

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: P636735

Luminaire Tested: GWS-SA4B-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14556.9 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.4
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

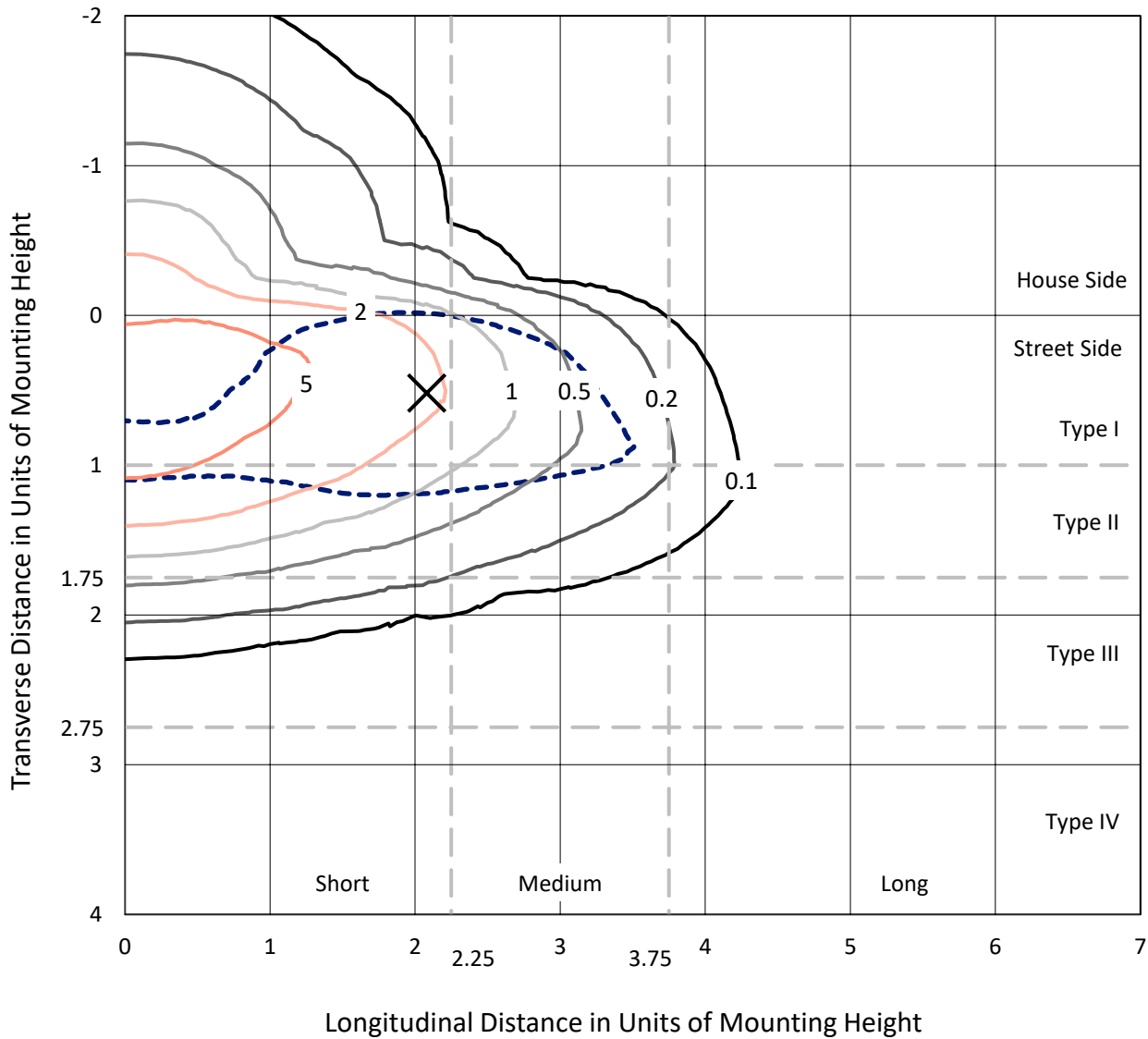


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Iso-Footcandle Lines of Horizontal Illumination

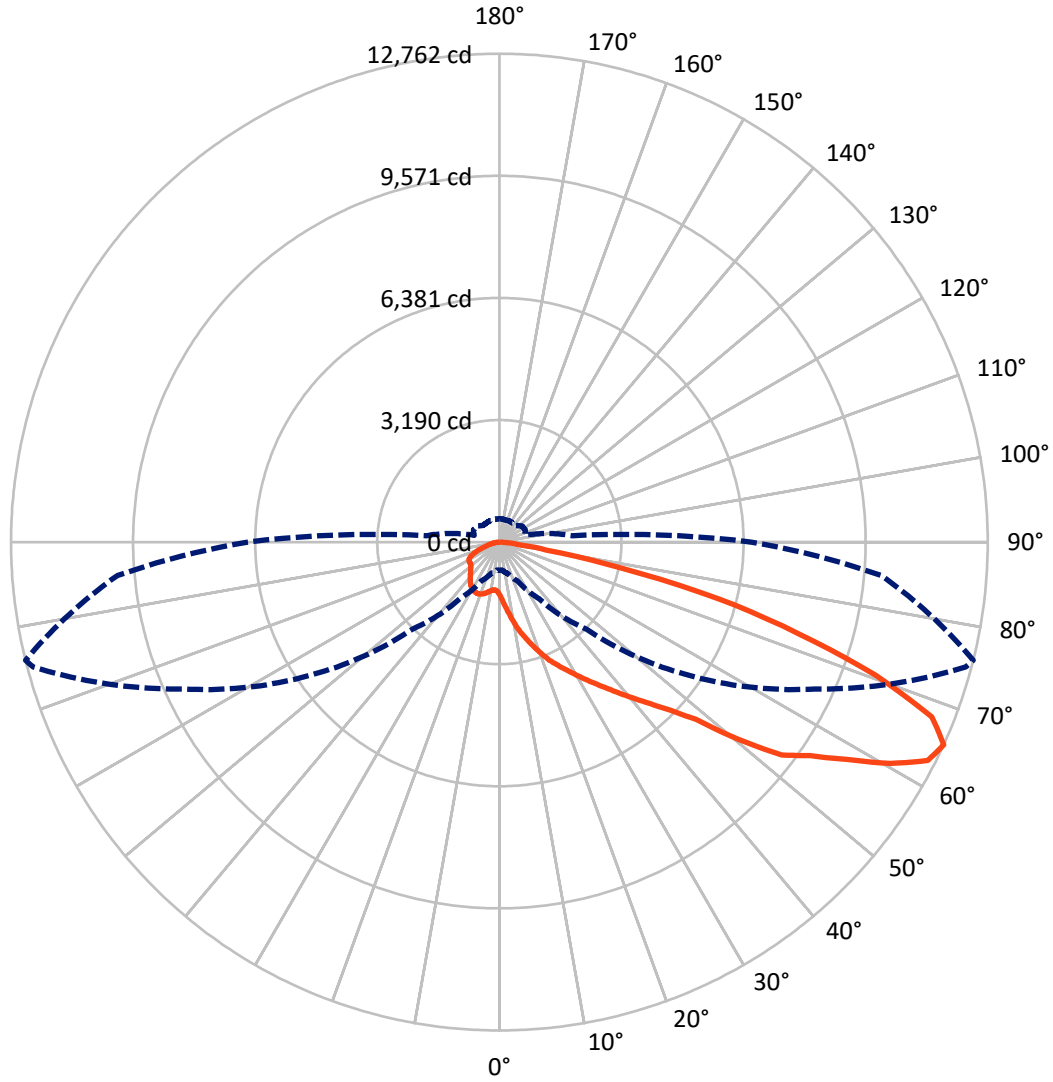
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2433.2	0.0	2433.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12123.7	0.0	12123.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	14556.9	0.0	14556.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.1
10°-20°	623.8	4.3
20°-30°	1215.7	8.4
30°-40°	2033.1	14.0
40°-50°	2911.1	20.0
50°-60°	3446.3	23.7
60°-70°	2865.6	19.7
70°-80°	1172.7	8.1
80°-90°	124.8	0.9
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°	14556.9	100.0
0°-180°	14556.9	100.0

Coefficient of Utilization



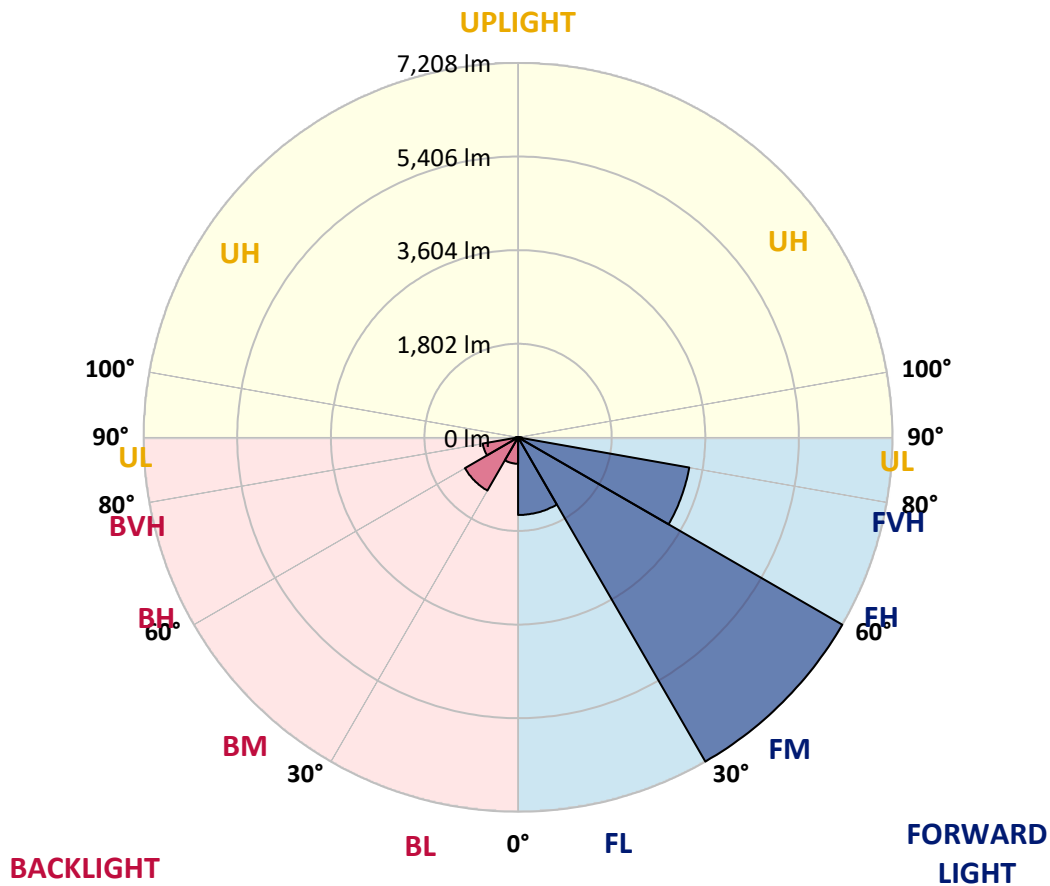
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.2	10.3			
FM (30°-60°)	7208.0	49.5			
FH (60°-80°)	3347.0	23.0			G2/5000
FVH (80°-90°)	74.5	0.5			G1/100
BL (0°-30°)	509.0	3.5	B2/1000		
BM (30°-60°)	1182.5	8.1	B2/2500		
BH (60°-80°)	691.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	50.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1932.1	1939.3	1915.8	1907.6	1852.3	1777.6	1715.2	1621.0	1534.0	1520.7	1443.0
