

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: P636819

Luminaire Tested: GWS-SA4B-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636819
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8693.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

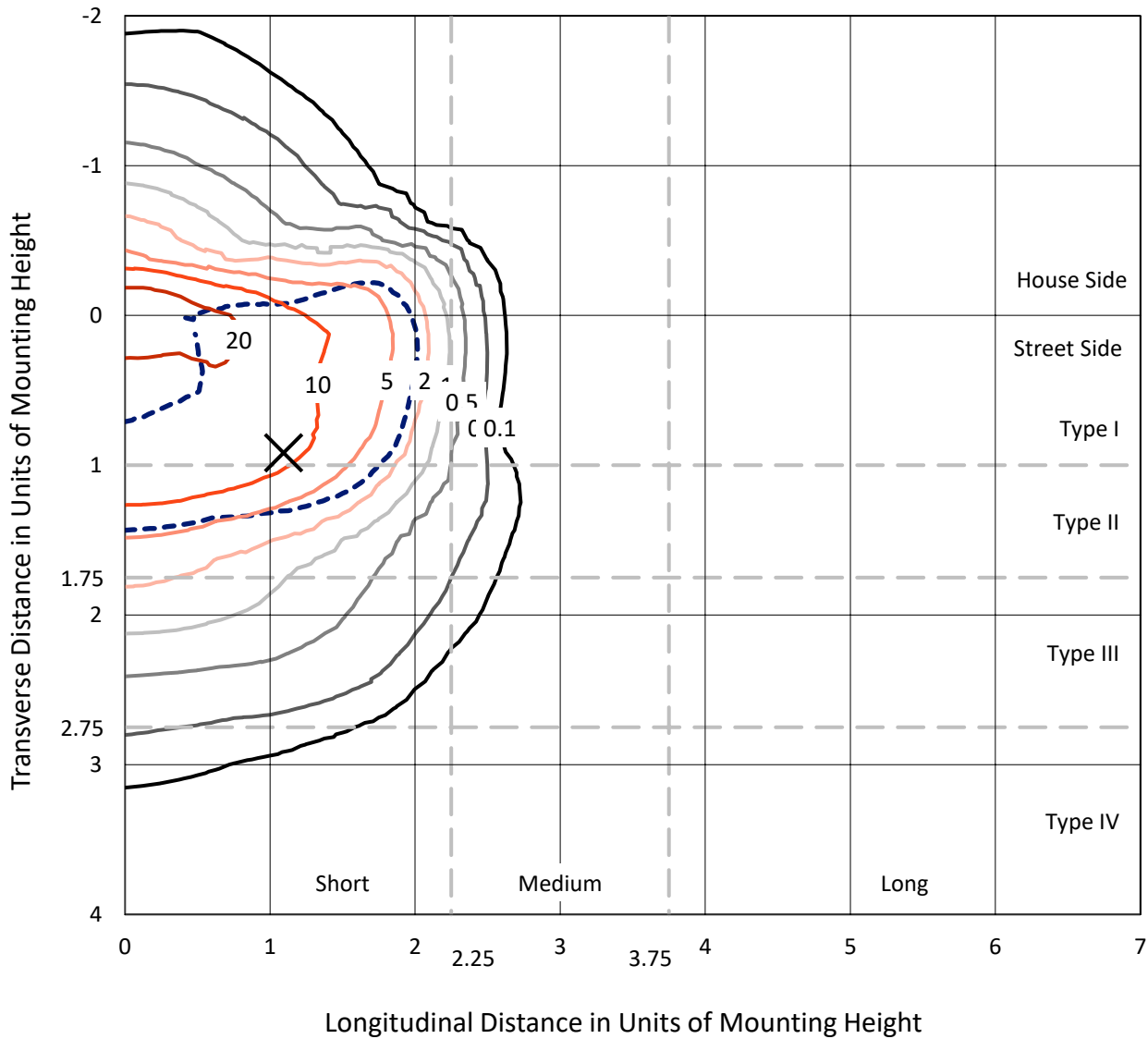
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

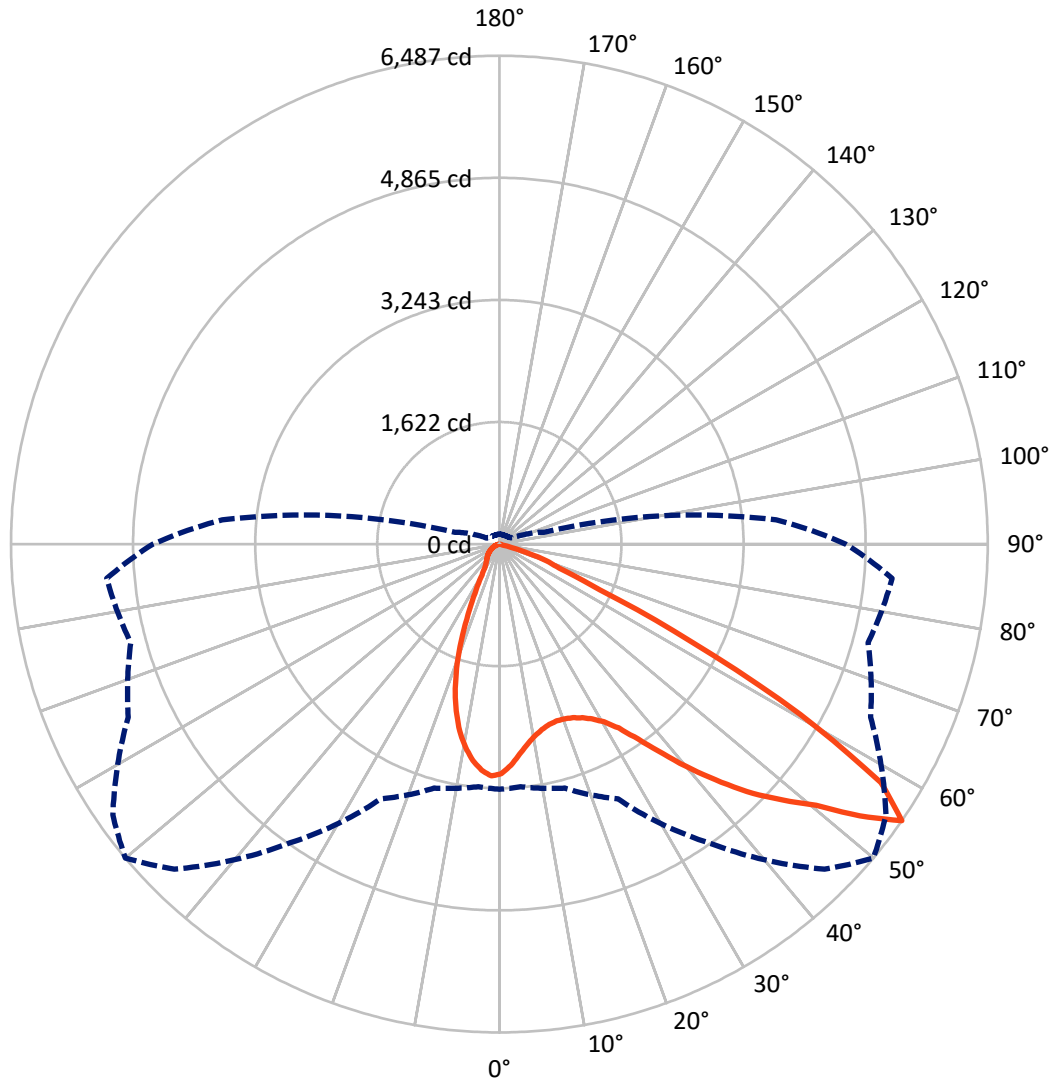
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.5 fc
 Type II - Short - N/A

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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	1713.1	0.0	1713.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	6980.8	0.0	6980.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	8693.9	0.0	8693.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	3.1
10°-20°	659.2	7.6
20°-30°	929.8	10.7
30°-40°	1376.0	15.8
40°-50°	1985.1	22.8
50°-60°	2341.6	26.9
60°-70°	1044.5	12.0
70°-80°	89.8	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°	8693.9	100.0
0°-180°	8693.9	100.0

Coefficient of Utilization



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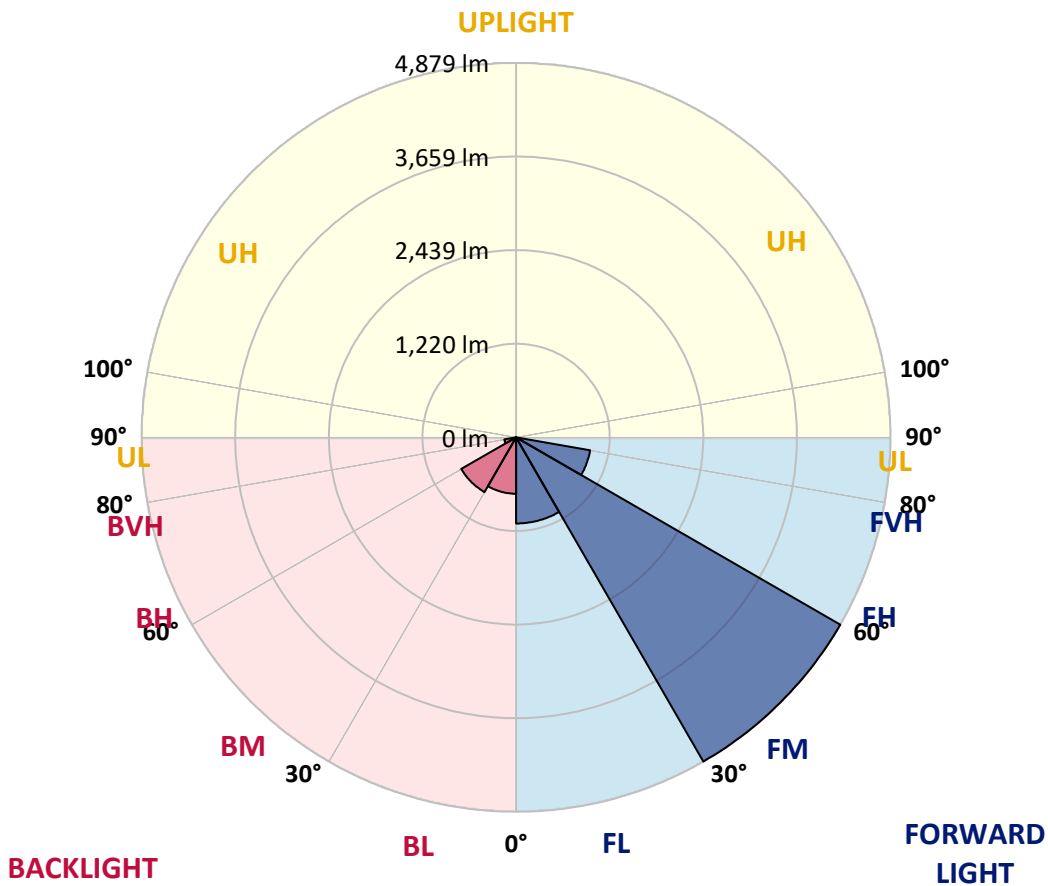
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.4	12.9			
FM (30°-60°)	4878.7	56.1			
