

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: P640863

Luminaire Tested: GWS-SA5E-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27805.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

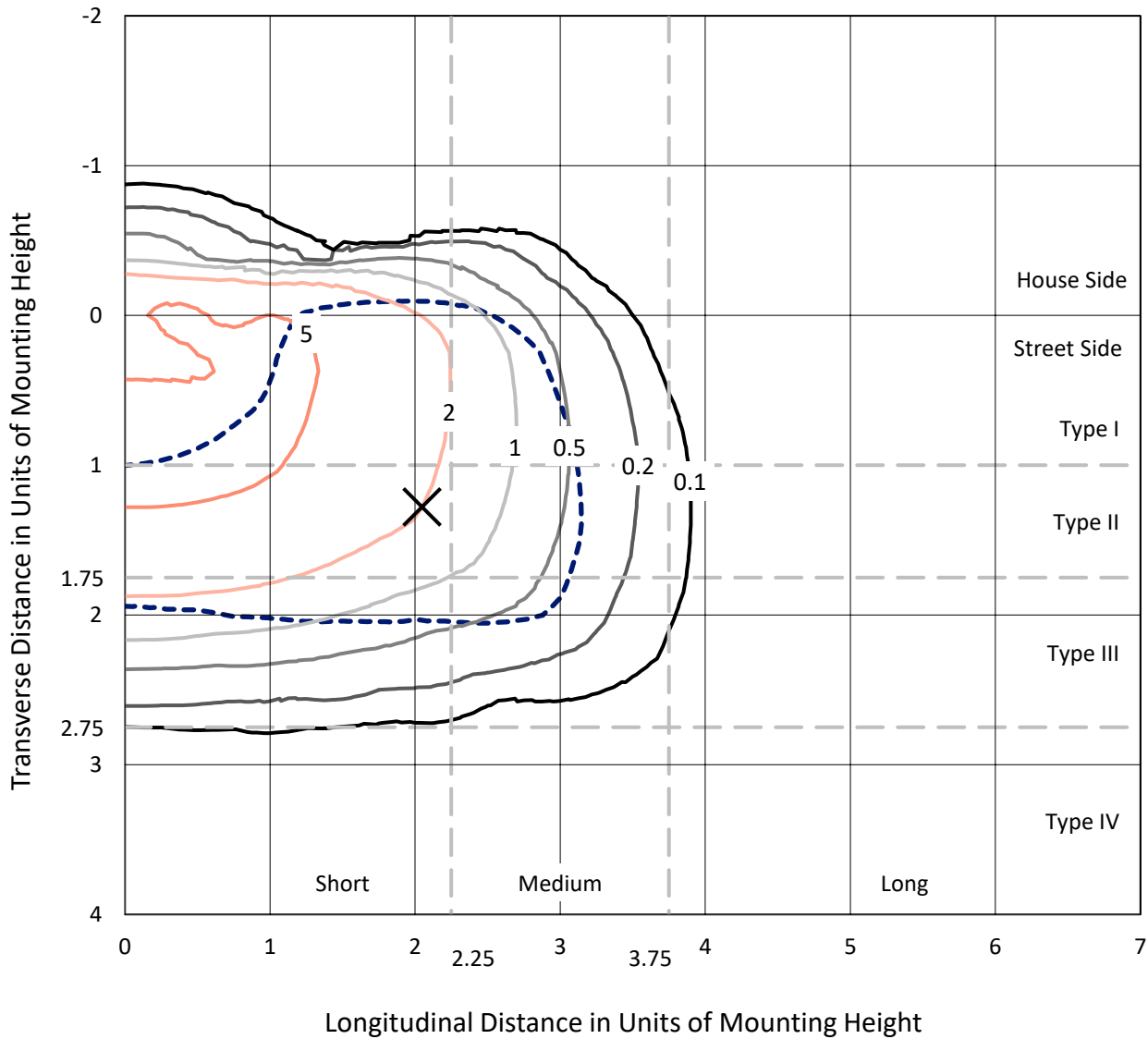
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

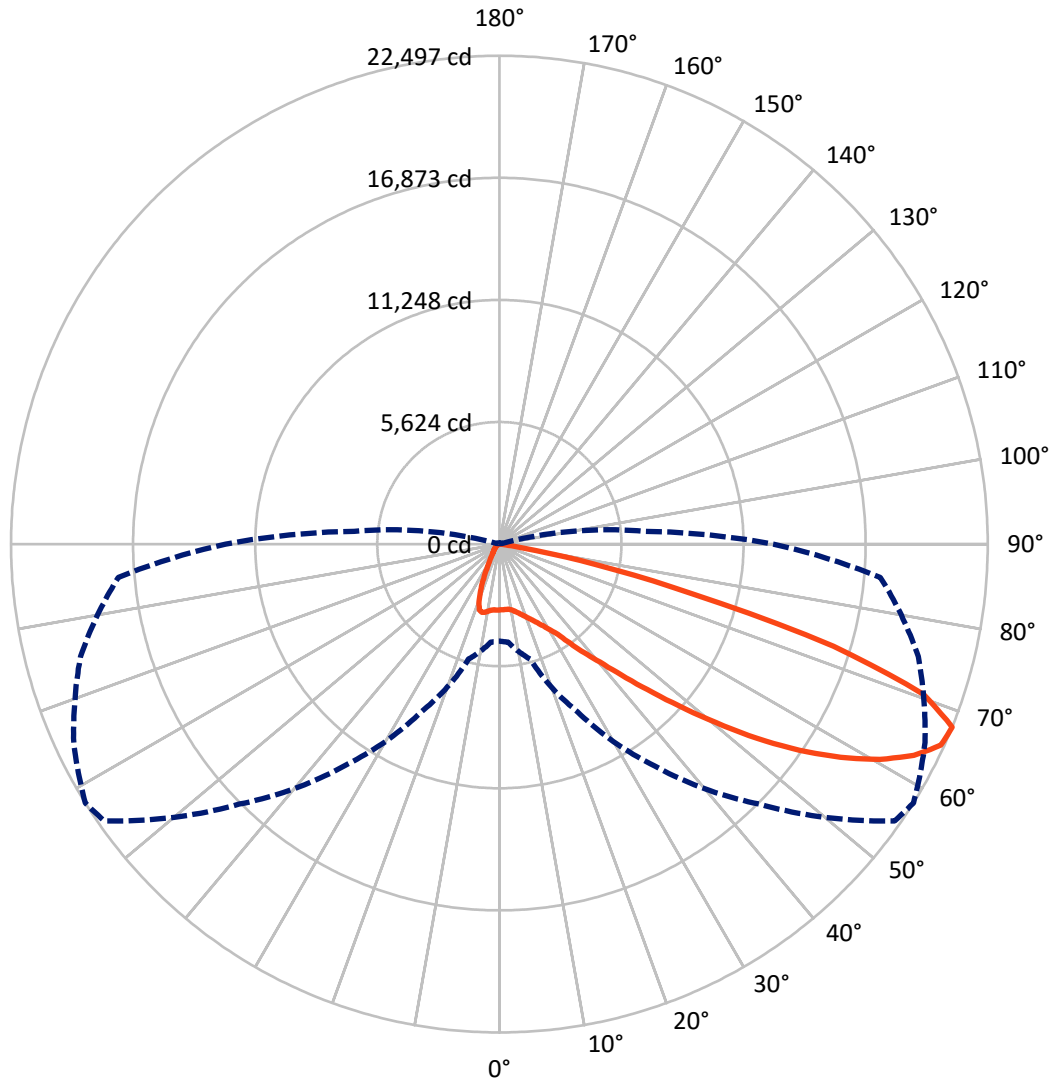
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.5	0.0	3033.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	24772.1	0.0	24772.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	27805.6	0.0	27805.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.0
10°-20°	799.2	2.9
20°-30°	1395.0	5.0
30°-40°	2491.2	9.0
40°-50°	4553.5	16.4
50°-60°	7572.9	27.2
60°-70°	8225.5	29.6
70°-80°	2415.1	8.7
80°-90°	68.8	0.2
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°	27805.6	100.0
0°-180°	27805.6	100.0

Coefficient of Utilization



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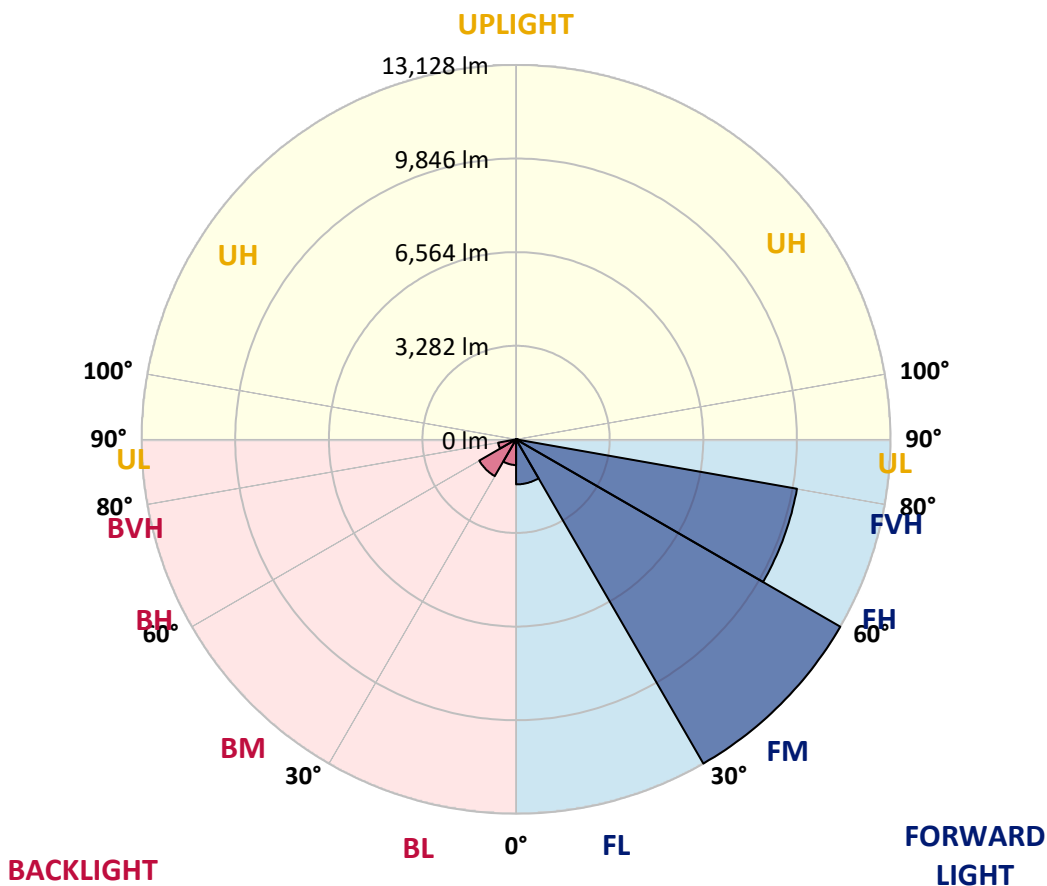
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1578.9	5.7			
FM (30°-60°)	13127.6	47.2			
FH (60°-80°)	10000.2	36.0			G4/12000
FVH (80°-90°)	65.4	0.2			G1/100
BL (0°-30°)	899.8	3.2	B2/1000		
BM (30°-60°)	1490.0	5.4	B2/2500		
BH (60°-80°)	640.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0
2.5°	2973.0	2967.5	2967.5	2989.3	2992.0	3002.8	3027.3	3030.0	3043.6	3038.1	3019.1
