

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: P639380

Luminaire Tested: GWS-SA5B-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11235.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

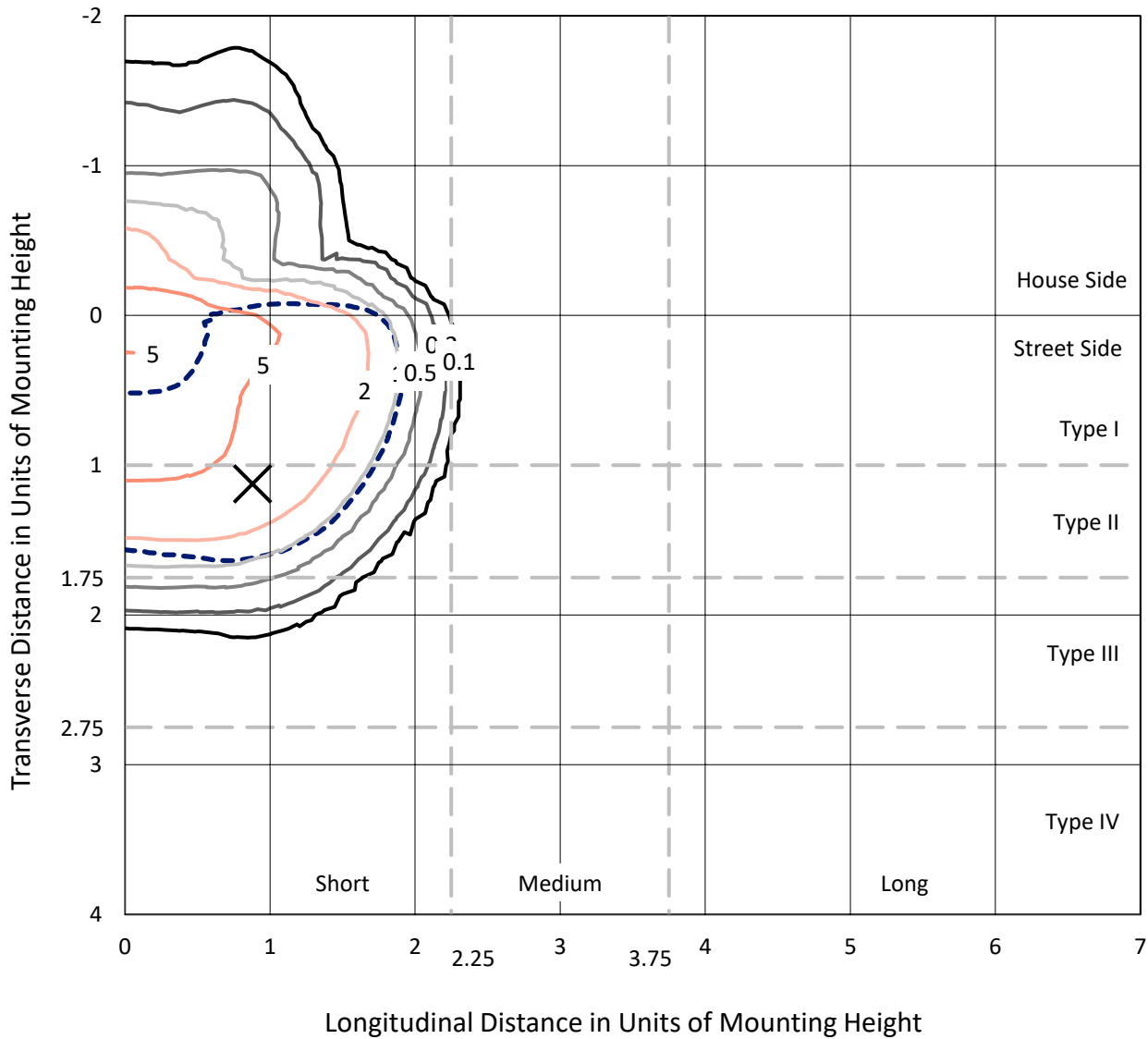
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

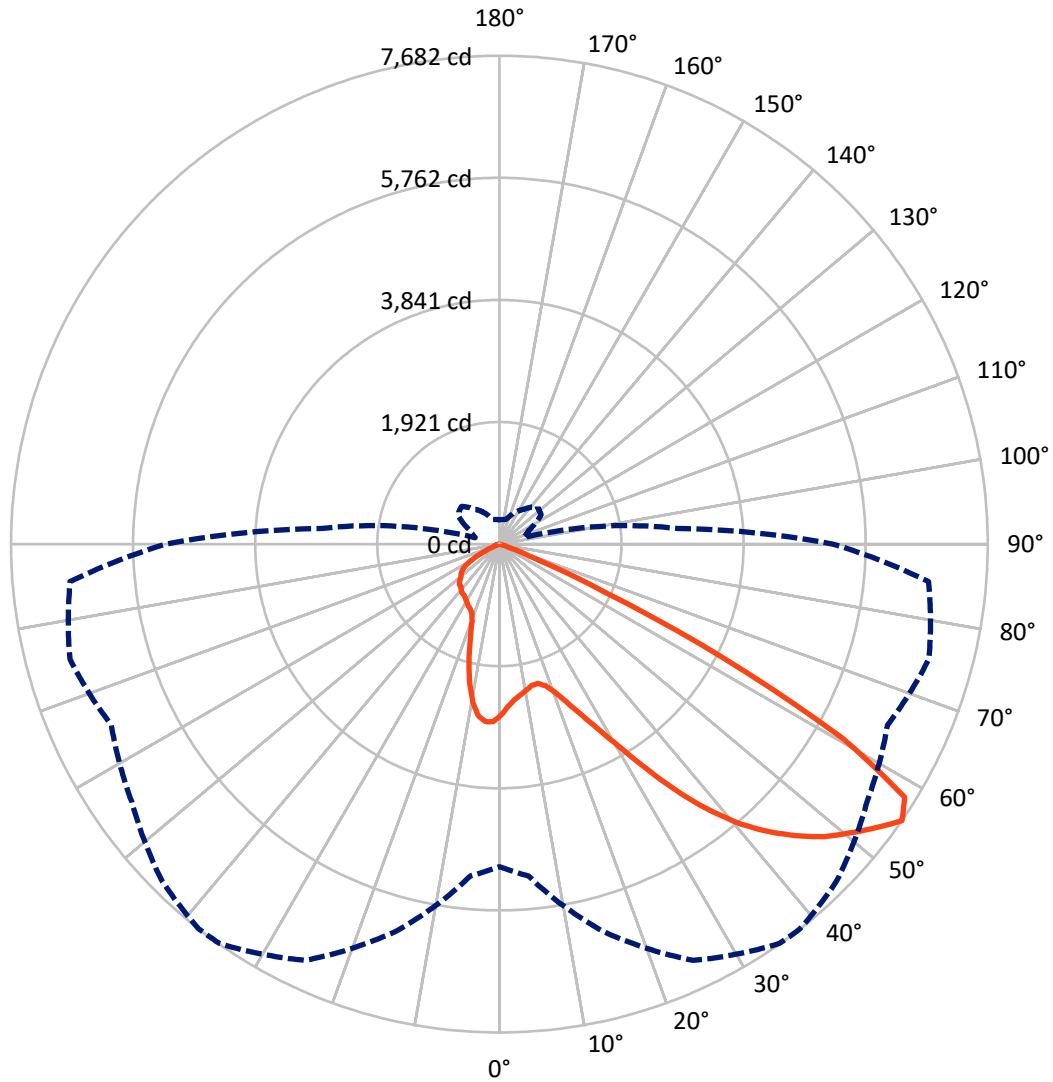
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2189.0	0.0	2189.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9046.4	0.0	9046.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	11235.4	0.0	11235.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	2.2
10°-20°	670.7	6.0
20°-30°	1150.9	10.2
30°-40°	1908.9	17.0
40°-50°	2806.1	25.0
50°-60°	3279.1	29.2
60°-70°	1111.5	9.9
70°-80°	56.8	0.5
80°-90°	2.3	0.0
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°	11235.4	100.0
0°-180°	11235.4	100.0

Coefficient of Utilization



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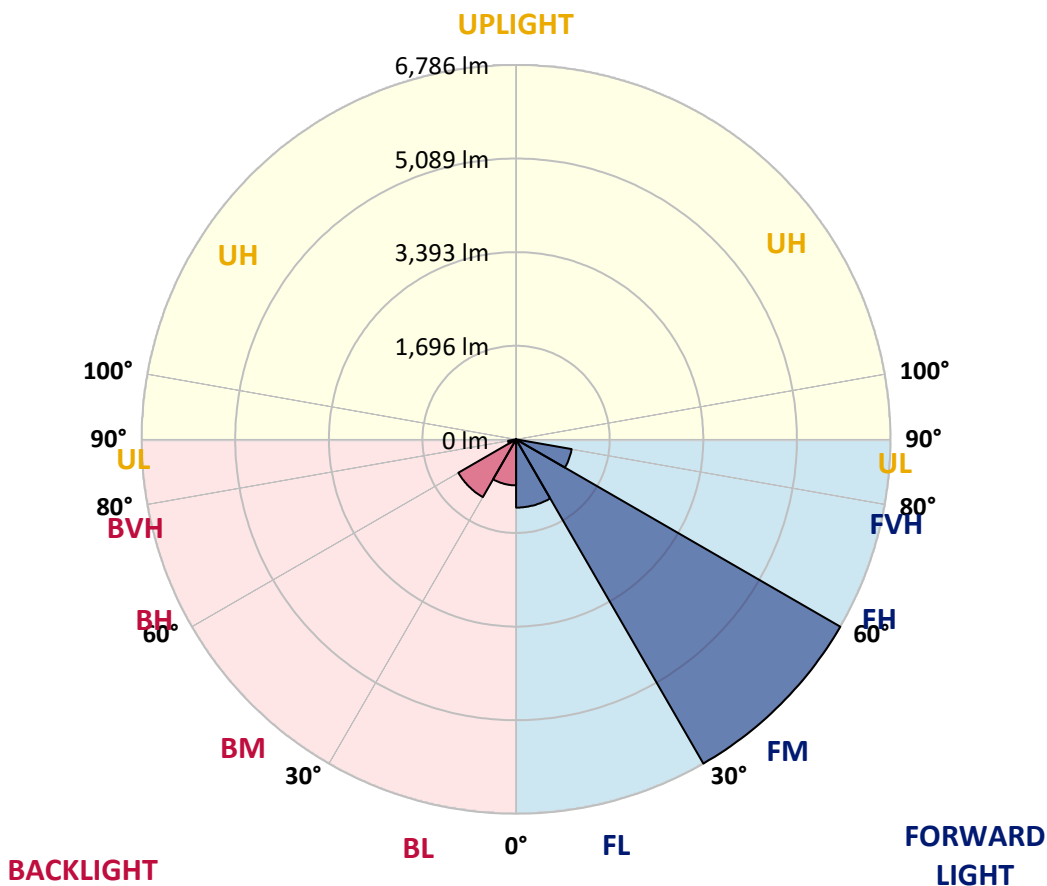
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.7	11.0			
FM (30°-60°)	6785.9	60.4			
FH (60°-80°)	1022.6	9.1			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	834.0	7.4	B2/1000		
BM (30°-60°)	1208.2	10.8	B2/2500		
BH (60°-80°)	145.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3
2.5°	2509.4	2504.3	2514.5	2535.1	2554.4	2560.8	2580.0	2607.0	2623.7	2663.5	2695.6
