

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: P637310

Luminaire Tested: GWS-SA4C-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637310
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-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20220.1 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

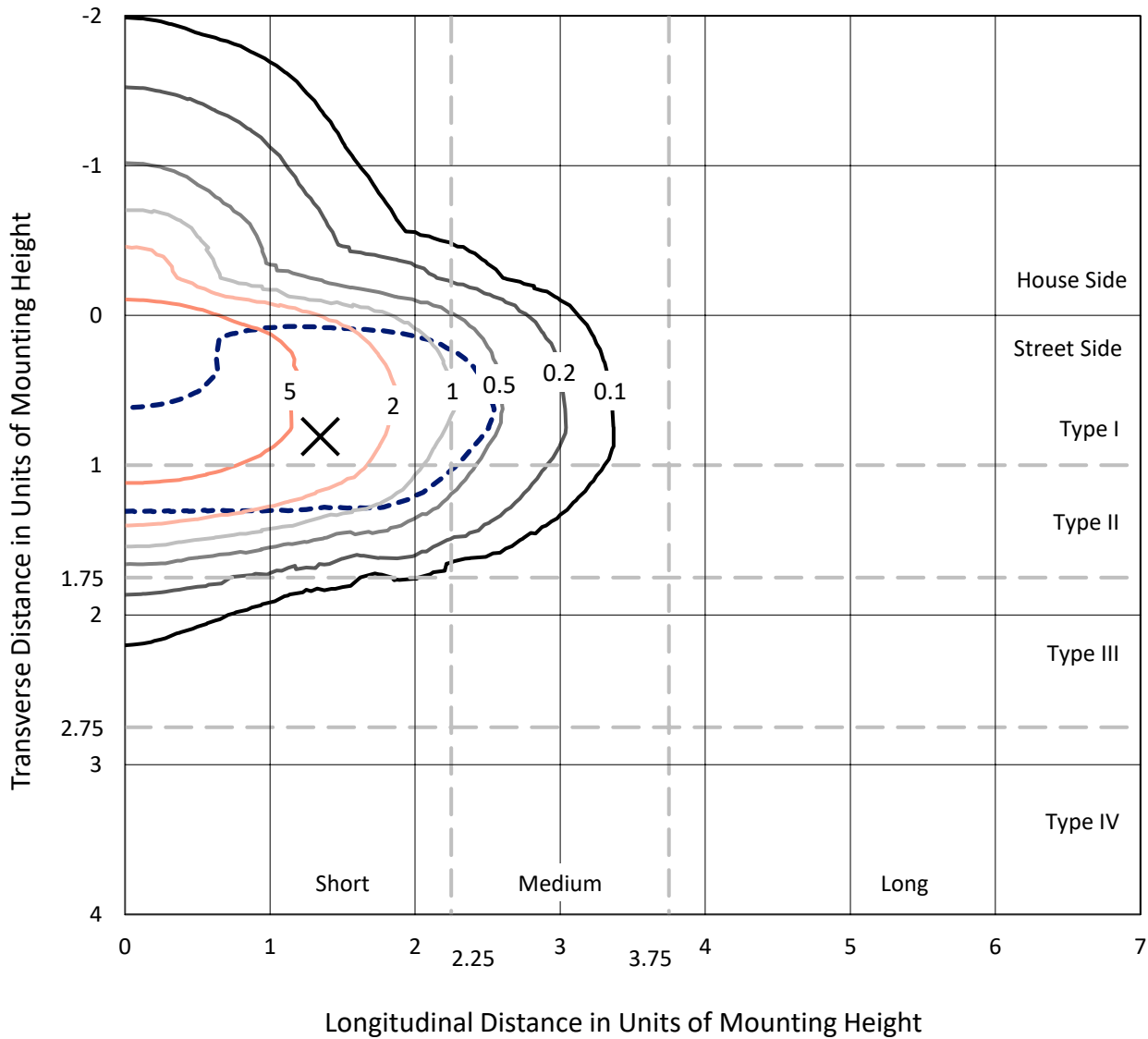
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

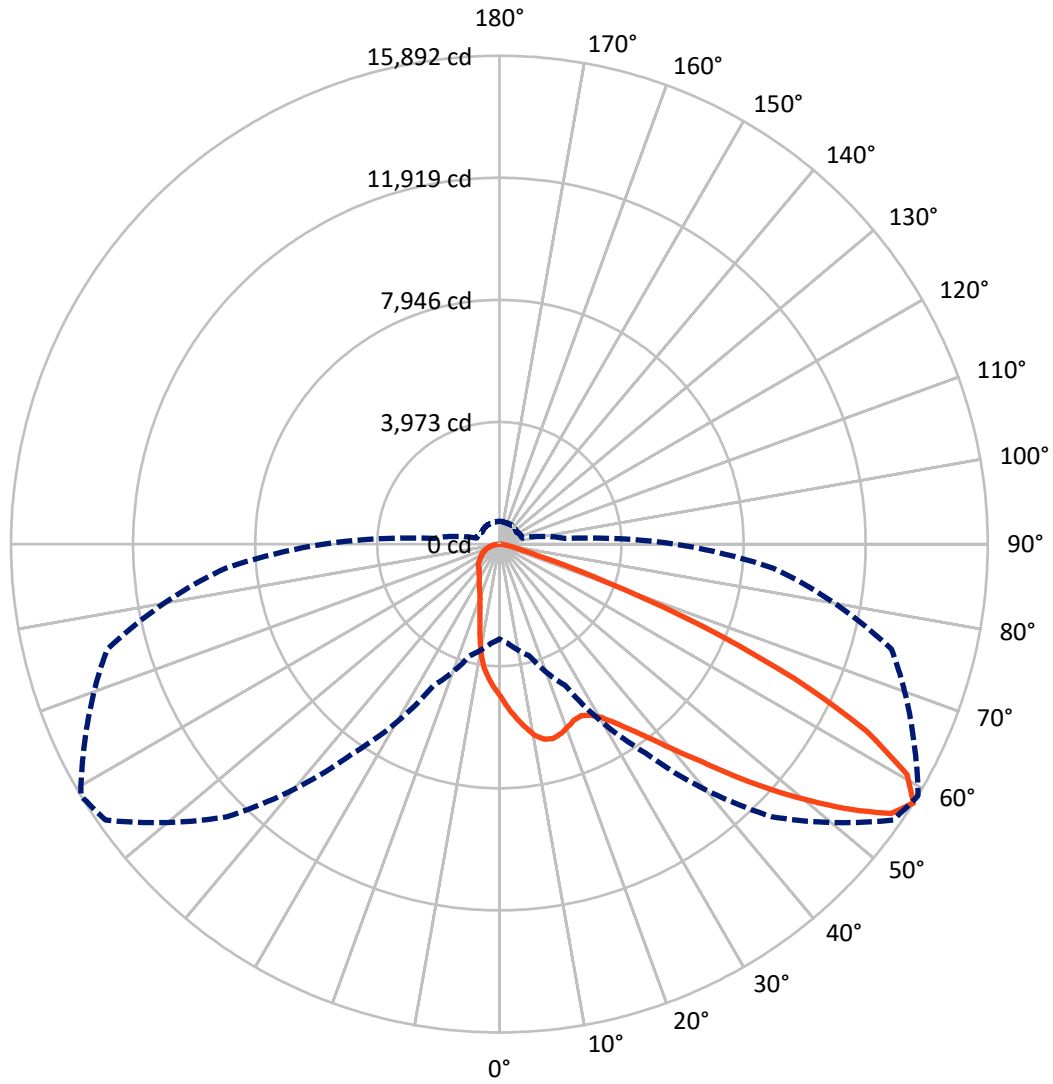
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3138.0	0.0	3138.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17082.0	0.0	17082.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	20220.1	0.0	20220.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	2.3
10°-20°	1167.9	5.8
20°-30°	1893.1	9.4
30°-40°	3045.4	15.1
40°-50°	4729.2	23.4
50°-60°	5093.9	25.2
60°-70°	2956.3	14.6
70°-80°	771.8	3.8
80°-90°	101.7	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°	20220.1	100.0
0°-180°	20220.1	100.0

Coefficient of Utilization



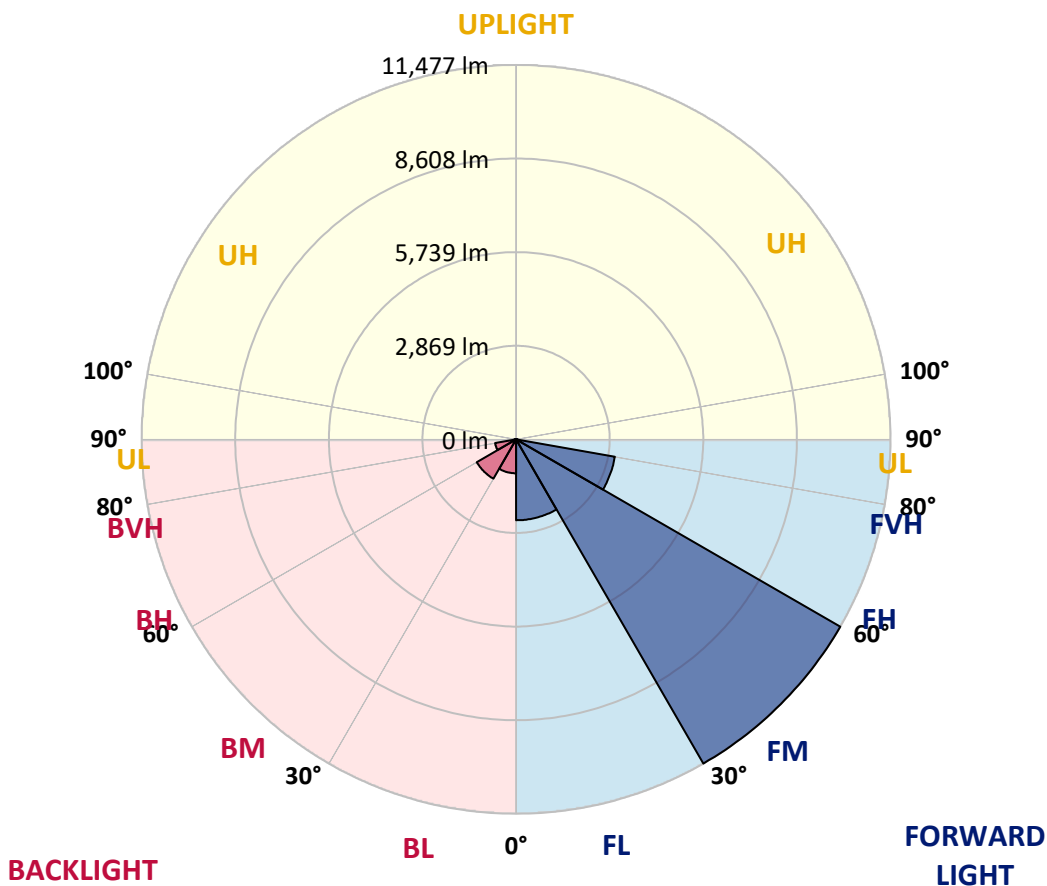
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2480.8	12.3			
FM (30°-60°)	11477.2	56.8			
FH (60°-80°)	3075.4	15.2			G2/5000
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	1041.1	5.1	B3/2500		
BM (30°-60°)	1391.3	6.9	B2/2500		
BH (60°-80°)	652.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	53.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6