5°	2818.2	2820.9	2837.2	2875.2	2907.8	2948.5	3008.3	3021.8	3051.7	3068.0	3057.1
7.5°	2674.3	2677.0	2701.5	2761.2	2823.6	2905.1	3002.8	3030.0	3089.7	3133.2	3135.9
10°	2620.0	2617.3	2641.7	2709.6	2791.1	2905.1	3046.3	3081.6	3171.2	3247.2	3260.8
12.5°	2636.3	2633.6	2658.0	2720.5	2810.1	2954.0	3122.3	3171.2	3285.2	3401.9	3426.4
15°	2701.5	2698.7	2715.0	2766.6	2864.4	3013.7	3220.0	3293.3	3437.2	3578.4	3616.4
17.5°	2896.9	2883.4	2867.1	2872.5	2929.5	3084.3	3344.9	3434.5	3613.7	3782.0	3814.6
20°	3244.5	3209.2	3165.7	3108.7	3081.6	3187.5	3488.8	3592.0	3809.2	4002.0	4007.4
22.5°	3768.5	3754.9	3654.4	3488.8	3372.1	3374.8	3657.2	3776.6	4042.7	4254.5	4224.6
25°	4498.8	4490.7	4335.9	4064.4	3760.3	3657.2	3871.6	3993.8	4319.6	4545.0	4449.9
27.5°	5405.6	5348.6	5166.7	4800.2	4346.8	4023.7	4143.1	4251.7	4612.8	4824.6	4645.4
30°	6195.7	6198.4	6027.4	5644.6	5134.1	4574.8	4474.4	4569.4	4881.6	5104.3	4887.1
32.5°	6955.9	6980.4	6793.0	6448.2	5888.9	5294.3	4949.5	4965.8	5226.4	5468.1	5204.7
35°	7661.8	7680.8	7550.5	7257.3	6736.0	6046.4	5612.0	5603.8	5745.0	5992.1	5647.3
37.5°	8451.9	8470.9	8343.3	8079.9	7591.2	6907.1	6364.0	6353.2	6410.2	6611.1	6217.4
40°	9293.6	9328.9	9187.7	8965.0	8498.1	7919.8	7238.3	7140.5	7083.5	7319.7	6955.9
42.5°	10146.1	10200.4	10151.5	9928.9	9529.8	9051.9	8373.2	8221.1	8099.0	8394.9	8009.4
45°	11205.0	11270.1	11248.4	11077.3	10767.8	10379.6	9738.8	9562.4	9505.3	9779.6	9320.7
