

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: P639687

Luminaire Tested: GWS-SA5C-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18505 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

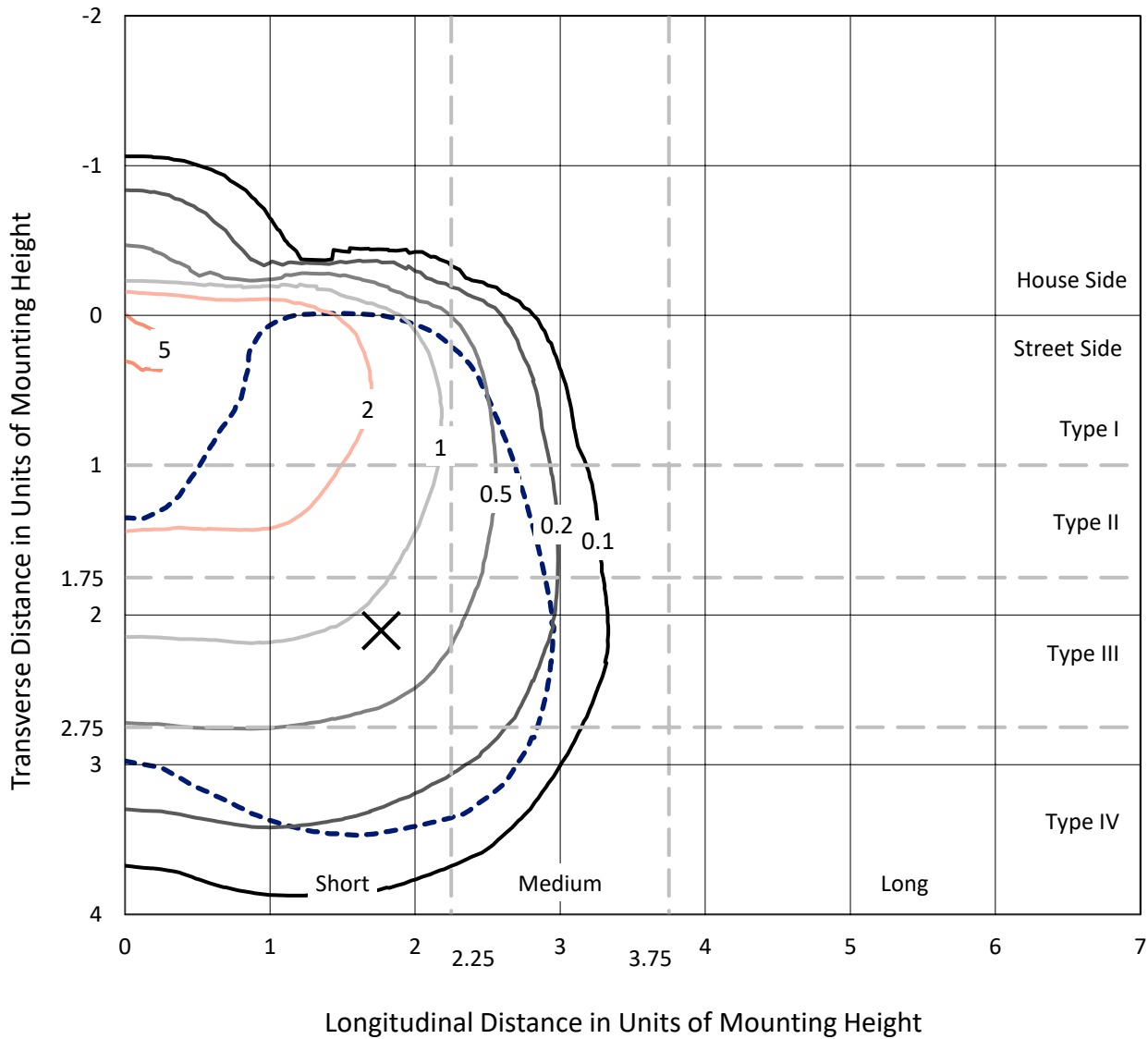
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

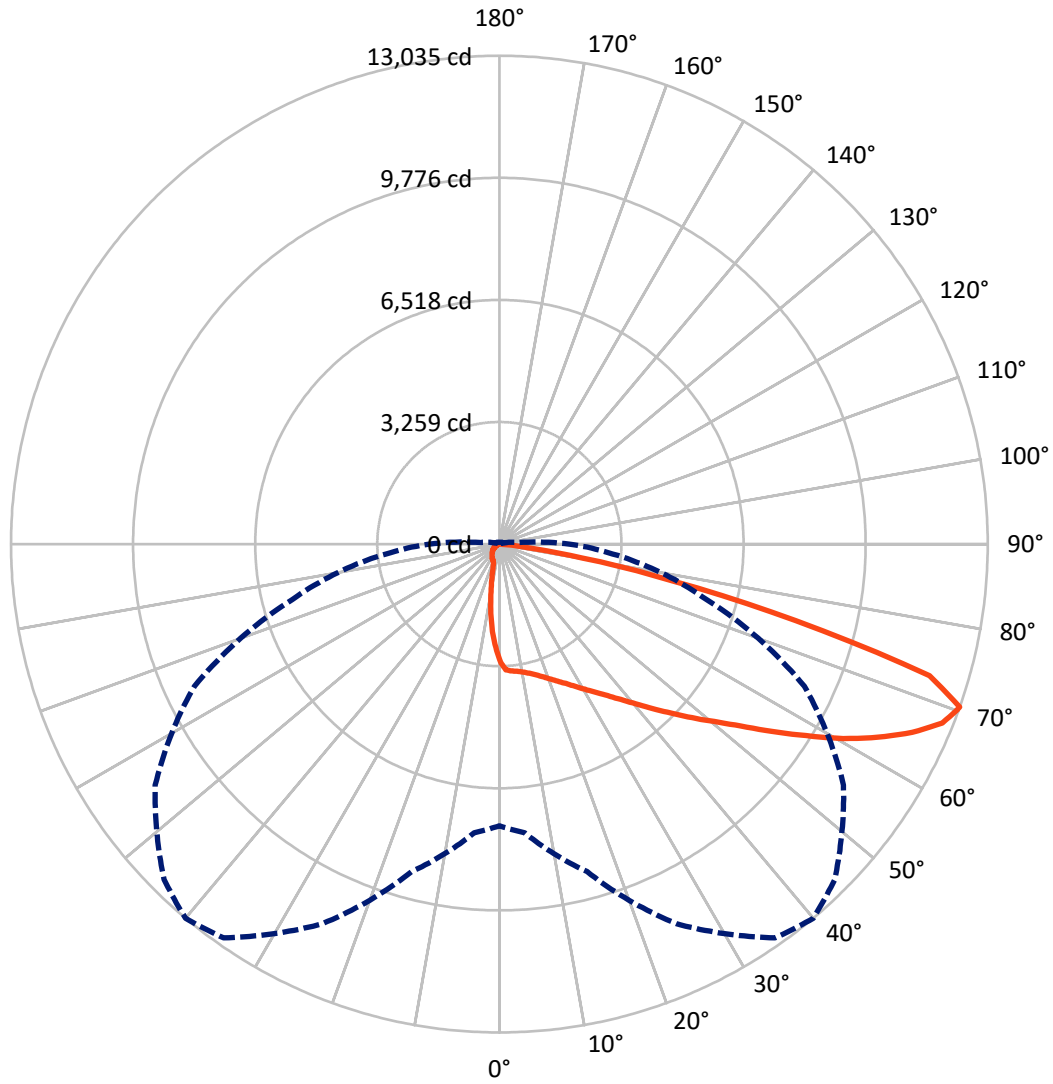
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.2	0.0	1513.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	16991.8	0.0	16991.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	18505.0	0.0	18505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.4
10°-20°	673.1	3.6
20°-30°	1126.6	6.1
30°-40°	1769.4	9.6
40°-50°	2798.8	15.1
50°-60°	4082.7	22.1
60°-70°	5061.1	27.4
70°-80°	2560.6	13.8
80°-90°	167.2	0.9
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°	18505.0	100.0
0°-180°	18505.0	100.0

Coefficient of Utilization



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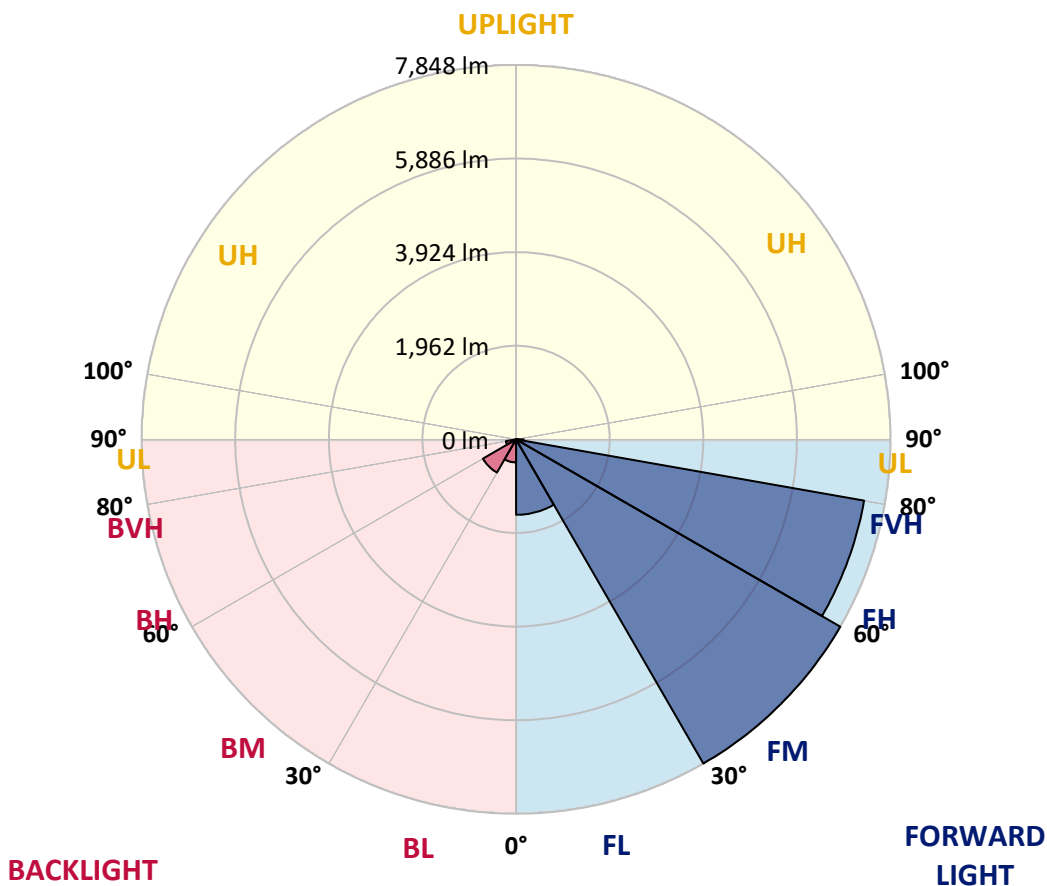
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.8	8.5			
FM (30°-60°)	7847.8	42.4			
FH (60°-80°)	7406.0	40.0			G3/7500
FVH (80°-90°)	156.1	0.8			G2/225
BL (0°-30°)	483.2	2.6	B1/500		
BM (30°-60°)	803.2	4.3	B1/1000		
BH (60°-80°)	215.8	1.2	B1/500		G1/500
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1
2.5°	3375.8	3387.6	3385.9	3390.9	3379.2	3360.6	3357.3	3332.0	3286.6	3229.3	3165.3
