

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: P639300

Luminaire Tested: GWS-SA5B-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639300  
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-SA5B-750-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

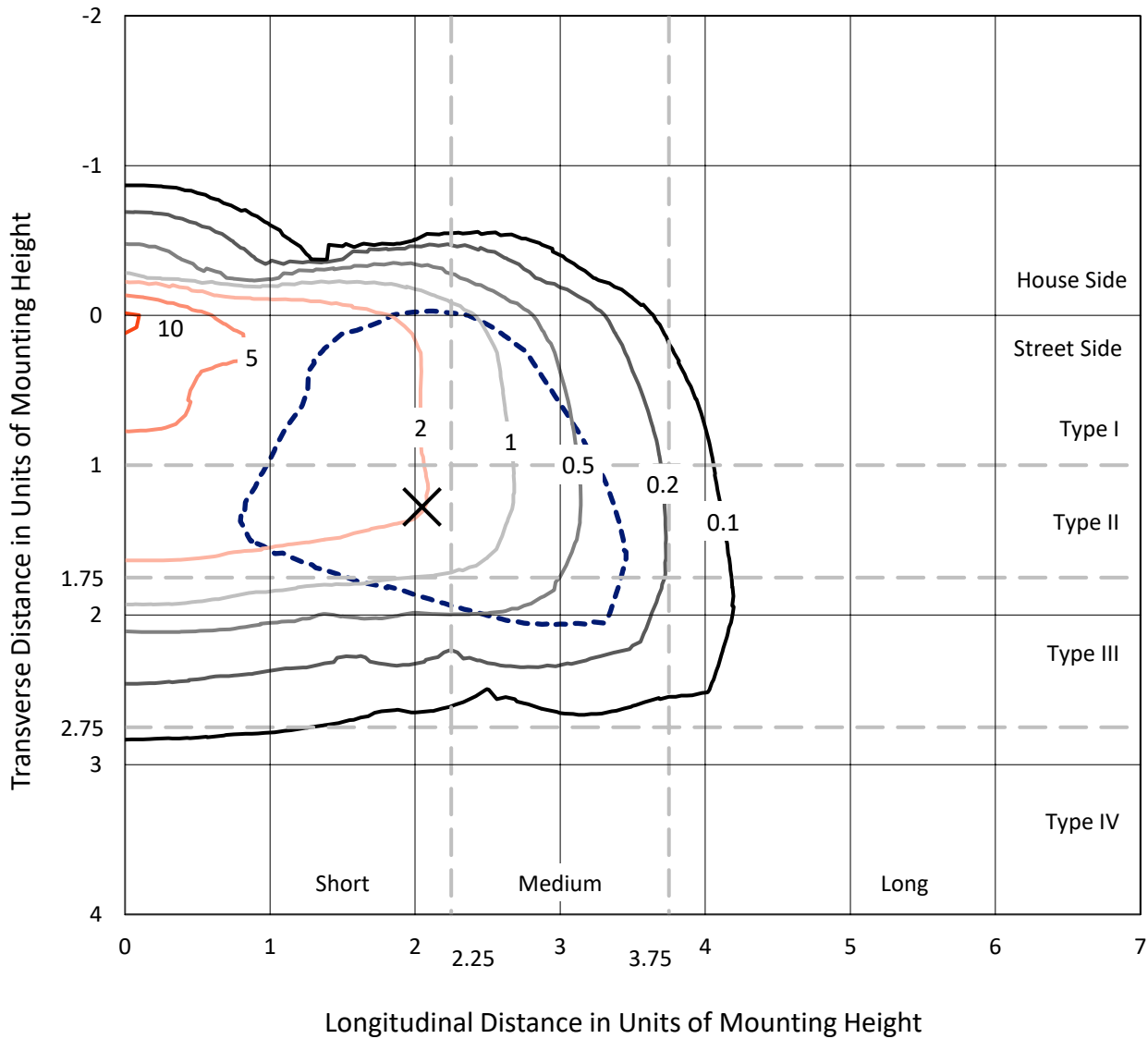
Lumens per Lamp: N/A  
Luminaire Lumens: 14710.4 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

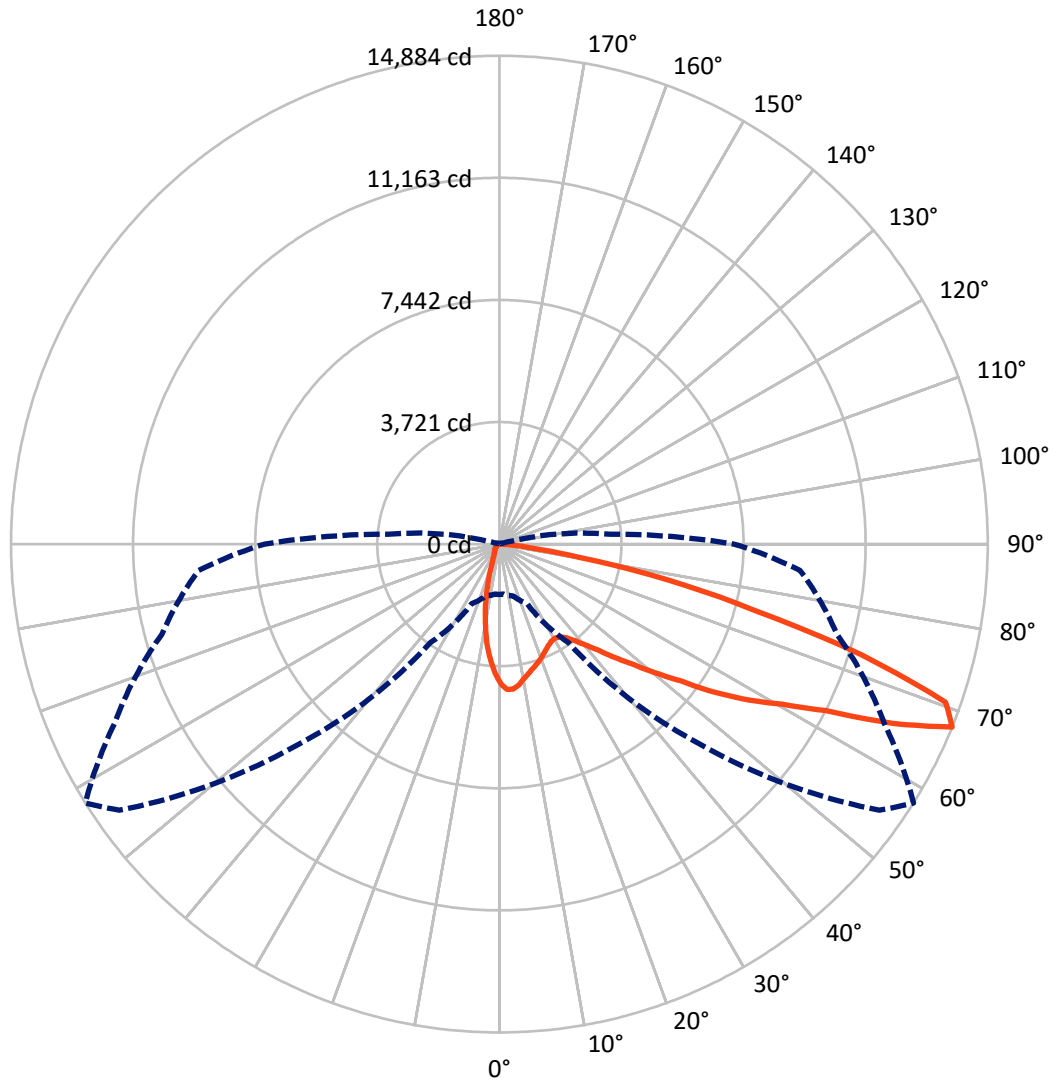
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	1437.1	0.0	1437.1
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	13273.3	0.0	13273.3
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	14710.4	0.0	14710.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	2.3
10°-20°	717.7	4.9
20°-30°	967.9	6.6
30°-40°	1360.1	9.2
40°-50°	2100.6	14.3
50°-60°	3359.2	22.8
60°-70°	3977.5	27.0
70°-80°	1759.5	12.0
80°-90°	123.0	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°	14710.4	100.0
0°-180°	14710.4	100.0

**Coefficient of Utilization**



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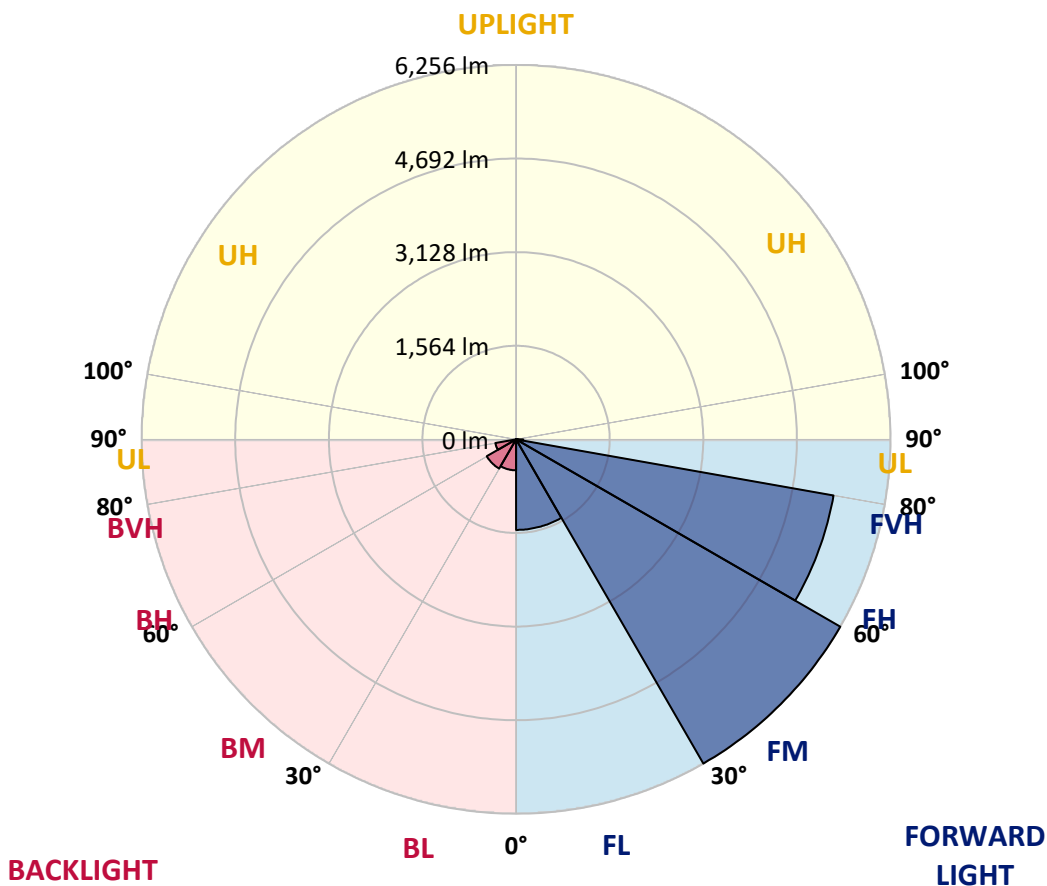
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.3	10.3			
FM (30°-60°)	6256.0	42.5			
FH (60°-80°)	5386.2	36.6			G3/7500
FVH (80°-90°)	117.8	0.8			G2/225
BL (0°-30°)	517.2	3.5	B2/1000		
BM (30°-60°)	563.9	3.8	B1/1000		
