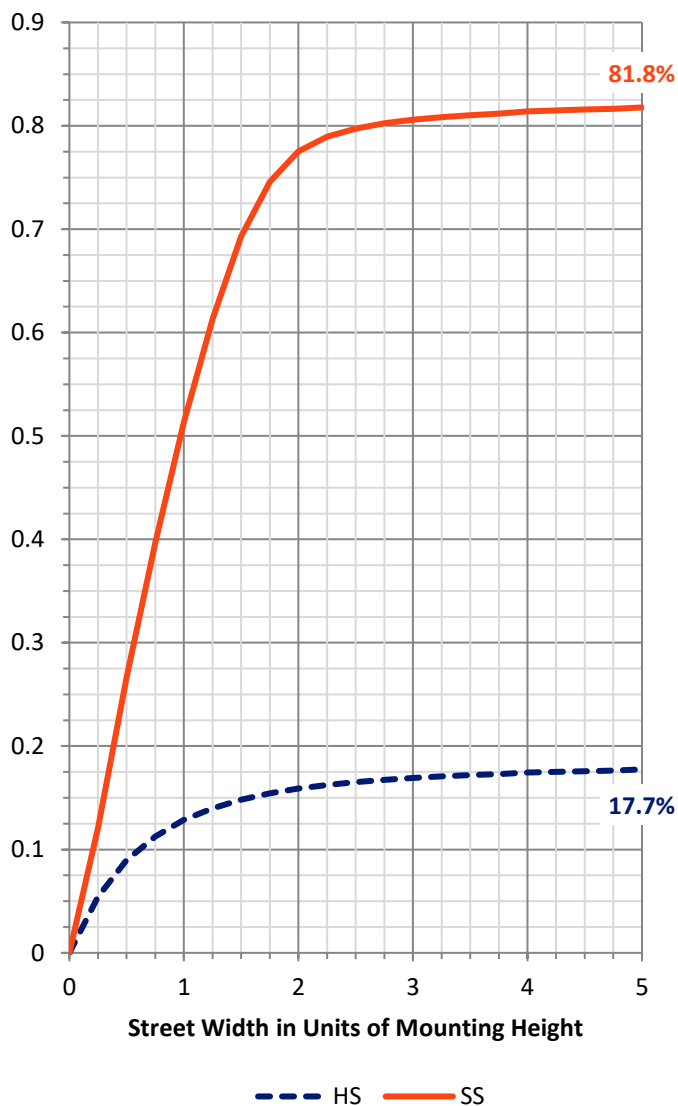
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3938.8 | 0.0 | 3938.8 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 17961.8 | 0.0 | 17961.8 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 21900.5 | 0.0 | 21900.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.9 | 1.2 |
| 10°-20° | 876.8 | 4.0 |
| 20°-30° | 1532.3 | 7.0 |
| 30°-40° | 2279.1 | 10.4 |
| 40°-50° | 3358.0 | 15.3 |
| 50°-60° | 4701.2 | 21.5 |
| 60°-70° | 5258.1 | 24.0 |
| 70°-80° | 3211.9 | 14.7 |
| 80°-90° | 413.2 | 1.9 |
| 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° | 21900.5 | 100.0 |
| 0°-180° | 21900.5 | 100.0 |

Coefficient of Utilization

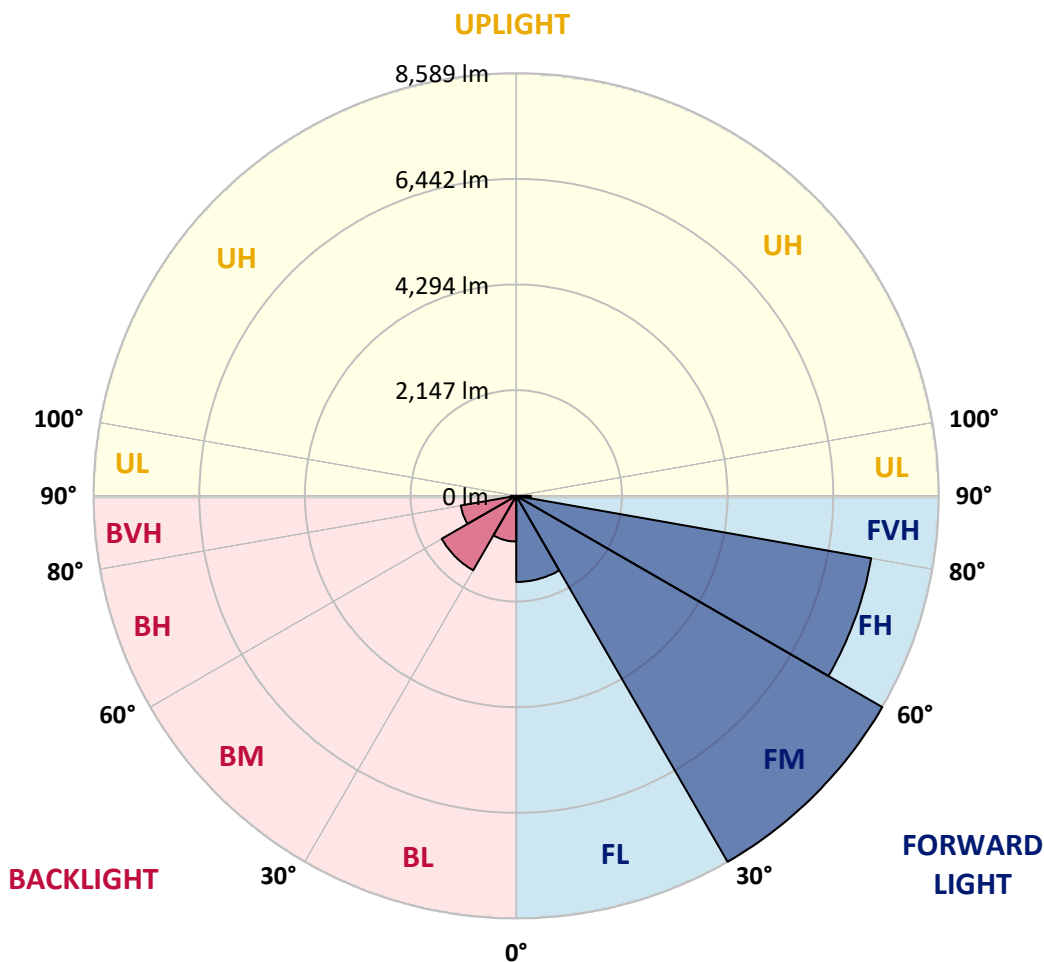


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1749.9 | 8.0 | | | |
| FM (30°-60°) | 8589.0 | 39.2 | | | |
| FH (60°-80°) | 7325.7 | 33.4 | | | G3/7500 |
| FVH (80°-90°) | 297.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 929.1 | 4.2 | B2/1000 | | |
| BM (30°-60°) | 1749.4 | 8.0 | B2/2500 | | |
| BH (60°-80°) | 1144.4 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 115.9 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 |
| 2.5° | 2983.9 | 2969.5 | 2970.7 | 2950.3 | 2923.8 | 2894.9 | 2854.0 | 2817.9 | 2789.0 | 2772.1 | 2722.7 |
| 5° | 3306.5 | 3292.1 | 3274.0 | 3229.5 | 3210.2 | 3139.2 | 3049.0 | 2967.1 | 2904.5 | 2869.6 | 2770.9 |
| 7.5° | 3567.7 | 3564.1 | 3559.4 | 3534.1 | 3484.7 | 3386.0 | 3309.0 | 3166.9 | 3074.2 | 3008.1 | 2839.5 |
| 10° | 3729.0 | 3735.1 | 3738.7 | 3743.5 | 3723.0 | 3671.3 | 3565.3 | 3386.0 | 3268.0 | 3183.8 | 2928.6 |
| 12.5° | 3810.9 | 3816.9 | 3837.4 | 3882.0 | 3909.6 | 3903.6 | 3816.9 | 3641.2 | 3478.7 | 3367.9 | 3023.7 |
| 15° | 3861.4 | 3871.1 | 3907.2 | 3966.2 | 4058.8 | 4117.9 | 4075.7 | 3913.2 | 3735.1 | 3603.8 | 3136.9 |
