

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: P639023

Luminaire Tested: GWS-SA5B-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

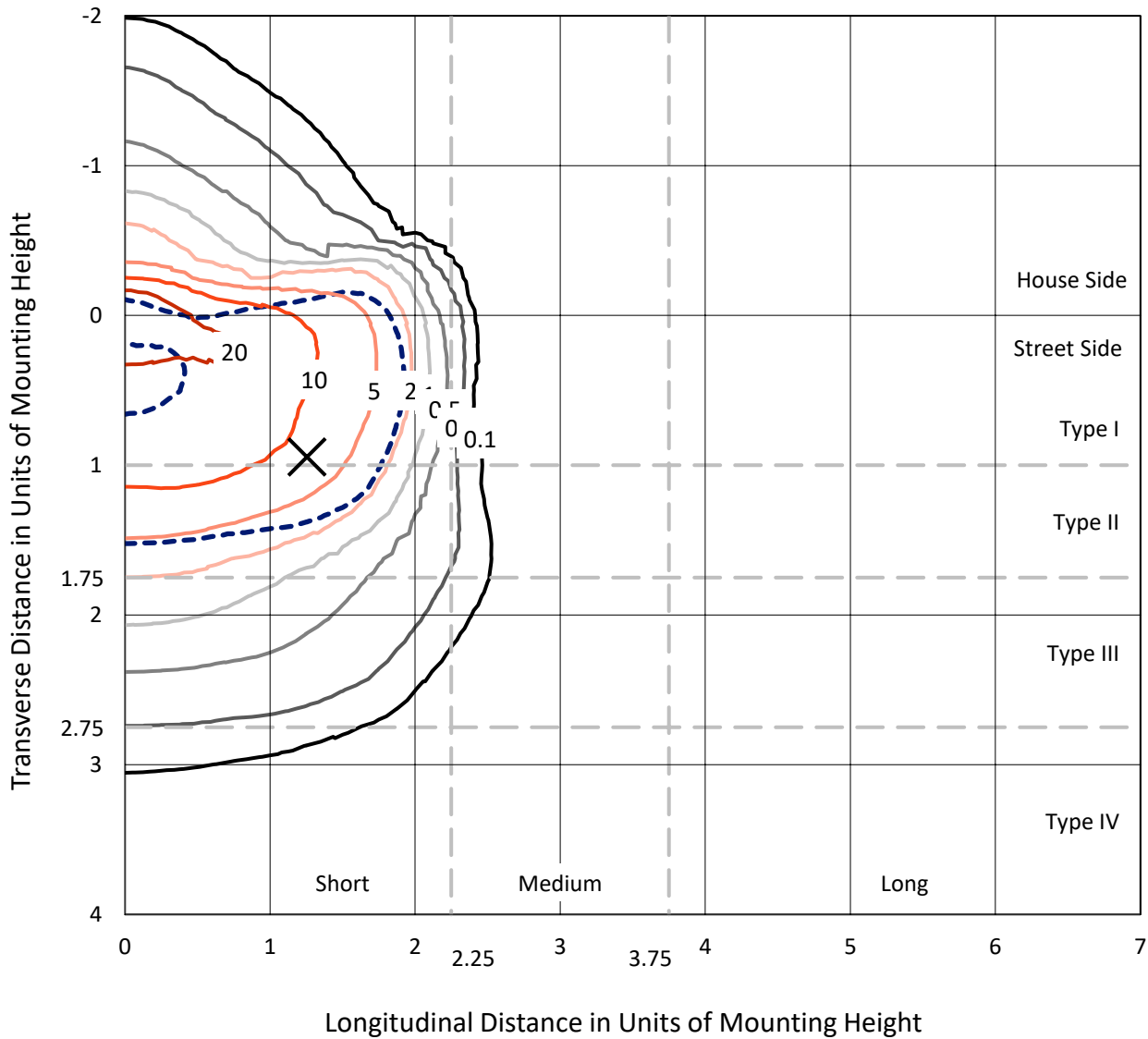
Lumens per Lamp: N/A  
Luminaire Lumens: 7649.8 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

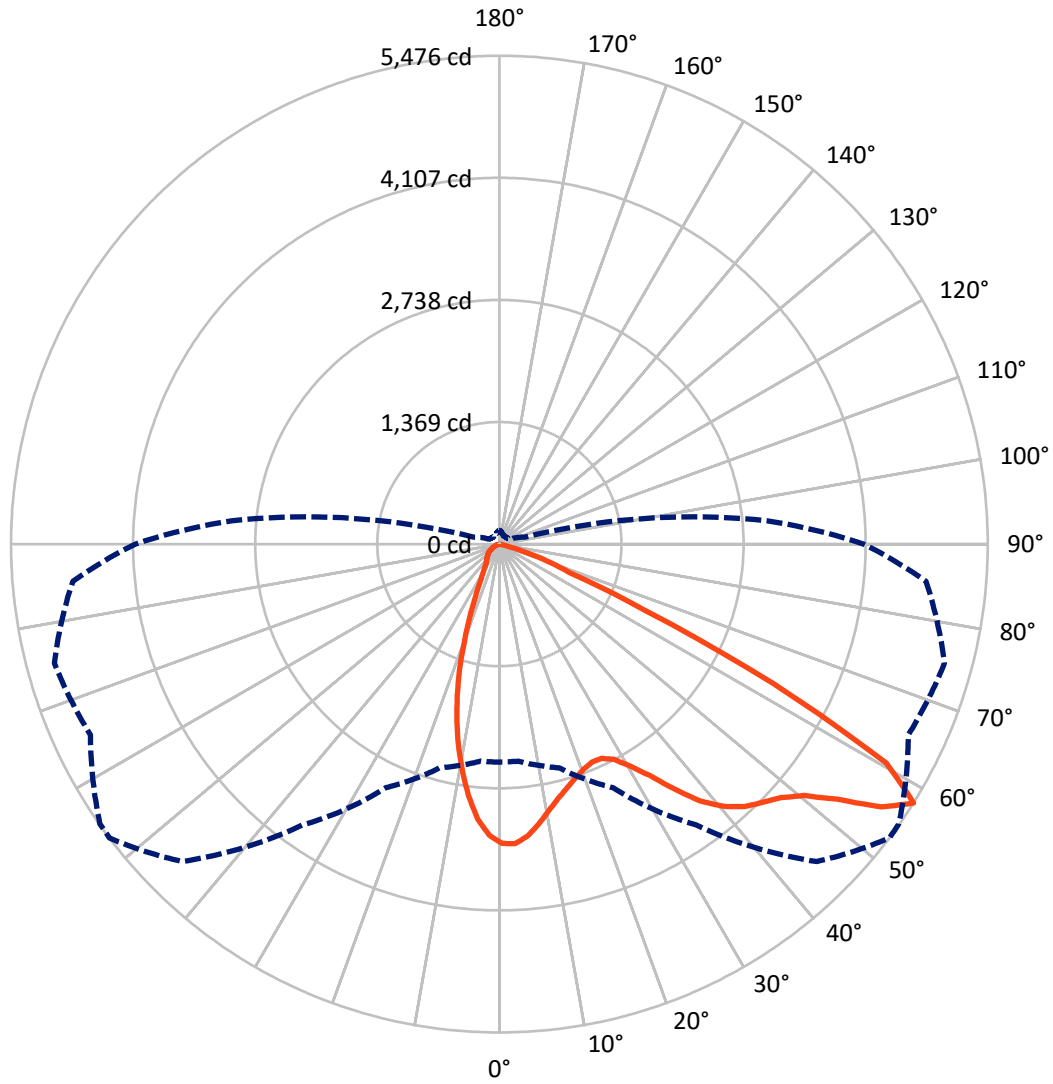
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1263.7	0.0	1263.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6386.2	0.0	6386.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	7649.8	0.0	7649.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.1	3.8
10°-20°	630.3	8.2
20°-30°	821.1	10.7
30°-40°	1191.0	15.6
40°-50°	1718.6	22.5
50°-60°	2078.5	27.2
60°-70°	847.1	11.1
70°-80°	76.1	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°	7649.8	100.0
0°-180°	7649.8	100.0

**Coefficient of Utilization**



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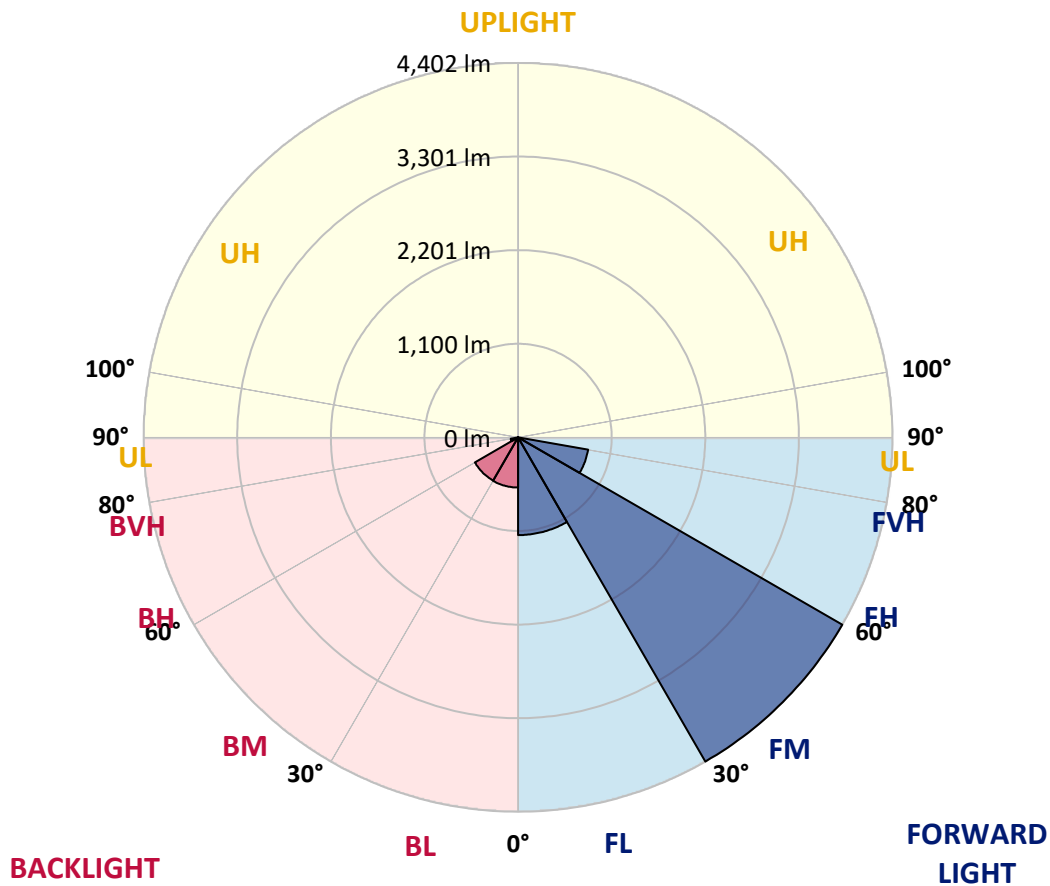
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	15.0			
FM (30°-60°)	4401.5	57.5			
FH (60°-80°)	835.9	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	589.8	7.7	B2/1000		
BM (30°-60°)	586.5	7.7	B1/1000		
BH (60°-80°)	87.4	1.1	B0/110		G0/110