2.5°	5629.8	5582.8	5615.6	5557.2	5533.0	5469.0	5386.4	5330.9	5245.5	5134.4	5037.7
5°	6189.2	6156.5	6163.6	6101.0	6045.5	5938.7	5769.3	5675.4	5530.2	5306.7	5098.9
7.5°	6172.2	6210.6	6231.9	6286.0	6301.7	6291.7	6139.4	6008.5	5849.0	5513.1	5199.9
10°	5533.0	5605.6	5671.1	5856.1	6081.1	6365.7	6401.3	6323.0	6162.2	5776.4	5320.9
12.5°	4836.9	4892.5	4950.8	5172.9	5517.4	6086.7	6472.5	6520.9	6456.8	6036.9	5457.6
15°	4495.3	4520.9	4576.4	4723.1	4997.8	5629.8	6348.7	6560.8	6676.1	6313.1	5611.3
17.5°	4481.1	4492.5	4519.5	4597.8	4788.5	5276.8	6125.2	6481.0	6848.3	6604.9	5790.7
20°	4775.7	4745.8	4728.8	4727.3	4821.3	5158.6	5908.8	6352.9	6929.4	6903.8	5982.8
22.5°	5184.3	5194.2	5157.2	5066.1	5054.7	5242.6	5800.6	6223.4	6953.6	7168.6	6160.8
25°	5763.6	5813.4	5703.8	5530.2	5444.8	5486.0	5867.5	6183.5	6950.8	7389.2	6271.8
27.5°	6439.8	6478.2	6367.2	6139.4	5962.9	5863.3	6066.8	6301.7	6975.0	7580.0	6338.7
30°	7209.9	7222.7	7070.4	6831.2	6573.6	6360.1	6398.5	6545.1	7098.8	7830.5	6417.0
32.5°	8150.8	8204.9	7974.3	7595.6	7235.5	6962.2	6844.0	6938.0	7366.4	8126.6	6538.0
35°	9345.1	9363.6	9070.3	8528.0	8018.4	7639.7	7392.1	7441.9	7773.6	8540.8	6720.2
37.5°	10471.0	10489.5	10177.8	9673.9	8945.1	8426.9	8068.2	8045.4	8294.5	9125.8	7017.7
40°	11185.6	11238.3	11098.8	10782.8	10086.7	9387.8	8900.9	8822.6	8977.8	9841.9	7431.9
42.5°	11569.9	11592.7	11589.9	11631.2	11216.9	10522.3	9840.4	9683.8	9787.8	10614.8	7850.4
