

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: McGRAW-EDISON

Report Number: P531642

Luminaire Tested: **GALN-SA7A-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17439 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

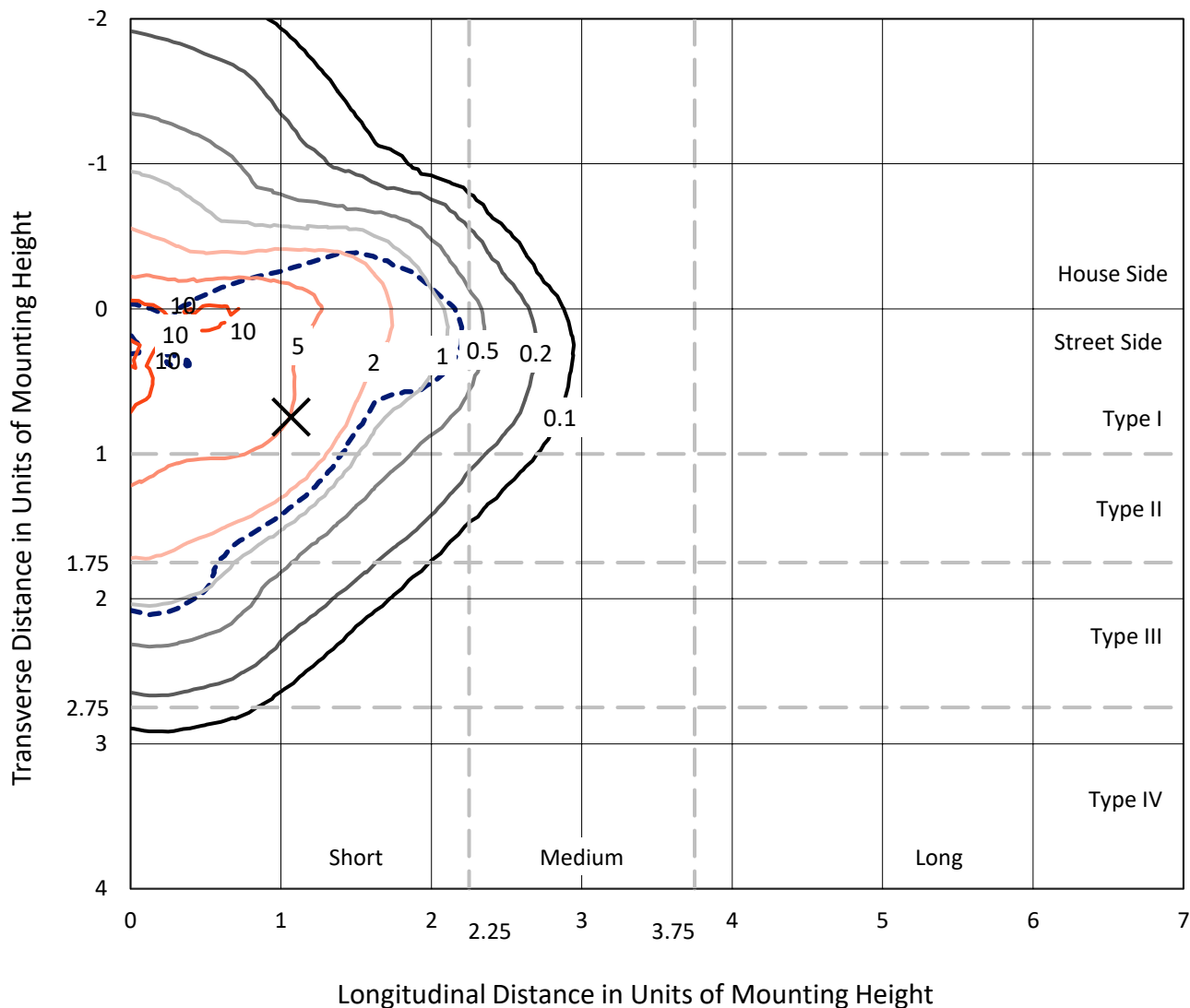
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531642
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Iso-Footcandle Lines of Horizontal Illumination

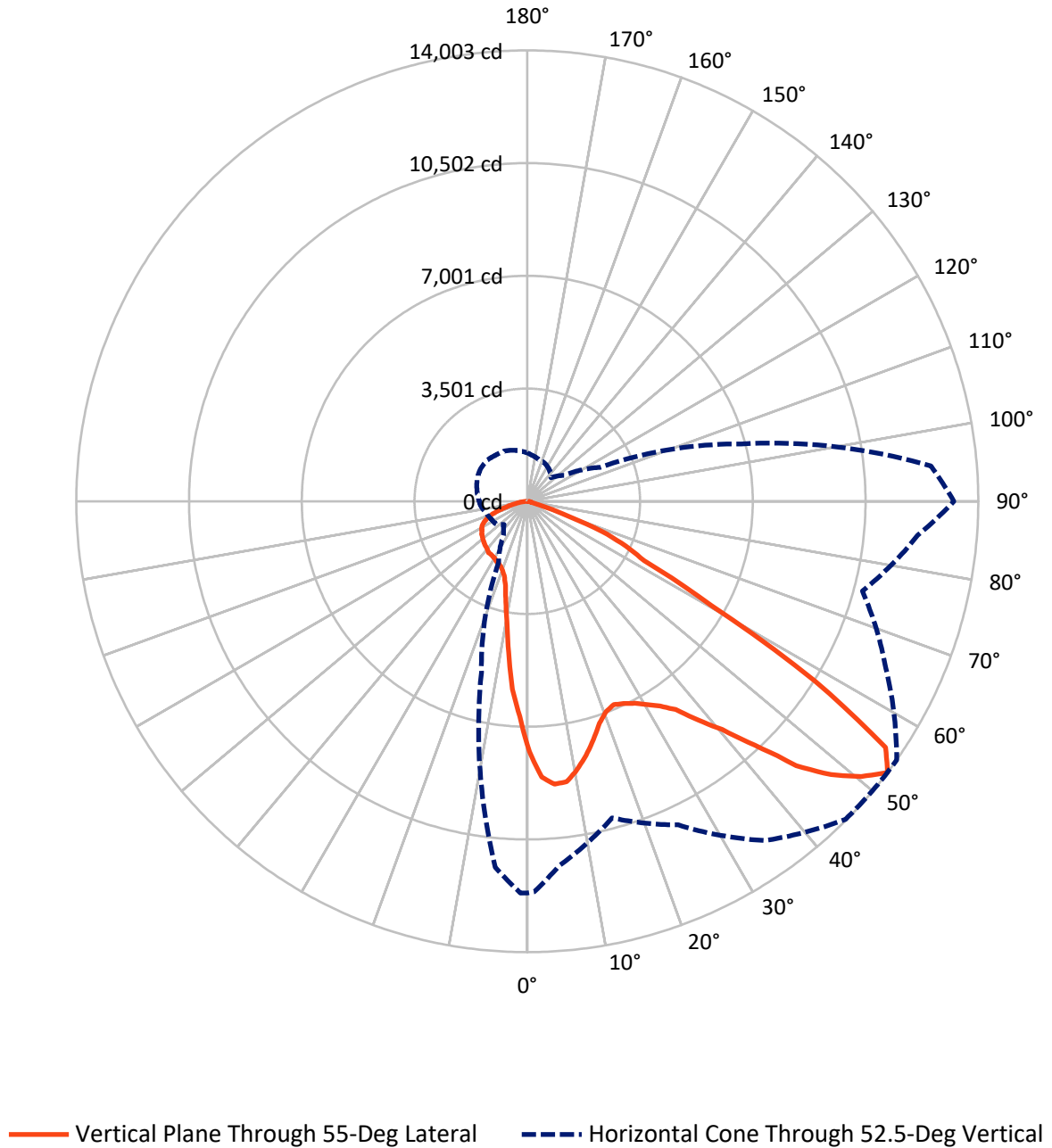
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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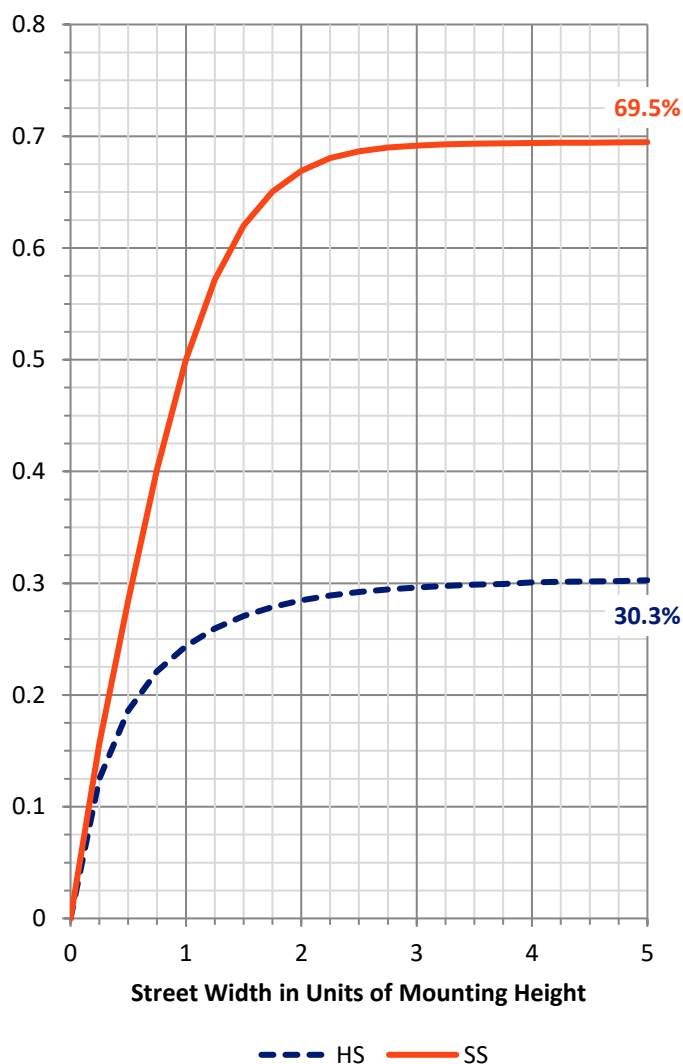
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5319.8 | 0.0 | 5319.8 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 12119.2 | 0.0 | 12119.2 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 17439.0 | 0.0 | 17439.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 594.3 | 3.4 |
| 10°-20° | 1281.4 | 7.3 |
| 20°-30° | 1943.0 | 11.1 |
| 30°-40° | 2807.4 | 16.1 |
| 40°-50° | 3751.4 | 21.5 |
| 50°-60° | 4187.4 | 24.0 |
| 60°-70° | 2297.0 | 13.2 |
| 70°-80° | 496.6 | 2.8 |
| 80°-90° | 80.3 | 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° | 17439.0 | 100.0 |
| 0°-180° | 17439.0 | 100.0 |

Coefficient of Utilization



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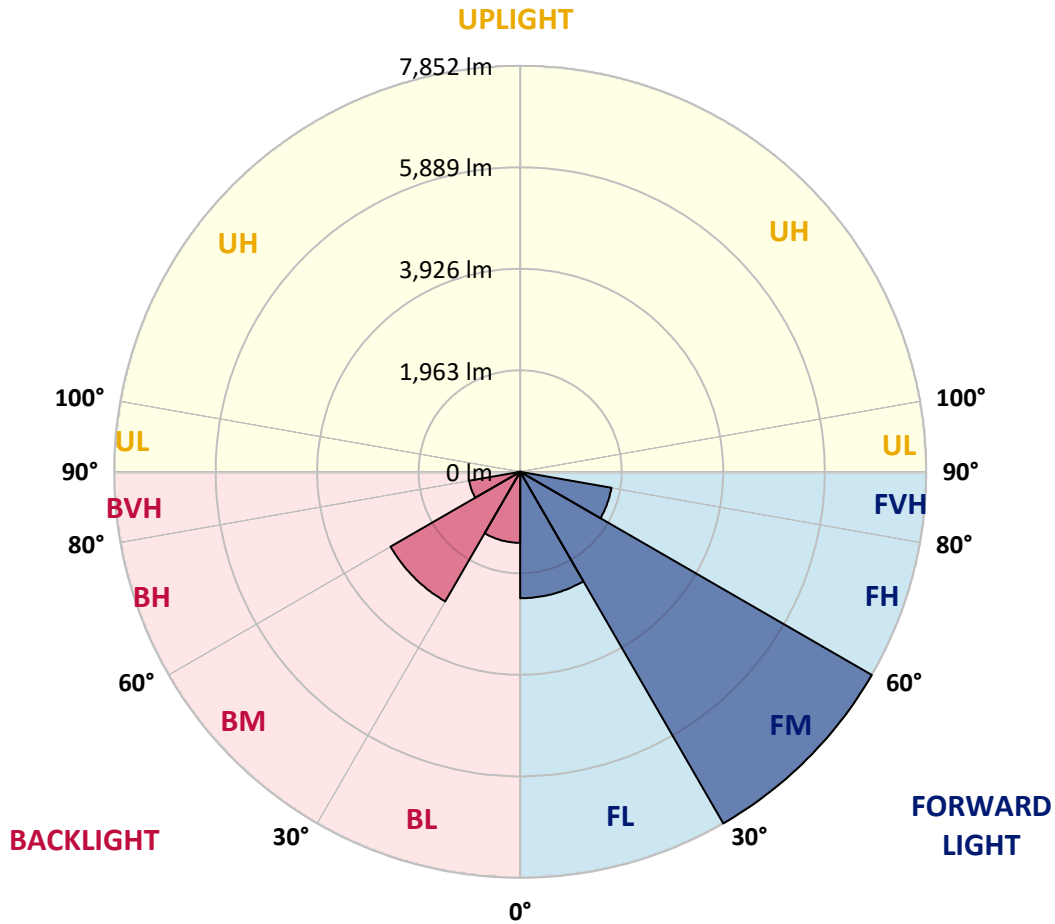
CATALOG NUMBER: GALN-SA7A-722-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2445.3 | 14.0 | | | |
| FM (30°-60°) | 7851.9 | 45.0 | | | |
| FH (60°-80°) | 1792.3 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 29.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1373.5 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 2894.4 | 16.6 | B3/5000 | | |
| BH (60°-80°) | 1001.3 | 5.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 50.6 | 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-G3

Type II Short





REPORT NUMBER: P531642

CATALOG NUMBER: GALN-SA7A-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 |
| 2.5° | 8163.6 | 8117.8 | 8158.6 | 8352.1 | 8464.1 | 8540.5 | 8588.9 | 8581.2 | 8397.9 | 8219.7 | 8219.7 |
