

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: P636764

Luminaire Tested: GWS-SA4B-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8499.2 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

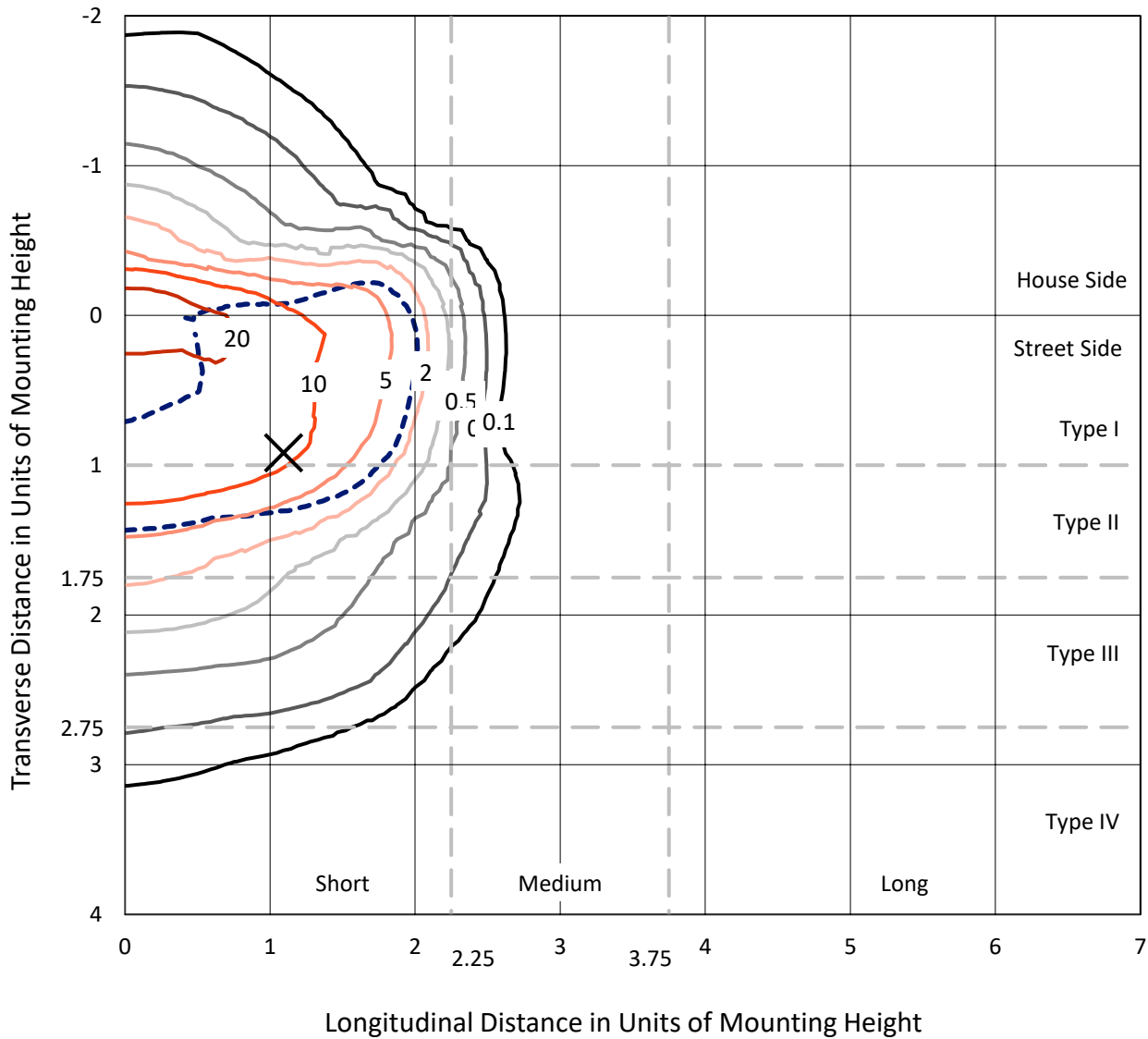
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