5°	3444.8	3458.3	3448.2	3443.1	3421.3	3401.0	3396.0	3369.1	3316.9	3239.4	3128.3
7.5°	3503.8	3507.1	3500.4	3488.6	3456.6	3429.7	3411.2	3374.1	3311.8	3234.4	3106.4
10°	3513.9	3512.2	3515.5	3517.2	3497.0	3473.4	3458.3	3407.8	3328.6	3246.1	3108.1
12.5°	3502.1	3502.1	3524.0	3549.2	3549.2	3537.4	3522.3	3476.8	3384.2	3286.6	3141.8
15°	3517.2	3522.3	3564.4	3611.5	3626.7	3614.9	3608.1	3561.0	3465.0	3357.3	3202.4
17.5°	3571.1	3576.2	3643.5	3714.2	3732.7	3719.3	3705.8	3658.7	3555.9	3438.1	3271.4
20°	3650.2	3663.7	3749.6	3840.5	3857.3	3840.5	3813.6	3747.9	3645.2	3525.6	3337.1
22.5°	3795.0	3803.4	3896.1	3992.0	4000.4	3973.5	3933.1	3842.2	3734.4	3618.2	3411.2
25°	3987.0	3998.8	4091.4	4184.0	4162.1	4121.7	4066.1	3963.4	3840.5	3727.7	3505.4
27.5°	4216.0	4229.4	4320.3	4401.2	4343.9	4296.8	4234.5	4106.5	3981.9	3879.2	3626.7
30°	4463.5	4475.2	4556.1	4628.5	4552.7	4497.1	4423.0	4291.7	4165.4	4088.0	3798.4
32.5°	4702.5	4700.9	4778.3	4837.2	4759.8	4716.0	4648.7	4515.6	4414.6	4381.0	4054.3
35°	4924.8	4924.8	4988.8	5047.7	4992.1	4968.6	4906.3	4800.2	4742.9	4783.4	4396.1
37.5°	5148.7	5136.9	5197.5	5263.2	5258.2	5259.8	5224.5	5174.0	5177.3	5320.5	4865.9
40°	5333.9	5328.9	5399.6	5485.5	5552.8	5606.7	5584.8	5603.3	5709.4	5977.1	5466.9
42.5°	5482.1	5493.9	5584.8	5721.2	5891.2	6000.7	6015.8	6091.6	6364.3	6778.5	6145.5