5°	2454.1	2423.3	2396.7	2379.3	2302.6	2217.7	2085.6	1908.6	1723.4	1700.8	1533.0
7.5°	2764.1	2759.0	2726.3	2716.0	2656.7	2571.7	2435.6	2215.6	1946.5	1909.6	1654.8
10°	3012.8	3009.7	2993.4	3002.6	2948.3	2865.4	2733.4	2506.2	2191.0	2154.2	1790.9
12.5°	3229.8	3234.9	3231.8	3265.6	3238.0	3173.5	3036.4	2786.6	2435.6	2395.7	1956.7
15°	3388.4	3392.5	3407.8	3481.5	3496.9	3483.6	3344.4	3061.9	2677.1	2619.8	2127.6
17.5°	3433.4	3441.6	3478.4	3597.2	3680.1	3735.3	3632.0	3342.3	2914.6	2852.1	2301.6
20°	3493.8	3503.0	3539.9	3663.7	3785.5	3911.3	3892.9	3626.8	3154.0	3102.9	2477.6
22.5°	3773.2	3766.0	3749.6	3809.0	3896.0	4052.6	4098.6	3900.1	3401.7	3352.6	2672.0
25°	4311.5	4298.2	4193.8	4139.5	4110.9	4206.1	4287.9	4148.8	3643.2	3569.5	2853.2
27.5°	4905.0	4897.9	4764.8	4635.9	4459.9	4418.9	4467.0	4365.7	3877.6	3802.9	3010.8
30°	5466.9	5445.4	5306.2	5144.5	4909.1	4733.1	4662.5	4578.6	4134.4	4056.7	3195.0
32.5°	5969.3	5941.7	5778.0	5598.9	5352.2	5144.5	4933.7	4804.7	4425.1	4335.0	3383.3
35°	6381.8	6354.1	6186.3	5995.9	5724.8	5571.2	5282.7	5050.4	4720.8	4629.7	3605.3
37.5°	6701.1	6675.5	6500.5	6313.2	6076.8	5955.0	5704.3	5326.7	5061.6	4966.4	3840.7
40°	6880.1	6861.7	6721.5	6573.1	6374.6	6269.2	6156.6	5675.6	5443.3	5348.2	4118.1
42.5°	6934.4	6922.1	6823.9	6747.1	6613.0	6533.2	6597.7	6086.0	5850.6	5767.7	4430.2
