

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: P636709

Luminaire Tested: GWS-SA4B-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636709
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8382.7 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

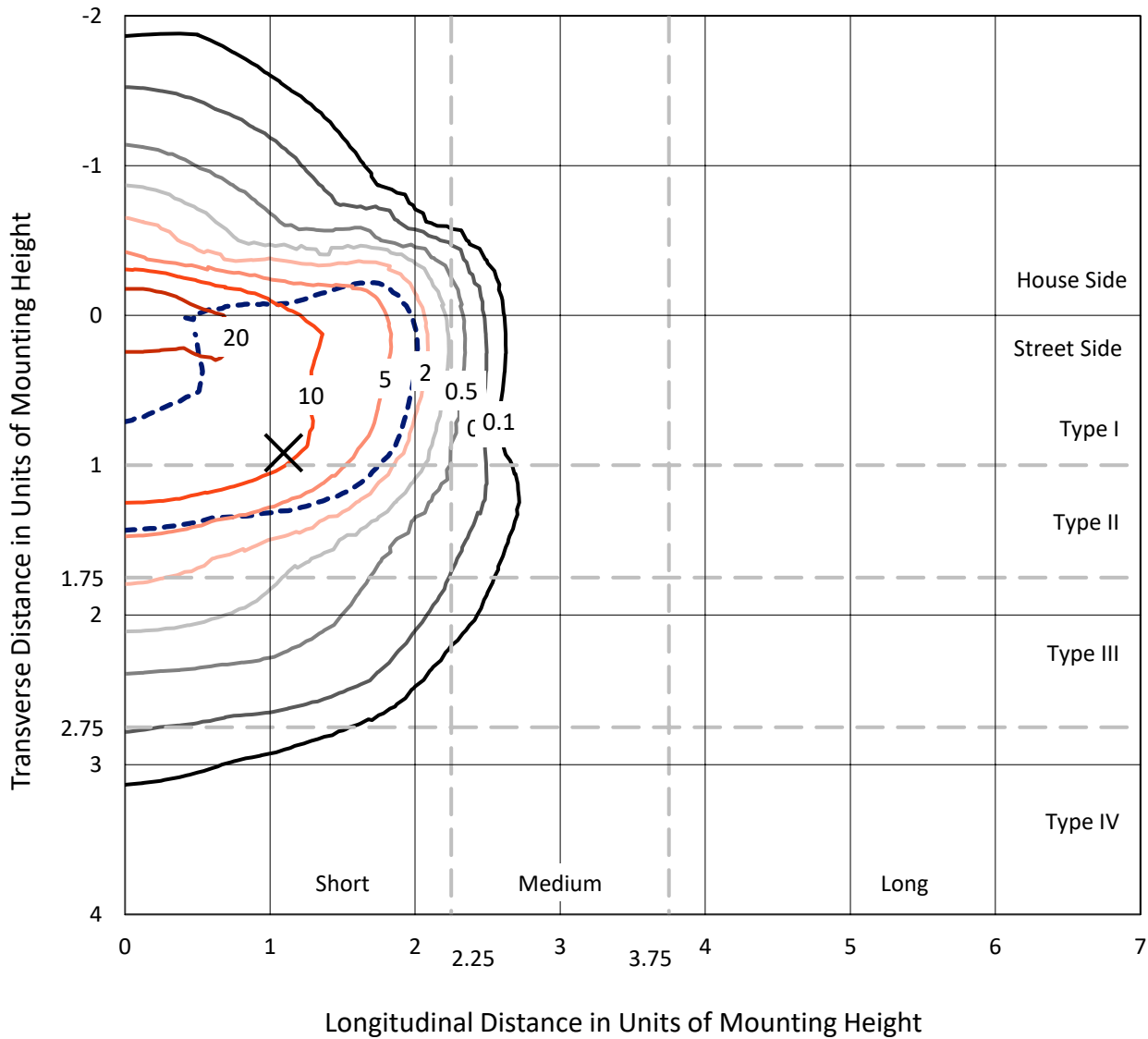
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

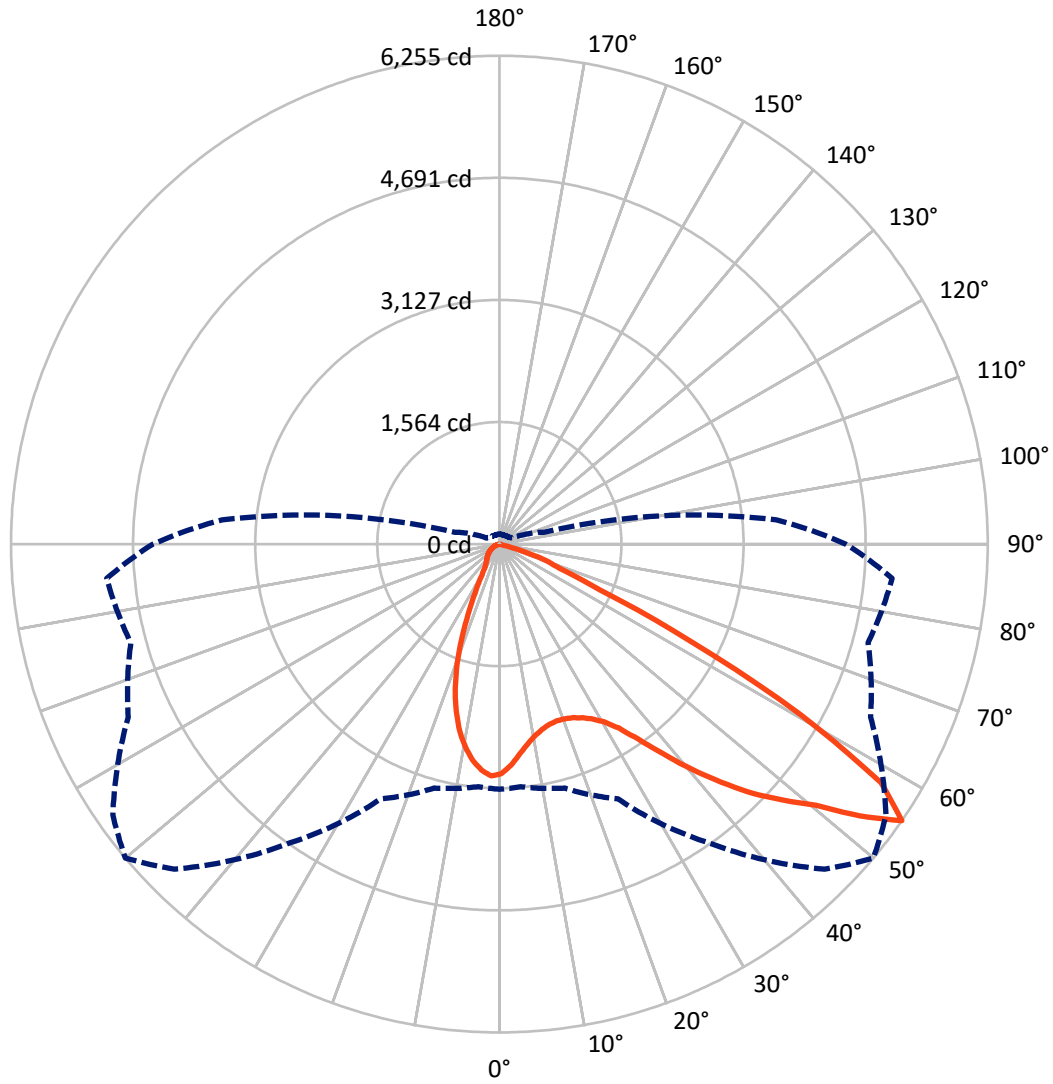
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.4 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	1651.8	0.0	1651.8
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	6730.9	0.0	6730.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	8382.7	0.0	8382.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	3.1
10°-20°	635.6	7.6
20°-30°	896.6	10.7
30°-40°	1326.7	15.8
40°-50°	1914.0	22.8
50°-60°	2257.7	26.9
60°-70°	1007.1	12.0
70°-80°	86.6	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°	8382.7	100.0
0°-180°	8382.7	100.0

Coefficient of Utilization



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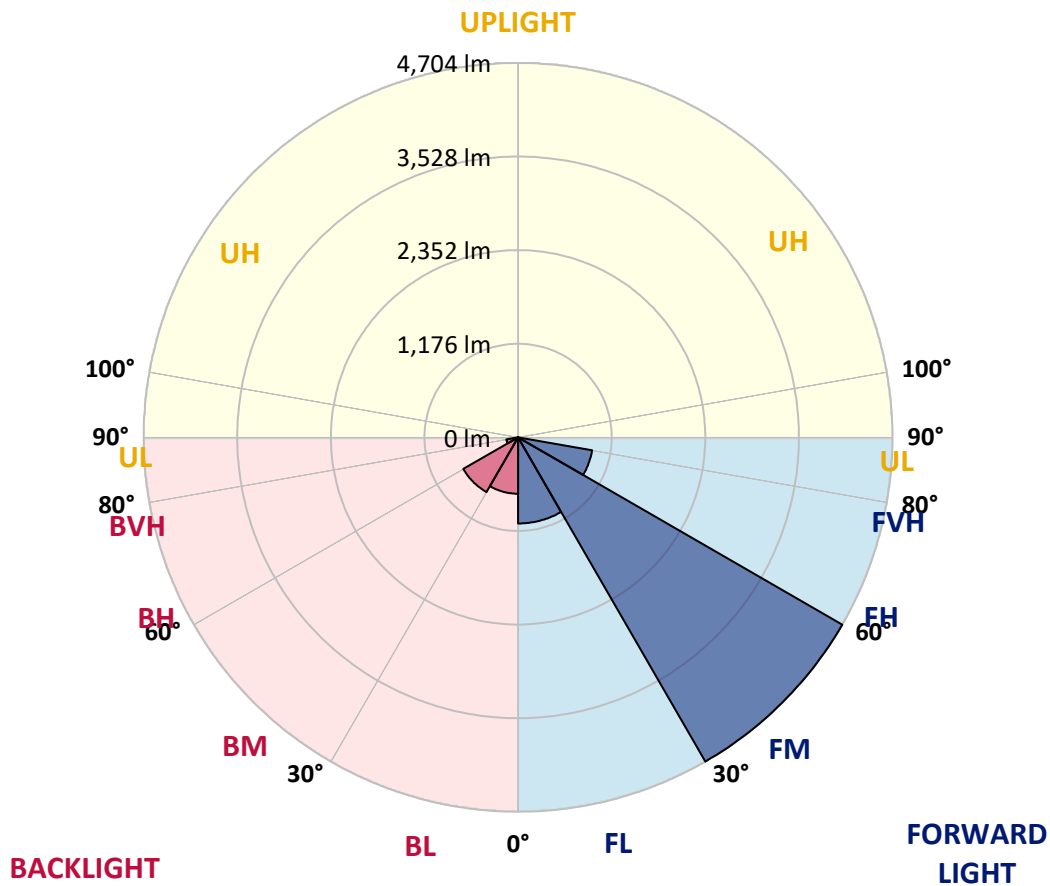
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.2	12.9			
FM (30°-60°)	4704.1	56.1			
FH (60°-80°)	944.6	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	708.2	8.4	B2/1000		
