

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: P458439

Luminaire Tested: **GALN-SA9D-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60451 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

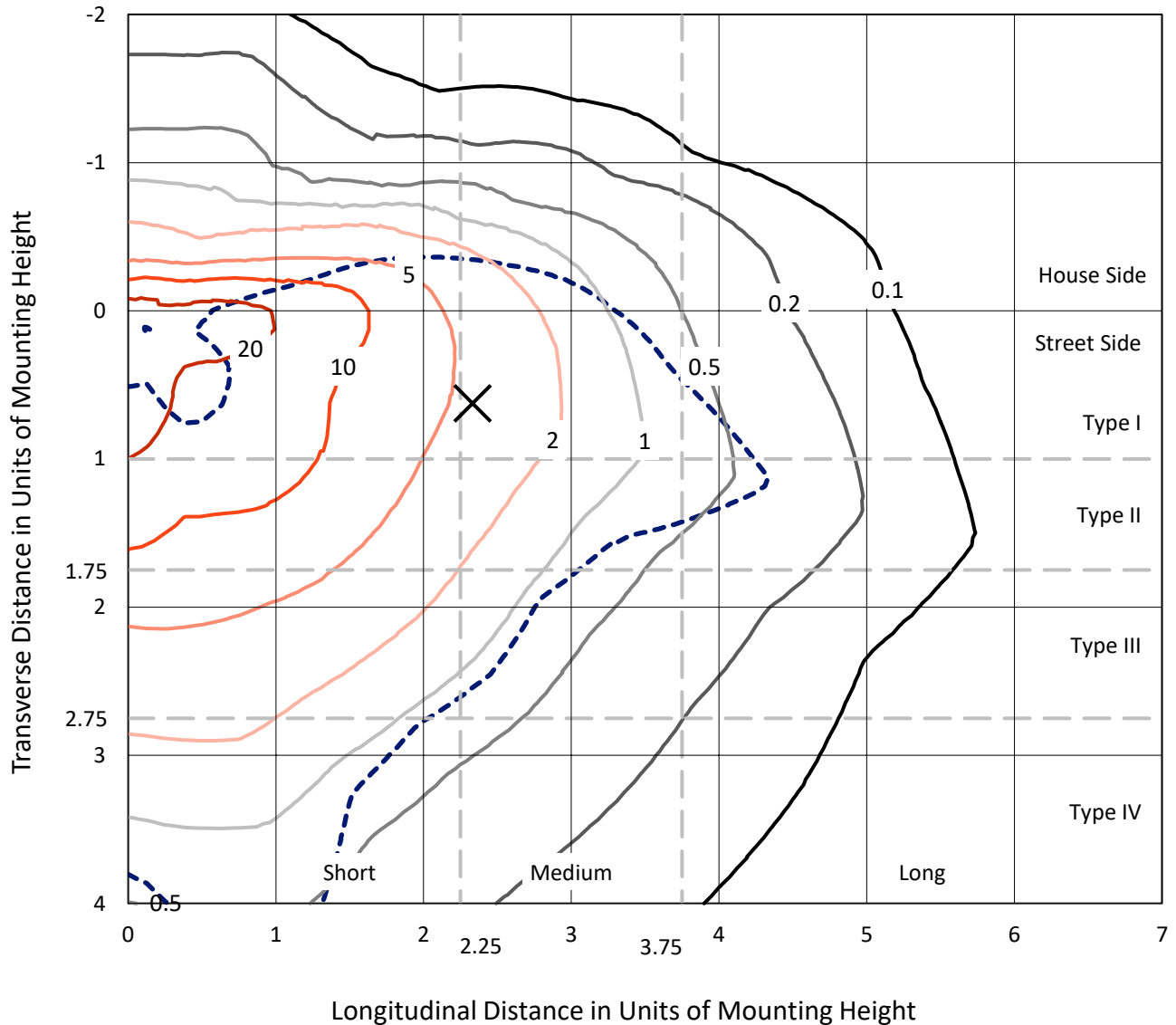
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

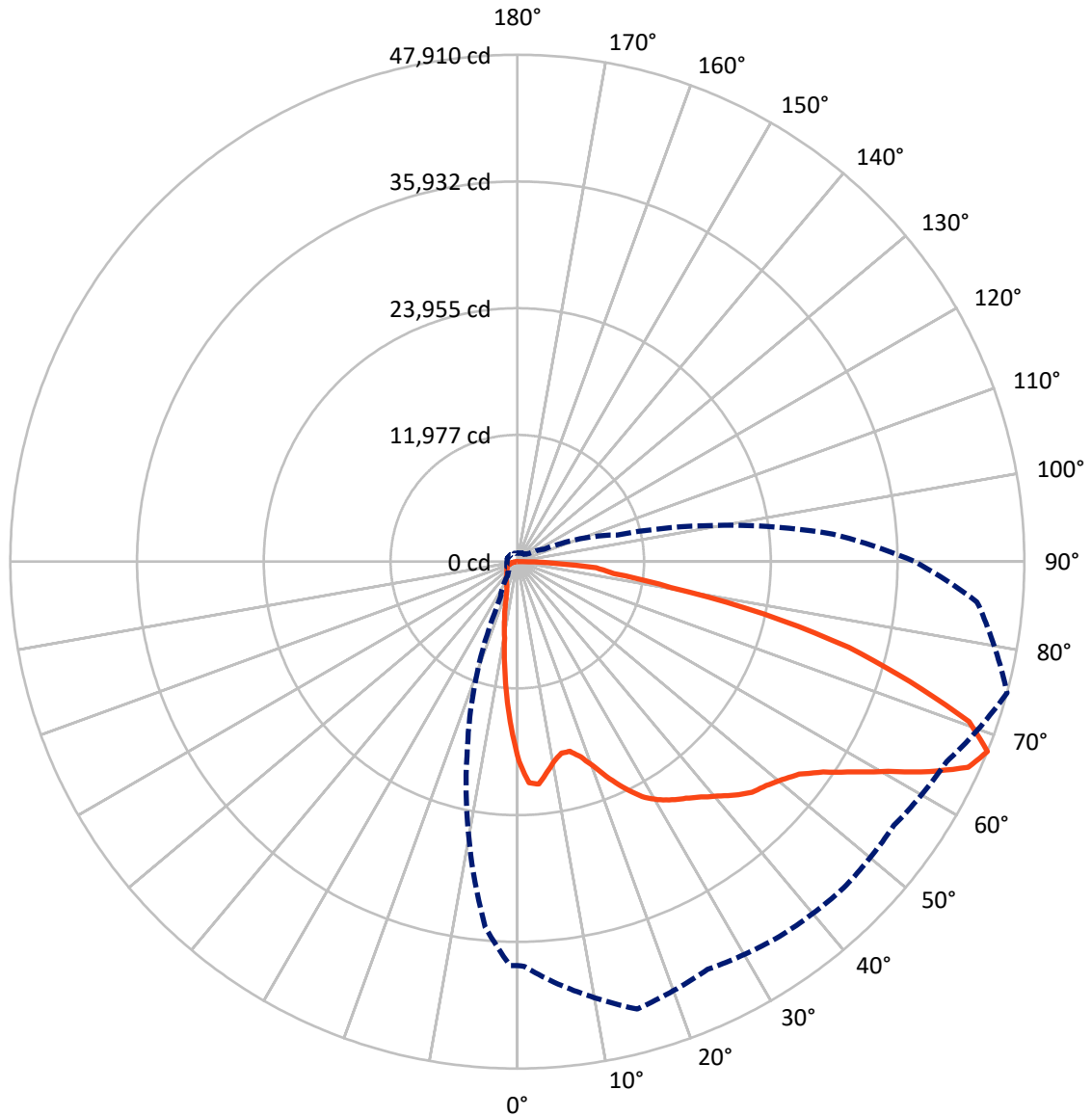
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 37.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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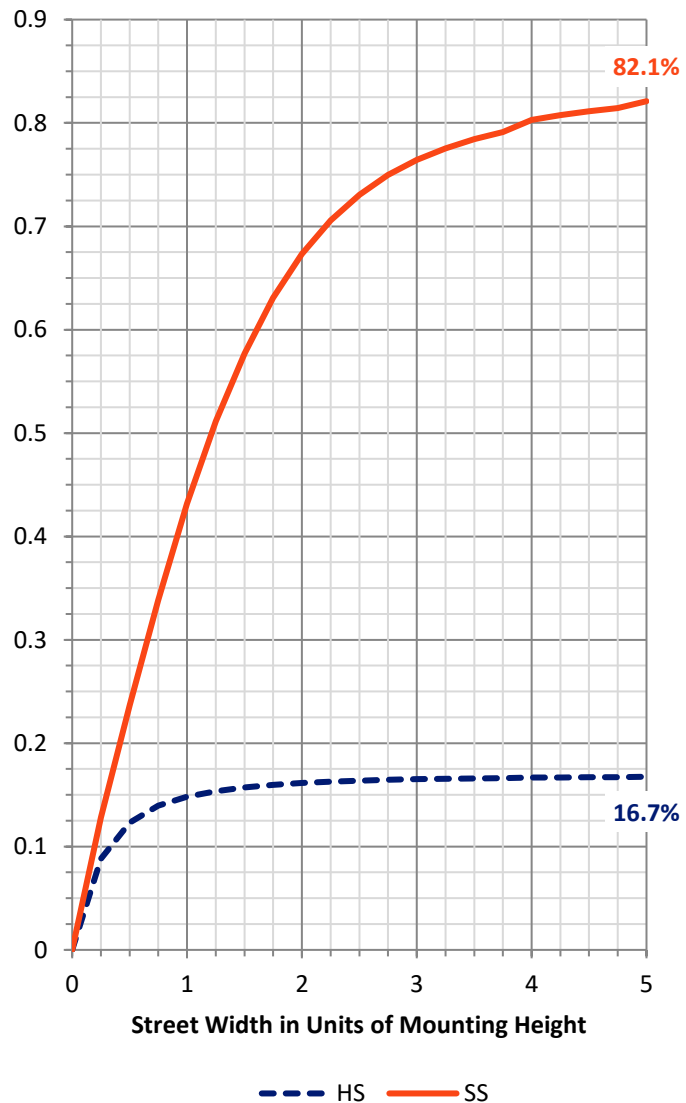
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10217.5 | 0.0 | 10217.5 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 50233.5 | 0.0 | 50233.5 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 60451.0 | 0.0 | 60451.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1432.5 | 2.4 |
| 10°-20° | 2987.5 | 4.9 |
| 20°-30° | 4299.0 | 7.1 |
| 30°-40° | 6191.8 | 10.2 |
| 40°-50° | 8697.8 | 14.4 |
| 50°-60° | 12130.3 | 20.1 |
| 60°-70° | 14422.2 | 23.9 |
| 70°-80° | 8493.9 | 14.1 |
| 80°-90° | 1796.1 | 3.0 |
| 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° | 60451.0 | 100.0 |
| 0°-180° | 60451.0 | 100.0 |



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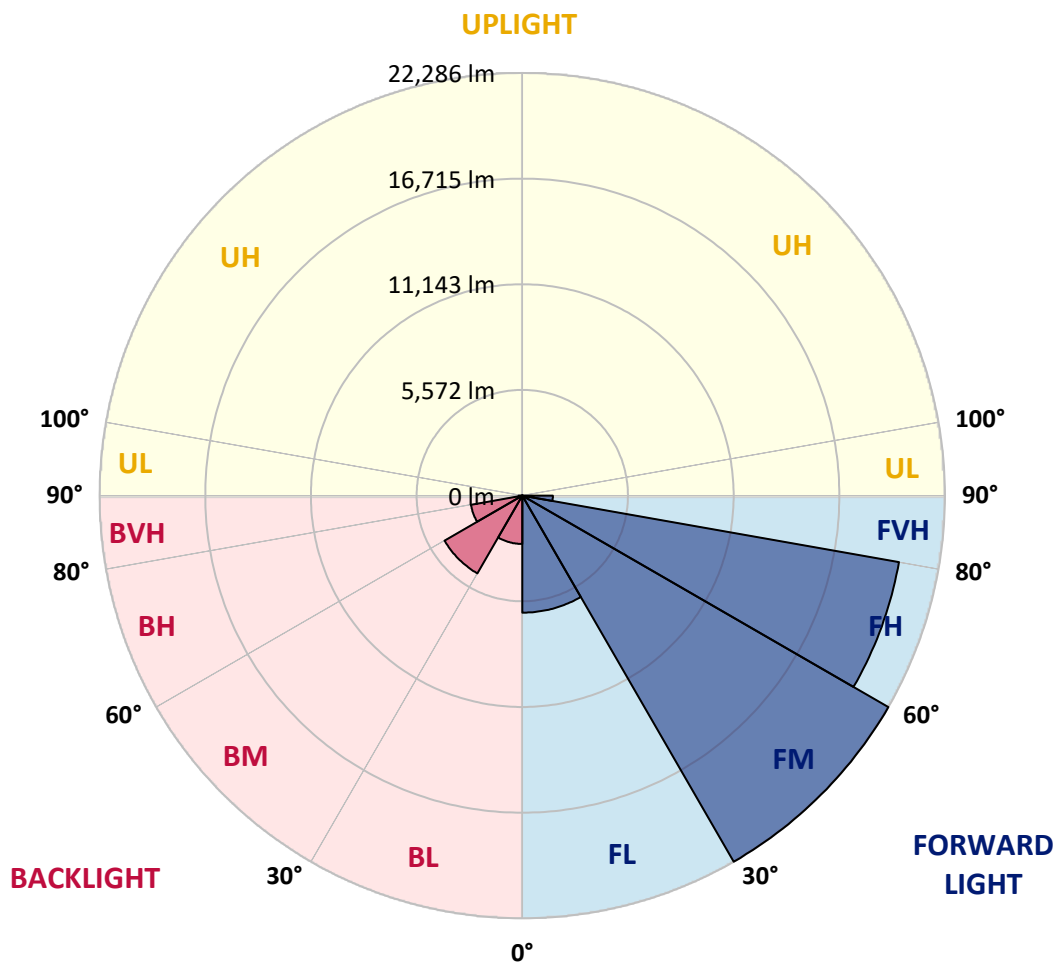
CATALOG NUMBER: GALN-SA9D-760-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 6170.4 | 10.2 | | | |
| FM | (30°-60°) | 22286.0 | 36.9 | | | |
| FH | (60°-80°) | 20166.7 | 33.4 | | | G5 |
| FVH | (80°-90°) | 1610.4 | 2.7 | | | G5 |
| BL | (0°-30°) | 2548.6 | 4.2 | B4/5000 | | |
| BM | (30°-60°) | 4733.8 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 2749.3 | 4.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 185.8 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





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CATALOG NUMBER: GALN-SA9D-760-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 |
| 2.5° | 20363.3 | 20390.4 | 20564.8 | 21072.7 | 21421.6 | 21549.5 | 21638.6 | 21472.0 | 21309.1 | 20913.7 | 20316.8 |
| 5° | 20301.2 | 20460.2 | 20913.7 | 22053.4 | 22952.8 | 23340.4 | 23456.7 | 22956.7 | 22131.0 | 21115.3 | 19894.2 |
