

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640115

Luminaire Tested: GWS-SA5D-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27856.8 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

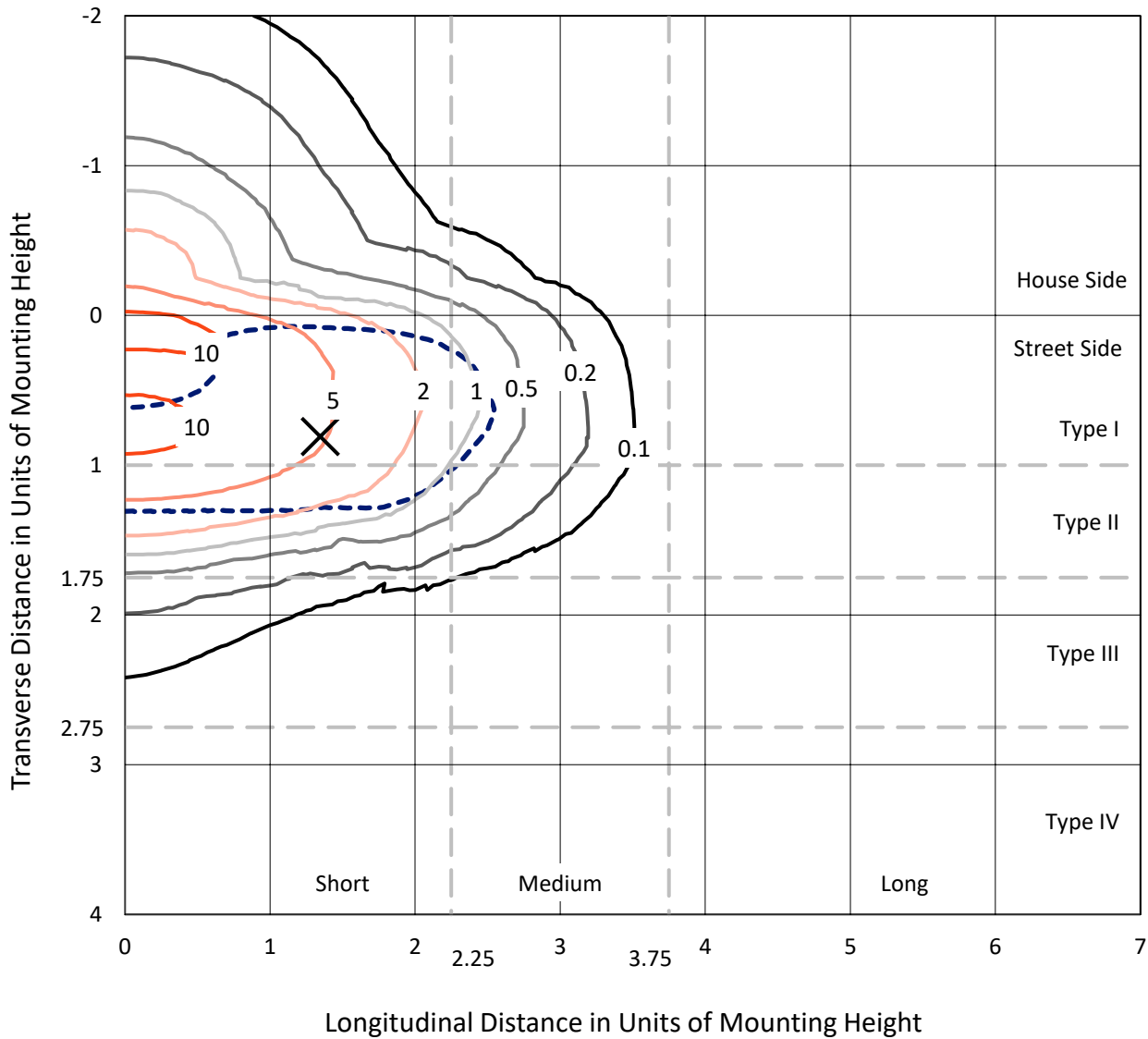
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640115
 CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