5°	2396.4	2393.8	2404.1	2422.1	2447.8	2456.8	2486.3	2531.2	2576.2	2645.5	2713.6
7.5°	2293.7	2292.4	2307.8	2347.6	2384.8	2396.4	2432.4	2487.6	2547.9	2654.5	2754.7
10°	2158.8	2160.1	2189.6	2246.1	2314.2	2337.3	2395.1	2474.7	2553.1	2690.5	2829.2
12.5°	2115.1	2117.7	2133.1	2176.8	2251.3	2280.8	2361.7	2482.4	2582.6	2741.9	2925.5
15°	2221.7	2221.7	2208.9	2214.0	2247.4	2274.4	2359.1	2508.1	2632.7	2803.5	3020.5
17.5°	2428.5	2420.8	2388.7	2345.0	2333.5	2342.5	2410.5	2563.3	2703.3	2875.4	3128.4
20°	2708.5	2711.0	2648.1	2556.9	2483.7	2482.4	2523.5	2660.9	2804.8	2961.5	3245.3
22.5°	3047.5	3037.2	2953.8	2829.2	2702.0	2691.8	2708.5	2809.9	2951.2	3097.6	3389.1
25°	3440.5	3435.3	3317.2	3150.2	2982.0	2957.6	2957.6	3057.8	3160.5	3291.5	3561.2
27.5°	3851.4	3851.4	3737.1	3544.5	3321.0	3277.4	3271.0	3389.1	3457.2	3482.9	3706.3
30°	4273.9	4268.8	4155.8	3958.0	3719.2	3674.2	3656.2	3743.6	3792.4	3715.3	3887.4
32.5°	4702.9	4711.9	4597.6	4413.9	4200.7	4171.2	4116.0	4116.0	4155.8	4047.9	4172.5
35°	5163.9	5161.4	5071.5	4946.9	4764.5	4731.1	4640.0	4497.4	4557.8	4510.2	4566.8
37.5°	5571.0	5590.3	5546.6	5454.2	5306.5	5273.1	5122.8	4864.7	4910.9	4985.4	5035.5
40°	5984.6	6000.0	6043.6	6014.1	5827.9	5766.2	5499.1	5075.3	5126.7	5382.2	5526.1
42.5°	6390.4	6398.1	6486.7	6535.5	6286.4	6178.5	5784.2	5203.7	5257.7	5693.0	5944.7