45°	5652.1	5653.8	5780.1	5988.9	6259.9	6433.4	6494.0	6689.3	7076.5	7610.3	6889.6
47.5°	5860.9	5840.7	5982.1	6275.1	6667.4	6923.3	7031.1	7275.2	7874.6	8421.8	7495.8
50°	6091.6	6054.5	6214.5	6613.5	7123.7	7443.6	7662.5	8019.4	8665.9	9088.5	7947.0
52.5°	6359.3	6323.9	6505.8	7002.5	7670.9	8059.8	8341.0	8701.3	9344.5	9597.0	8216.4
55°	6699.4	6664.0	6856.0	7468.8	8317.4	8822.5	9117.2	9420.2	9975.8	9972.5	8411.7
57.5°	7076.5	7027.7	7293.7	8058.1	9123.9	9649.2	9948.9	10097.1	10455.7	10263.8	8543.0
60°	7509.2	7465.5	7834.2	8760.2	10055.0	10541.6	10730.1	10669.5	10849.7	10435.5	8497.6
62.5°	7899.9	7879.7	8337.6	9504.4	10942.3	11353.1	11405.3	11141.0	11139.3	10438.9	8191.1
65°	8305.6	8344.4	9024.6	10361.4	11834.6	12110.8	12021.5	11609.0	11255.4	10026.4	7285.3
67.5°	8457.2	8570.0	9477.5	11135.9	12538.4	12753.9	12597.3	11843.1	10772.2	8639.0	5547.7
70°	7521.0	7733.2	9049.8	11179.7	12829.7	13035.1	12659.6	11213.4	8980.8	5722.9	3039.1
72.5°	5719.5	5967.0	7541.2	9154.2	11538.3	12006.4	11364.9	9135.7	5788.5	2507.0	1020.3
75°	3200.7	3468.4	5616.8	6893.0	7746.6	8174.3	7938.6	5860.9	2564.3	655.0	304.7
77.5°	1082.6	1171.8	2613.1	4264.8	5113.4	4729.5	4003.8	2911.1	942.9	249.2	161.6
80°	641.5	675.2	973.2	2123.1	2690.5	2230.9	1761.1	1075.9	479.9	133.0	112.8
82.5°	191.9	227.3	537.1	788.0	1054.0	656.6	555.6	614.5	249.2	72.4	94.3