| 7.5° | 19115.0 | 19328.2 | 20026.0 | 21937.1 | 23522.6 | 24429.7 | 24309.6 | 23406.3 | 21917.7 | 20107.4 | 18401.8 |
| 10° | 17707.9 | 17944.3 | 18785.5 | 21095.9 | 23138.8 | 24387.1 | 24387.1 | 23286.2 | 21309.1 | 19157.7 | 17192.3 |
| 12.5° | 16591.4 | 16839.5 | 17800.9 | 20231.5 | 22340.3 | 23522.6 | 23720.3 | 22774.5 | 20871.1 | 18556.8 | 16397.6 |
| 15° | 16223.2 | 16463.5 | 17498.5 | 19708.1 | 21495.2 | 22216.2 | 22282.1 | 21972.0 | 20657.9 | 18599.5 | 16362.7 |
| 17.5° | 16680.6 | 16990.7 | 18037.4 | 19863.2 | 20719.9 | 20762.6 | 20812.9 | 21057.2 | 20681.1 | 19378.6 | 17068.2 |
| 20° | 18002.5 | 18335.9 | 19429.0 | 20363.3 | 20041.5 | 19599.6 | 19626.7 | 20254.7 | 20956.4 | 20665.6 | 18754.5 |
| 22.5° | 19909.7 | 20200.5 | 21320.8 | 21243.2 | 19754.7 | 18843.7 | 18653.7 | 19529.8 | 21363.4 | 22270.5 | 20549.3 |
| 25° | 21968.1 | 22309.3 | 23596.3 | 22549.6 | 19836.1 | 18394.0 | 18273.8 | 19103.4 | 21785.9 | 23770.7 | 22623.3 |
| 27.5° | 24325.1 | 24658.4 | 25674.1 | 23867.6 | 20262.5 | 18359.1 | 18215.7 | 19064.6 | 22165.8 | 25158.5 | 24604.2 |
| 30° | 26077.2 | 26383.5 | 27073.5 | 24976.3 | 20785.8 | 18591.7 | 18413.4 | 19370.9 | 22491.5 | 26108.2 | 26534.7 |
| 32.5° | 27453.4 | 27771.3 | 28147.3 | 25666.3 | 21475.8 | 19014.2 | 18684.7 | 19929.1 | 22917.9 | 26833.2 | 27965.1 |
| 35° | 28887.7 | 29263.7 | 29236.6 | 26278.8 | 22119.3 | 19502.7 | 19180.9 | 20735.4 | 23588.5 | 27465.0 | 29779.3 |
| 37.5° | 30705.8 | 30857.0 | 30663.1 | 26829.3 | 22890.8 | 20382.7 | 20204.3 | 21933.3 | 24542.1 | 28228.7 | 31899.7 |
| 40° | 32551.0 | 32853.4 | 31857.1 | 27496.0 | 23828.9 | 22037.9 | 22018.5 | 23704.8 | 25674.1 | 29124.2 | 33954.3 |
| 42.5° | 34132.6 | 34388.5 | 32973.5 | 28077.5 | 24964.7 | 24057.6 | 24204.9 | 26081.1 | 27158.8 | 30163.1 | 35605.7 |
| 45° | 35322.7 | 35551.4 | 34004.7 | 28639.6 | 26461.0 | 26391.2 | 27259.6 | 28628.0 | 29031.1 | 31097.3 | 36574.8 |
| 47.5° | 36334.5 | 36555.4 | 34721.8 | 29492.4 | 28310.1 | 29178.4 | 30690.3 | 31283.4 | 30632.1 | 31632.3 | 37660.2 |
| 50° | 37187.3 | 37253.2 | 35214.2 | 30508.1 | 30605.0 | 32593.6 | 34059.0 | 34442.7 | 32213.7 | 32399.8 | 38602.2 |
| 52.5° | 38075.0 | 37989.7 | 36063.1 | 31787.3 | 33086.0 | 35834.4 | 36900.4 | 37299.7 | 33729.5 | 33345.7 | 39974.5 |
