

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: P637540

Luminaire Tested: GWS-SA4D-722-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14609.7 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

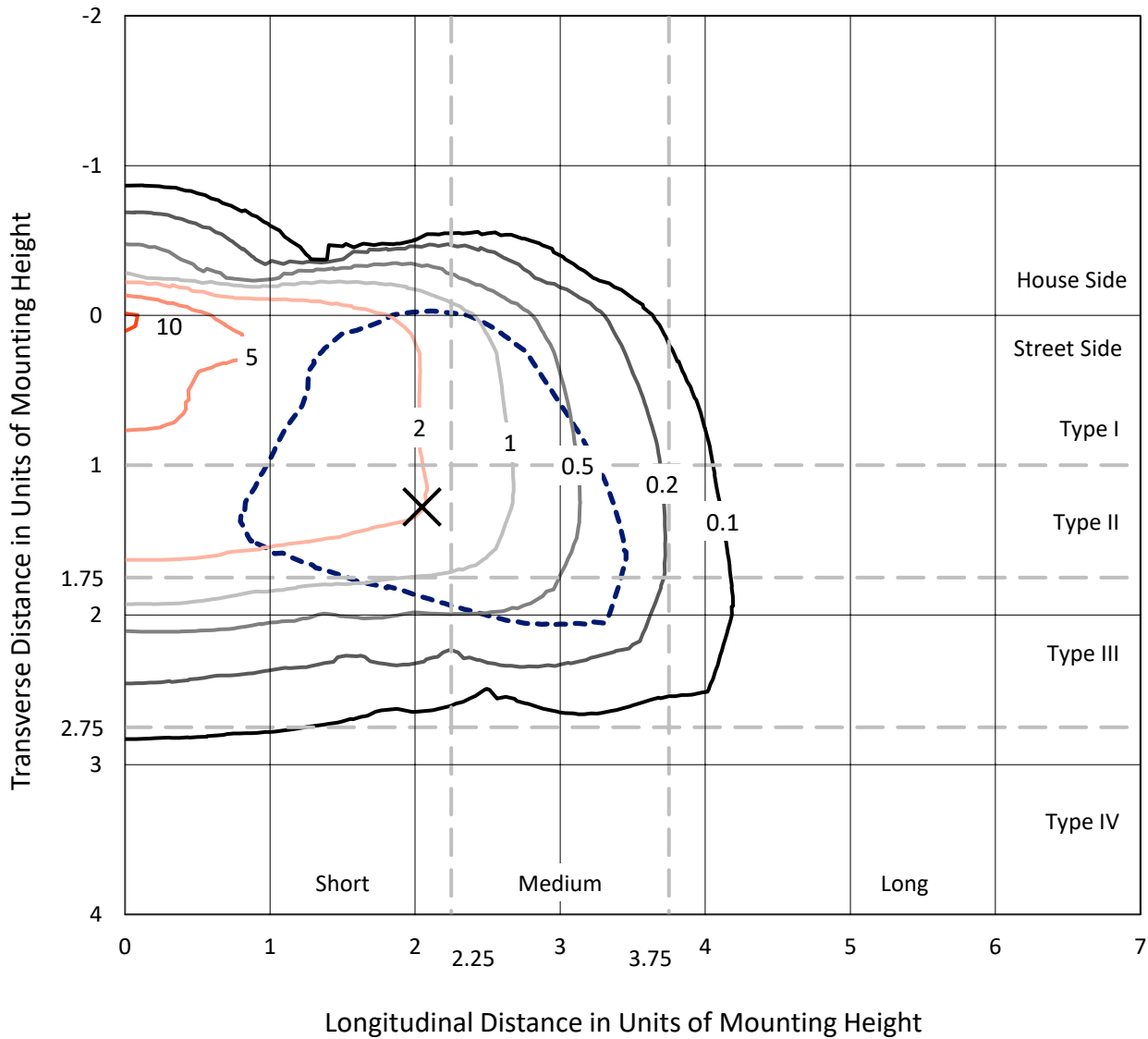
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

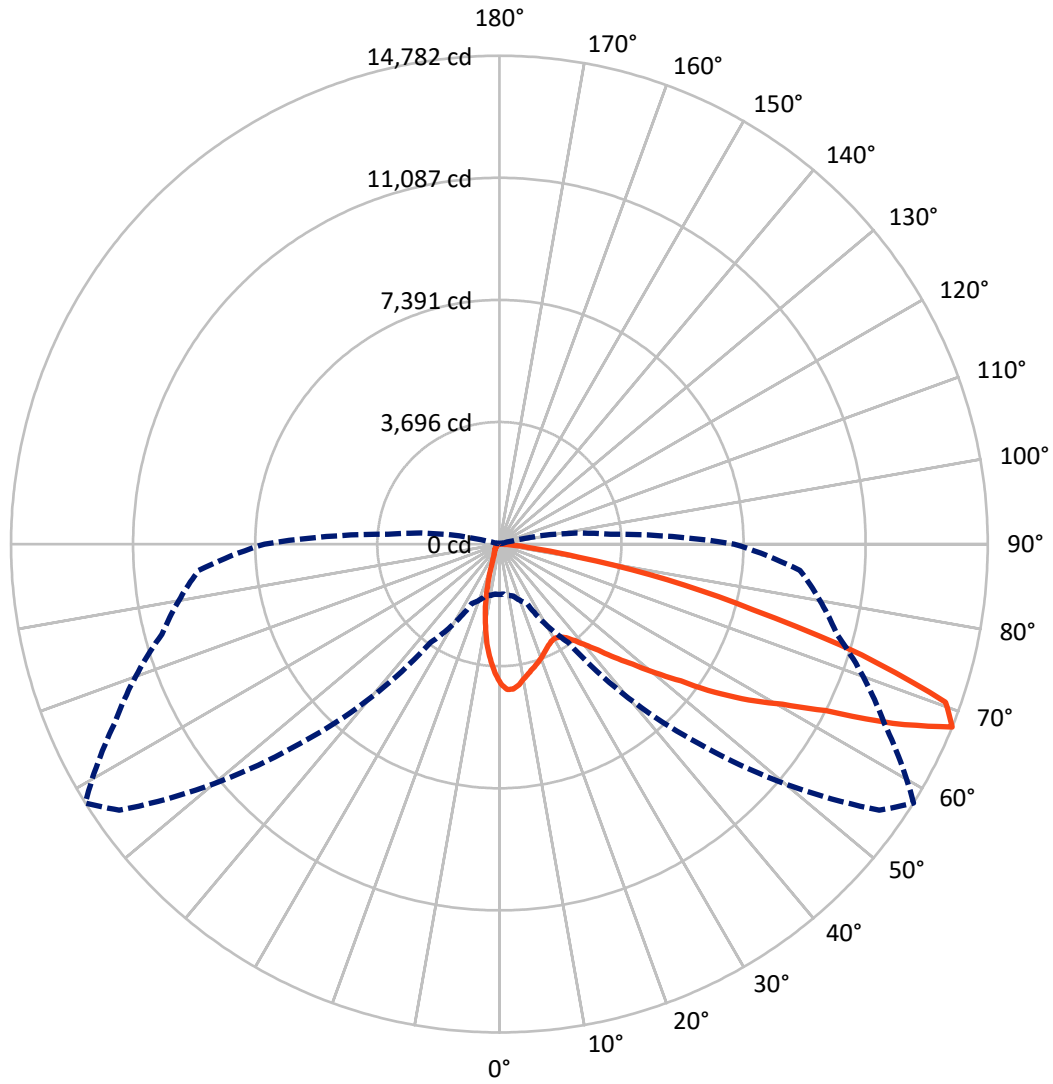
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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	1427.3	0.0	1427.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13182.4	0.0	13182.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	14609.7	0.0	14609.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	2.3
10°-20°	712.8	4.9
20°-30°	961.3	6.6
30°-40°	1350.8	9.2
40°-50°	2086.2	14.3
50°-60°	3336.2	22.8
60°-70°	3950.3	27.0
70°-80°	1747.5	12.0
80°-90°	122.2	0.8
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°	14609.7	100.0
0°-180°	14609.7	100.0

Coefficient of Utilization



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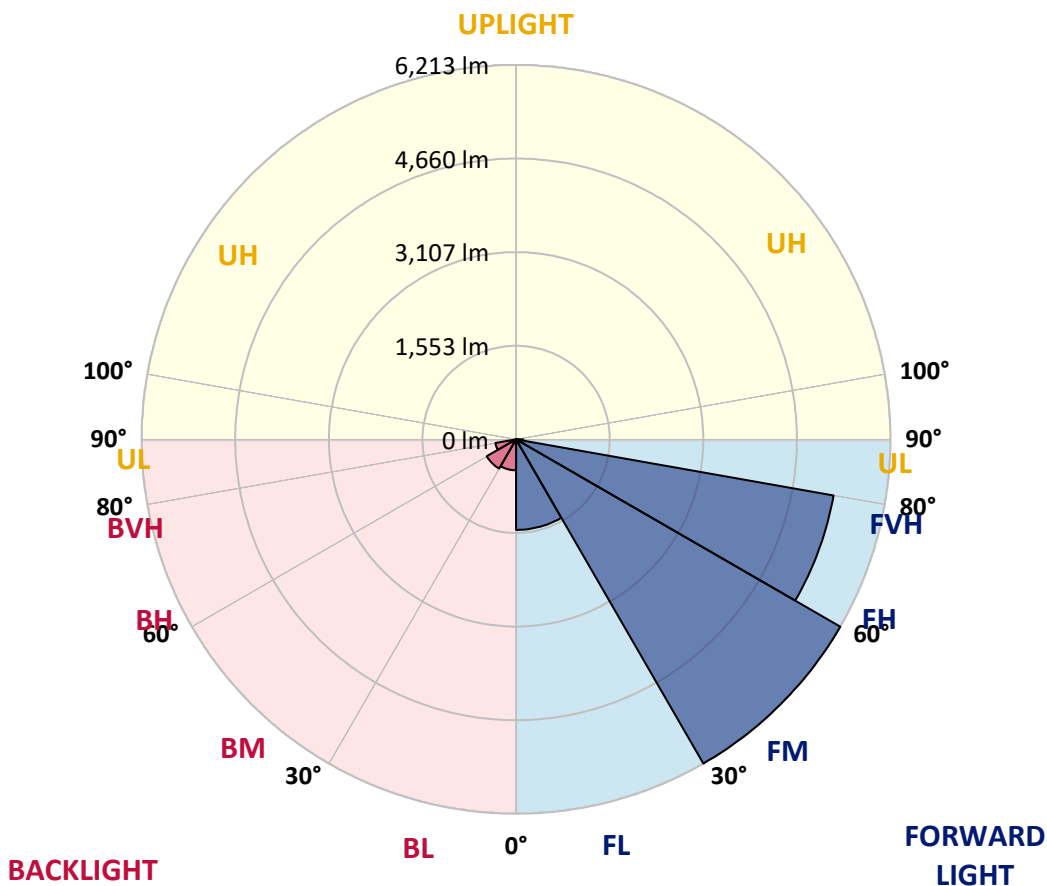
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.0	10.3			
FM (30°-60°)	6213.2	42.5			
FH (60°-80°)	5349.3	36.6			G3/7500
FVH (80°-90°)	117.0	0.8			G2/225
BL (0°-30°)	513.6	3.5	B2/1000		
BM (30°-60°)	560.0	3.8	B1/1000		
BH (60°-80°)	348.4	2.4	B1/500		G1/500
BVH (80°-90°)	5.2	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1