BM (30°-60°)	794.4	9.5	B1/1000		
BH (60°-80°)	149.1	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°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	2732.4	2734.4	2735.4	2763.1	2773.3	2814.2	2835.7	2847.0	2876.6	2911.4	2940.1
5°	2549.2	2546.1	2551.2	2586.0	2608.5	2668.9	2701.7	2724.2	2789.7	2871.5	2940.1
7.5°	2389.5	2395.7	2401.8	2439.7	2473.4	2538.9	2586.0	2619.8	2710.9	2832.6	2948.3
10°	2277.0	2277.0	2286.2	2329.2	2369.1	2449.9	2497.0	2540.0	2648.4	2797.8	2957.5
12.5°	2194.1	2195.1	2206.3	2255.5	2301.5	2385.4	2434.6	2476.5	2596.2	2763.1	2959.5
15°	2155.2	2152.1	2161.3	2213.5	2264.7	2343.5	2394.6	2435.6	2559.4	2743.6	2969.8
17.5°	2144.9	2142.9	2150.1	2201.2	2253.4	2330.2	2380.3	2421.3	2554.3	2749.8	3000.5
20°	2174.6	2170.5	2167.5	2211.5	2260.6	2336.3	2388.5	2434.6	2578.9	2783.5	3047.5
22.5°	2245.2	2245.2	2238.1	2259.6	2292.3	2360.9	2415.1	2475.5	2643.3	2851.1	3117.1
25°	2375.2	2365.0	2351.7	2360.9	2356.8	2399.8	2464.2	2548.1	2765.1	2962.6	3202.1
27.5°	2523.6	2532.8	2510.3	2511.3	2475.5	2460.1	2534.8	2661.7	2946.2	3120.2	3327.9
30°	2725.2	2718.0	2719.0	2716.0	2633.1	2560.4	2641.3	2810.1	3174.4	3360.7	3491.7
32.5°	2882.8	2893.0	2926.8	2946.2	2837.8	2721.1	2807.1	3011.7	3434.4	3635.0	3692.3