45°	6648.5	6665.2	6811.6	6960.6	6690.9	6543.2	6032.1	5368.1	5391.2	5908.8	6254.2
47.5°	6638.2	6676.8	6951.6	7222.6	7038.9	6879.7	6330.0	5631.4	5592.9	6111.7	6458.4
50°	6431.5	6477.7	6872.0	7302.2	7289.3	7141.7	6661.4	6012.8	5892.1	6291.5	6484.1
52.5°	6002.5	6136.1	6732.0	7312.5	7491.0	7416.5	7071.0	6526.5	6296.6	6549.6	6525.2
55°	5075.3	5239.7	6306.9	7225.1	7673.3	7682.3	7501.2	7062.0	6735.8	6994.0	6778.2
57.5°	3852.7	3983.7	4854.4	6431.5	7371.5	7519.2	7668.2	7344.6	7006.8	7297.1	6837.3
60°	2321.9	2473.4	3039.8	4719.6	5953.7	6205.4	6789.8	6726.8	6319.7	6444.3	5607.0
62.5°	941.3	1021.0	1403.7	2600.6	3747.4	3982.4	4542.4	4637.4	4537.2	4410.1	3400.7
65°	344.2	376.3	562.5	1074.9	1723.4	1809.5	2104.9	2273.1	2411.8	2053.5	1265.0
67.5°	213.2	233.7	366.0	552.2	626.7	583.0	593.3	707.6	675.5	417.4	226.0
70°	158.0	174.7	286.4	382.7	253.0	195.2	132.3	141.3	127.1	111.7	110.4
72.5°	109.2	124.6	214.5	226.0	97.6	69.3	48.8	68.1	77.1	75.8	78.3
75°	71.9	83.5	134.8	88.6	24.4	19.3	16.7	36.0	46.2	46.2	47.5
77.5°	42.4	48.8	47.5	18.0	5.1	5.1	3.9	6.4	10.3	11.6	14.1
80°	5.1	3.9	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9
82.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9
85°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	3.9	3.9
87.5°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	3.9	3.9