| 17.5° | 3916.8 | 3927.7 | 3967.4 | 4051.6 | 4173.2 | 4300.8 | 4346.5 | 4206.9 | 4013.1 | 3856.7 | 3263.2 |
| 20° | 3948.1 | 3962.6 | 4019.1 | 4129.9 | 4271.9 | 4457.3 | 4609.0 | 4535.5 | 4323.6 | 4150.4 | 3408.9 |
| 22.5° | 3998.7 | 4010.7 | 4058.8 | 4176.8 | 4346.5 | 4578.8 | 4871.4 | 4855.7 | 4669.1 | 4445.2 | 3569.0 |
| 25° | 4135.9 | 4155.1 | 4179.3 | 4250.3 | 4413.9 | 4702.9 | 5089.3 | 5197.6 | 5003.8 | 4753.4 | 3715.8 |
| 27.5° | 4394.7 | 4410.3 | 4409.2 | 4418.8 | 4511.5 | 4810.0 | 5278.2 | 5535.8 | 5336.0 | 5065.1 | 3857.8 |
| 30° | 4689.6 | 4695.7 | 4700.4 | 4678.7 | 4699.3 | 4919.5 | 5451.6 | 5870.5 | 5670.6 | 5385.3 | 3981.9 |
| 32.5° | 5048.3 | 5060.4 | 5019.4 | 4964.1 | 4947.2 | 5082.0 | 5594.8 | 6205.0 | 6066.6 | 5710.3 | 4104.6 |
| 35° | 5472.0 | 5503.3 | 5420.2 | 5322.8 | 5254.2 | 5315.6 | 5787.4 | 6546.9 | 6472.3 | 6125.6 | 4267.1 |
| 37.5° | 5955.9 | 5994.4 | 5917.4 | 5726.0 | 5628.5 | 5645.4 | 6039.0 | 6969.4 | 6985.1 | 6598.7 | 4509.1 |
| 40° | 6351.9 | 6402.4 | 6404.9 | 6134.0 | 5986.0 | 6005.2 | 6358.0 | 7424.4 | 7603.8 | 7183.6 | 4794.3 |
| 42.5° | 6613.1 | 6662.5 | 6714.2 | 6555.4 | 6400.1 | 6509.6 | 6729.9 | 7917.9 | 8299.5 | 7893.8 | 5192.8 |
| 45° | 6899.6 | 6944.1 | 6973.0 | 6900.8 | 6814.1 | 7098.2 | 7178.9 | 8442.7 | 9041.0 | 8687.1 | 5628.5 |
| 47.5° | 7231.8 | 7281.2 | 7308.8 | 7240.2 | 7207.7 | 7614.6 | 7662.8 | 8932.6 | 9833.0 | 9457.5 | 6110.0 |
| 50° | 7674.8 | 7712.1 | 7697.7 | 7654.3 | 7647.1 | 8010.6 | 8127.4 | 9391.2 | 10486.6 | 10286.8 | 6609.5 |
| 52.5° | 8226.0 | 8270.6 | 8286.3 | 8224.9 | 8197.1 | 8293.5 | 8501.7 | 9809.0 | 11081.3 | 10999.3 | 7142.8 |
| 55° | 8559.5 | 8630.5 | 8868.8 | 8965.1 | 9031.4 | 8659.4 | 8905.0 | 10269.9 | 11614.5 | 11750.5 | 7715.7 |