35°	3049.6	3068.0	3136.6	3200.0	3108.9	2974.9	3067.0	3278.8	3679.0	3906.1	3922.5
37.5°	3225.6	3262.5	3344.3	3455.9	3441.5	3322.8	3406.7	3593.0	3871.3	4069.9	4112.9
40°	3427.2	3463.0	3597.1	3757.8	3791.5	3764.9	3792.5	3901.0	3998.2	4077.0	4194.7
42.5°	3648.3	3697.4	3867.3	4082.2	4209.1	4232.6	4168.1	4156.9	4053.5	3995.2	4177.3
45°	3909.2	3966.5	4158.9	4437.3	4638.9	4670.6	4559.0	4414.7	4088.3	3934.8	4125.1
47.5°	4201.9	4256.1	4447.5	4782.1	5082.0	5094.3	4899.8	4667.5	4191.7	4004.4	4165.0
50°	4300.1	4333.9	4499.7	4892.7	5445.3	5539.4	5258.0	4952.0	4399.4	4209.1	4359.5
52.5°	3962.4	3975.7	4120.0	4517.1	5371.6	5976.4	5780.9	5376.7	4768.8	4521.2	4659.3
55°	3139.6	3118.2	3234.8	3599.1	4668.5	5887.4	6254.7	6043.9	5244.7	4887.5	5049.2
57.5°	2196.1	2170.5	2143.9	2390.6	3483.5	4990.9	5763.5	6137.0	5698.0	5250.8	5469.8
60°	1805.2	1780.6	1651.7	1538.1	2106.1	3583.8	4427.0	5130.1	5661.2	5232.4	5456.5
62.5°	1559.6	1545.3	1493.1	1338.5	1239.3	2045.7	2772.3	3445.6	4344.1	4108.8	4121.0
65°	1225.0	1220.9	1256.7	1273.1	1096.0	1131.8	1414.3	1790.9	2348.6	2214.5	2099.9
67.5°	837.1	827.9	895.4	1101.1	1054.1	893.4	827.9	835.1	1016.2	621.2	493.3
70°	532.1	510.7	511.7	682.6	857.6	705.1	638.6	561.8	505.5	92.1	104.4
72.5°	340.8	327.5	281.4	308.0	397.1	343.8	346.9	298.8	199.6	49.1	57.3