| 5° | 7924.3 | 7865.7 | 7949.7 | 8387.7 | 8828.2 | 8866.4 | 8930.1 | 8825.7 | 8555.8 | 8229.8 | 7822.4 |
| 7.5° | 7231.7 | 7275.0 | 7415.0 | 7990.5 | 8563.4 | 8851.2 | 8927.6 | 8795.1 | 8357.2 | 7748.6 | 7150.2 |
| 10° | 6633.3 | 6735.1 | 7058.5 | 7679.8 | 8206.9 | 8581.2 | 8665.3 | 8479.4 | 8133.1 | 7387.0 | 6852.3 |
| 12.5° | 6427.0 | 6363.4 | 6722.4 | 7343.7 | 7847.9 | 8049.1 | 8087.3 | 8100.0 | 7865.7 | 7203.7 | 6551.8 |
| 15° | 6401.6 | 6442.3 | 6722.4 | 7193.5 | 7504.1 | 7514.3 | 7578.0 | 7677.3 | 7707.8 | 7328.4 | 6691.8 |
| 17.5° | 6768.2 | 6719.9 | 7007.6 | 7381.9 | 7234.2 | 7086.5 | 7101.8 | 7244.4 | 7496.5 | 7435.4 | 7132.4 |
| 20° | 7310.6 | 7420.1 | 7646.7 | 7608.5 | 7211.3 | 6837.0 | 6839.5 | 6974.5 | 7471.0 | 7878.5 | 7746.0 |
| 22.5° | 8212.0 | 8319.0 | 8487.0 | 8026.1 | 7211.3 | 6763.1 | 6676.6 | 6859.9 | 7634.0 | 8405.5 | 8438.7 |
| 25° | 9034.5 | 9230.6 | 9276.4 | 8734.0 | 7572.9 | 6831.9 | 6775.9 | 6956.7 | 7797.0 | 8919.9 | 9233.1 |
| 27.5° | 9783.1 | 9854.4 | 10055.6 | 9189.8 | 7774.1 | 6877.7 | 6872.6 | 7104.4 | 8003.2 | 9177.1 | 9943.6 |
| 30° | 10373.9 | 10366.2 | 10480.8 | 9477.6 | 8094.9 | 7134.9 | 6887.9 | 7325.9 | 8273.1 | 9602.3 | 10600.5 |
| 32.5° | 10776.2 | 10862.8 | 11104.7 | 9877.3 | 8229.8 | 7379.4 | 7185.8 | 7585.6 | 8601.6 | 9803.5 | 11064.0 |
| 35° | 11484.1 | 11634.3 | 11328.8 | 10098.9 | 8657.6 | 7621.3 | 7394.6 | 7939.6 | 8764.6 | 10022.5 | 11631.8 |
| 37.5° | 12151.3 | 12036.7 | 11726.0 | 10218.6 | 8935.2 | 8069.4 | 7858.1 | 8624.5 | 9271.3 | 10498.7 | 12008.7 |
| 40° | 12579.0 | 12576.5 | 12023.9 | 10315.3 | 9131.3 | 8754.4 | 8741.7 | 9319.7 | 9892.6 | 10799.1 | 12431.4 |
| 42.5° | 12764.9 | 12943.2 | 12146.2 | 10305.1 | 9543.8 | 9584.5 | 9841.7 | 10358.6 | 10333.1 | 10860.2 | 12421.2 |
| 44° | 13019.6 | 13126.5 | 12357.5 | 10328.1 | 9818.8 | 10144.7 | 10750.8 | 11079.2 | 10717.6 | 10827.1 | 12408.4 |
| 45° | 13009.4 | 13017.0 | 12057.0 | 10358.6 | 10053.0 | 10613.2 | 11155.6 | 11710.7 | 11056.3 | 10755.8 | 12576.5 |
| 47.5° | 12711.5 | 12624.9 | 11802.4 | 10132.0 | 10783.9 | 11850.8 | 12352.4 | 12688.5 | 11473.9 | 10603.1 | 12367.7 |