FH (60°-80°)	979.6	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	734.5	8.4	B2/1000		
BM (30°-60°)	823.9	9.5	B1/1000		
BH (60°-80°)	154.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3
2.5°	2833.8	2835.9	2837.0	2865.6	2876.2	2918.7	2941.0	2952.7	2983.4	3019.5	3049.2
5°	2643.8	2640.6	2645.9	2682.0	2705.4	2768.0	2801.9	2825.3	2893.2	2978.1	3049.2
7.5°	2478.2	2484.6	2491.0	2530.2	2565.3	2633.2	2682.0	2717.0	2811.5	2937.8	3057.7
10°	2361.5	2361.5	2371.0	2415.6	2457.0	2540.9	2589.7	2634.3	2746.8	2901.7	3067.3
12.5°	2275.5	2276.6	2288.3	2339.2	2387.0	2474.0	2524.9	2568.5	2692.6	2865.6	3069.4
15°	2235.2	2232.0	2241.6	2295.7	2348.8	2430.5	2483.5	2526.0	2654.4	2845.5	3080.0
17.5°	2224.6	2222.5	2229.9	2283.0	2337.1	2416.7	2468.7	2511.1	2649.1	2851.8	3111.9
20°	2255.4	2251.1	2247.9	2293.6	2344.5	2423.0	2477.2	2524.9	2674.6	2886.9	3160.7
22.5°	2328.6	2328.6	2321.2	2343.4	2377.4	2448.5	2504.8	2567.4	2741.5	2956.9	3232.9
25°	2463.4	2452.8	2439.0	2448.5	2444.3	2488.9	2555.7	2642.7	2867.8	3072.6	3320.9
27.5°	2617.3	2626.8	2603.5	2604.5	2567.4	2551.5	2628.9	2760.6	3055.6	3236.0	3451.5
30°	2826.4	2818.9	2820.0	2816.8	2730.8	2655.5	2739.3	2914.5	3292.3	3485.5	3621.3
32.5°	2989.8	3000.4	3035.4	3055.6	2943.1	2822.1	2911.3	3123.5	3561.9	3769.9	3829.3
