

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: P637255

Luminaire Tested: GWS-SA4C-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637255
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-SA4C-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19767.2 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

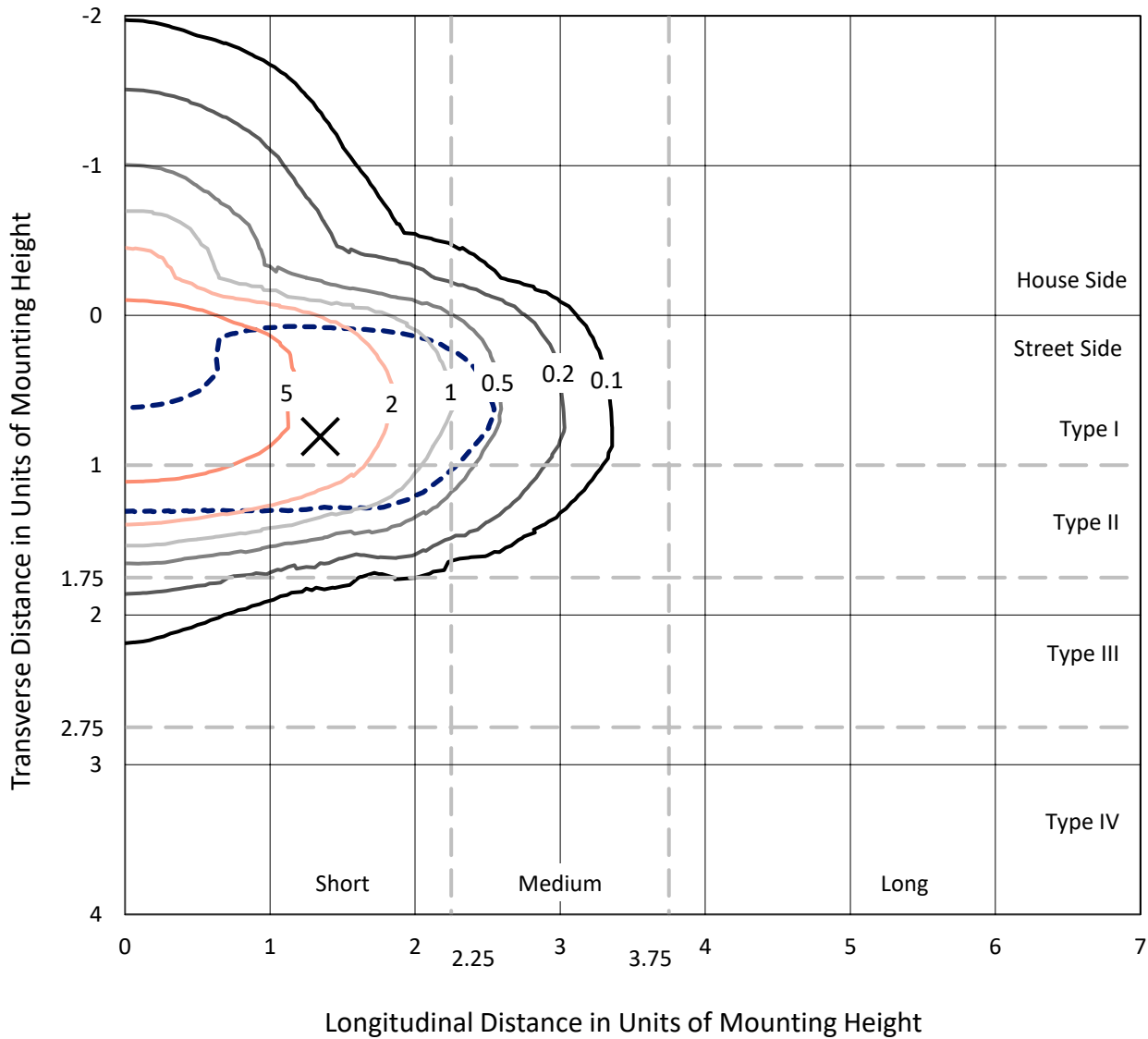
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637255
 CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