BH (60°-80°)	350.8	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°	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2
2.5°	4463.2	4471.0	4481.4	4494.5	4491.8	4480.1	4465.8	4433.3	4412.4	4347.3	4267.9
5°	4320.0	4318.7	4344.7	4369.5	4413.7	4437.2	4469.7	4439.8	4429.4	4351.2	4222.3
7.5°	4040.1	4054.4	4084.3	4123.4	4187.2	4256.2	4334.3	4325.2	4356.4	4304.4	4144.2
10°	3765.3	3757.5	3804.4	3863.0	3960.6	4049.2	4162.4	4161.1	4243.2	4238.0	4055.7
12.5°	3524.5	3523.2	3559.6	3626.0	3740.6	3864.3	4017.9	4021.8	4123.4	4165.1	3980.2
15°	3321.4	3324.0	3359.1	3428.1	3546.6	3697.6	3876.0	3908.6	4023.1	4107.8	3906.0
17.5°	3176.8	3178.1	3199.0	3258.9	3374.7	3536.2	3751.0	3795.3	3942.4	4064.8	3846.1
20°	3110.4	3105.2	3109.1	3139.1	3228.9	3376.0	3623.4	3680.7	3868.2	4034.9	3791.4
22.5°	3119.6	3111.7	3093.5	3089.6	3130.0	3241.9	3488.0	3558.3	3787.5	4016.6	3741.9
25°	3200.3	3183.4	3157.3	3118.3	3102.6	3158.6	3369.5	3442.4	3712.0	4017.9	3704.1
27.5°	3324.0	3305.7	3273.2	3221.1	3159.9	3136.5	3288.8	3357.8	3658.6	4047.9	3685.9
30°	3481.5	3467.2	3435.9	3373.4	3291.4	3195.1	3271.9	3329.2	3632.5	4109.1	3693.7
32.5°	3667.7	3657.3	3631.2	3573.9	3480.2	3333.1	3329.2	3373.4	3653.4	4197.6	3723.7
35°	3847.4	3851.3	3852.6	3821.3	3721.1	3542.7	3486.7	3502.3	3739.3	4330.4	3791.4
37.5°	4041.4	4032.2	4079.1	4101.3	4004.9	3814.8	3730.2	3731.5	3903.4	4527.0	3919.0