35°	3162.8	3181.9	3253.0	3318.8	3224.4	3085.3	3180.8	3400.5	3815.5	4051.2	4068.1
37.5°	3345.4	3383.6	3468.5	3584.2	3569.3	3446.2	3533.2	3726.4	4015.1	4221.0	4265.5
40°	3554.4	3591.6	3730.6	3897.3	3932.3	3904.7	3933.3	4045.8	4146.7	4228.4	4350.5
42.5°	3783.7	3834.6	4010.8	4233.7	4365.3	4389.7	4322.9	4311.2	4204.0	4143.5	4332.4
45°	4054.3	4113.8	4313.3	4602.0	4811.1	4844.0	4728.3	4578.6	4240.1	4080.9	4278.3
47.5°	4357.9	4414.1	4612.6	4959.7	5270.6	5283.4	5081.7	4840.8	4347.3	4153.0	4319.7
50°	4459.8	4494.8	4666.7	5074.3	5647.4	5745.1	5453.2	5135.8	4562.7	4365.3	4521.3
52.5°	4109.5	4123.3	4273.0	4684.8	5571.0	6198.3	5995.5	5576.3	4945.9	4689.0	4832.3
55°	3256.2	3233.9	3354.9	3732.7	4841.9	6105.9	6486.9	6268.3	5439.4	5069.0	5236.7
57.5°	2277.6	2251.1	2223.5	2479.3	3612.8	5176.2	5977.5	6364.9	5909.6	5445.8	5672.9
60°	1872.2	1846.7	1713.0	1595.2	2184.2	3716.8	4591.4	5320.5	5871.4	5426.7	5659.1
62.5°	1617.5	1602.6	1548.5	1388.2	1285.3	2121.6	2875.2	3573.5	4505.4	4261.3	4274.0
65°	1270.4	1266.2	1303.3	1320.3	1136.7	1173.8	1466.8	1857.4	2435.8	2296.7	2177.9
67.5°	868.2	858.6	928.7	1142.0	1093.2	926.6	858.6	866.1	1053.9	644.2	511.6
70°	551.9	529.6	530.7	707.9	889.4	731.3	662.3	582.7	524.3	95.5	108.3
72.5°	353.4	339.6	291.9	319.5	411.8	356.6	359.8	309.9	207.0	50.9	59.4