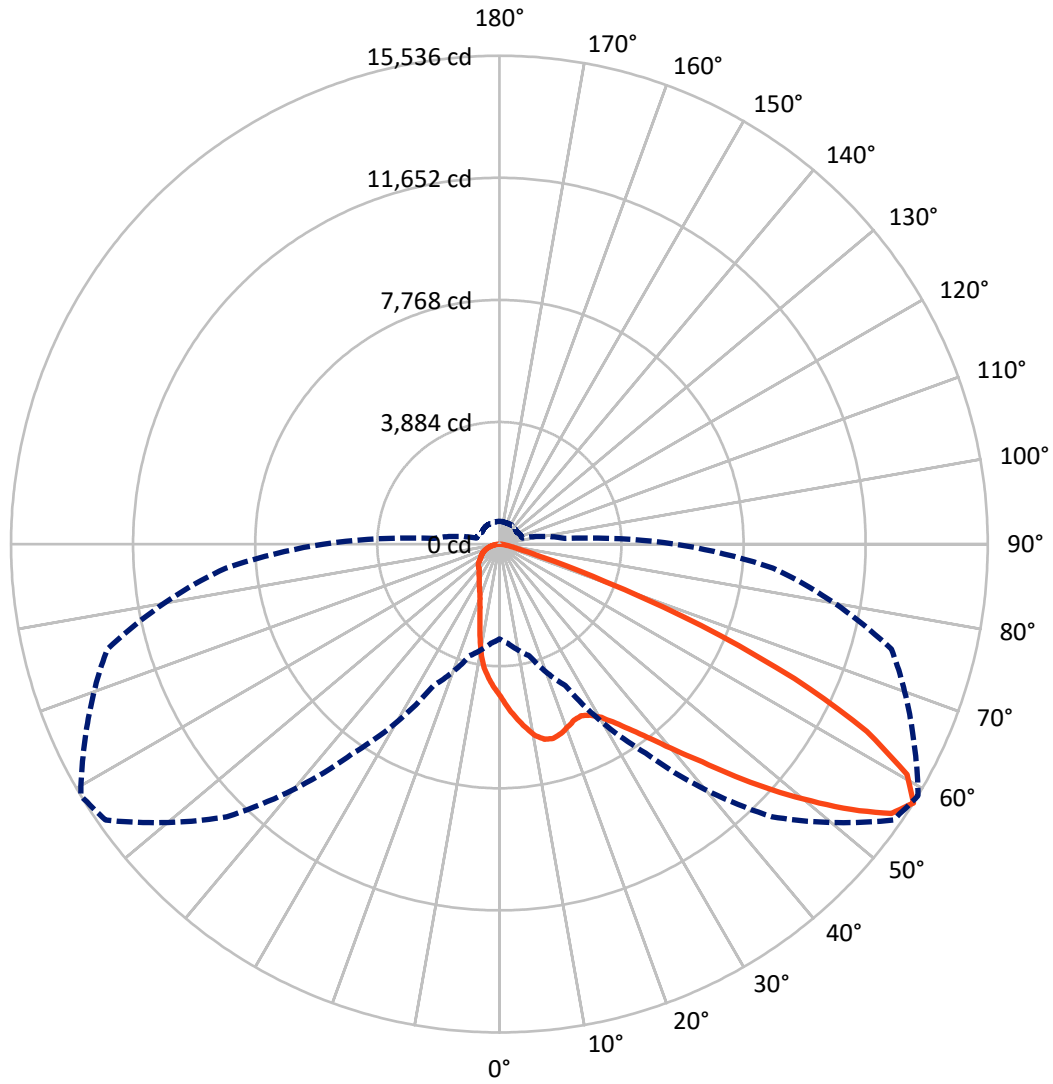
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P637255
CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637255

CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3067.8	0.0	3067.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16699.4	0.0	16699.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	19767.2	0.0	19767.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.6	2.3
10°-20°	1141.7	5.8
20°-30°	1850.7	9.4
30°-40°	2977.2	15.1
40°-50°	4623.2	23.4
50°-60°	4979.8	25.2
60°-70°	2890.1	14.6
70°-80°	754.5	3.8
80°-90°	99.4	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°	19767.2	100.0
0°-180°	19767.2	100.0