75°	143.3	132.0	101.3	80.8	79.8	50.1	44.0	40.9	27.6	27.6	29.7
77.5°	1.0	0.0	0.0	1.0	2.0	1.0	1.0	2.0	4.1	6.1	7.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	2957.5	2932.9	2960.6	2970.8	2969.8	2970.8	2941.1	2920.7	2919.6	2894.0	2881.8
5°	2968.7	2949.3	2969.8	2956.5	2924.7	2884.8	2831.6	2785.6	2765.1	2735.4	2721.1
7.5°	2990.2	2969.8	2966.7	2913.5	2834.7	2750.8	2656.6	2572.7	2527.7	2473.4	2476.5
10°	3005.6	2982.1	2942.1	2833.7	2702.7	2568.6	2428.4	2303.6	2224.8	2152.1	2139.8
12.5°	3011.7	2976.9	2883.8	2720.1	2535.9	2360.9	2155.2	1977.1	1854.3	1759.1	1745.8
15°	3023.0	2966.7	2809.1	2582.9	2330.2	2082.5	1820.5	1577.0	1414.3	1304.8	1314.0
17.5°	3040.4	2955.4	2725.2	2429.4	2109.1	1759.1	1405.1	1125.7	976.3	912.8	913.9
20°	3064.9	2942.1	2633.1	2260.6	1844.1	1393.8	982.4	771.6	729.7	727.6	724.5
22.5°	3097.7	2928.8	2534.8	2075.4	1529.9	976.3	653.9	588.4	605.8	639.6	645.7
25°	3136.6	2912.5	2425.3	1866.6	1187.1	640.6	490.2	480.0	521.9	566.9	577.2
27.5°	3197.0	2904.3	2300.5	1629.2	833.0	459.5	401.2	407.3	445.2	483.0	492.2
30°	3299.3	2919.6	2164.4	1363.1	535.2	366.4	347.9	357.2	377.6	397.1	405.2
32.5°	3438.5	2964.7	2032.4	1072.5	381.7	318.3	314.2	319.3	327.5	338.7	341.8