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6
2.5°	3308.8	3316.3	3329.4	3346.3	3357.5	3363.1	3363.1	3379.1	3368.8	3360.3	3351.0
5°	3167.2	3174.7	3192.5	3219.7	3246.9	3266.6	3289.1	3305.9	3312.5	3312.5	3296.6
7.5°	2967.5	2977.8	2989.0	3026.5	3085.6	3129.7	3168.1	3192.5	3228.1	3239.4	3216.9
10°	2752.8	2763.1	2788.4	2840.0	2907.5	2973.1	3038.7	3069.7	3130.6	3162.5	3137.2
12.5°	2570.9	2575.6	2609.3	2671.2	2757.5	2847.5	2927.2	2959.0	3045.3	3093.1	3063.1
15°	2420.9	2423.7	2457.4	2525.9	2625.3	2735.9	2836.2	2869.0	2975.0	3047.2	3002.2
17.5°	2307.4	2308.3	2337.4	2411.5	2515.6	2638.4	2757.5	2797.8	2934.7	3021.9	2954.3
20°	2250.2	2247.4	2268.0	2332.7	2431.2	2554.0	2694.6	2744.3	2912.2	3018.1	2917.8
22.5°	2251.2	2244.6	2253.0	2299.0	2382.4	2497.7	2655.3	2711.5	2914.0	3034.0	2886.8
25°	2304.6	2295.2	2297.1	2321.5	2380.5	2485.6	2660.9	2720.9	2951.5	3087.5	2875.6
27.5°	2394.6	2384.3	2384.3	2396.5	2428.4	2524.0	2731.2	2799.6	3051.9	3191.6	2899.0
30°	2510.9	2500.6	2496.8	2509.0	2535.2	2623.4	2887.8	2959.0	3223.4	3362.2	2974.0
32.5°	2644.0	2631.8	2638.4	2655.3	2680.6	2802.5	3089.4	3184.1	3438.1	3591.9	3109.1
35°	2784.6	2774.3	2804.3	2840.9	2880.3	3050.9	3367.8	3450.3	3701.6	3877.9	3315.3