Coefficient of Utilization



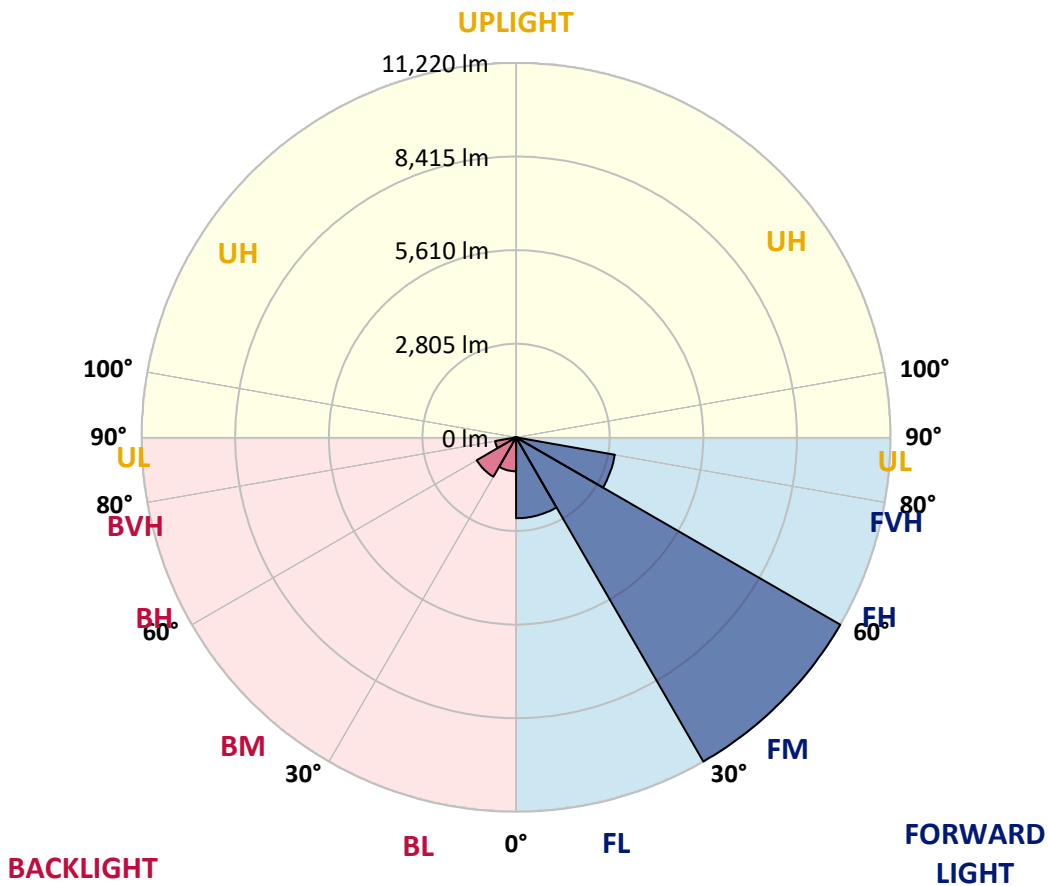
REPORT NUMBER: P637255

CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.2	12.3			
FM (30°-60°)	11220.1	56.8			
FH (60°-80°)	3006.5	15.2			G2/5000
FVH (80°-90°)	47.6	0.2			G1/100
BL (0°-30°)	1017.8	5.1	B3/2500		
BM (30°-60°)	1360.1	6.9	B2/2500		
BH (60°-80°)	638.1	3.2	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P637255

CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5
2.5°	5503.7	5457.8	5489.8	5432.7	5409.1	5346.5	5265.8	5211.5	5128.0	5019.4	4924.8
5°	6050.6	6018.6	6025.6	5964.3	5910.1	5805.7	5640.1	5548.2	5406.3	5187.8	4984.7
7.5°	6033.9	6071.5	6092.4	6145.2	6160.5	6150.8	6001.9	5873.9	5718.0	5389.6	5083.5
10°	5409.1	5480.1	5544.1	5725.0	5944.8	6223.2	6258.0	6181.4	6024.2	5647.0	5201.7
12.5°	4728.6	4782.9	4839.9	5057.0	5393.8	5950.4	6327.5	6374.8	6312.2	5901.7	5335.3
15°	4394.6	4419.7	4473.9	4617.3	4885.9	5503.7	6206.5	6413.8	6526.5	6171.7	5485.6
17.5°	4380.7	4391.8	4418.3	4494.8	4681.3	5158.6	5988.0	6335.9	6694.9	6456.9	5661.0
20°	4668.8	4639.5	4622.8	4621.4	4713.3	5043.1	5776.5	6210.6	6774.2	6749.2	5848.8
22.5°	5068.1	5077.9	5041.7	4952.6	4941.5	5125.2	5670.7	6084.0	6797.9	7008.0	6022.8
25°	5634.5	5683.2	5576.1	5406.3	5322.8	5363.2	5736.1	6045.0	6795.1	7223.7	6131.3
27.5°	6295.5	6333.1	6224.6	6001.9	5829.3	5731.9	5930.9	6160.5	6818.8	7410.2	6196.7
30°	7048.4	7060.9	6912.0	6678.2	6426.3	6217.6	6255.2	6398.5	6939.8	7655.1	6273.3
32.5°	7968.2	8021.1	7795.7	7425.5	7073.4	6806.2	6690.7	6782.6	7201.4	7944.6	6391.5
35°	9135.7	9153.8	8867.2	8337.0	7838.8	7468.6	7226.5	7275.2	7599.4	8349.5	6569.7
37.5°	10236.5	10254.6	9949.8	9457.2	8744.7	8238.2	7887.5	7865.2	8108.8	8921.4	6860.5
40°	10935.1	10986.6	10850.2	10541.2	9860.8	9177.5	8701.6	8625.0	8776.7	9621.4	7265.5
42.5°	11310.8	11333.1	11330.3	11370.6	10965.7	10286.6	9620.0	9466.9	9568.5	10377.0	7674.6
45°	11313.6	11369.2	11518.1	11906.4	11924.5	11501.4	10780.6	10541.2	10448.0	11138.2	8101.8
47.5°	10807.0	10866.9	11276.0	12040.0	12603.6	12699.6	12170.8	11690.7	11298.3	11793.7	8452.5
50°	9273.5	9423.8	10203.1	11554.3	12737.2	13659.8	13497.0	12845.7	12053.9	12300.2	8672.3
52.5°	7941.8	7936.2	8416.3	10182.2	12179.1	14082.8	14780.0	14034.1	12801.2	12621.7	8728.0
55°	5815.4	5847.4	6338.7	7787.3	10690.1	13673.7	15485.5	15127.9	13658.4	12792.8	8705.7
57.5°	3015.6	3174.2	3678.0	4969.3	8122.7	12265.4	15297.7	15535.6	14529.5	12913.9	8735.0
60°	1523.8	1493.2	1674.1	2372.7	4706.3	9579.7	14139.9	14898.3	14686.8	13008.5	8753.1
62.5°	1017.2	1008.9	958.8	1099.4	1923.2	5673.5	12053.9	13117.1	13594.4	12785.9	8522.1
65°	880.9	864.2	772.3	766.8	933.8	2353.2	8835.2	10311.6	11235.6	11796.5	7969.6
67.5°	793.2	768.2	674.9	629.0	670.7	1033.9	4979.1	6916.2	8296.6	9976.3	6758.9
70°	708.3	695.8	602.6	535.8	531.6	630.4	1834.1	3569.4	5076.5	6806.2	4941.5
72.5°	634.6	612.3	533.0	469.0	437.0	446.7	796.0	1374.9	2627.3	4245.7	2955.7
75°	549.7	533.0	463.4	399.4	360.4	327.0	485.7	636.0	1198.2	2017.8	1395.8
77.5°	424.4	413.3	366.0	317.3	295.0	243.5	295.0	400.8	553.9	850.3	726.4
80°	246.3	253.3	272.8	247.7	217.1	173.9	192.0	231.0	332.6	460.6	411.9
82.5°	123.9	132.2	176.7	143.3	129.4	101.6	114.1	136.4	173.9	254.7	161.4
85°	9.7	9.7	32.0	36.2	44.5	36.2	45.9	55.7	79.3	101.6	54.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.0	12.5	23.7	15.3