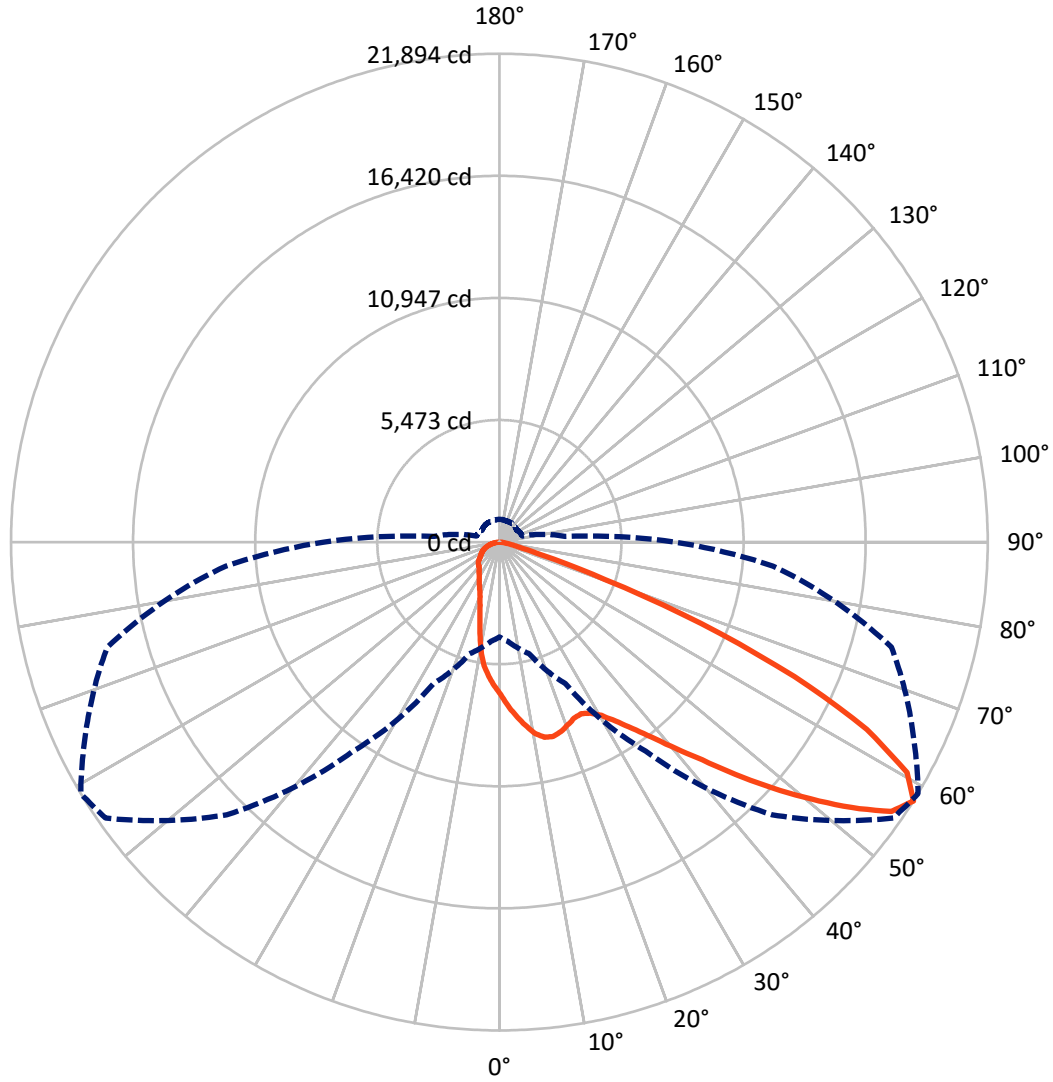
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P640115
CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640115

CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4323.2	0.0	4323.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	23533.6	0.0	23533.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	27856.8	0.0	27856.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.0	2.3
10°-20°	1609.0	5.8
20°-30°	2608.1	9.4
30°-40°	4195.5	15.1
40°-50°	6515.3	23.4
50°-60°	7017.8	25.2
60°-70°	4072.9	14.6
70°-80°	1063.3	3.8
80°-90°	140.1	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°	27856.8	100.0
0°-180°	27856.8	100.0