2.5°	4432.7	4440.4	4450.8	4463.7	4461.1	4449.5	4435.2	4402.9	4382.2	4317.6	4238.7
5°	4290.4	4289.1	4315.0	4339.6	4383.5	4406.8	4439.1	4409.4	4399.0	4321.4	4193.4
7.5°	4012.4	4026.6	4056.4	4095.2	4158.5	4227.1	4304.6	4295.6	4326.6	4274.9	4115.8
10°	3739.6	3731.8	3778.4	3836.5	3933.5	4021.5	4134.0	4132.7	4214.1	4209.0	4027.9
12.5°	3500.3	3499.1	3535.3	3601.2	3715.0	3837.8	3990.4	3994.3	4095.2	4136.5	3952.9
15°	3298.6	3301.2	3336.1	3404.7	3522.3	3672.3	3849.5	3881.8	3995.6	4079.6	3879.2
17.5°	3155.1	3156.4	3177.1	3236.6	3351.6	3512.0	3725.3	3769.3	3915.4	4037.0	3819.7
20°	3089.2	3084.0	3087.9	3117.6	3206.8	3352.9	3598.6	3655.5	3841.7	4007.2	3765.4
22.5°	3098.2	3090.4	3072.3	3068.5	3108.5	3219.8	3464.1	3534.0	3761.5	3989.1	3716.3
25°	3178.4	3161.6	3135.7	3096.9	3081.4	3137.0	3346.5	3418.9	3686.5	3990.4	3678.8
27.5°	3301.2	3283.1	3250.8	3199.1	3138.3	3115.0	3266.3	3334.8	3633.5	4020.2	3660.7
30°	3457.7	3443.5	3412.4	3350.4	3268.9	3173.2	3249.5	3306.4	3607.7	4080.9	3668.4
32.5°	3642.6	3632.2	3606.4	3549.5	3456.4	3310.3	3306.4	3350.4	3628.4	4168.9	3698.2
35°	3821.0	3824.9	3826.2	3795.2	3695.6	3518.5	3462.8	3478.4	3713.7	4300.8	3765.4
37.5°	4013.7	4004.6	4051.2	4073.2	3977.5	3788.7	3704.7	3705.9	3876.6	4496.0	3892.1
40°	4159.8	4162.4	4263.3	4353.8	4313.7	4131.4	4011.1	4009.8	4127.5	4763.7	4096.5