45°	6798.3	6798.3	6769.6	6808.5	6814.6	6813.6	7039.8	6549.6	6351.1	6260.0	4870.2
47.5°	6450.3	6472.8	6514.8	6706.2	6907.8	7076.6	7556.6	7167.7	6994.8	6920.1	5493.5
50°	5813.8	5875.2	6018.5	6392.0	6820.8	7250.6	8045.8	8081.6	8246.3	8114.3	6410.4
52.5°	4881.5	4872.3	5237.6	5769.8	6423.7	7257.8	8314.9	8888.0	9331.1	9240.0	7092.0
55°	3879.6	3864.3	4205.0	4938.8	5814.8	6983.5	8476.6	9257.4	9932.9	9851.0	7705.0
57.5°	2970.9	2951.4	3254.3	3916.5	4955.2	6401.2	8445.9	9697.5	10760.8	10718.8	8538.0
60°	2044.7	2021.2	2304.6	2883.9	3937.9	5510.9	8106.1	9923.7	11729.9	11744.2	9429.4
62.5°	1228.0	1214.7	1420.4	1869.7	2832.7	4407.7	7311.0	9786.5	12501.5	12566.0	10002.5
65°	740.9	731.7	852.5	1115.5	1797.0	3216.5	6085.0	9085.5	12613.1	12761.5	10015.8
67.5°	539.3	540.3	575.1	679.5	1047.9	2077.4	4566.3	7828.8	12031.8	12185.3	9384.3
70°	468.7	470.8	489.2	512.7	633.5	1189.2	2968.8	6180.2	10313.6	10432.3	7870.8
72.5°	416.5	416.5	428.8	441.1	495.3	724.5	1590.3	4319.7	8139.9	8171.6	6007.2
75°	366.4	363.3	369.4	375.6	429.8	506.6	773.7	3009.7	6012.3	5938.6	3882.7
77.5°	291.7	288.6	289.6	295.8	344.9	362.3	392.0	1879.9	3388.4	3198.0	1715.2
80°	207.7	205.7	217.0	232.3	254.8	222.1	245.6	909.8	1343.7	1250.6	665.2
82.5°	123.8	127.9	145.3	157.6	176.0	139.2	158.6	303.9	475.9	463.6	270.2
85°	17.4	18.4	52.2	60.4	75.7	54.2	83.9	137.1	190.3	203.7	95.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	24.6	54.2	55.3	23.5