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°	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3	2694.3
2.5°	2720.0	2711.0	2748.3	2775.2	2797.1	2807.3	2793.2	2791.9	2791.9	2763.7	2756.0
5°	2752.1	2756.0	2808.6	2831.7	2835.6	2822.8	2790.7	2768.8	2756.0	2726.4	2709.7
7.5°	2813.8	2826.6	2876.7	2872.8	2838.2	2779.1	2694.3	2628.8	2586.5	2540.2	2512.0
10°	2902.4	2926.8	2957.6	2903.7	2793.2	2643.0	2468.3	2343.7	2269.3	2216.6	2184.5
12.5°	3010.3	3034.7	3024.4	2897.2	2667.4	2399.0	2174.2	1994.4	1908.4	1860.9	1827.5
15°	3119.4	3134.8	3068.0	2820.2	2445.2	2084.3	1833.9	1655.4	1550.1	1511.6	1483.3
17.5°	3231.1	3227.3	3075.8	2668.7	2148.5	1729.9	1483.3	1361.3	1331.8	1325.3	1322.8
20°	3348.0	3313.3	3044.9	2451.6	1791.5	1379.3	1239.3	1247.0	1300.9	1326.6	1331.8
22.5°	3481.6	3394.2	2967.9	2157.5	1426.8	1149.4	1163.5	1239.3	1312.5	1347.2	1352.3
25°	3624.1	3468.7	2839.5	1780.0	1125.0	1056.9	1140.4	1227.7	1306.1	1348.5	1353.6
27.5°	3717.9	3486.7	2628.8	1399.8	965.7	1021.0	1109.6	1193.1	1274.0	1320.2	1326.6
30°	3819.3	3479.0	2342.5	1078.8	911.8	990.1	1067.2	1143.0	1217.5	1268.8	1274.0
32.5°	3968.3	3473.9	1993.1	875.9	890.0	965.7	1022.3	1085.2	1136.6	1166.1	1162.2
35°	4163.5	3467.4	1586.0	789.8	877.1	946.5	991.4	1021.0	964.5	946.5	950.3
37.5°	4413.9	3482.9	1243.1	753.8	873.3	941.3	979.9	895.1	807.8	774.4	769.3