| 50° | 12123.2 | 12023.9 | 11183.6 | 10035.2 | 10936.6 | 12619.8 | 13312.4 | 13434.6 | 11853.3 | 10452.8 | 12161.4 |
| 52.5° | 12164.0 | 12136.0 | 11359.3 | 10180.4 | 11089.4 | 12861.7 | 13971.9 | 14002.5 | 12283.7 | 10768.6 | 12164.0 |
| 55° | 12892.2 | 12795.5 | 11863.5 | 10361.2 | 10977.4 | 12579.0 | 13551.8 | 13498.3 | 12138.5 | 10577.6 | 12388.1 |
| 57.5° | 11797.3 | 11861.0 | 11165.8 | 9645.6 | 9607.4 | 10226.2 | 10654.0 | 10521.6 | 10129.4 | 9546.3 | 11524.8 |
| 60° | 9518.3 | 9699.1 | 9765.3 | 8066.9 | 7249.5 | 6931.2 | 6803.9 | 6569.6 | 6635.8 | 7842.8 | 10124.3 |
| 62.5° | 8163.6 | 8153.5 | 8568.5 | 7313.2 | 4749.0 | 4084.4 | 4023.3 | 4076.7 | 4840.6 | 7720.6 | 9915.5 |
| 65° | 6472.9 | 6646.0 | 6773.3 | 6197.9 | 3758.4 | 3032.7 | 3030.2 | 3368.8 | 4188.8 | 6452.5 | 8005.8 |
| 67.5° | 4109.8 | 4336.5 | 4494.3 | 3964.7 | 2513.3 | 2159.3 | 2100.8 | 2508.2 | 2902.9 | 4232.1 | 4820.3 |
| 70° | 2317.2 | 2424.1 | 2495.4 | 2286.6 | 1599.1 | 1120.4 | 1054.2 | 1151.0 | 1754.4 | 2739.9 | 2857.0 |
| 72.5° | 893.8 | 942.2 | 1038.9 | 1046.6 | 603.5 | 361.6 | 292.8 | 351.4 | 738.4 | 1084.8 | 1033.8 |
| 75° | 137.5 | 147.7 | 208.8 | 249.5 | 173.2 | 132.4 | 140.1 | 145.1 | 206.3 | 280.1 | 234.3 |
| 77.5° | 66.2 | 66.2 | 63.7 | 73.8 | 86.6 | 94.2 | 101.9 | 112.0 | 122.2 | 135.0 | 129.9 |
| 80° | 43.3 | 43.3 | 43.3 | 50.9 | 63.7 | 76.4 | 86.6 | 91.7 | 96.8 | 106.9 | 101.9 |
| 82.5° | 28.0 | 28.0 | 28.0 | 38.2 | 50.9 | 63.7 | 68.8 | 81.5 | 91.7 | 106.9 | 99.3 |
| 85° | 15.3 | 15.3 | 15.3 | 25.5 | 38.2 | 53.5 | 50.9 | 40.7 | 22.9 | 2.5 | 5.1 |
| 87.5° | 5.1 | 5.1 | 5.1 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 |
| 2.5° | 8005.8 | 7888.6 | 7878.5 | 7639.1 | 7425.2 | 7320.8 | 7236.8 | 7002.5 | 7053.4 | 6918.5 | 6915.9 |
| 5° | 7618.7 | 7379.4 | 6992.3 | 6674.0 | 6355.7 | 6292.1 | 6014.5 | 5772.6 | 5780.2 | 5607.1 | 5637.7 |
| 7.5° | 6923.6 | 6758.1 | 6287.0 | 5787.9 | 5365.2 | 5064.7 | 4802.4 | 4644.6 | 4443.4 | 4374.7 | 4339.0 |
| 10° | 6483.0 | 6279.3 | 5749.7 | 5123.3 | 4649.7 | 4489.2 | 4237.2 | 4097.1 | 3890.8 | 3789.0 | 3717.7 |
| 12.5° | 6289.5 | 5991.6 | 5329.5 | 4692.9 | 4377.2 | 4211.7 | 3997.8 | 3743.2 | 3498.7 | 3404.5 | 3274.6 |