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°	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1403.0	1354.9	1286.4	1229.1	1181.0	1142.1	1109.3	1084.8	1077.6	1067.4	1067.4
5°	1454.2	1367.2	1244.4	1157.4	1107.3	1077.6	1057.1	1046.9	1041.8	1035.7	1032.6
7.5°	1524.8	1403.0	1237.3	1149.2	1110.4	1091.9	1078.6	1072.5	1068.4	1062.3	1062.3
10°	1622.0	1456.3	1259.8	1177.9	1147.2	1128.8	1113.4	1103.2	1094.0	1084.8	1082.7
12.5°	1727.5	1525.9	1300.7	1216.8	1184.0	1161.5	1140.0	1124.7	1113.4	1102.2	1099.1
15°	1844.1	1597.5	1344.7	1254.7	1213.7	1183.0	1157.4	1133.9	1118.5	1102.2	1100.1
17.5°	1958.7	1670.1	1381.6	1280.2	1228.0	1190.2	1153.3	1122.6	1103.2	1084.8	1079.7
20°	2095.9	1742.8	1407.1	1287.4	1225.0	1174.8	1130.8	1091.9	1070.4	1049.0	1045.9
22.5°	2221.7	1810.3	1419.4	1277.2	1201.4	1142.1	1090.9	1049.0	1025.4	1003.9	999.8
25°	2343.5	1869.7	1414.3	1252.6	1165.6	1097.1	1043.8	1001.9	979.4	956.9	950.7
27.5°	2461.2	1909.6	1393.8	1214.7	1120.6	1046.9	995.7	957.9	938.4	919.0	910.8
30°	2576.9	1946.5	1362.1	1165.6	1063.3	994.7	952.8	926.2	906.7	886.2	880.1
32.5°	2693.5	1973.1	1314.0	1108.3	1005.0	948.7	923.1	903.6	883.2	862.7	856.6
35°	2811.2	1984.3	1255.7	1042.8	955.8	919.0	909.8	887.3	859.6	835.1	826.9
37.5°	2951.4	1994.6	1183.0	978.3	912.8	904.7	902.6	868.8	836.1	802.3	793.1
40°	3120.3	2007.9	1108.3	920.0	878.1	899.5	891.4	845.3	779.8	747.1	736.8