42.5°	4296.9	4313.7	4462.4	4617.6	4673.2	4511.5	4424.9	4392.6	4479.2	5125.7	4402.9
45°	4443.0	4467.6	4675.8	4896.9	5043.0	4947.3	4878.8	4891.7	4902.0	5547.3	4815.4
47.5°	4613.7	4629.2	4886.5	5198.2	5471.0	5446.4	5450.3	5434.8	5429.6	6078.7	5361.1
50°	4820.6	4856.8	5152.9	5525.3	5897.7	6060.6	6114.9	6121.4	6037.4	6658.0	5926.2
52.5°	5260.2	5304.2	5557.6	5883.5	6363.2	6705.9	6927.0	6883.0	6753.7	7219.2	6545.5
55°	5778.7	5812.4	6056.8	6394.2	6932.2	7413.2	7938.2	7920.1	7603.3	7810.2	7055.0
57.5°	5827.9	5865.4	6244.2	6761.5	7662.7	8287.3	8839.4	8897.6	8433.4	8229.1	7510.2
60°	5275.7	5352.0	5869.3	6564.9	7942.1	9462.7	9827.4	9839.0	9042.5	8654.5	8066.2
62.5°	4228.3	4264.6	4785.7	5693.4	7511.5	10148.0	11336.4	11090.7	9824.8	9312.7	8946.8
65°	2216.3	2363.7	2817.6	3822.3	6091.7	9908.8	13151.8	13084.6	11231.6	10255.4	9632.1
67.5°	1520.7	1519.4	1626.7	1992.6	3632.2	8531.7	14042.8	14782.4	12858.3	10578.6	9135.6
70°	1157.3	1161.2	1256.9	1494.8	1881.4	5679.2	13065.2	14329.8	13160.9	9604.9	7388.6
72.5°	768.1	775.8	934.9	1207.7	1502.6	2784.0	10153.2	11465.7	11073.9	7714.5	5200.7
75°	459.0	465.5	579.3	878.0	1335.7	1558.2	6451.1	7926.5	7622.7	5317.1	2787.9
77.5°	188.8	194.0	297.4	547.0	977.6	1210.3	3567.6	5186.5	4565.8	2114.2	761.6
80°	78.9	81.5	143.5	382.7	704.7	759.0	1652.5	2437.4	1871.1	455.2	232.8
82.5°	28.4	29.7	53.0	210.8	438.4	571.5	834.0	963.3	527.6	148.7	125.4