37.5°	2918.7	2914.0	2976.9	3053.7	3135.3	3349.1	3651.0	3714.7	3927.6	4189.2	3567.5
40°	3052.8	3051.9	3159.7	3294.7	3425.0	3646.3	3865.7	3918.2	4065.4	4431.1	3809.4
42.5°	3202.8	3202.8	3351.9	3531.9	3705.4	3897.6	4023.2	4046.6	4127.3	4570.8	3991.3
45°	3346.3	3354.7	3527.2	3736.3	3941.6	4093.5	4132.0	4133.8	4152.6	4653.3	4142.3
47.5°	3459.7	3467.2	3673.5	3914.4	4135.7	4242.6	4248.2	4239.8	4219.2	4732.0	4258.5
50°	3551.6	3562.8	3778.5	4033.5	4268.9	4386.1	4429.2	4420.7	4368.2	4816.4	4340.1
52.5°	3596.6	3612.5	3815.1	4092.6	4417.0	4631.7	4751.7	4771.4	4591.4	4863.3	4417.9
55°	3236.6	3260.0	3446.6	3826.3	4499.5	5011.4	5199.9	5196.1	4833.3	5003.0	4607.3
57.5°	2444.3	2442.4	2597.1	3012.5	3843.2	5033.0	5475.5	5468.0	5059.2	5165.2	4801.4
60°	1664.2	1653.0	1694.2	1894.9	2687.1	4100.1	4983.3	5084.6	4898.9	4771.4	4076.6
62.5°	1369.8	1359.5	1346.4	1291.1	1543.3	2554.0	3442.8	3596.6	3572.2	3316.3	2556.8
65°	1121.4	1129.8	1166.4	1142.9	1073.5	1309.8	1787.0	1878.0	1716.7	1444.8	893.5
67.5°	827.0	830.7	878.5	1002.3	964.8	872.0	841.0	856.0	501.6	230.6	149.1
70°	488.5	491.3	535.4	701.3	782.9	669.4	568.2	559.7	198.8	61.9	67.5
72.5°	276.6	271.0	279.4	333.8	426.6	355.3	292.5	266.3	60.0	34.7	34.7
75°	131.3	127.5	109.7	103.1	93.8	60.0	37.5	31.9	15.0	14.1	14.1
