

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: P638820

Luminaire Tested: GWS-SA4F-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26070.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

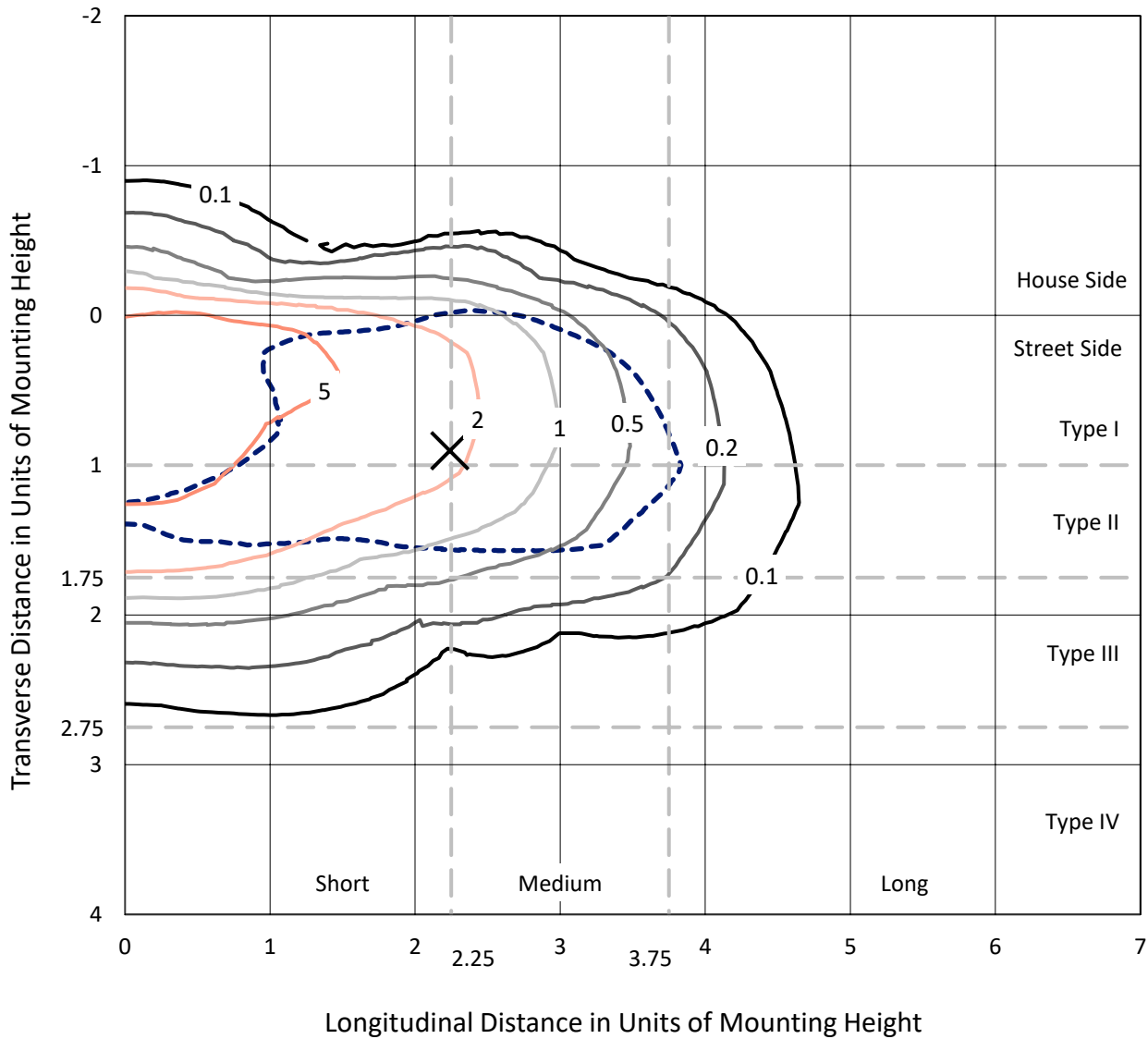
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