85°	1.3	1.3	12.9	71.1	166.8	161.6	477.1	461.6	174.6	62.1	75.0
87.5°	0.0	0.0	1.3	1.3	2.6	6.5	45.3	80.2	37.5	15.5	32.3
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°	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1	4214.1
2.5°	4187.0	4118.4	4043.4	3973.6	3862.4	3796.5	3715.0	3678.8	3627.1	3614.1	3621.9
5°	4101.6	3984.0	3804.2	3641.3	3430.5	3261.1	3090.4	3018.0	2924.9	2862.9	2837.0
7.5°	3981.4	3827.5	3546.9	3250.8	2961.1	2652.1	2416.8	2261.6	2120.6	2043.1	2027.5
10°	3859.8	3659.4	3257.2	2833.1	2384.4	2014.6	1696.5	1461.2	1269.8	1183.2	1115.9
12.5°	3734.4	3484.8	2962.4	2409.0	1887.9	1383.6	990.5	761.6	624.6	570.2	579.3
15°	3619.3	3316.7	2670.2	1984.9	1329.3	835.3	547.0	461.6	429.3	419.0	417.7
17.5°	3509.4	3157.7	2379.3	1572.4	876.7	512.1	419.0	398.3	389.2	384.0	384.0
20°	3409.8	3005.1	2094.8	1184.5	566.4	406.0	378.9	368.5	360.8	356.9	356.9
22.5°	3316.7	2857.7	1816.8	837.9	417.7	364.6	347.8	337.5	328.4	323.3	323.3
25°	3232.7	2724.5	1551.7	576.7	359.5	333.6	315.5	303.9	288.4	279.3	279.3
27.5°	3171.9	2605.5	1297.0	420.2	324.6	300.0	279.3	263.8	247.0	236.6	234.0
30°	3135.7	2504.7	1039.6	345.3	292.2	267.7	244.4	225.0	205.6	195.3	194.0
32.5°	3115.0	2411.6	804.3	301.3	265.1	236.6	210.8	190.1	170.7	159.0	157.8
35°	3122.8	2339.2	602.6	271.5	239.2	209.5	181.0	160.3	143.5	133.2	130.6
37.5°	3190.0	2306.8	452.6	248.3	217.2	186.2	156.5	137.1	121.5	113.8	112.5