| 57.5° | 8132.2 | 8223.7 | 8756.9 | 9238.4 | 9860.7 | 9574.2 | 9476.7 | 10751.5 | 12147.7 | 12478.7 | 8401.8 |
| 60° | 7089.8 | 7110.3 | 7797.6 | 8684.6 | 9936.5 | 10750.2 | 10669.5 | 11517.0 | 12725.5 | 13213.0 | 9305.8 |
| 62.5° | 4918.3 | 4961.6 | 5774.2 | 7189.7 | 9000.0 | 11174.0 | 12699.0 | 12838.6 | 13553.7 | 14312.0 | 10631.0 |
| 65° | 2536.2 | 2479.6 | 3219.9 | 4518.7 | 6785.2 | 10167.6 | 14343.2 | 15268.9 | 15349.5 | 16030.8 | 12496.8 |
| 67.5° | 1561.2 | 1586.4 | 1933.1 | 2638.5 | 4011.9 | 7389.5 | 14171.1 | 18238.4 | 17813.5 | 18140.9 | 14228.9 |
| 70° | 1172.4 | 1203.7 | 1442.1 | 1805.5 | 2445.9 | 4225.0 | 11396.6 | 18958.2 | 19551.7 | 19467.4 | 14756.1 |
| 71° | 1019.5 | 1052.0 | 1300.0 | 1643.0 | 2054.7 | 3260.8 | 9601.9 | 18204.8 | 19611.8 | 19597.4 | 14557.5 |
| 72.5° | 869.1 | 889.6 | 1083.4 | 1391.5 | 1732.2 | 2285.8 | 7213.8 | 16327.0 | 18775.2 | 19255.5 | 13848.5 |
| 75° | 682.5 | 698.1 | 784.8 | 1061.7 | 1363.8 | 1403.5 | 3871.1 | 12240.4 | 15420.6 | 16335.3 | 11529.0 |
| 77.5° | 556.1 | 567.0 | 611.4 | 788.4 | 1052.0 | 994.3 | 2030.6 | 7967.3 | 9660.9 | 10581.7 | 6791.3 |
| 80° | 441.8 | 453.8 | 480.3 | 534.5 | 788.4 | 709.0 | 969.0 | 4037.2 | 4666.8 | 4657.1 | 2710.7 |
| 82.5° | 343.0 | 346.6 | 378.0 | 392.4 | 539.3 | 503.2 | 524.8 | 1709.3 | 1893.5 | 1956.0 | 978.6 |
| 85° | 216.7 | 227.5 | 334.7 | 300.9 | 322.6 | 294.9 | 258.8 | 678.9 | 836.6 | 824.5 | 391.2 |
| 87.5° | 66.2 | 69.8 | 113.1 | 127.6 | 143.2 | 128.8 | 95.1 | 199.8 | 244.4 | 264.8 | 97.5 |
| 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° | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 | 2687.9 |
| 2.5° | 2703.5 | 2690.2 | 2643.3 | 2604.8 | 2568.7 | 2528.9 | 2495.3 | 2485.6 | 2477.2 | 2473.6 | 2472.4 |
| 5° | 2728.8 | 2689.1 | 2596.3 | 2520.6 | 2460.3 | 2405.0 | 2370.1 | 2354.4 | 2338.8 | 2338.8 | 2343.6 |