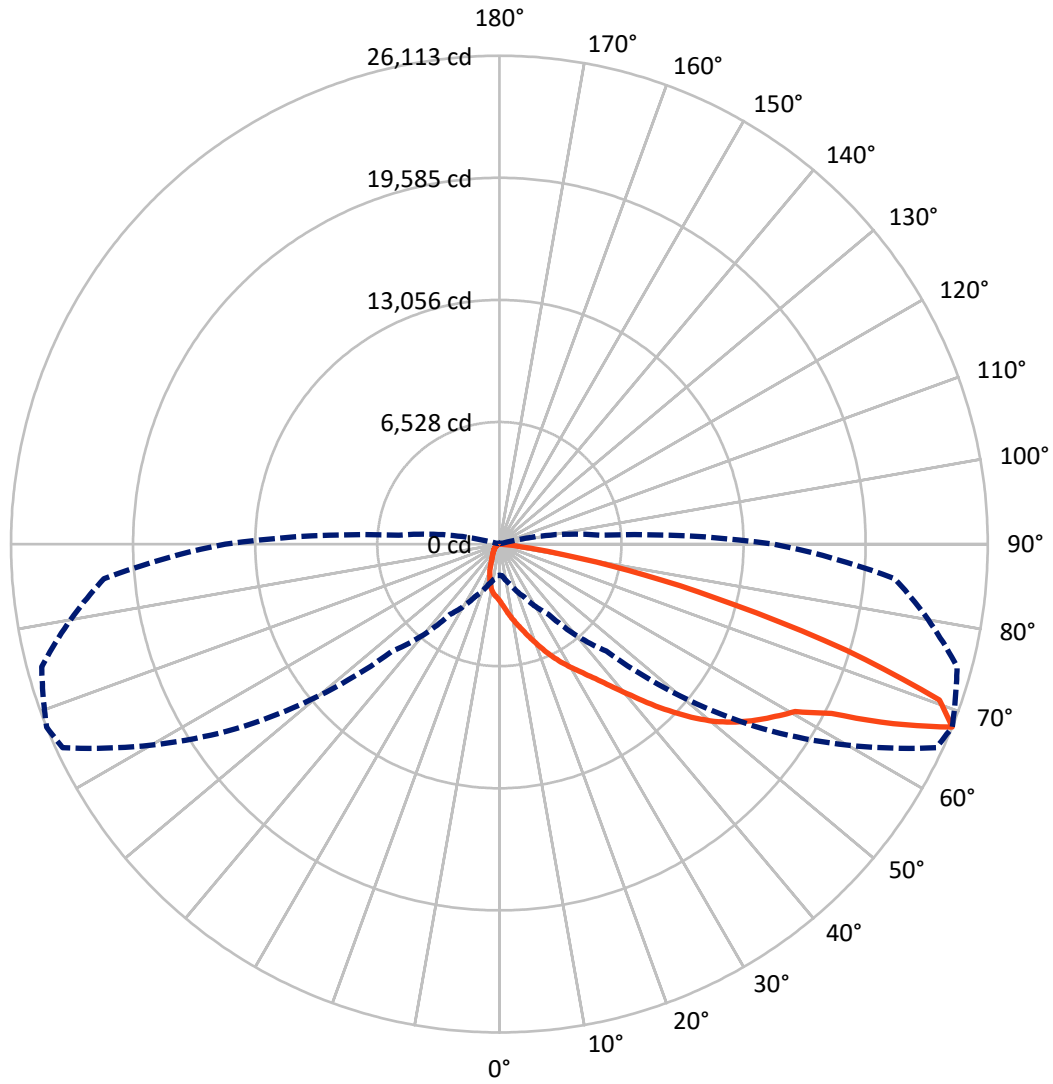
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1882.6	0.0	1882.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24187.8	0.0	24187.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	26070.4	0.0	26070.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	1.1
10°-20°	849.7	3.3
20°-30°	1460.3	5.6
30°-40°	2538.9	9.7
40°-50°	4430.1	17.0
50°-60°	6681.7	25.6
60°-70°	6700.0	25.7
70°-80°	2956.0	11.3
80°-90°	157.9	0.6
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°	26070.4	100.0
0°-180°	26070.4	100.0