47.5°	12223.1	12293.7	12372.4	12334.4	12114.5	11935.3	11224.0	11123.5	11107.2	11400.4	10689.1
50°	12980.6	13045.7	13347.1	13564.3	13713.6	13675.6	13059.3	12910.0	12885.6	13072.9	12133.5
52.5°	13523.6	13586.0	14001.4	14680.2	15228.6	15527.3	14905.5	14873.0	14739.9	14674.8	13485.6
55°	13944.4	14031.3	14468.4	15494.7	16599.7	17262.2	16873.9	16757.2	16415.1	16040.4	14739.9
57.5°	14028.6	14063.9	14680.2	16064.9	17664.0	18736.5	18736.5	18532.8	17873.1	17354.5	16189.8
60°	13273.8	13382.4	14215.9	16018.7	18120.1	19700.3	20281.3	20140.1	19249.6	18611.6	17585.3
62.5°	11598.6	11720.8	12736.2	14913.7	17664.0	19898.5	21451.5	21429.8	20425.2	19651.4	18741.9
65°	8894.5	8984.1	9869.2	12475.6	15736.3	19135.6	22287.7	22347.5	21353.8	20338.3	19141.0
67.5°	4468.9	4531.4	5487.1	8522.5	12472.9	16939.1	22230.7	22496.8	21636.1	19974.5	17617.9
70°	1561.1	1623.6	2074.3	3657.2	7591.2	12934.4	20308.5	20742.9	19977.2	17050.4	12996.9
72.5°	534.9	564.7	860.7	1357.5	2954.0	7667.3	15443.1	16097.4	14726.4	11446.6	7469.1
75°	304.1	323.1	461.6	735.8	1238.1	2522.3	8761.4	9163.2	8584.9	6239.2	3073.4
77.5°	206.3	222.6	287.8	418.1	684.2	811.8	3573.0	4498.8	3923.2	2036.3	784.6
80°	122.2	133.0	176.5	247.1	350.2	314.9	765.6	1018.1	1311.4	608.2	236.2
82.5°	57.0	65.2	114.0	162.9	176.5	133.0	225.3	274.2	369.2	298.7	97.7