42.5°	3327.0	2032.4	1030.5	866.8	852.5	880.1	870.9	788.0	744.0	725.6	720.5
45°	3630.9	2122.5	952.8	824.8	833.0	852.5	838.1	754.2	736.8	724.5	718.4
47.5°	4172.3	2260.6	885.2	793.1	817.7	827.9	772.6	745.0	731.7	715.3	708.2
50°	4735.2	2321.0	831.0	773.7	800.3	805.4	736.8	732.7	723.5	706.1	699.0
52.5°	5115.8	2312.8	798.2	766.5	786.0	766.5	720.5	719.4	713.3	692.8	684.6
55°	5545.7	2327.2	783.9	768.6	779.8	701.0	700.0	703.1	700.0	677.5	673.4
57.5°	6125.9	2371.2	776.7	775.7	775.7	669.3	680.5	684.6	678.5	668.3	665.2
60°	6683.7	2374.2	763.4	783.9	772.6	649.8	658.0	662.1	655.0	652.9	651.9
62.5°	6893.4	2226.9	733.8	777.8	760.4	628.4	634.5	636.5	629.4	634.5	633.5
65°	6581.3	1913.7	684.6	748.1	722.5	608.9	604.8	609.9	597.7	611.0	612.0
67.5°	5843.5	1520.7	609.9	691.8	669.3	587.4	579.2	579.2	558.8	579.2	578.2
70°	4711.6	1074.5	500.4	601.7	611.0	561.8	557.7	534.2	501.5	532.2	529.1
72.5°	3571.6	771.6	394.0	475.9	526.0	526.0	527.0	487.1	449.3	463.6	451.3
75°	2262.7	543.4	315.2	364.3	412.4	461.5	485.1	411.4	377.6	371.5	365.3
77.5°	1019.3	357.2	245.6	279.4	292.7	364.3	443.1	354.1	308.0	294.7	290.6
80°	426.7	222.1	175.0	197.5	180.1	306.0	390.9	275.3	226.2	207.7	194.4
82.5°	187.3	132.0	111.5	106.4	112.6	227.2	291.7	183.2	141.2	191.4	193.4
85°	78.8	69.6	57.3	52.2	46.1	87.0	137.1	71.6	88.0	50.1	40.9
87.5°	18.4	20.5	15.4	10.2	6.1	1.0	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)