Coefficient of Utilization



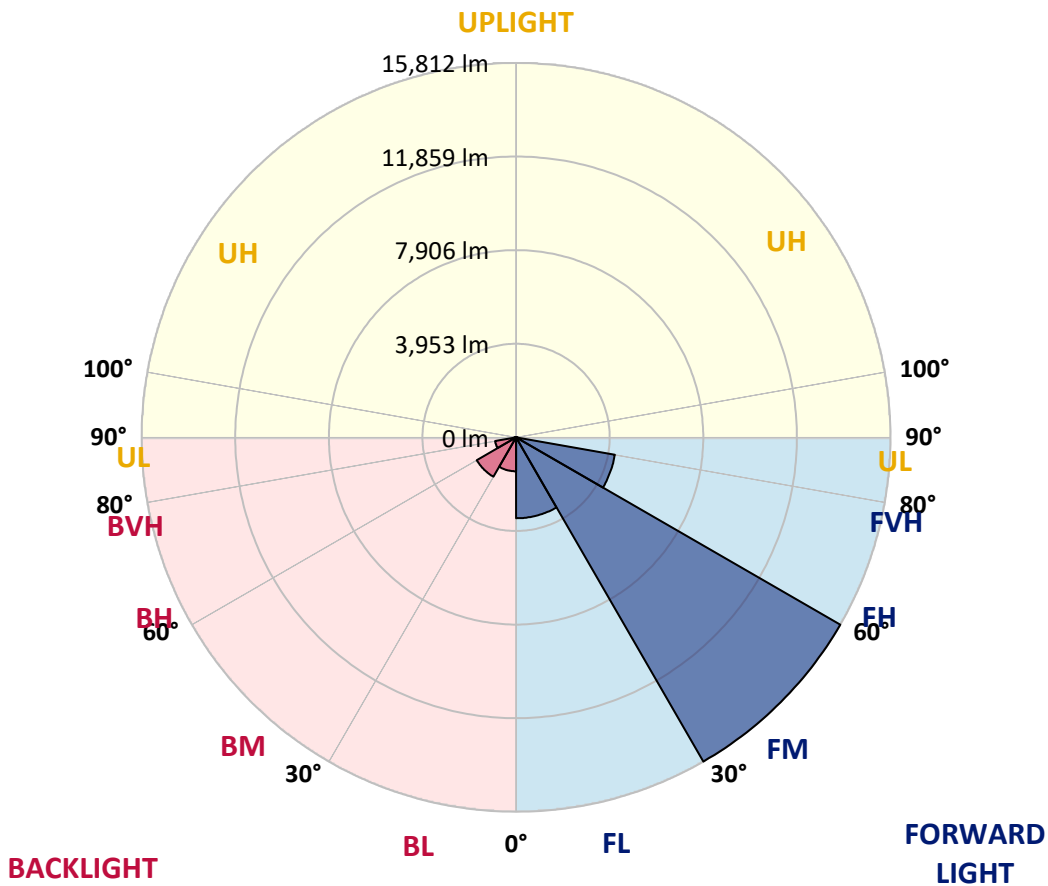
REPORT NUMBER: P640115

CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3417.8	12.3			
FM (30°-60°)	15811.8	56.8			
FH (60°-80°)	4236.9	15.2			G2/5000
FVH (80°-90°)	67.1	0.2			G1/100
BL (0°-30°)	1434.3	5.1	B3/2500		
BM (30°-60°)	1916.7	6.9	B2/2500		
BH (60°-80°)	899.2	3.2	B2/1000		G2/1000
BVH (80°-90°)	73.0	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-G2
 Type II Short