77.5°	0.9	2.8	1.9	2.8	2.8	1.9	0.9	0.9	2.8	2.8	3.8
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6	3355.6
2.5°	3334.1	3305.9	3299.4	3297.5	3271.3	3243.1	3214.1	3202.8	3185.9	3175.6	3184.1
5°	3271.3	3230.9	3195.3	3162.5	3104.4	3040.6	2985.3	2949.7	2915.9	2893.4	2899.0
7.5°	3182.2	3129.7	3048.1	2964.7	2857.8	2762.1	2655.3	2589.6	2528.7	2494.9	2510.9
10°	3087.5	3018.1	2887.8	2746.2	2578.4	2428.4	2275.5	2150.8	2078.6	2010.2	2017.7
12.5°	2994.7	2902.8	2707.8	2493.1	2281.2	2059.9	1829.2	1656.7	1538.6	1453.3	1440.1
15°	2908.4	2790.3	2532.4	2249.3	1960.5	1666.1	1371.7	1125.1	988.2	903.8	898.2
17.5°	2831.5	2685.3	2350.5	1994.3	1632.3	1255.4	917.0	732.3	653.5	616.9	613.2
20°	2757.5	2579.3	2164.9	1735.5	1274.2	881.3	632.9	547.6	522.2	507.2	509.1
22.5°	2686.2	2464.0	1969.9	1448.6	955.4	618.8	490.4	457.5	454.7	456.6	457.5
25°	2626.2	2358.0	1769.2	1172.0	681.6	471.6	409.7	400.4	408.8	421.0	422.9
27.5°	2595.3	2271.8	1573.3	893.5	493.2	383.5	355.3	359.1	374.1	387.2	389.1
30°	2603.7	2207.1	1370.8	647.9	379.7	323.5	314.1	321.6	336.6	348.8	350.7
32.5°	2663.7	2174.3	1163.6	471.6	312.2	282.2	278.5	284.1	297.2	306.6	307.5
35°	2782.8	2181.8	966.7	361.0	268.2	251.3	250.3	254.1	260.7	267.2	268.2