| 7.5° | 2764.9 | 2692.7 | 2549.4 | 2436.3 | 2360.4 | 2308.7 | 2283.4 | 2281.0 | 2284.6 | 2288.2 | 2289.4 |
| 10° | 2804.6 | 2690.2 | 2480.9 | 2340.0 | 2272.6 | 2248.5 | 2249.7 | 2270.2 | 2289.4 | 2303.9 | 2306.2 |
| 12.5° | 2843.2 | 2675.8 | 2400.2 | 2249.7 | 2206.4 | 2211.2 | 2244.9 | 2290.7 | 2327.9 | 2348.5 | 2349.6 |
| 15° | 2886.5 | 2653.0 | 2302.6 | 2164.2 | 2149.8 | 2187.2 | 2249.7 | 2319.6 | 2376.1 | 2409.8 | 2413.4 |
| 17.5° | 2922.5 | 2614.4 | 2200.4 | 2081.2 | 2099.2 | 2167.9 | 2254.5 | 2344.8 | 2413.4 | 2455.6 | 2462.8 |
| 20° | 2963.5 | 2565.1 | 2094.4 | 2001.7 | 2053.5 | 2146.2 | 2244.9 | 2342.4 | 2413.4 | 2454.3 | 2463.9 |
| 22.5° | 2996.0 | 2495.3 | 1993.4 | 1936.8 | 2012.5 | 2119.7 | 2212.4 | 2290.7 | 2348.5 | 2370.1 | 2384.5 |
| 25° | 3009.2 | 2407.4 | 1898.2 | 1883.8 | 1980.1 | 2076.4 | 2139.0 | 2183.5 | 2201.6 | 2199.1 | 2205.2 |
| 27.5° | 3002.0 | 2306.2 | 1816.4 | 1841.7 | 1939.2 | 2008.9 | 2040.3 | 2036.7 | 2004.2 | 1974.1 | 1988.5 |
| 30° | 2972.0 | 2185.9 | 1747.7 | 1798.3 | 1886.2 | 1924.7 | 1919.9 | 1872.9 | 1811.5 | 1755.0 | 1758.6 |
| 32.5° | 2917.8 | 2055.9 | 1684.0 | 1749.0 | 1811.5 | 1828.4 | 1795.9 | 1734.5 | 1646.6 | 1573.2 | 1562.4 |
| 35° | 2872.0 | 1931.9 | 1627.4 | 1692.4 | 1736.9 | 1728.5 | 1697.2 | 1617.8 | 1538.4 | 1473.3 | 1462.5 |
| 37.5° | 2864.8 | 1826.0 | 1573.2 | 1628.6 | 1653.9 | 1641.9 | 1603.3 | 1535.9 | 1507.0 | 1457.7 | 1451.7 |
| 40° | 2903.3 | 1751.4 | 1517.8 | 1561.2 | 1573.2 | 1563.6 | 1521.4 | 1482.9 | 1509.5 | 1497.4 | 1497.4 |
| 42.5° | 3008.1 | 1711.6 | 1468.5 | 1493.8 | 1503.4 | 1510.6 | 1480.6 | 1448.1 | 1480.6 | 1425.1 | 1407.1 |
| 45° | 3174.1 | 1712.9 | 1424.0 | 1427.6 | 1456.5 | 1481.7 | 1461.3 | 1413.2 | 1396.3 | 1285.5 | 1263.9 |
| 47.5° | 3418.5 | 1753.8 | 1387.9 | 1365.0 | 1416.8 | 1458.9 | 1430.0 | 1360.1 | 1285.5 | 1212.1 | 1198.9 |