85°	0.0	0.0	38.0	67.9	65.2	38.0	62.4	67.9	100.5	149.3	38.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	5.4	8.1	16.3	29.9	16.3
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°	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0	3030.0
2.5°	3040.8	3021.8	3043.6	3032.7	3043.6	3040.8	3019.1	3005.5	3005.5	2981.1	2973.0
5°	3078.9	3059.8	3065.3	3040.8	3035.4	3021.8	2994.7	2983.8	2983.8	2959.4	2951.2
7.5°	3163.0	3133.2	3127.7	3078.9	3057.1	3019.1	2970.2	2951.2	2948.5	2924.1	2915.9
10°	3296.1	3260.8	3236.3	3173.9	3111.4	3035.4	2932.2	2845.4	2796.5	2731.3	2725.9
12.5°	3459.0	3415.5	3377.5	3282.5	3179.3	3008.3	2704.2	2386.5	2191.0	2036.3	2047.1
15°	3640.9	3600.1	3540.4	3396.5	3184.7	2739.5	2104.2	1615.4	1376.5	1248.9	1243.5
17.5°	3839.1	3779.3	3681.6	3486.1	3013.7	2093.3	1368.4	966.6	841.7	798.2	787.4
20°	4023.7	3950.4	3828.2	3505.1	2519.6	1417.2	855.2	749.3	727.6	714.1	714.1
22.5°	4219.2	4126.9	3944.9	3358.5	1873.4	906.8	727.6	703.2	686.9	667.9	665.2
25°	4417.4	4297.9	4050.8	2975.7	1227.2	714.1	681.5	654.3	624.5	594.6	586.4
27.5°	4585.7	4430.9	4132.3	2405.5	787.4	643.5	621.7	575.6	534.9	502.3	496.9
30°	4786.6	4588.4	4167.6	1759.3	619.0	567.4	534.9	486.0	437.1	404.5	393.7
32.5°	5055.4	4838.2	4113.3	1145.7	548.4	499.6	448.0	391.0	342.1	306.8	301.4
35°	5473.5	5215.6	3863.5	730.3	496.9	431.7	369.2	309.5	268.8	241.6	236.2
37.5°	5983.9	5745.0	3453.5	548.4	445.3	374.7	301.4	244.4	214.5	195.5	190.1