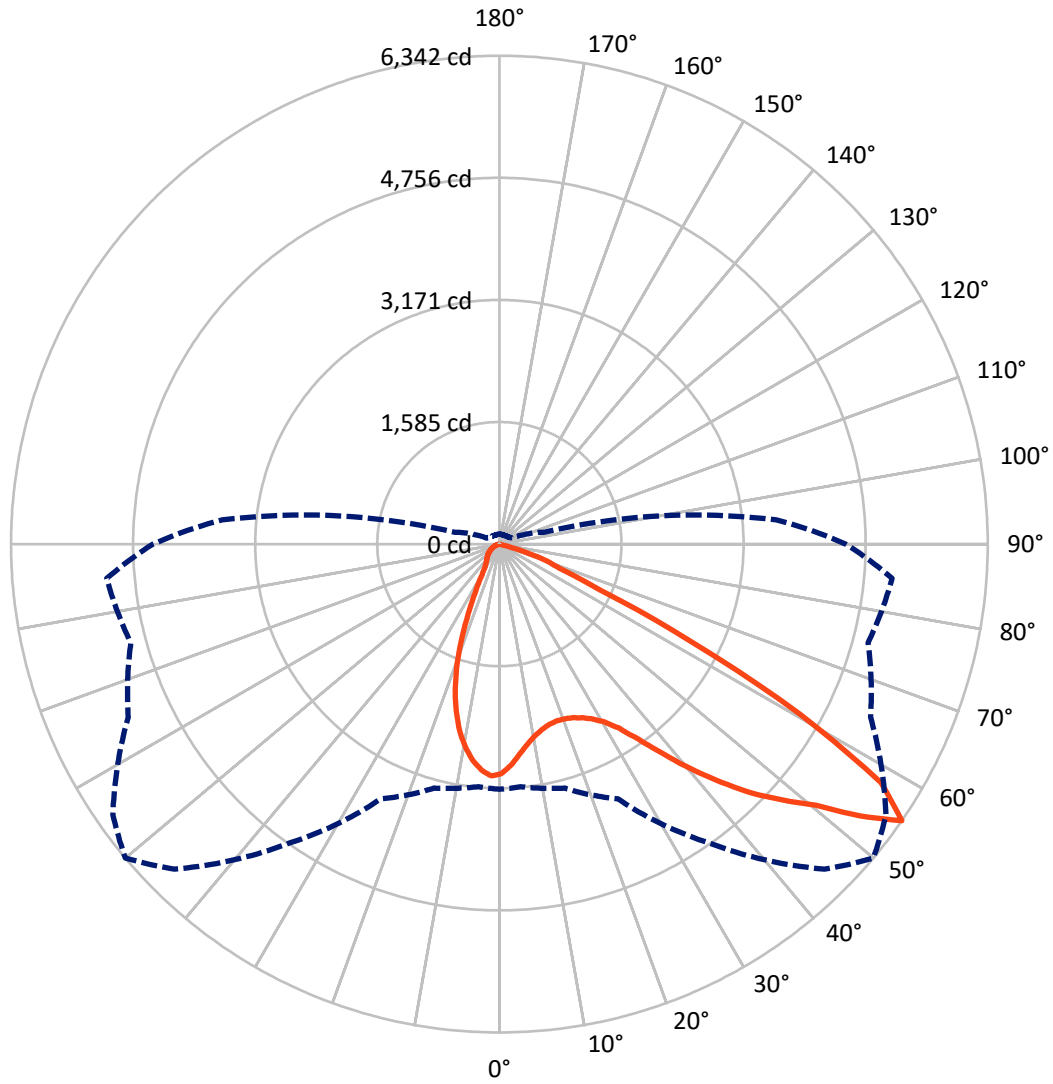
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.8 fc
 Type II - Short - N/A

REPORT NUMBER: P636764
CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.7	0.0	1674.7
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	6824.5	0.0	6824.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	8499.2	0.0	8499.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	3.1
10°-20°	644.4	7.6
20°-30°	909.0	10.7
30°-40°	1345.2	15.8
40°-50°	1940.6	22.8
50°-60°	2289.1	26.9
60°-70°	1021.1	12.0
70°-80°	87.8	1.0
80°-90°	0.0	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°	8499.2	100.0
0°-180°	8499.2	100.0