85°	0.0	0.0	114.5	244.1	276.1	107.8	107.8	348.5	45.5	30.3	69.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.4	5.1	6.7	15.2
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°	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1	3140.1
2.5°	3119.9	3060.9	2991.9	2926.2	2864.0	2783.1	2744.4	2697.3	2656.9	2635.0	2646.8
5°	3057.6	2965.0	2823.5	2680.4	2535.6	2399.3	2276.3	2193.8	2119.8	2081.0	2089.5
7.5°	3003.7	2879.1	2658.5	2424.5	2192.2	1958.1	1767.9	1619.7	1505.2	1458.1	1449.7
10°	2980.1	2823.5	2512.1	2175.3	1818.4	1503.5	1234.1	1070.8	954.7	897.4	907.5
12.5°	2991.9	2794.9	2387.5	1931.2	1468.2	1101.1	843.5	690.3	607.8	574.1	565.7
15°	3025.6	2788.2	2276.3	1682.0	1133.1	769.4	582.6	520.3	503.4	500.1	500.1
17.5°	3064.3	2789.9	2161.9	1429.5	860.4	570.8	498.4	486.6	481.5	478.2	479.9
20°	3103.0	2789.9	2030.5	1173.5	646.5	493.3	474.8	466.4	461.3	459.6	459.6
22.5°	3150.2	2789.9	1884.0	936.1	518.6	468.1	452.9	447.9	442.8	441.1	439.4
25°	3207.4	2791.6	1722.4	732.4	471.4	446.2	434.4	429.3	424.3	420.9	420.9
27.5°	3289.9	2805.0	1543.9	570.8	444.5	426.0	415.9	410.8	405.8	400.7	400.7
30°	3409.5	2838.7	1343.6	471.4	419.2	404.1	394.0	390.6	385.6	380.5	378.8
32.5°	3587.9	2897.6	1136.5	422.6	395.7	380.5	368.7	365.4	360.3	355.3	353.6
35°	3837.1	3005.4	934.4	392.3	365.4	350.2	343.5	341.8	335.1	330.0	330.0
37.5°	4202.5	3180.5	740.8	362.0	340.1	328.3	319.9	316.5	309.8	304.7	303.1