40°	4188.5	4191.1	4292.6	4383.8	4343.4	4159.8	4038.8	4037.5	4155.9	4796.5	4124.7
42.5°	4326.5	4343.4	4493.2	4649.4	4705.4	4542.6	4455.4	4422.8	4510.1	5161.1	4433.3
45°	4473.6	4498.4	4708.0	4930.6	5077.7	4981.4	4912.4	4925.4	4935.8	5585.5	4848.6
47.5°	4645.5	4661.1	4920.2	5234.0	5508.7	5484.0	5487.9	5472.2	5467.0	6120.6	5398.0
50°	4853.8	4890.3	5188.4	5563.4	5938.4	6102.4	6157.1	6163.6	6079.0	6703.9	5967.0
52.5°	5296.5	5340.7	5595.9	5924.0	6407.1	6752.1	6974.7	6930.5	6800.3	7269.0	6590.6
55°	5818.6	5852.4	6098.5	6438.3	6979.9	7464.3	7992.9	7974.7	7655.7	7864.0	7103.6
57.5°	5868.0	5905.8	6287.3	6808.1	7715.6	8344.4	8900.4	8959.0	8491.5	8285.8	7561.9
60°	5312.1	5388.9	5909.7	6610.2	7996.8	9527.9	9895.1	9906.8	9104.8	8714.2	8121.8
62.5°	4257.5	4293.9	4818.6	5732.6	7563.2	10218.0	11414.5	11167.1	9892.5	9376.9	9008.4
65°	2231.6	2380.0	2837.0	3848.7	6133.7	9977.1	13242.5	13174.8	11309.0	10326.0	9698.5
67.5°	1531.1	1529.8	1637.9	2006.4	3657.3	8590.5	14139.6	14884.3	12946.9	10651.5	9198.5
70°	1165.3	1169.2	1265.5	1505.1	1894.4	5718.3	13155.3	14428.6	13251.6	9671.1	7439.5
72.5°	773.4	781.2	941.3	1216.1	1512.9	2803.2	10223.2	11544.7	11150.2	7767.6	5236.6
75°	462.2	468.7	583.3	884.0	1345.0	1568.9	6495.6	7981.2	7675.2	5353.8	2807.1
77.5°	190.1	195.3	299.5	550.7	984.3	1218.7	3592.2	5222.3	4597.3	2128.7	766.9
80°	79.4	82.0	144.5	385.4	709.6	764.3	1663.9	2454.2	1884.0	458.3	234.4