| 55° | 40063.7 | 40145.1 | 37966.5 | 33400.0 | 35594.1 | 39017.0 | 40420.3 | 40036.5 | 35408.0 | 35086.2 | 41718.9 |
| 57.5° | 42467.1 | 42397.3 | 40645.1 | 35923.6 | 38148.7 | 41978.7 | 43025.3 | 42408.9 | 37648.6 | 37478.0 | 43486.6 |
| 60° | 43401.3 | 43494.4 | 42885.8 | 38637.1 | 40668.4 | 44572.0 | 45641.9 | 44684.5 | 40335.0 | 40257.5 | 44820.1 |
| 62.5° | 42463.2 | 42986.5 | 43397.5 | 41052.2 | 42816.0 | 46479.3 | 47541.4 | 46448.3 | 43137.7 | 43699.8 | 45754.4 |
| 65° | 40594.7 | 40707.2 | 42106.6 | 43099.0 | 43851.0 | 46793.3 | 47347.6 | 46766.1 | 45479.1 | 46835.9 | 45711.7 |
| 67.5° | 38168.0 | 38265.0 | 39904.7 | 43769.6 | 42517.5 | 43226.9 | 43614.5 | 43444.0 | 44754.2 | 47909.7 | 43606.8 |
| 70° | 35857.7 | 35780.1 | 37512.9 | 42060.1 | 37012.9 | 35935.2 | 36256.9 | 35722.0 | 38617.7 | 45285.3 | 39478.3 |
| 72.5° | 31360.9 | 31640.0 | 33500.7 | 37307.5 | 29306.4 | 27554.2 | 28255.8 | 26871.9 | 29701.8 | 38784.4 | 32043.2 |
| 75° | 24565.4 | 24631.3 | 27736.4 | 31310.5 | 22107.7 | 19343.8 | 20293.5 | 19715.9 | 22751.2 | 32353.3 | 22127.1 |
| 77.5° | 17010.1 | 16862.8 | 20200.5 | 23914.1 | 15765.7 | 14160.9 | 14176.4 | 13901.1 | 15885.9 | 23821.1 | 15033.1 |
| 80° | 10803.8 | 10579.0 | 12645.2 | 14773.4 | 10834.8 | 11590.7 | 11210.8 | 11199.2 | 10342.5 | 14695.8 | 9090.4 |
| 82.5° | 5838.0 | 6086.1 | 7989.5 | 9261.0 | 7772.4 | 8958.6 | 8210.4 | 7970.1 | 7097.9 | 9198.9 | 5814.8 |
| 85° | 2659.3 | 2891.9 | 4260.3 | 6299.3 | 5903.9 | 5969.8 | 3988.9 | 4706.1 | 5872.9 | 7470.0 | 3105.1 |
| 87.5° | 259.7 | 333.4 | 880.0 | 2973.3 | 2015.8 | 1589.4 | 593.1 | 1143.6 | 1476.9 | 2655.4 | 248.1 |
| 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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CATALOG NUMBER: GALN-SA9D-760-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 |
| 2.5° | 20072.5 | 19871.0 | 19184.8 | 18618.8 | 18018.0 | 17560.6 | 16963.6 | 16564.3 | 16289.1 | 15874.3 | 15823.9 |
| 5° | 19149.9 | 18657.6 | 17463.6 | 16246.4 | 15195.9 | 14405.1 | 13602.6 | 12866.1 | 12431.9 | 12296.3 | 12121.8 |
| 7.5° | 17595.4 | 16765.9 | 15230.8 | 13835.2 | 12629.6 | 11451.2 | 10544.1 | 9900.6 | 9470.3 | 9218.3 | 8916.0 |