35°	3601.2	3042.4	1896.3	767.5	315.2	290.6	286.5	286.5	290.6	292.7	293.7
37.5°	3735.2	3124.3	1768.4	510.7	282.4	269.1	263.0	259.9	258.9	261.0	262.0
40°	3793.6	3158.1	1629.2	371.5	258.9	249.7	240.5	231.3	231.3	238.4	239.5
42.5°	3752.6	3120.2	1468.5	307.0	242.5	229.2	214.9	206.7	210.8	218.0	220.0
45°	3665.7	3027.1	1291.5	271.2	226.2	208.8	192.4	187.3	191.4	200.6	202.6
47.5°	3651.3	2965.7	1079.6	247.7	208.8	191.4	174.0	168.9	174.0	181.1	183.2
50°	3793.6	3018.9	844.3	227.2	192.4	172.9	158.6	153.5	156.6	160.7	162.7
52.5°	4053.5	3216.4	681.6	207.7	172.9	154.5	145.3	139.2	139.2	143.3	144.3
55°	4437.3	3561.3	588.4	185.2	150.4	140.2	132.0	125.9	125.9	127.9	128.9
57.5°	4879.3	3978.8	609.9	155.5	132.0	126.9	119.7	114.6	116.7	116.7	116.7
60°	4817.9	3948.1	652.9	131.0	116.7	114.6	108.5	106.4	111.5	107.5	105.4
62.5°	3549.0	2727.2	341.8	107.5	100.3	98.2	94.1	98.2	105.4	94.1	90.1
65°	1723.3	1320.1	137.1	88.0	84.9	82.9	80.8	87.0	91.1	73.7	69.6
67.5°	405.2	329.5	89.0	74.7	70.6	66.5	68.6	69.6	66.5	50.1	48.1
70°	105.4	103.4	69.6	62.4	56.3	52.2	52.2	51.2	44.0	31.7	29.7
72.5°	57.3	56.3	50.1	47.1	38.9	34.8	35.8	31.7	24.6	18.4	17.4
75°	28.7	30.7	28.7	26.6	21.5	19.4	19.4	17.4	12.3	7.2	7.2
77.5°	6.1	7.2	7.2	6.1	5.1	4.1	4.1	5.1	2.0	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)