Coefficient of Utilization



REPORT NUMBER: P636764

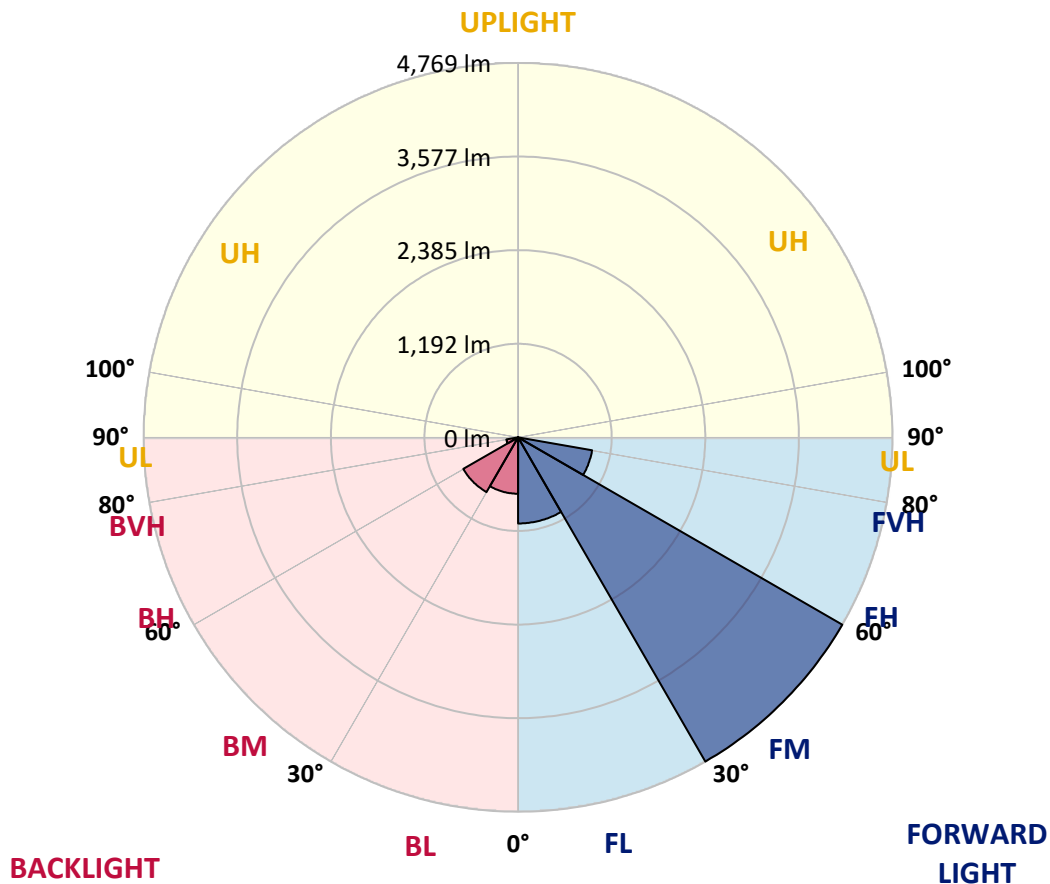
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.3	12.9			
FM (30°-60°)	4769.5	56.1			
FH (60°-80°)	957.7	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	718.1	8.4	B2/1000		
BM (30°-60°)	805.4	9.5	B1/1000		
BH (60°-80°)	151.2	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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