| 10° | 16316.2 | 15354.8 | 13486.4 | 11776.8 | 10784.4 | 10051.8 | 9253.2 | 8563.2 | 8032.1 | 7578.6 | 7330.5 |
| 12.5° | 15455.6 | 14370.2 | 12269.1 | 10881.3 | 10113.8 | 9334.6 | 8400.4 | 7625.1 | 6842.0 | 6326.5 | 6105.5 |
| 15° | 15195.9 | 14048.4 | 11893.1 | 10435.5 | 9334.6 | 8315.1 | 7268.4 | 6256.7 | 5481.4 | 4992.9 | 4830.1 |
| 17.5° | 15831.6 | 14443.9 | 11889.2 | 9842.4 | 8419.8 | 7202.5 | 5861.3 | 4911.5 | 4116.8 | 3752.5 | 3636.2 |
| 20° | 17017.8 | 15203.6 | 11924.1 | 9257.1 | 7427.4 | 5714.0 | 4264.2 | 3485.0 | 3105.1 | 2950.0 | 2891.9 |
| 22.5° | 18673.1 | 16362.7 | 12028.8 | 8679.5 | 6342.0 | 4388.2 | 3194.2 | 2798.8 | 2663.2 | 2636.0 | 2624.4 |
| 25° | 20712.2 | 17797.0 | 12381.6 | 8160.0 | 5427.1 | 3349.3 | 2670.9 | 2492.6 | 2415.1 | 2387.9 | 2384.0 |
| 27.5° | 22588.4 | 19650.0 | 12808.0 | 7714.2 | 4543.3 | 2888.0 | 2415.1 | 2263.9 | 2186.3 | 2182.5 | 2190.2 |
| 30° | 24282.4 | 21200.6 | 13164.6 | 7214.2 | 3872.6 | 2566.2 | 2248.4 | 2097.2 | 2023.5 | 2019.7 | 2042.9 |
| 32.5° | 25747.7 | 22476.0 | 13428.2 | 6721.9 | 3500.5 | 2368.5 | 2097.2 | 1934.4 | 1872.4 | 1860.7 | 1872.4 |
| 35° | 27313.8 | 23747.5 | 13308.0 | 6338.1 | 3287.3 | 2205.7 | 1984.8 | 1825.8 | 1752.2 | 1717.3 | 1717.3 |
| 37.5° | 29100.9 | 25057.7 | 13102.6 | 6020.2 | 3190.4 | 2070.1 | 1887.9 | 1732.8 | 1659.1 | 1624.3 | 1620.4 |
| 40° | 31050.8 | 26368.0 | 12819.6 | 5737.2 | 3093.4 | 1988.6 | 1822.0 | 1659.1 | 1570.0 | 1535.1 | 1527.3 |
| 42.5° | 32772.0 | 27488.3 | 12587.0 | 5551.2 | 2934.5 | 2004.2 | 1763.8 | 1604.9 | 1492.5 | 1445.9 | 1442.1 |
| 45° | 34268.3 | 28616.3 | 12544.4 | 5442.6 | 2802.7 | 1980.9 | 1748.3 | 1562.2 | 1430.4 | 1380.0 | 1372.3 |
| 47.5° | 35439.0 | 29790.9 | 12788.6 | 5380.6 | 2659.3 | 1856.8 | 1849.1 | 1535.1 | 1376.2 | 1321.9 | 1314.1 |
| 50° | 36865.5 | 31457.8 | 13346.8 | 5252.7 | 2527.5 | 1740.5 | 1953.8 | 1531.2 | 1333.5 | 1263.7 | 1244.4 |
| 52.5° | 38765.0 | 33628.7 | 14102.7 | 5023.9 | 2337.5 | 1632.0 | 1864.6 | 1531.2 | 1283.1 | 1213.3 | 1190.1 |
| 55° | 41637.5 | 36396.5 | 14843.1 | 4702.2 | 2070.1 | 1488.6 | 1682.4 | 1484.7 | 1209.5 | 1147.4 | 1131.9 |