40°	4691.3	3522.7	947.8	739.7	886.1	954.2	936.2	796.2	688.4	622.9	608.7
42.5°	4970.0	3566.3	750.0	734.6	908.0	990.1	864.3	724.3	562.5	525.3	520.1
45°	5176.8	3558.6	648.5	725.6	927.2	1010.7	845.0	621.6	502.1	485.4	486.7
47.5°	5280.8	3473.9	593.3	705.0	934.9	990.1	797.5	579.2	461.0	479.0	494.4
50°	5225.6	3254.3	541.9	665.2	918.2	963.2	721.7	547.1	440.5	515.0	549.7
52.5°	5158.8	2984.6	485.4	603.6	878.4	925.9	692.2	538.1	427.7	497.0	522.7
55°	5247.4	2813.8	393.0	508.6	800.1	838.6	669.1	536.8	398.1	386.6	382.7
57.5°	5122.8	2473.4	281.2	366.0	613.9	664.0	652.4	527.8	353.2	351.9	357.0
60°	3959.3	1509.0	192.6	232.4	376.3	423.8	592.0	504.7	304.4	280.0	281.2
62.5°	2250.0	642.1	132.3	143.8	192.6	228.6	452.1	458.5	281.2	267.1	281.2
65°	783.4	229.9	102.7	96.3	106.6	122.0	259.4	354.5	255.6	231.2	233.7
67.5°	161.8	114.3	91.2	79.6	79.6	79.6	132.3	220.9	210.6	183.6	186.2
70°	102.7	97.6	79.6	68.1	65.5	60.4	75.8	122.0	145.1	133.6	134.8
72.5°	75.8	74.5	62.9	55.2	48.8	43.7	47.5	60.4	74.5	77.1	78.3
75°	46.2	47.5	41.1	34.7	30.8	27.0	28.3	28.3	28.3	25.7	28.3
77.5°	14.1	15.4	12.8	10.3	9.0	9.0	9.0	7.7	6.4	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0
82.5°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0	0.0
85°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	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)