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: P637255
 CATALOG NUMBER: GWS-SA4C-740-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5
2.5°	4860.8	4789.8	4704.9	4635.4	4528.2	4471.2	4398.8	4309.7	4273.6	4256.9	4247.1
5°	4870.5	4745.3	4564.4	4397.4	4212.3	4066.2	3903.4	3733.6	3636.2	3612.6	3595.9
7.5°	4906.7	4731.4	4443.3	4167.8	3824.1	3505.4	3195.1	2887.5	2730.3	2670.4	2664.9
10°	4956.8	4725.8	4320.9	3863.0	3282.7	2779.0	2415.8	2175.0	2073.5	2040.1	2028.9
12.5°	5019.4	4721.6	4159.4	3440.0	2657.9	2182.0	1974.7	1935.7	1949.6	1946.8	1946.8
15°	5098.8	4727.2	3964.6	2961.3	2150.0	1893.9	1898.1	1944.0	1987.2	1994.1	1994.1
17.5°	5185.0	4721.6	3682.1	2481.2	1845.2	1825.8	1889.8	1953.8	1992.7	1998.3	1998.3
20°	5278.3	4695.2	3325.9	2028.9	1711.6	1782.6	1852.2	1902.3	1926.0	1931.5	1931.5
22.5°	5333.9	4620.1	2939.0	1717.2	1626.8	1714.4	1760.4	1811.8	1814.6	1770.1	1768.7
25°	5325.6	4479.5	2497.9	1516.8	1536.3	1612.8	1671.3	1635.1	1590.6	1565.5	1561.4
27.5°	5272.7	4268.0	2048.4	1365.1	1429.2	1515.4	1497.3	1466.7	1455.6	1427.8	1425.0
30°	5205.9	4007.8	1644.9	1246.9	1317.8	1397.2	1369.3	1366.5	1355.4	1324.8	1324.8
32.5°	5141.9	3739.2	1340.1	1159.2	1246.9	1252.4	1291.4	1294.2	1288.6	1235.7	1230.2
35°	5123.8	3470.6	1134.1	1089.6	1177.3	1174.5	1230.2	1228.8	1132.7	1059.0	1057.6
37.5°	5178.1	3197.9	1011.7	1032.6	1081.3	1117.4	1162.0	1081.3	1049.3	1004.7	1001.9
40°	5293.6	2946.0	949.1	999.2	1020.0	1072.9	1003.3	1008.9	1000.5	967.2	963.0
42.5°	5446.7	2731.7	914.3	988.0	985.2	999.2	922.6	944.9	957.4	932.4	928.2
45°	5594.2	2545.2	896.2	946.3	960.2	879.5	864.2	885.0	904.5	894.8	890.6
47.5°	5702.7	2383.8	886.4	889.2	928.2	839.1	814.1	823.8	847.5	851.6	850.3
50°	5736.1	2246.0	875.3	841.9	833.6	798.8	779.3	776.5	804.3	823.8	826.6
52.5°	5672.1	2123.6	846.1	800.2	759.8	765.4	758.4	744.5	772.3	798.8	801.6
55°	5577.5	2054.0	800.2	759.8	712.5	734.8	737.5	725.0	743.1	761.2	761.2
57.5°	5584.4	2094.3	755.6	722.2	670.7	700.0	715.3	709.7	709.7	723.6	725.0
60°	5630.3	2152.8	726.4	674.9	629.0	659.6	694.4	688.8	676.3	694.4	694.4
62.5°	5498.1	2074.9	706.9	629.0	584.5	620.6	662.4	659.6	645.7	674.9	677.7
65°	5108.5	1866.1	684.7	571.9	539.9	581.7	617.9	627.6	615.1	654.0	661.0
67.5°	4281.9	1569.7	641.5	517.7	495.4	534.4	569.2	583.1	573.3	619.3	624.8
70°	3192.3	1270.5	573.3	457.8	441.1	475.9	507.9	513.5	514.9	569.2	574.7
72.5°	2035.9	988.0	482.9	391.0	378.5	405.0	428.6	450.9	460.6	512.1	510.7
75°	1135.5	734.8	388.3	331.2	308.9	329.8	357.6	384.1	411.9	487.1	495.4
77.5°	654.0	516.3	307.5	265.8	239.4	261.6	285.3	322.8	406.3	471.7	463.4
80°	368.8	335.4	232.4	194.8	178.1	194.8	212.9	283.9	320.1	347.9	352.1
82.5°	172.6	187.9	158.6	119.7	119.7	130.8	147.5	219.9	242.1	197.6	172.6
85°	62.6	84.9	77.9	61.2	54.3	52.9	91.8	125.2	77.9	69.6	59.8
87.5°	16.7	23.7	22.3	15.3	8.3	7.0	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

(END OF REPORT)