| 57.5° | 43540.9 | 38420.0 | 15316.1 | 4256.4 | 1736.7 | 1383.9 | 1449.8 | 1411.0 | 1135.8 | 1069.9 | 1069.9 |
| 60° | 43637.8 | 38962.7 | 15091.2 | 3694.3 | 1527.3 | 1287.0 | 1259.9 | 1422.7 | 1069.9 | 1000.1 | 992.4 |
| 62.5° | 42521.4 | 37633.1 | 13920.5 | 3190.4 | 1414.9 | 1182.3 | 1139.7 | 1248.2 | 1004.0 | 934.2 | 922.6 |
| 65° | 40776.9 | 34241.2 | 11889.2 | 2950.0 | 1352.9 | 1089.3 | 1027.3 | 1023.4 | 934.2 | 868.3 | 852.8 |
| 67.5° | 37571.1 | 29922.7 | 9768.8 | 2810.5 | 1321.9 | 984.6 | 926.5 | 907.1 | 852.8 | 798.6 | 790.8 |
| 70° | 32845.6 | 25061.6 | 7834.4 | 2752.3 | 1306.4 | 876.1 | 829.6 | 806.3 | 759.8 | 717.2 | 713.3 |
| 72.5° | 25553.9 | 20328.4 | 6466.0 | 2713.6 | 1298.6 | 775.3 | 724.9 | 693.9 | 666.8 | 628.0 | 628.0 |
| 75° | 18355.2 | 14955.5 | 4934.8 | 2446.1 | 1201.7 | 666.8 | 612.5 | 593.1 | 554.3 | 523.3 | 531.1 |
| 77.5° | 11571.4 | 10071.2 | 3248.5 | 1798.7 | 930.4 | 535.0 | 488.4 | 476.8 | 445.8 | 403.2 | 430.3 |
| 80° | 7815.0 | 7082.4 | 1895.6 | 1131.9 | 585.4 | 391.5 | 376.0 | 372.1 | 337.3 | 290.7 | 294.6 |
| 82.5° | 5318.6 | 5217.8 | 984.6 | 643.5 | 337.3 | 228.7 | 221.0 | 228.7 | 189.9 | 155.1 | 155.1 |
| 85° | 2077.8 | 2837.6 | 465.2 | 252.0 | 108.5 | 34.9 | 50.4 | 54.3 | 31.0 | 15.5 | 19.4 |
| 87.5° | 38.8 | 290.7 | 11.6 | 0.0 | 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 |
| 2.5° | 15746.4 | 15711.5 | 15769.6 | 15521.5 | 15571.9 | 15664.9 | 15711.5 | 15738.6 | 16122.4 | 16033.2 | 16277.4 |
| 5° | 12284.6 | 12249.7 | 12474.6 | 12505.6 | 12621.9 | 12598.6 | 12711.1 | 12738.2 | 12877.7 | 12928.1 | 13269.3 |
| 7.5° | 8935.3 | 9086.5 | 9342.4 | 9474.2 | 9671.9 | 9733.9 | 9675.8 | 9819.2 | 9528.4 | 9737.8 | 9799.8 |
| 10° | 7179.3 | 6997.1 | 6888.5 | 7190.9 | 7229.7 | 7516.5 | 7400.2 | 7307.2 | 7477.8 | 7485.5 | 7648.3 |
| 12.5° | 5977.6 | 5586.0 | 5326.3 | 5411.6 | 5504.6 | 5628.7 | 5648.1 | 5834.1 | 5958.2 | 6074.5 | 6171.4 |
| 15° | 4686.7 | 4551.0 | 4314.5 | 4198.3 | 4330.1 | 4380.4 | 4500.6 | 4655.7 | 4787.5 | 4822.4 | 4954.2 |
| 17.5° | 3597.4 | 3620.7 | 3581.9 | 3512.1 | 3593.5 | 3632.3 | 3640.0 | 3643.9 | 3678.8 | 3655.5 | 3849.4 |
| 20° | 2895.7 | 2977.2 | 3074.1 | 3089.6 | 3116.7 | 3136.1 | 3101.2 | 2969.4 | 2973.3 | 3054.7 | 3116.7 |