45°	11572.8	11629.7	11782.0	12179.2	12197.7	11765.0	11027.6	10782.8	10687.4	11393.4	8287.4
47.5°	11054.6	11115.9	11534.4	12315.8	12892.3	12990.6	12449.6	11958.5	11557.1	12063.9	8646.1
50°	9486.0	9639.7	10436.9	11819.0	13029.0	13972.8	13806.2	13140.0	12330.1	12582.0	8871.0
52.5°	8123.7	8118.0	8609.1	10415.5	12458.2	14405.5	15118.6	14355.7	13094.5	12910.8	8928.0
55°	5948.7	5981.4	6483.9	7965.7	10935.1	13987.0	15840.3	15474.5	13971.3	13085.9	8905.2
57.5°	3084.7	3246.9	3762.2	5083.2	8308.8	12546.4	15648.2	15891.6	14862.4	13209.8	8935.1
60°	1558.7	1527.4	1712.4	2427.0	4814.2	9799.1	14463.9	15239.6	15023.3	13306.6	8953.6
62.5°	1040.6	1032.0	980.8	1124.5	1967.2	5803.5	12330.1	13417.6	13905.9	13078.8	8717.3
65°	901.1	884.0	790.0	784.3	955.1	2407.1	9037.6	10547.9	11493.1	12066.7	8152.2
67.5°	811.4	785.8	690.4	643.4	686.1	1057.6	5093.2	7074.6	8486.7	10204.8	6913.8
70°	724.5	711.7	616.4	548.0	543.8	644.8	1876.1	3651.2	5192.8	6962.2	5054.7
72.5°	649.1	626.3	545.2	479.7	447.0	456.9	814.2	1406.4	2687.5	4343.0	3023.4
75°	562.3	545.2	474.0	408.5	368.7	334.5	496.8	650.5	1225.6	2064.0	1427.7
77.5°	434.2	422.8	374.4	324.6	301.8	249.1	301.8	410.0	566.5	869.7	743.0
80°	252.0	259.1	279.0	253.4	222.1	177.9	196.4	236.3	340.2	471.2	421.3
82.5°	126.7	135.2	180.8	146.6	132.4	103.9	116.7	139.5	177.9	260.5	165.1
85°	10.0	10.0	32.7	37.0	45.6	37.0	47.0	56.9	81.1	103.9	55.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.1	12.8	24.2	15.7