| 15° | 6309.9 | 5953.4 | 5207.3 | 4519.8 | 4140.4 | 3819.5 | 3628.6 | 3345.9 | 3096.4 | 2930.9 | 2836.6 |
| 17.5° | 6618.0 | 6185.1 | 5263.3 | 4387.4 | 3842.5 | 3440.1 | 3065.8 | 2760.3 | 2561.6 | 2436.9 | 2406.3 |
| 20° | 7346.3 | 6758.1 | 5357.6 | 4173.5 | 3544.5 | 3042.9 | 2582.0 | 2263.7 | 2110.9 | 2108.4 | 2110.9 |
| 22.5° | 7952.3 | 7369.2 | 5548.5 | 4046.2 | 3246.6 | 2533.6 | 2075.3 | 1973.4 | 1942.9 | 2006.5 | 2014.2 |
| 25° | 8769.7 | 8056.7 | 5877.0 | 3980.0 | 2971.6 | 2159.3 | 1876.7 | 1838.5 | 1835.9 | 1917.4 | 1920.0 |
| 27.5° | 9607.4 | 8657.6 | 6073.1 | 3786.4 | 2691.5 | 1965.8 | 1757.0 | 1749.4 | 1790.1 | 1876.7 | 1869.0 |
| 30° | 10177.8 | 9161.8 | 6427.0 | 3554.7 | 2360.5 | 1795.2 | 1708.6 | 1718.8 | 1774.8 | 1841.0 | 1851.2 |
| 32.5° | 10842.4 | 9658.4 | 6518.7 | 3427.4 | 2156.8 | 1652.6 | 1591.5 | 1614.4 | 1685.7 | 1790.1 | 1846.1 |
| 35° | 11603.8 | 10009.8 | 6658.7 | 3254.3 | 2080.4 | 1543.1 | 1512.5 | 1538.0 | 1624.6 | 1693.3 | 1754.4 |
| 37.5° | 12166.5 | 10631.1 | 6684.2 | 3119.3 | 1996.3 | 1482.0 | 1433.6 | 1517.6 | 1568.6 | 1665.3 | 1695.9 |
| 40° | 12584.1 | 11081.8 | 6750.4 | 3035.3 | 1930.1 | 1403.0 | 1403.0 | 1459.1 | 1527.8 | 1616.9 | 1678.1 |
| 42.5° | 12851.5 | 11410.3 | 6798.8 | 2958.9 | 1802.8 | 1380.1 | 1367.4 | 1423.4 | 1515.1 | 1601.7 | 1629.7 |
| 44° | 13014.5 | 11550.3 | 6750.4 | 2887.6 | 1767.2 | 1352.1 | 1352.1 | 1400.5 | 1471.8 | 1573.7 | 1606.8 |
| 45° | 13055.2 | 11726.0 | 6643.5 | 2885.0 | 1723.9 | 1319.0 | 1313.9 | 1405.6 | 1454.0 | 1578.7 | 1599.1 |
| 47.5° | 13213.1 | 11942.4 | 6656.2 | 2803.5 | 1619.5 | 1240.1 | 1329.2 | 1369.9 | 1413.2 | 1522.7 | 1591.5 |
| 50° | 13208.0 | 12077.4 | 6628.2 | 2683.9 | 1543.1 | 1151.0 | 1298.6 | 1344.5 | 1387.8 | 1499.8 | 1527.8 |
| 52.5° | 13243.6 | 12581.6 | 6885.4 | 2492.9 | 1405.6 | 1036.4 | 1196.8 | 1298.6 | 1352.1 | 1446.3 | 1504.9 |
| 55° | 13225.8 | 12869.3 | 7140.0 | 2350.3 | 1212.1 | 967.6 | 1110.2 | 1229.9 | 1306.3 | 1405.6 | 1433.6 |
| 57.5° | 12080.0 | 11374.6 | 6607.8 | 2082.9 | 1003.3 | 886.1 | 988.0 | 1158.6 | 1255.4 | 1357.2 | 1392.9 |