75°	148.6	136.9	105.1	83.8	82.8	52.0	45.6	42.5	28.7	28.7	30.8
77.5°	1.1	0.0	0.0	1.1	2.1	1.1	1.1	2.1	4.2	6.4	7.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3	3050.3
2.5°	3067.3	3041.8	3070.5	3081.1	3080.0	3081.1	3050.3	3029.1	3028.0	3001.5	2988.7
5°	3079.0	3058.8	3080.0	3066.2	3033.3	2991.9	2936.7	2889.0	2867.8	2837.0	2822.1
7.5°	3101.2	3080.0	3076.8	3021.6	2939.9	2852.9	2755.2	2668.2	2621.5	2565.3	2568.5
10°	3117.2	3092.8	3051.4	2938.9	2803.0	2664.0	2518.6	2389.1	2307.4	2232.0	2219.3
12.5°	3123.5	3087.5	2990.9	2821.1	2630.0	2448.5	2235.2	2050.5	1923.2	1824.5	1810.7
15°	3135.2	3076.8	2913.4	2678.8	2416.7	2159.8	1888.1	1635.5	1466.8	1353.2	1362.8
17.5°	3153.3	3065.2	2826.4	2519.6	2187.4	1824.5	1457.2	1167.5	1012.5	946.7	947.8
20°	3178.7	3051.4	2730.8	2344.5	1912.5	1445.6	1018.9	800.3	756.7	754.6	751.4
22.5°	3212.7	3037.6	2628.9	2152.4	1586.7	1012.5	678.2	610.3	628.3	663.3	669.7
25°	3253.0	3020.6	2515.4	1935.9	1231.2	664.4	508.4	497.8	541.3	588.0	598.6
27.5°	3315.6	3012.1	2385.9	1689.7	863.9	476.5	416.0	422.4	461.7	501.0	510.5
30°	3421.8	3028.0	2244.7	1413.7	555.1	380.0	360.9	370.4	391.6	411.8	420.3
32.5°	3566.1	3074.7	2107.8	1112.3	395.9	330.1	325.8	331.1	339.6	351.3	354.5