| 22.5° | 2620.5 | 2636.0 | 2744.6 | 2779.5 | 2864.7 | 2829.8 | 2729.1 | 2667.0 | 2659.3 | 2678.7 | 2709.7 |
| 25° | 2403.4 | 2426.7 | 2504.2 | 2558.5 | 2624.4 | 2562.4 | 2488.7 | 2430.6 | 2422.8 | 2442.2 | 2473.2 |
| 27.5° | 2209.6 | 2244.5 | 2314.3 | 2368.5 | 2430.6 | 2372.4 | 2302.6 | 2252.2 | 2248.4 | 2244.5 | 2263.9 |
| 30° | 2054.5 | 2093.3 | 2143.7 | 2205.7 | 2248.4 | 2198.0 | 2132.1 | 2104.9 | 2101.1 | 2093.3 | 2101.1 |
| 32.5° | 1899.5 | 1961.5 | 2011.9 | 2042.9 | 2085.6 | 2046.8 | 1996.4 | 1980.9 | 1953.8 | 1930.5 | 1918.9 |
| 35° | 1725.0 | 1790.9 | 1868.5 | 1907.2 | 1949.9 | 1911.1 | 1876.2 | 1810.3 | 1763.8 | 1759.9 | 1767.7 |
| 37.5° | 1624.3 | 1651.4 | 1713.4 | 1779.3 | 1822.0 | 1802.6 | 1736.7 | 1670.8 | 1659.1 | 1659.1 | 1666.9 |
| 40° | 1535.1 | 1546.7 | 1573.9 | 1659.1 | 1736.7 | 1678.5 | 1597.1 | 1577.7 | 1577.7 | 1573.9 | 1577.7 |
| 42.5° | 1445.9 | 1457.6 | 1457.6 | 1523.5 | 1647.5 | 1554.5 | 1492.5 | 1492.5 | 1492.5 | 1496.3 | 1508.0 |
| 45° | 1364.5 | 1368.4 | 1364.5 | 1411.0 | 1527.3 | 1449.8 | 1407.2 | 1418.8 | 1426.6 | 1434.3 | 1442.1 |
| 47.5° | 1294.8 | 1298.6 | 1294.8 | 1333.5 | 1391.7 | 1360.7 | 1337.4 | 1352.9 | 1368.4 | 1380.0 | 1387.8 |
| 50° | 1232.7 | 1228.9 | 1236.6 | 1259.9 | 1287.0 | 1294.8 | 1279.2 | 1302.5 | 1310.3 | 1325.8 | 1345.1 |
| 52.5° | 1178.5 | 1174.6 | 1182.3 | 1194.0 | 1232.7 | 1232.7 | 1232.7 | 1252.1 | 1267.6 | 1283.1 | 1310.3 |
| 55° | 1116.4 | 1120.3 | 1131.9 | 1147.4 | 1197.8 | 1190.1 | 1194.0 | 1209.5 | 1225.0 | 1248.2 | 1263.7 |
| 57.5° | 1058.3 | 1066.0 | 1081.5 | 1104.8 | 1155.2 | 1151.3 | 1155.2 | 1163.0 | 1182.3 | 1194.0 | 1209.5 |
| 60° | 992.4 | 1007.9 | 1027.3 | 1042.8 | 1093.2 | 1089.3 | 1108.7 | 1124.2 | 1135.8 | 1135.8 | 1143.6 |
| 62.5° | 926.5 | 949.7 | 969.1 | 980.8 | 1035.0 | 1038.9 | 1066.0 | 1077.7 | 1085.4 | 1077.7 | 1089.3 |
| 65° | 860.6 | 895.5 | 903.2 | 918.7 | 973.0 | 976.9 | 1007.9 | 1035.0 | 1027.3 | 1019.5 | 1038.9 |
| 67.5° | 794.7 | 837.3 | 833.4 | 852.8 | 907.1 | 914.9 | 942.0 | 988.5 | 973.0 | 965.2 | 980.8 |
| 70° | 721.0 | 752.0 | 755.9 | 767.5 | 841.2 | 829.6 | 872.2 | 914.9 | 903.2 | 907.1 | 907.1 |