| 60° | 9869.7 | 8767.1 | 5449.2 | 1532.9 | 825.0 | 814.8 | 919.2 | 1135.7 | 1176.4 | 1265.5 | 1326.7 |
| 62.5° | 9121.1 | 7690.0 | 4321.2 | 1171.3 | 705.3 | 746.1 | 847.9 | 1026.2 | 1089.8 | 1199.3 | 1255.4 |
| 65° | 7137.5 | 5108.0 | 2676.2 | 791.9 | 621.3 | 669.7 | 766.5 | 898.9 | 1003.3 | 1105.1 | 1171.3 |
| 67.5° | 4227.0 | 2790.8 | 1324.1 | 555.1 | 542.4 | 593.3 | 692.6 | 791.9 | 911.6 | 1023.6 | 1056.7 |
| 70° | 2301.9 | 1372.5 | 565.3 | 422.7 | 460.9 | 506.7 | 603.5 | 672.2 | 786.8 | 873.4 | 929.4 |
| 72.5° | 738.4 | 417.6 | 282.6 | 313.2 | 351.4 | 404.9 | 463.4 | 547.5 | 629.0 | 679.9 | 725.7 |
| 75° | 178.2 | 175.7 | 201.2 | 219.0 | 254.6 | 295.4 | 343.8 | 387.0 | 450.7 | 499.1 | 539.8 |
| 77.5° | 124.8 | 135.0 | 155.3 | 180.8 | 193.5 | 208.8 | 239.4 | 272.5 | 300.5 | 336.1 | 361.6 |
| 80° | 96.8 | 104.4 | 119.7 | 132.4 | 145.1 | 157.9 | 173.2 | 185.9 | 203.7 | 226.6 | 239.4 |
| 82.5° | 91.7 | 96.8 | 112.0 | 119.7 | 114.6 | 112.0 | 122.2 | 127.3 | 129.9 | 137.5 | 145.1 |
| 85° | 7.6 | 0.0 | 5.1 | 17.8 | 43.3 | 63.7 | 68.8 | 68.8 | 66.2 | 71.3 | 71.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 10.2 | 7.6 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 |
| 2.5° | 6885.4 | 6798.8 | 6831.9 | 6872.6 | 6814.1 | 6679.1 | 6714.8 | 6699.5 | 6837.0 | 6826.8 | 6964.3 |
| 5° | 5772.6 | 5637.7 | 5652.9 | 5851.5 | 5787.9 | 5856.6 | 5719.1 | 5701.3 | 5726.8 | 5739.5 | 5762.4 |
| 7.5° | 4417.9 | 4400.1 | 4552.9 | 4721.0 | 4799.9 | 4718.4 | 4583.5 | 4552.9 | 4524.9 | 4468.9 | 4596.2 |
| 10° | 3605.7 | 3610.7 | 3600.6 | 3727.9 | 3817.0 | 3799.2 | 3717.7 | 3707.5 | 3654.0 | 3633.7 | 3705.0 |
| 12.5° | 3218.6 | 3149.9 | 3116.7 | 3076.0 | 3144.8 | 3190.6 | 3154.9 | 3129.5 | 3132.0 | 3157.5 | 3167.7 |
| 15° | 2844.3 | 2801.0 | 2729.7 | 2683.9 | 2717.0 | 2694.1 | 2681.3 | 2732.2 | 2719.5 | 2714.4 | 2775.5 |
| 17.5° | 2424.1 | 2459.8 | 2454.7 | 2403.8 | 2447.1 | 2429.2 | 2426.7 | 2391.0 | 2342.7 | 2307.0 | 2327.4 |
| 20° | 2146.6 | 2212.8 | 2263.7 | 2266.3 | 2289.2 | 2286.6 | 2248.4 | 2138.9 | 2103.3 | 2095.7 | 2100.8 |
| 22.5° | 2047.3 | 2082.9 | 2144.0 | 2230.6 | 2230.6 | 2189.9 | 2144.0 | 2016.7 | 1983.6 | 1948.0 | 1932.7 |