40°	3320.6	2313.3	355.6	230.2	199.1	162.9	134.5	116.4	104.7	98.3	97.0
42.5°	3523.6	2367.6	293.5	214.7	179.7	142.2	116.4	102.2	90.5	84.0	82.8
45°	3826.2	2480.1	256.0	196.5	159.0	122.8	100.9	87.9	77.6	69.8	68.5
47.5°	4264.6	2675.4	231.5	179.7	140.9	106.0	86.6	73.7	64.7	58.2	56.9
50°	4731.4	2909.4	210.8	162.9	125.4	91.8	73.7	60.8	53.0	46.6	45.3
52.5°	5229.2	3161.6	195.3	147.4	111.2	78.9	62.1	50.4	42.7	36.2	34.9
55°	5707.6	3415.0	177.2	137.1	94.4	67.2	51.7	41.4	33.6	28.4	28.4
57.5°	6173.1	3647.8	157.8	120.3	77.6	56.9	42.7	33.6	27.2	23.3	22.0
60°	6729.1	3969.7	135.8	102.2	64.7	47.8	34.9	27.2	22.0	18.1	18.1
62.5°	7555.4	4304.6	116.4	85.3	54.3	40.1	28.4	22.0	18.1	15.5	14.2
65°	7825.7	4123.6	98.3	69.8	44.0	32.3	23.3	19.4	15.5	14.2	12.9
67.5°	7104.1	3380.1	81.5	56.9	36.2	27.2	20.7	16.8	14.2	12.9	11.6
70°	5543.4	2398.6	63.4	42.7	29.7	22.0	18.1	15.5	12.9	11.6	11.6
72.5°	3770.6	1418.5	50.4	32.3	24.6	19.4	15.5	14.2	12.9	11.6	10.3
75°	1856.9	504.3	38.8	24.6	19.4	16.8	14.2	12.9	11.6	10.3	10.3
77.5°	500.4	139.7	29.7	19.4	15.5	12.9	12.9	12.9	11.6	9.1	9.1
80°	169.4	58.2	22.0	14.2	12.9	10.3	9.1	11.6	10.3	9.1	7.8
82.5°	93.1	28.4	15.5	11.6	9.1	7.8	7.8	7.8	7.8	6.5	6.5
85°	59.5	15.5	10.3	9.1	9.1	6.5	5.2	5.2	3.9	3.9	3.9
87.5°	27.2	9.1	9.1	7.8	7.8	6.5	3.9	2.6	1.3	1.3	1.3
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)