REPORT NUMBER: P640115
 CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3
2.5°	7756.1	7691.4	7736.5	7656.1	7622.7	7534.5	7420.7	7344.2	7226.6	7073.6	6940.3
5°	8526.8	8481.7	8491.5	8405.2	8328.7	8181.6	7948.3	7818.8	7618.8	7310.9	7024.6
7.5°	8503.2	8556.2	8585.6	8660.1	8681.7	8668.0	8458.1	8277.7	8058.1	7595.3	7163.8
10°	7622.7	7722.7	7812.9	8067.9	8377.7	8770.0	8819.0	8711.1	8489.5	7958.1	7330.5
12.5°	6663.8	6740.2	6820.6	7126.6	7601.1	8385.6	8917.0	8983.7	8895.5	8316.9	7518.8
15°	6193.1	6228.4	6304.9	6506.9	6885.4	7756.1	8746.4	9038.6	9197.5	8697.4	7730.6
17.5°	6173.5	6189.2	6226.4	6334.3	6597.1	7269.7	8438.5	8928.8	9434.8	9099.4	7977.7
20°	6579.4	6538.2	6514.7	6512.7	6642.2	7107.0	8140.4	8752.3	9546.5	9511.2	8242.4
22.5°	7142.3	7156.0	7105.0	6979.5	6963.8	7222.7	7991.4	8573.8	9579.9	9876.0	8487.6
25°	7940.4	8009.1	7858.0	7618.8	7501.1	7558.0	8083.6	8518.9	9576.0	10180.0	8640.5
27.5°	8871.9	8924.9	8771.9	8458.1	8215.0	8077.7	8358.1	8681.7	9609.3	10442.8	8732.7
30°	9932.9	9950.5	9740.7	9411.2	9056.3	8762.1	8815.1	9017.0	9779.9	10787.9	8840.6
32.5°	11229.1	11303.7	10986.0	10464.3	9968.2	9591.6	9428.9	9558.3	10148.6	11195.8	9007.2
35°	12874.5	12900.0	12496.0	11748.8	11046.8	10525.1	10183.9	10252.5	10709.5	11766.5	9258.3
37.5°	14425.7	14451.2	14021.7	13327.5	12323.4	11609.6	11115.4	11084.0	11427.2	12572.5	9668.1
40°	15410.2	15482.7	15290.5	14855.2	13896.2	12933.3	12262.6	12154.8	12368.5	13558.9	10238.8
42.5°	15939.7	15971.0	15967.1	16024.0	15453.3	14496.3	13556.9	13341.2	13484.4	14623.8	10815.4
45°	15943.6	16022.0	16231.9	16779.0	16804.5	16208.3	15192.5	14855.2	14723.8	15696.5	11417.4
47.5°	15229.8	15314.1	15890.6	16967.3	17761.5	17896.8	17151.6	16475.0	15922.0	16620.2	11911.6
50°	13068.6	13280.4	14378.6	16282.9	17949.8	19250.0	19020.5	18102.7	16986.9	17334.0	12221.5
52.5°	11191.9	11184.0	11860.6	14349.2	17163.4	19846.1	20828.6	19777.5	18040.0	17787.0	12299.9
55°	8195.4	8240.5	8932.7	10974.2	15065.0	19269.6	21822.9	21318.9	19248.0	18028.2	12268.5
57.5°	4249.7	4473.2	5183.1	7003.0	11446.8	17285.0	21558.2	21893.5	20475.6	18198.8	12309.7
60°	2147.4	2104.2	2359.2	3343.6	6632.4	13500.1	19926.5	20995.3	20697.2	18332.2	12335.2
62.5°	1433.5	1421.8	1351.2	1549.3	2710.2	7995.3	16986.9	18485.1	19157.8	18018.4	12009.7
65°	1241.4	1217.8	1088.4	1080.6	1315.9	3316.2	12450.9	14531.6	15833.8	16624.1	11231.1
67.5°	1117.8	1082.5	951.1	886.4	945.2	1457.1	7016.7	9746.6	11692.0	14059.0	9525.0
70°	998.2	980.5	849.1	755.0	749.1	888.4	2584.7	5030.2	7154.0	9591.6	6963.8
72.5°	894.3	862.9	751.1	660.9	615.8	629.5	1121.7	1937.5	3702.5	5983.3	4165.3
75°	774.6	751.1	653.0	562.8	507.9	460.9	684.4	896.2	1688.5	2843.6	1967.0
77.5°	598.1	582.4	515.8	447.1	415.7	343.2	415.7	564.8	780.5	1198.2	1023.7
80°	347.1	356.9	384.4	349.1	305.9	245.1	270.6	325.5	468.7	649.1	580.5
82.5°	174.5	186.3	249.1	202.0	182.4	143.2	160.8	192.2	245.1	358.9	227.5
85°	13.7	13.7	45.1	51.0	62.8	51.0	64.7	78.4	111.8	143.2	76.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	9.8	17.6	33.3	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640115