| 25° | 1968.3 | 2037.1 | 2116.0 | 2126.2 | 2167.0 | 2128.8 | 2054.9 | 1991.3 | 1922.5 | 1874.1 | 1874.1 |
| 27.5° | 1927.6 | 2004.0 | 2062.6 | 2080.4 | 2136.4 | 2105.8 | 2029.5 | 1948.0 | 1866.5 | 1863.9 | 1820.7 |
| 30° | 1909.8 | 1981.1 | 2019.3 | 2062.6 | 2088.0 | 2039.6 | 2016.7 | 1930.1 | 1848.7 | 1828.3 | 1757.0 |
| 32.5° | 1856.3 | 1958.2 | 2029.5 | 2019.3 | 2039.6 | 2019.3 | 1986.2 | 1914.9 | 1823.2 | 1777.4 | 1769.7 |
| 35° | 1795.2 | 1897.0 | 1973.4 | 2026.9 | 2039.6 | 1996.3 | 1976.0 | 1879.2 | 1754.4 | 1731.5 | 1652.6 |
| 37.5° | 1762.1 | 1823.2 | 1917.4 | 2004.0 | 2021.8 | 1998.9 | 1930.1 | 1830.8 | 1706.1 | 1680.6 | 1611.8 |
| 40° | 1721.3 | 1800.3 | 1874.1 | 1945.4 | 1998.9 | 1942.9 | 1863.9 | 1767.2 | 1711.2 | 1634.8 | 1614.4 |
| 42.5° | 1690.8 | 1779.9 | 1841.0 | 1920.0 | 1981.1 | 1907.2 | 1815.6 | 1749.4 | 1670.4 | 1619.5 | 1560.9 |
| 44° | 1680.6 | 1762.1 | 1802.8 | 1899.6 | 1950.5 | 1894.5 | 1818.1 | 1749.4 | 1657.7 | 1611.8 | 1560.9 |
| 45° | 1645.0 | 1757.0 | 1800.3 | 1886.9 | 1930.1 | 1884.3 | 1787.5 | 1718.8 | 1652.6 | 1596.6 | 1543.1 |
| 47.5° | 1609.3 | 1685.7 | 1759.5 | 1828.3 | 1858.8 | 1843.6 | 1762.1 | 1678.1 | 1599.1 | 1566.0 | 1515.1 |
| 50° | 1599.1 | 1675.5 | 1744.3 | 1807.9 | 1843.6 | 1813.0 | 1739.2 | 1657.7 | 1566.0 | 1512.5 | 1469.3 |
| 52.5° | 1548.2 | 1642.4 | 1718.8 | 1739.2 | 1785.0 | 1767.2 | 1711.2 | 1622.0 | 1535.5 | 1489.6 | 1454.0 |
| 55° | 1474.3 | 1573.7 | 1678.1 | 1703.5 | 1769.7 | 1741.7 | 1657.7 | 1573.7 | 1499.8 | 1431.1 | 1385.2 |
| 57.5° | 1446.3 | 1543.1 | 1645.0 | 1678.1 | 1718.8 | 1673.0 | 1652.6 | 1563.5 | 1446.3 | 1410.7 | 1339.4 |
| 60° | 1375.0 | 1497.3 | 1581.3 | 1657.7 | 1660.2 | 1647.5 | 1611.8 | 1510.0 | 1413.2 | 1347.0 | 1296.1 |
| 62.5° | 1319.0 | 1433.6 | 1499.8 | 1571.1 | 1614.4 | 1578.7 | 1543.1 | 1448.9 | 1344.5 | 1270.6 | 1212.1 |
| 65° | 1237.5 | 1341.9 | 1398.0 | 1441.2 | 1489.6 | 1484.5 | 1423.4 | 1354.7 | 1245.2 | 1186.6 | 1130.6 |
| 67.5° | 1112.8 | 1204.4 | 1280.8 | 1321.6 | 1352.1 | 1344.5 | 1298.6 | 1250.3 | 1138.2 | 1079.7 | 1038.9 |
| 70° | 962.5 | 1056.7 | 1105.1 | 1128.0 | 1158.6 | 1173.9 | 1138.2 | 1115.3 | 1016.0 | 939.6 | 901.4 |