REPORT NUMBER: P636764

CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0
2.5°	2770.3	2772.4	2773.4	2801.5	2811.8	2853.3	2875.1	2886.5	2916.6	2951.9	2981.0
5°	2584.6	2581.5	2586.7	2622.0	2644.8	2706.0	2739.2	2762.0	2828.4	2911.4	2981.0
7.5°	2422.7	2429.0	2435.2	2473.6	2507.8	2574.2	2622.0	2656.2	2748.5	2872.0	2989.3
10°	2308.6	2308.6	2317.9	2361.5	2402.0	2484.0	2531.7	2575.3	2685.2	2836.7	2998.6
12.5°	2224.6	2225.6	2237.0	2286.8	2333.5	2418.6	2468.4	2510.9	2632.3	2801.5	3000.7
15°	2185.1	2182.0	2191.4	2244.3	2296.2	2376.0	2427.9	2469.4	2595.0	2781.7	3011.0
17.5°	2174.8	2172.7	2179.9	2231.8	2284.7	2362.6	2413.4	2454.9	2589.8	2788.0	3042.2
20°	2204.8	2200.7	2197.6	2242.2	2292.0	2368.8	2421.7	2468.4	2614.7	2822.2	3089.9
22.5°	2276.4	2276.4	2269.2	2291.0	2324.2	2393.7	2448.7	2509.9	2680.1	2890.7	3160.5
25°	2408.2	2397.8	2384.3	2393.7	2389.5	2433.1	2498.5	2583.6	2803.5	3003.8	3246.6
27.5°	2558.7	2568.0	2545.2	2546.2	2509.9	2494.3	2570.1	2698.7	2987.2	3163.6	3374.2
30°	2763.1	2755.8	2756.8	2753.7	2669.7	2596.0	2678.0	2849.2	3218.6	3407.4	3540.2
32.5°	2922.9	2933.2	2967.5	2987.2	2877.2	2758.9	2846.1	3053.6	3482.1	3685.5	3743.6
35°	3092.0	3110.7	3180.2	3244.5	3152.2	3016.2	3109.6	3324.4	3730.1	3960.4	3977.0
37.5°	3270.4	3307.8	3390.8	3503.9	3489.4	3369.0	3454.1	3642.9	3925.1	4126.4	4170.0
40°	3474.8	3511.2	3647.1	3810.0	3844.2	3817.2	3845.3	3955.2	4053.8	4133.7	4253.0
42.5°	3699.0	3748.8	3921.0	4138.9	4267.5	4291.4	4226.0	4214.6	4109.8	4050.7	4235.4
45°	3963.5	4021.6	4216.7	4498.9	4703.3	4735.5	4622.4	4476.1	4145.1	3989.5	4182.5
47.5°	4260.3	4315.3	4509.3	4848.6	5152.6	5165.1	4967.9	4732.4	4249.9	4060.0	4222.9
50°	4359.9	4394.1	4562.2	4960.6	5520.9	5616.4	5331.1	5020.8	4460.5	4267.5	4420.1
52.5°	4017.5	4031.0	4177.3	4579.9	5446.2	6059.4	5861.3	5451.4	4835.1	4584.0	4724.1
55°	3183.3	3161.5	3279.8	3649.2	4733.4	5969.2	6341.7	6127.9	5317.6	4955.5	5119.4
57.5°	2226.6	2200.7	2173.7	2423.8	3531.9	5060.3	5843.6	6222.3	5777.2	5323.8	5545.8
60°	1830.3	1805.4	1674.6	1559.5	2135.3	3633.6	4488.6	5201.4	5739.9	5305.1	5532.4
62.5°	1581.3	1566.7	1513.8	1357.1	1256.5	2074.1	2810.8	3493.5	4404.5	4165.9	4178.3
65°	1242.0	1237.8	1274.1	1290.7	1111.2	1147.6	1433.9	1815.8	2381.2	2245.3	2129.1
67.5°	848.7	839.4	907.9	1116.4	1068.7	905.8	839.4	846.7	1030.3	629.8	500.1
70°	539.5	517.8	518.8	692.1	869.5	714.9	647.4	569.6	512.6	93.4	105.8
72.5°	345.5	332.0	285.3	312.3	402.6	348.6	351.7	303.0	202.3	49.8	58.1
75°	145.3	133.8	102.7	82.0	80.9	50.8	44.6	41.5	28.0	28.0	30.1
77.5°	1.0	0.0	0.0	1.0	2.1	1.0	1.0	2.1	4.2	6.2	7.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P636764