40°	4648.7	3407.8	575.8	338.4	316.5	304.7	296.3	291.3	282.9	276.1	272.8
42.5°	5217.7	3685.6	454.6	313.2	294.6	282.9	276.1	266.0	254.2	244.1	242.5
45°	5810.4	3971.8	375.5	289.6	274.4	264.3	255.9	242.5	225.6	213.8	210.5
47.5°	6265.0	4150.3	328.3	264.3	252.6	244.1	234.0	217.2	197.0	183.5	180.2
50°	6590.0	4177.2	293.0	240.8	234.0	225.6	210.5	190.3	168.4	154.9	151.5
52.5°	6749.9	4056.0	264.3	218.9	213.8	205.4	186.9	165.0	141.4	128.0	124.6
55°	6822.3	3827.0	237.4	200.4	193.6	183.5	163.3	139.7	116.2	104.4	101.0
57.5°	6793.7	3488.6	213.8	181.8	173.4	161.6	139.7	114.5	96.0	84.2	82.5
60°	6581.5	3013.8	190.3	163.3	153.2	139.7	117.9	94.3	77.4	69.0	67.3
62.5°	6123.6	2424.5	166.7	141.4	134.7	121.2	101.0	77.4	64.0	58.9	57.2
65°	5185.8	1714.0	143.1	119.5	116.2	102.7	84.2	64.0	55.6	52.2	50.5
67.5°	3727.7	1042.2	121.2	102.7	99.3	87.6	70.7	55.6	50.5	48.8	48.8
70°	1873.9	493.3	96.0	84.2	84.2	72.4	60.6	50.5	48.8	47.1	47.1
72.5°	636.4	210.5	72.4	65.7	69.0	62.3	52.2	47.1	47.1	47.1	47.1
75°	217.2	111.1	50.5	47.1	50.5	50.5	45.5	45.5	47.1	47.1	47.1
77.5°	141.4	74.1	35.4	32.0	38.7	38.7	38.7	42.1	45.5	45.5	45.5
80°	116.2	40.4	23.6	21.9	28.6	28.6	32.0	38.7	42.1	42.1	42.1
82.5°	99.3	25.3	13.5	15.2	20.2	21.9	26.9	32.0	37.0	38.7	38.7
85°	67.3	13.5	10.1	11.8	13.5	16.8	21.9	26.9	30.3	33.7	33.7
87.5°	18.5	5.1	6.7	8.4	8.4	11.8	16.8	20.2	23.6	25.3	25.3
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)