37.5°	2958.1	2242.7	772.6	300.0	242.8	230.6	226.9	226.9	231.6	234.4	236.3
40°	3146.6	2334.6	618.8	265.3	225.0	211.9	204.4	201.6	205.3	209.1	210.0
42.5°	3302.2	2426.5	502.5	241.0	211.0	193.1	183.8	181.9	186.6	193.1	195.0
45°	3421.3	2497.7	419.1	221.3	195.0	175.3	165.0	165.0	173.5	184.7	186.6
47.5°	3530.0	2554.9	357.2	203.5	180.0	159.4	149.1	151.0	165.0	180.0	182.8
50°	3604.1	2600.9	311.3	187.5	167.8	146.3	136.9	140.6	157.5	175.3	178.1
52.5°	3683.8	2657.1	281.3	173.5	156.6	136.0	127.5	130.3	149.1	168.8	172.5
55°	3904.1	2845.6	280.3	154.7	136.9	121.9	118.1	119.1	137.8	160.3	165.0
57.5°	4084.1	3011.5	299.1	130.3	114.4	106.9	105.0	105.9	122.8	148.1	153.8
60°	3379.1	2340.2	247.5	107.8	95.6	93.8	90.9	92.8	108.8	131.3	136.0
62.5°	1999.9	1337.9	118.1	82.5	81.6	79.7	76.9	80.6	95.6	115.3	118.1
65°	683.5	396.6	75.0	67.5	69.4	66.6	63.8	67.5	80.6	91.9	92.8
67.5°	131.3	105.0	60.0	56.3	57.2	51.6	50.6	54.4	61.9	63.8	62.8
70°	68.4	60.9	45.9	45.9	44.1	36.6	36.6	40.3	40.3	37.5	36.6
72.5°	35.6	33.8	30.0	33.8	28.1	22.5	22.5	24.4	22.5	18.8	18.8
75°	14.1	14.1	13.1	16.9	12.2	10.3	9.4	11.3	8.4	6.6	6.6
77.5°	3.8	3.8	3.8	4.7	2.8	2.8	1.9	1.9	0.9	0.0	0.0
80°	0.0	0.9	0.0	0.9	0.0	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)