82.5°	28.6	29.9	53.4	212.2	441.4	575.5	839.8	970.0	531.2	149.7	126.3
85°	1.3	1.3	13.0	71.6	168.0	162.7	480.4	464.8	175.8	62.5	75.5
87.5°	0.0	0.0	1.3	1.3	2.6	6.5	45.6	80.7	37.8	15.6	32.5
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°	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2	4243.2
2.5°	4215.8	4146.8	4071.3	4001.0	3889.0	3822.6	3740.6	3704.1	3652.1	3639.0	3646.9
5°	4129.9	4011.4	3830.4	3666.4	3454.2	3283.6	3111.7	3038.8	2945.1	2882.6	2856.6
7.5°	4008.8	3853.9	3571.3	3273.2	2981.5	2670.4	2433.4	2277.2	2135.3	2057.1	2041.5
10°	3886.4	3684.6	3279.7	2852.6	2400.9	2028.5	1708.2	1471.2	1278.5	1191.3	1123.6
12.5°	3760.1	3508.9	2982.8	2425.6	1900.9	1393.1	997.3	766.9	628.9	574.2	583.3
15°	3644.3	3339.6	2688.6	1998.5	1338.4	841.1	550.7	464.8	432.3	421.8	420.5
17.5°	3533.6	3179.4	2395.7	1583.2	882.7	515.6	421.8	401.0	391.9	386.7	386.7
20°	3433.3	3025.8	2109.2	1192.6	570.3	408.8	381.5	371.1	363.3	359.3	359.3
22.5°	3339.6	2877.4	1829.3	843.7	420.5	367.2	350.2	339.8	330.7	325.5	325.5
25°	3255.0	2743.3	1562.4	580.7	362.0	335.9	317.7	306.0	290.3	281.2	281.2
27.5°	3193.8	2623.5	1305.9	423.1	326.8	302.1	281.2	265.6	248.7	238.3	235.7
30°	3157.3	2521.9	1046.8	347.6	294.2	269.5	246.1	226.5	207.0	196.6	195.3
32.5°	3136.5	2428.2	809.8	303.4	266.9	238.3	212.2	191.4	171.9	160.1	158.8
35°	3144.3	2355.3	606.7	273.4	240.9	210.9	182.3	161.4	144.5	134.1	131.5