 CATALOG NUMBER: GWS-SA5D-730-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3	6838.3
2.5°	6850.1	6750.0	6630.4	6532.4	6381.4	6301.0	6199.0	6073.5	6022.5	5998.9	5985.2
5°	6863.8	6687.3	6432.3	6197.0	5936.2	5730.3	5500.8	5261.6	5124.3	5091.0	5067.4
7.5°	6914.8	6667.7	6261.7	5873.4	5389.0	4940.0	4502.6	4069.2	3847.6	3763.3	3755.5
10°	6985.4	6659.8	6089.2	5444.0	4626.2	3916.3	3404.4	3065.2	2922.0	2874.9	2859.3
12.5°	7073.6	6653.9	5861.7	4847.8	3745.7	3075.0	2782.8	2727.9	2747.5	2743.6	2743.6
15°	7185.4	6661.8	5587.1	4173.2	3029.9	2669.0	2674.9	2739.6	2800.4	2810.2	2810.2
17.5°	7307.0	6653.9	5189.0	3496.6	2600.4	2572.9	2663.1	2753.4	2808.3	2816.1	2816.1
20°	7438.4	6616.7	4687.0	2859.3	2412.1	2512.1	2610.2	2680.8	2714.1	2722.0	2722.0
22.5°	7516.8	6510.8	4141.8	2420.0	2292.5	2416.1	2480.8	2553.3	2557.2	2494.5	2492.5
25°	7505.1	6312.7	3520.1	2137.6	2165.0	2272.9	2355.3	2304.3	2241.5	2206.2	2200.3
27.5°	7430.5	6014.6	2886.7	1923.8	2014.0	2135.6	2110.1	2067.0	2051.3	2012.1	2008.1
30°	7336.4	5647.9	2318.0	1757.1	1857.1	1968.9	1929.7	1925.8	1910.1	1866.9	1866.9
32.5°	7246.2	5269.4	1888.5	1633.6	1757.1	1765.0	1819.9	1823.8	1816.0	1741.4	1733.6
35°	7220.7	4890.9	1598.3	1535.5	1659.1	1655.2	1733.6	1731.6	1596.3	1492.4	1490.4
37.5°	7297.2	4506.6	1425.7	1455.1	1523.8	1574.7	1637.5	1523.8	1478.7	1415.9	1412.0
40°	7459.9	4151.6	1337.5	1408.1	1437.5	1512.0	1413.9	1421.8	1410.0	1363.0	1357.1
42.5°	7675.7	3849.6	1288.4	1392.4	1388.4	1408.1	1300.2	1331.6	1349.2	1313.9	1308.0
45°	7883.5	3586.8	1262.9	1333.5	1353.1	1239.4	1217.8	1247.2	1274.7	1261.0	1255.1
47.5°	8036.5	3359.3	1249.2	1253.1	1308.0	1182.5	1147.2	1161.0	1194.3	1200.2	1198.2
50°	8083.6	3165.2	1233.5	1186.5	1174.7	1125.7	1098.2	1094.3	1133.5	1161.0	1164.9
52.5°	7993.4	2992.6	1192.3	1127.6	1070.7	1078.6	1068.8	1049.2	1088.4	1125.7	1129.6
55°	7860.0	2894.6	1127.6	1070.7	1004.1	1035.5	1039.4	1021.7	1047.2	1072.7	1072.7
57.5°	7869.8	2951.4	1064.9	1017.8	945.2	986.4	1008.0	1000.2	1000.2	1019.8	1021.7
60°	7934.5	3033.8	1023.7	951.1	886.4	929.6	978.6	970.7	953.1	978.6	978.6
62.5°	7748.2	2924.0	996.2	886.4	823.7	874.6	933.5	929.6	909.9	951.1	955.0
65°	7199.1	2629.8	964.9	806.0	760.9	819.7	870.7	884.4	866.8	921.7	931.5
67.5°	6034.2	2212.1	904.1	729.5	698.1	753.1	802.1	821.7	808.0	872.7	880.5
70°	4498.7	1790.5	808.0	645.2	621.7	670.7	715.8	723.6	725.6	802.1	809.9
72.5°	2869.1	1392.4	680.5	551.1	533.4	570.7	604.0	635.4	649.1	721.7	719.7
75°	1600.2	1035.5	547.1	466.7	435.4	464.8	504.0	541.3	580.5	686.4	698.1
77.5°	921.7	727.6	433.4	374.6	337.3	368.7	402.0	455.0	572.6	664.8	653.0
80°	519.7	472.6	327.5	274.6	251.0	274.6	300.0	400.1	451.0	490.3	496.2
82.5°	243.2	264.7	223.6	168.7	168.7	184.3	207.9	309.9	341.2	278.5	243.2
85°	88.2	119.6	109.8	86.3	76.5	74.5	129.4	176.5	109.8	98.1	84.3
87.5°	23.5	33.3	31.4	21.6	11.8	9.8	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

(END OF REPORT)