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°	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6	4963.6
2.5°	4972.2	4899.6	4812.7	4741.6	4632.0	4573.6	4499.6	4408.5	4371.5	4354.4	4344.4
5°	4982.1	4854.0	4669.0	4498.2	4308.8	4159.4	3992.8	3819.2	3719.5	3695.3	3678.2
7.5°	5019.1	4839.8	4545.1	4263.3	3911.7	3585.7	3268.3	2953.7	2792.8	2731.6	2725.9
10°	5070.4	4834.1	4419.9	3951.5	3358.0	2842.7	2471.1	2224.9	2121.0	2086.8	2075.4
12.5°	5134.4	4829.8	4254.7	3518.8	2718.8	2232.0	2019.9	1980.0	1994.3	1991.4	1991.4
15°	5215.6	4835.5	4055.5	3029.1	2199.3	1937.3	1941.6	1988.6	2032.7	2039.8	2039.8
17.5°	5303.8	4829.8	3766.5	2538.0	1887.5	1867.6	1933.1	1998.5	2038.4	2044.1	2044.1
20°	5399.2	4802.8	3402.1	2075.4	1750.9	1823.5	1894.6	1945.9	1970.1	1975.8	1975.8
22.5°	5456.1	4725.9	3006.4	1756.6	1664.0	1753.7	1800.7	1853.4	1856.2	1810.7	1809.2
25°	5447.6	4582.1	2555.1	1551.6	1571.5	1649.8	1709.6	1672.6	1627.0	1601.4	1597.1
27.5°	5393.5	4365.8	2095.3	1396.4	1461.9	1550.2	1531.7	1500.3	1488.9	1460.5	1457.6
30°	5325.2	4099.6	1682.5	1275.4	1348.0	1429.2	1400.7	1397.8	1386.5	1355.1	1355.1
32.5°	5259.7	3824.9	1370.8	1185.7	1275.4	1281.1	1321.0	1323.8	1318.1	1264.0	1258.3
35°	5241.2	3550.1	1160.1	1114.6	1204.3	1201.4	1258.3	1256.9	1158.7	1083.3	1081.8
37.5°	5296.7	3271.1	1034.9	1056.2	1106.0	1143.0	1188.6	1106.0	1073.3	1027.7	1024.9
40°	5414.9	3013.5	970.8	1022.0	1043.4	1097.5	1026.3	1032.0	1023.5	989.3	985.0