| 72.5° | 774.1 | 835.2 | 906.5 | 926.9 | 939.6 | 949.8 | 949.8 | 929.4 | 827.6 | 797.0 | 730.8 |
| 75° | 570.4 | 618.8 | 672.2 | 672.2 | 695.2 | 697.7 | 702.8 | 690.1 | 613.7 | 572.9 | 557.7 |
| 77.5° | 387.0 | 422.7 | 466.0 | 483.8 | 499.1 | 496.5 | 494.0 | 458.3 | 417.6 | 399.8 | 384.5 |
| 80° | 252.1 | 287.7 | 308.1 | 331.0 | 346.3 | 343.8 | 348.9 | 323.4 | 305.6 | 275.0 | 280.1 |
| 82.5° | 150.2 | 178.2 | 198.6 | 226.6 | 226.6 | 234.3 | 234.3 | 226.6 | 208.8 | 193.5 | 193.5 |
| 85° | 71.3 | 94.2 | 106.9 | 124.8 | 135.0 | 137.5 | 122.2 | 104.4 | 86.6 | 78.9 | 86.6 |
| 87.5° | 12.7 | 17.8 | 25.5 | 22.9 | 28.0 | 25.5 | 25.5 | 25.5 | 25.5 | 20.4 | 22.9 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 | 7779.1 |
| 2.5° | 6913.4 | 7040.7 | 7129.8 | 7277.5 | 7532.1 | 7735.9 | 7944.7 | 8100.0 | 8117.8 | 8163.6 |
| 5° | 5846.5 | 5915.2 | 6141.8 | 6437.2 | 6646.0 | 6989.8 | 7211.3 | 7613.6 | 7763.9 | 7924.3 |
| 7.5° | 4565.6 | 4677.7 | 4980.7 | 5179.3 | 5637.7 | 6068.0 | 6513.6 | 7010.1 | 7208.8 | 7231.7 |
| 10° | 3850.1 | 4013.1 | 4219.3 | 4537.6 | 4787.2 | 5265.9 | 5821.0 | 6373.5 | 6595.1 | 6633.3 |
| 12.5° | 3381.6 | 3590.4 | 3865.4 | 4094.6 | 4333.9 | 4751.5 | 5283.7 | 5966.1 | 6253.9 | 6427.0 |
| 15° | 2930.9 | 3147.3 | 3450.3 | 3768.6 | 3980.0 | 4479.1 | 5105.5 | 5874.5 | 6248.8 | 6401.6 |
| 17.5° | 2467.4 | 2668.6 | 2918.1 | 3261.9 | 3687.1 | 4247.3 | 5077.5 | 6180.0 | 6590.0 | 6768.2 |
| 20° | 2070.2 | 2182.2 | 2472.5 | 2826.5 | 3358.7 | 4010.5 | 5087.6 | 6630.7 | 7231.7 | 7310.6 |
| 22.5° | 1914.9 | 1940.3 | 2054.9 | 2380.9 | 2964.0 | 3768.6 | 5268.4 | 7269.9 | 7952.3 | 8212.0 |
| 25° | 1795.2 | 1790.1 | 1820.7 | 2039.6 | 2676.2 | 3674.4 | 5446.7 | 7858.1 | 8751.9 | 9034.5 |
| 27.5° | 1729.0 | 1678.1 | 1680.6 | 1886.9 | 2472.5 | 3521.6 | 5675.8 | 8532.9 | 9658.4 | 9783.1 |
| 30° | 1695.9 | 1685.7 | 1655.1 | 1739.2 | 2251.0 | 3292.4 | 5714.0 | 9197.5 | 10193.1 | 10373.9 |
| 32.5° | 1675.5 | 1576.2 | 1538.0 | 1568.6 | 2042.2 | 3042.9 | 5856.6 | 9635.4 | 10855.2 | 10776.2 |
| 35° | 1573.7 | 1484.5 | 1459.1 | 1489.6 | 1894.5 | 2902.9 | 5762.4 | 10017.4 | 11351.7 | 11484.1 |