| 72.5° | 639.6 | 666.8 | 666.8 | 690.0 | 767.5 | 748.2 | 783.1 | 829.6 | 829.6 | 825.7 | 825.7 |
| 75° | 542.7 | 558.2 | 573.7 | 608.6 | 690.0 | 666.8 | 690.0 | 732.7 | 740.4 | 732.7 | 732.7 |
| 77.5° | 438.0 | 461.3 | 469.1 | 515.6 | 573.7 | 569.8 | 593.1 | 612.5 | 628.0 | 620.2 | 620.2 |
| 80° | 310.1 | 333.4 | 364.4 | 414.8 | 449.7 | 461.3 | 472.9 | 488.4 | 496.2 | 496.2 | 503.9 |
| 82.5° | 174.4 | 209.3 | 236.5 | 286.9 | 302.4 | 360.5 | 356.6 | 368.3 | 356.6 | 314.0 | 348.9 |
| 85° | 38.8 | 73.7 | 104.7 | 131.8 | 151.2 | 209.3 | 221.0 | 248.1 | 205.5 | 189.9 | 189.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.0 | 62.0 | 85.3 | 73.7 | 62.0 | 62.0 |
| 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):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 | 18886.3 |
| 2.5° | 16482.9 | 16820.1 | 17227.2 | 17928.8 | 18421.1 | 18952.2 | 19487.2 | 20057.0 | 20208.2 | 20363.3 |
| 5° | 13362.3 | 14025.2 | 14385.7 | 15327.7 | 16316.2 | 17572.2 | 18599.5 | 19723.6 | 20192.7 | 20301.2 |
| 7.5° | 10121.5 | 10571.2 | 11517.1 | 12470.7 | 13695.7 | 15013.7 | 16587.6 | 18339.7 | 18886.3 | 19115.0 |
| 10° | 8024.4 | 8636.8 | 9466.4 | 10489.8 | 11563.6 | 12982.4 | 14757.8 | 16804.6 | 17579.9 | 17707.9 |
| 12.5° | 6830.4 | 7512.7 | 8415.9 | 9497.4 | 10513.1 | 11583.0 | 13373.9 | 15486.6 | 16316.2 | 16591.4 |
| 15° | 5462.0 | 6287.7 | 7330.5 | 8470.2 | 9575.0 | 10745.7 | 12559.9 | 14943.9 | 15901.4 | 16223.2 |
| 17.5° | 4291.3 | 4958.0 | 6086.1 | 7322.7 | 8633.0 | 10113.8 | 12389.3 | 15203.6 | 16382.1 | 16680.6 |
| 20° | 3283.4 | 3760.2 | 4710.0 | 6016.3 | 7551.4 | 9489.7 | 12431.9 | 16184.4 | 17595.4 | 18002.5 |
| 22.5° | 2837.6 | 3081.8 | 3659.4 | 4903.8 | 6621.1 | 8947.0 | 12606.4 | 17529.5 | 19231.3 | 19909.7 |
| 25° | 2570.1 | 2698.0 | 3023.7 | 3837.7 | 5733.3 | 8419.8 | 13005.7 | 19339.9 | 21518.5 | 21968.1 |
| 27.5° | 2341.4 | 2434.4 | 2636.0 | 3221.4 | 4927.0 | 7931.3 | 13470.8 | 21347.9 | 23654.4 | 24325.1 |
| 30° | 2124.3 | 2248.4 | 2438.3 | 2860.9 | 4411.5 | 7485.5 | 14056.2 | 22976.0 | 25453.1 | 26077.2 |
| 32.5° | 1957.6 | 2081.7 | 2256.1 | 2608.9 | 3973.4 | 7016.5 | 14405.1 | 24406.5 | 26922.3 | 27453.4 |
| 35° | 1822.0 | 1926.6 | 2108.8 | 2407.3 | 3640.0 | 6659.8 | 14335.3 | 25542.3 | 28345.0 | 28887.7 |