42.5°	5571.5	2794.3	935.2	1010.7	1007.8	1022.0	943.8	966.5	979.3	953.7	949.5
45°	5722.3	2603.5	916.7	968.0	982.2	899.6	884.0	905.3	925.3	915.3	911.0
47.5°	5833.4	2438.4	906.7	909.6	949.5	858.4	832.7	842.7	866.9	871.2	869.7
50°	5867.5	2297.5	895.4	861.2	852.7	817.1	797.1	794.3	822.8	842.7	845.5
52.5°	5802.1	2172.2	865.5	818.5	777.2	782.9	775.8	761.6	790.0	817.1	819.9
55°	5705.3	2101.0	818.5	777.2	728.8	751.6	754.4	741.6	760.1	778.6	778.6
57.5°	5712.4	2142.3	772.9	738.8	686.1	716.0	731.7	726.0	726.0	740.2	741.6
60°	5759.3	2202.1	743.0	690.4	643.4	674.7	710.3	704.6	691.8	710.3	710.3
62.5°	5624.1	2122.4	723.1	643.4	597.9	634.9	677.6	674.7	660.5	690.4	693.2
65°	5225.5	1908.9	700.3	585.0	552.3	595.0	632.0	642.0	629.2	669.0	676.1
67.5°	4380.0	1605.7	656.2	529.5	506.8	546.6	582.2	596.4	586.5	633.4	639.1
70°	3265.4	1299.6	586.5	468.3	451.2	486.8	519.6	525.3	526.7	582.2	587.9
72.5°	2082.5	1010.7	493.9	400.0	387.2	414.2	438.4	461.2	471.2	523.8	522.4
75°	1161.5	751.6	397.1	338.8	316.0	337.4	365.8	392.9	421.3	498.2	506.8
77.5°	669.0	528.1	314.6	271.9	244.8	267.6	291.8	330.2	415.7	482.6	474.0
80°	377.2	343.1	237.7	199.3	182.2	199.3	217.8	290.4	327.4	355.9	360.1
82.5°	176.5	192.2	162.3	122.4	122.4	133.8	150.9	224.9	247.7	202.1	176.5
85°	64.1	86.8	79.7	62.6	55.5	54.1	93.9	128.1	79.7	71.2	61.2
87.5°	17.1	24.2	22.8	15.7	8.5	7.1	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)