| 37.5° | 1535.5 | 1456.5 | 1405.6 | 1380.1 | 1757.0 | 2785.7 | 5714.0 | 10605.6 | 11833.0 | 12151.3 |
| 40° | 1499.8 | 1415.8 | 1354.7 | 1329.2 | 1650.0 | 2630.4 | 5698.8 | 11058.9 | 12388.1 | 12579.0 |
| 42.5° | 1459.1 | 1405.6 | 1336.8 | 1291.0 | 1520.2 | 2475.1 | 5523.1 | 11198.9 | 12558.7 | 12764.9 |
| 44° | 1446.3 | 1364.9 | 1293.6 | 1278.3 | 1469.3 | 2396.1 | 5487.4 | 11326.2 | 12706.4 | 13019.6 |
| 45° | 1433.6 | 1357.2 | 1275.7 | 1255.4 | 1451.4 | 2352.8 | 5439.0 | 11356.8 | 12950.8 | 13009.4 |
| 47.5° | 1398.0 | 1349.6 | 1270.6 | 1214.6 | 1413.2 | 2258.6 | 5293.9 | 11183.6 | 12701.3 | 12711.5 |
| 50° | 1369.9 | 1313.9 | 1232.4 | 1122.9 | 1362.3 | 2179.7 | 5360.1 | 11120.0 | 12100.3 | 12123.2 |
| 52.5° | 1339.4 | 1255.4 | 1209.5 | 1021.1 | 1278.3 | 2113.5 | 5500.1 | 11407.7 | 12169.1 | 12164.0 |
| 55° | 1303.7 | 1212.1 | 1100.0 | 934.5 | 1138.2 | 2029.5 | 5838.8 | 11975.6 | 12805.7 | 12892.2 |
| 57.5° | 1247.7 | 1168.8 | 1008.4 | 858.1 | 977.8 | 1869.0 | 5729.3 | 10888.3 | 11782.0 | 11797.3 |
| 60° | 1173.9 | 1100.0 | 914.1 | 799.6 | 802.1 | 1474.3 | 5123.3 | 8484.5 | 9296.8 | 9518.3 |
| 62.5° | 1102.6 | 1061.8 | 835.2 | 715.5 | 682.4 | 1173.9 | 4331.4 | 7050.9 | 7980.3 | 8163.6 |
| 65° | 1018.5 | 919.2 | 766.5 | 651.9 | 585.7 | 822.5 | 3068.4 | 5268.4 | 6225.9 | 6472.9 |
| 67.5° | 911.6 | 804.7 | 674.8 | 572.9 | 501.6 | 550.0 | 1583.8 | 2994.5 | 3964.7 | 4109.8 |
| 70° | 797.0 | 697.7 | 567.8 | 483.8 | 404.9 | 379.4 | 697.7 | 1428.5 | 2167.0 | 2317.2 |
| 72.5° | 654.4 | 562.7 | 453.3 | 382.0 | 303.0 | 262.3 | 234.3 | 382.0 | 769.0 | 893.8 |
| 75° | 473.6 | 410.0 | 341.2 | 272.5 | 213.9 | 168.1 | 137.5 | 114.6 | 127.3 | 137.5 |
| 77.5° | 348.9 | 297.9 | 252.1 | 193.5 | 150.2 | 119.7 | 94.2 | 71.3 | 68.8 | 66.2 |
| 80° | 272.5 | 241.9 | 201.2 | 155.3 | 117.1 | 89.1 | 66.2 | 48.4 | 43.3 | 43.3 |
| 82.5° | 213.9 | 198.6 | 165.5 | 127.3 | 96.8 | 71.3 | 48.4 | 33.1 | 28.0 | 28.0 |
| 85° | 81.5 | 81.5 | 119.7 | 104.4 | 73.8 | 50.9 | 33.1 | 17.8 | 15.3 | 15.3 |
| 87.5° | 20.4 | 20.4 | 20.4 | 20.4 | 17.8 | 15.3 | 15.3 | 7.6 | 5.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)