| 37.5° | 1725.0 | 1814.2 | 1996.4 | 2217.4 | 3388.1 | 6287.7 | 14300.4 | 27042.5 | 30077.8 | 30705.8 |
| 40° | 1635.9 | 1728.9 | 1895.6 | 2093.3 | 3136.1 | 5849.6 | 14319.8 | 28531.1 | 31923.0 | 32551.0 |
| 42.5° | 1566.1 | 1670.8 | 1806.5 | 2058.4 | 2876.4 | 5496.9 | 14319.8 | 29825.8 | 33527.9 | 34132.6 |
| 45° | 1508.0 | 1620.4 | 1752.2 | 2054.5 | 2670.9 | 5229.4 | 14222.9 | 30938.4 | 34807.1 | 35322.7 |
| 47.5° | 1457.6 | 1581.6 | 1771.6 | 1984.8 | 2620.5 | 5035.6 | 14137.6 | 31830.0 | 35849.9 | 36334.5 |
| 50° | 1422.7 | 1570.0 | 1884.0 | 1903.4 | 2636.0 | 4977.4 | 14548.5 | 32954.2 | 36768.6 | 37187.3 |
| 52.5° | 1395.5 | 1573.9 | 1880.1 | 1783.2 | 2608.9 | 5016.2 | 15405.2 | 34710.2 | 38044.0 | 38075.0 |
| 55° | 1341.3 | 1570.0 | 1783.2 | 1647.5 | 2496.5 | 5082.1 | 16506.2 | 37260.9 | 40040.4 | 40063.7 |
| 57.5° | 1287.0 | 1527.3 | 1655.3 | 1531.2 | 2267.8 | 5082.1 | 17831.9 | 39676.0 | 42447.7 | 42467.1 |
| 60° | 1232.7 | 1589.4 | 1453.7 | 1430.4 | 1969.3 | 4989.1 | 19231.3 | 40738.2 | 43203.6 | 43401.3 |
| 62.5° | 1178.5 | 1601.0 | 1298.6 | 1341.3 | 1752.2 | 4764.2 | 20274.1 | 39563.6 | 42180.2 | 42463.2 |
| 65° | 1116.4 | 1290.9 | 1197.8 | 1248.2 | 1639.8 | 4388.2 | 19944.6 | 37412.1 | 40257.5 | 40594.7 |
| 67.5° | 1042.8 | 1093.2 | 1089.3 | 1151.3 | 1601.0 | 3833.9 | 18207.9 | 34690.8 | 38187.4 | 38168.0 |
| 70° | 953.6 | 980.8 | 992.4 | 1058.3 | 1527.3 | 3403.6 | 15172.6 | 31159.3 | 35423.5 | 35857.7 |
| 72.5° | 860.6 | 883.8 | 895.5 | 953.6 | 1453.7 | 3159.3 | 11776.8 | 26294.3 | 30682.5 | 31360.9 |
| 75° | 759.8 | 775.3 | 790.8 | 841.2 | 1376.2 | 2798.8 | 8388.8 | 20072.5 | 23499.4 | 24565.4 |
| 77.5° | 655.1 | 655.1 | 674.5 | 724.9 | 1159.1 | 2310.4 | 5628.7 | 14079.5 | 15920.8 | 17010.1 |
| 80° | 531.1 | 535.0 | 527.2 | 581.5 | 852.8 | 1581.6 | 3198.1 | 9404.4 | 10594.5 | 10803.8 |
| 82.5° | 407.0 | 395.4 | 399.3 | 426.4 | 635.7 | 1077.7 | 1705.7 | 5841.9 | 5954.3 | 5838.0 |
| 85° | 255.8 | 255.8 | 248.1 | 279.1 | 407.0 | 562.1 | 930.4 | 3578.0 | 2795.0 | 2659.3 |
| 87.5° | 104.7 | 85.3 | 96.9 | 112.4 | 193.8 | 228.7 | 364.4 | 736.5 | 283.0 | 259.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)