40°	6741.4	6407.5	2945.8	480.6	393.7	317.7	247.1	200.9	179.2	162.9	157.5
42.5°	7724.3	7189.4	2362.1	437.1	344.8	266.1	200.9	165.6	146.6	135.8	133.0
45°	8872.7	7952.3	1745.8	393.7	298.7	219.9	165.6	135.8	122.2	114.0	111.3
47.5°	10048.3	8620.2	1205.5	347.5	255.2	181.9	138.5	116.7	105.9	95.0	92.3
50°	11302.7	9185.0	822.7	301.4	217.2	149.3	119.5	105.9	92.3	84.2	81.5
52.5°	12223.1	9394.0	572.9	260.6	184.6	127.6	105.9	95.0	84.2	73.3	70.6
55°	13072.9	9388.6	434.4	219.9	157.5	111.3	95.0	84.2	73.3	65.2	62.4
57.5°	13920.0	9315.3	342.1	187.3	135.8	100.5	84.2	73.3	67.9	57.0	54.3
60°	14468.4	9038.4	266.1	157.5	116.7	86.9	73.3	65.2	57.0	48.9	46.2
62.5°	14758.9	8652.8	203.6	124.9	95.0	76.0	65.2	57.0	48.9	40.7	38.0
65°	14365.3	7968.6	160.2	97.7	73.3	65.2	54.3	46.2	38.0	29.9	27.2
67.5°	12619.5	6719.7	124.9	78.7	57.0	48.9	46.2	38.0	27.2	21.7	19.0
70°	8918.9	4602.0	97.7	59.7	43.4	38.0	35.3	29.9	21.7	16.3	13.6
72.5°	4895.2	2321.4	70.6	43.4	32.6	29.9	27.2	24.4	19.0	13.6	13.6
75°	1884.2	638.0	51.6	29.9	21.7	21.7	19.0	19.0	16.3	10.9	10.9
77.5°	491.4	190.1	32.6	19.0	13.6	13.6	13.6	10.9	10.9	8.1	8.1
80°	157.5	62.4	19.0	13.6	10.9	8.1	8.1	5.4	8.1	5.4	5.4
82.5°	51.6	21.7	10.9	10.9	8.1	5.4	5.4	2.7	2.7	0.0	0.0
85°	19.0	10.9	8.1	5.4	5.4	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	10.9	5.4	5.4	5.4	5.4	2.7	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)