35°	3734.9	3155.4	1966.7	796.0	326.9	301.4	297.2	297.2	301.4	303.5	304.6
37.5°	3873.9	3240.3	1834.0	529.6	292.9	279.1	272.8	269.6	268.5	270.6	271.7
40°	3934.4	3275.3	1689.7	385.3	268.5	259.0	249.4	239.9	239.9	247.3	248.4
42.5°	3891.9	3236.0	1523.0	318.4	251.5	237.7	222.9	214.4	218.6	226.1	228.2
45°	3801.7	3139.5	1339.4	281.3	234.6	216.5	199.5	194.2	198.5	208.0	210.1
47.5°	3786.9	3075.8	1119.7	256.8	216.5	198.5	180.4	175.1	180.4	187.9	190.0
50°	3934.4	3131.0	875.6	235.6	199.5	179.4	164.5	159.2	162.4	166.6	168.8
52.5°	4204.0	3335.8	706.9	215.5	179.4	160.3	150.7	144.3	144.3	148.6	149.6
55°	4602.0	3693.5	610.3	192.1	156.0	145.4	136.9	130.5	130.5	132.7	133.7
57.5°	5060.5	4126.5	632.6	161.3	136.9	131.6	124.2	118.9	121.0	121.0	121.0
60°	4996.8	4094.7	677.1	135.9	121.0	118.9	112.5	110.4	115.7	111.4	109.3
62.5°	3680.7	2828.5	354.5	111.4	104.0	101.9	97.6	101.9	109.3	97.6	93.4
65°	1787.3	1369.1	142.2	91.3	88.1	86.0	83.8	90.2	94.5	76.4	72.2
67.5°	420.3	341.8	92.3	77.5	73.2	69.0	71.1	72.2	69.0	52.0	49.9
70°	109.3	107.2	72.2	64.7	58.4	54.1	54.1	53.1	45.6	32.9	30.8
72.5°	59.4	58.4	52.0	48.8	40.3	36.1	37.1	32.9	25.5	19.1	18.0
75°	29.7	31.8	29.7	27.6	22.3	20.2	20.2	18.0	12.7	7.4	7.4
77.5°	6.4	7.4	7.4	6.4	5.3	4.2	4.2	5.3	2.1	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)