37.5°	3212.0	2322.7	455.7	250.0	218.7	187.5	157.5	138.0	122.4	114.6	113.3
40°	3343.5	2329.3	358.0	231.8	200.5	164.1	135.4	117.2	105.5	99.0	97.6
42.5°	3547.9	2383.9	295.6	216.1	181.0	143.2	117.2	102.9	91.1	84.6	83.3
45°	3852.6	2497.2	257.8	197.9	160.1	123.7	101.6	88.5	78.1	70.3	69.0
47.5°	4293.9	2693.8	233.1	181.0	141.9	106.8	87.2	74.2	65.1	58.6	57.3
50°	4764.0	2929.5	212.2	164.1	126.3	92.4	74.2	61.2	53.4	46.9	45.6
52.5°	5265.2	3183.4	196.6	148.4	112.0	79.4	62.5	50.8	43.0	36.5	35.2
55°	5747.0	3438.5	178.4	138.0	95.0	67.7	52.1	41.7	33.9	28.6	28.6
57.5°	6215.7	3672.9	158.8	121.1	78.1	57.3	43.0	33.9	27.3	23.4	22.1
60°	6775.5	3997.1	136.7	102.9	65.1	48.2	35.2	27.3	22.1	18.2	18.2
62.5°	7607.5	4334.3	117.2	85.9	54.7	40.4	28.6	22.1	18.2	15.6	14.3
65°	7879.6	4152.0	99.0	70.3	44.3	32.5	23.4	19.5	15.6	14.3	13.0
67.5°	7153.1	3403.4	82.0	57.3	36.5	27.3	20.8	16.9	14.3	13.0	11.7
70°	5581.6	2415.2	63.8	43.0	29.9	22.1	18.2	15.6	13.0	11.7	11.7
72.5°	3796.6	1428.3	50.8	32.5	24.7	19.5	15.6	14.3	13.0	11.7	10.4
75°	1869.7	507.8	39.1	24.7	19.5	16.9	14.3	13.0	11.7	10.4	10.4
77.5°	503.9	140.6	29.9	19.5	15.6	13.0	13.0	13.0	11.7	9.1	9.1
80°	170.6	58.6	22.1	14.3	13.0	10.4	9.1	11.7	10.4	9.1	7.8
82.5°	93.7	28.6	15.6	11.7	9.1	7.8	7.8	7.8	7.8	6.5	6.5
85°	59.9	15.6	10.4	9.1	9.1	6.5	5.2	5.2	3.9	3.9	3.9
87.5°	27.3	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)