| 50° | 3703.7 | 1827.2 | 1355.4 | 1300.0 | 1363.8 | 1430.0 | 1408.3 | 1326.5 | 1249.4 | 1204.9 | 1196.5 |
| 52.5° | 4020.3 | 1919.9 | 1315.7 | 1227.7 | 1298.8 | 1416.8 | 1413.2 | 1321.6 | 1215.8 | 1185.6 | 1178.4 |
| 55° | 4411.6 | 2011.4 | 1266.3 | 1143.5 | 1241.0 | 1406.0 | 1399.9 | 1281.9 | 1208.5 | 1186.9 | 1184.4 |
| 57.5° | 4866.6 | 2143.8 | 1195.2 | 1058.1 | 1174.8 | 1361.4 | 1348.2 | 1257.9 | 1184.4 | 1168.8 | 1167.6 |
| 60° | 5599.6 | 2349.6 | 1094.2 | 979.8 | 1107.4 | 1283.1 | 1300.0 | 1216.9 | 1145.9 | 1142.3 | 1141.1 |
| 62.5° | 6563.7 | 2638.5 | 989.5 | 899.2 | 1029.2 | 1182.0 | 1230.2 | 1161.6 | 1105.0 | 1123.1 | 1125.5 |
| 65° | 7895.1 | 2881.7 | 881.1 | 830.5 | 942.5 | 1084.5 | 1164.0 | 1109.8 | 1059.2 | 1094.2 | 1094.2 |
| 67.5° | 8762.9 | 2886.5 | 782.4 | 759.5 | 854.6 | 1002.7 | 1094.2 | 1048.4 | 1000.3 | 1059.2 | 1061.7 |
| 70° | 8582.4 | 2528.9 | 700.6 | 684.9 | 769.1 | 914.8 | 1017.1 | 981.0 | 925.7 | 978.6 | 959.3 |
| 71° | 8291.0 | 2330.4 | 668.1 | 656.0 | 735.5 | 872.7 | 981.0 | 951.0 | 895.5 | 930.4 | 919.6 |
| 72.5° | 7826.5 | 2023.4 | 615.1 | 617.5 | 684.9 | 819.7 | 930.4 | 899.2 | 843.8 | 863.0 | 859.4 |
| 75° | 6615.5 | 1767.0 | 526.0 | 536.8 | 588.6 | 729.4 | 829.4 | 805.2 | 748.7 | 748.7 | 745.1 |
| 77.5° | 4135.9 | 1235.0 | 436.9 | 442.9 | 499.6 | 624.8 | 712.6 | 692.1 | 638.0 | 619.9 | 615.1 |
| 80° | 1543.1 | 638.0 | 341.9 | 349.1 | 384.0 | 492.4 | 589.8 | 570.6 | 515.2 | 494.7 | 475.4 |
| 82.5° | 583.8 | 320.2 | 251.6 | 245.5 | 282.9 | 375.5 | 462.2 | 439.3 | 396.0 | 346.6 | 332.2 |
| 85° | 220.3 | 158.9 | 154.1 | 149.2 | 166.1 | 222.7 | 286.5 | 281.6 | 235.9 | 201.0 | 197.4 |
| 87.5° | 57.8 | 51.8 | 60.2 | 44.6 | 47.0 | 42.1 | 43.3 | 18.1 | 8.5 | 3.6 | 2.4 |
| 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)