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0	2982.0
2.5°	2998.6	2973.7	3001.7	3012.1	3011.0	3012.1	2982.0	2961.2	2960.2	2934.3	2921.8
5°	3010.0	2990.3	3011.0	2997.6	2965.4	2924.9	2871.0	2824.3	2803.5	2773.4	2758.9
7.5°	3031.8	3011.0	3007.9	2954.0	2874.1	2789.0	2693.5	2608.5	2562.8	2507.8	2510.9
10°	3047.4	3023.5	2983.0	2873.0	2740.2	2604.3	2462.2	2335.6	2255.7	2182.0	2169.6
12.5°	3053.6	3018.3	2923.9	2757.9	2571.1	2393.7	2185.1	2004.6	1880.1	1783.6	1770.1
15°	3065.0	3007.9	2848.1	2618.8	2362.6	2111.5	1845.8	1598.9	1433.9	1322.9	1332.2
17.5°	3082.6	2996.5	2763.1	2463.2	2138.4	1783.6	1424.6	1141.3	989.8	925.5	926.6
20°	3107.5	2983.0	2669.7	2292.0	1869.7	1413.2	996.1	782.3	739.8	737.7	734.6
22.5°	3140.7	2969.5	2570.1	2104.2	1551.2	989.8	663.0	596.6	614.2	648.5	654.7
25°	3180.2	2952.9	2459.1	1892.5	1203.6	649.5	497.0	486.6	529.2	574.8	585.2
27.5°	3241.4	2944.6	2332.5	1651.8	844.6	465.9	406.7	413.0	451.3	489.7	499.1
30°	3345.1	2960.2	2194.5	1382.1	542.7	371.5	352.8	362.1	382.9	402.6	410.9
32.5°	3486.3	3005.9	2060.6	1087.4	387.0	322.7	318.5	323.7	332.0	343.4	346.6
35°	3651.2	3084.7	1922.6	778.2	319.6	294.7	290.5	290.5	294.7	296.7	297.8
37.5°	3787.2	3167.7	1792.9	517.8	286.4	272.9	266.7	263.5	262.5	264.6	265.6
40°	3846.3	3202.0	1651.8	376.6	262.5	253.2	243.8	234.5	234.5	241.8	242.8
42.5°	3804.8	3163.6	1488.9	311.3	245.9	232.4	217.9	209.6	213.7	221.0	223.1
45°	3716.6	3069.1	1309.4	275.0	229.3	211.7	195.1	189.9	194.0	203.4	205.4
47.5°	3702.1	3006.9	1094.6	251.1	211.7	194.0	176.4	171.2	176.4	183.7	185.7
50°	3846.3	3060.8	856.0	230.3	195.1	175.4	160.8	155.6	158.7	162.9	165.0
52.5°	4109.8	3261.1	691.0	210.6	175.4	156.7	147.3	141.1	141.1	145.3	146.3
55°	4498.9	3610.8	596.6	187.8	152.5	142.1	133.8	127.6	127.6	129.7	130.7
57.5°	4947.2	4034.1	618.4	157.7	133.8	128.7	121.4	116.2	118.3	118.3	118.3
60°	4884.9	4003.0	662.0	132.8	118.3	116.2	110.0	107.9	113.1	108.9	106.9
62.5°	3598.3	2765.1	346.6	108.9	101.7	99.6	95.5	99.6	106.9	95.5	91.3
65°	1747.3	1338.5	139.0	89.2	86.1	84.0	82.0	88.2	92.3	74.7	70.6
67.5°	410.9	334.1	90.3	75.7	71.6	67.4	69.5	70.6	67.4	50.8	48.8
70°	106.9	104.8	70.6	63.3	57.1	52.9	52.9	51.9	44.6	32.2	30.1
72.5°	58.1	57.1	50.8	47.7	39.4	35.3	36.3	32.2	24.9	18.7	17.6
75°	29.1	31.1	29.1	27.0	21.8	19.7	19.7	17.6	12.5	7.3	7.3
77.5°	6.2	7.3	7.3	6.2	5.2	4.2	4.2	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)