Coefficient of Utilization



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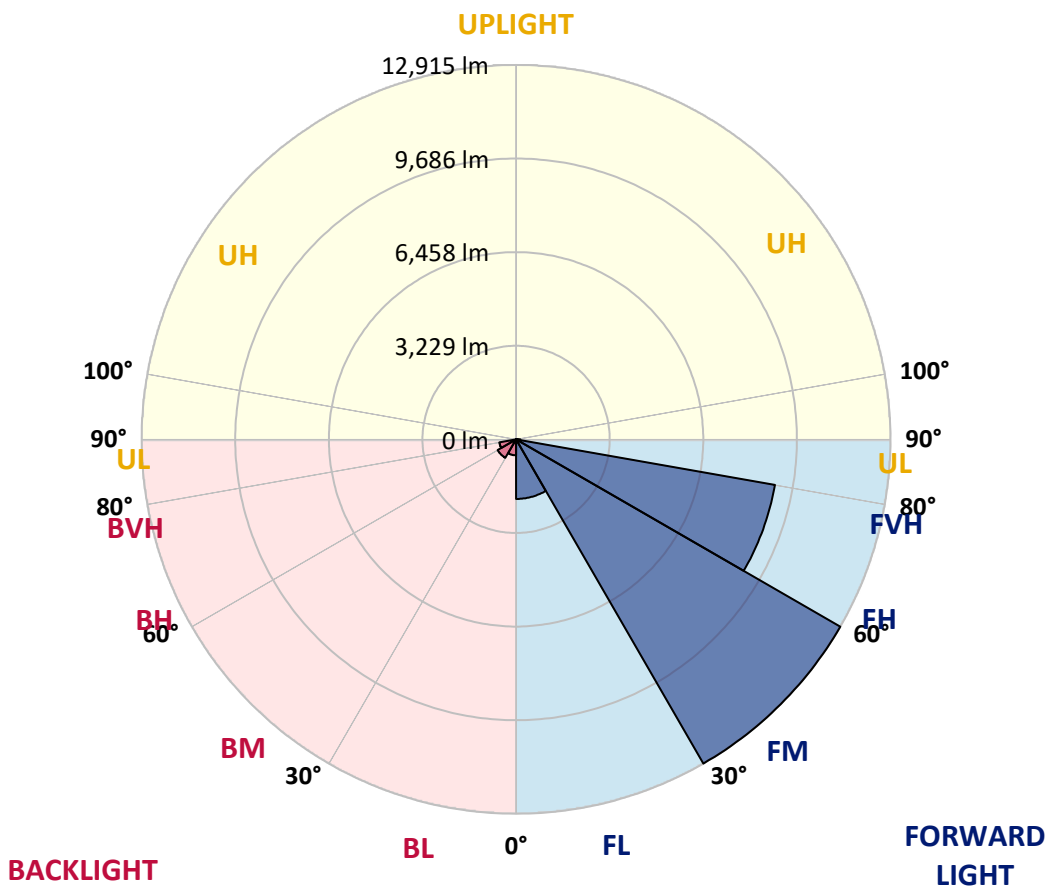
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.1	7.9			
FM (30°-60°)	12915.2	49.5			
FH (60°-80°)	9068.5	34.8			G4/12000
FVH (80°-90°)	149.0	0.6			G2/225
BL (0°-30°)	550.8	2.1	B2/1000		
BM (30°-60°)	735.4	2.8	B1/1000		
BH (60°-80°)	587.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9
2.5°	3532.9	3555.4	3532.9	3537.9	3473.1	3443.1	3378.2	3288.4	3266.0	3208.6	3121.3
5°	3964.6	3984.5	3962.1	3957.1	3882.2	3827.3	3720.1	3565.4	3520.5	3408.2	3236.0
7.5°	4199.1	4211.6	4219.1	4231.5	4204.1	4159.2	4061.9	3869.8	3822.4	3640.2	3398.2
10°	4224.1	4234.0	4271.5	4346.3	4401.2	4428.6	4373.8	4196.6	4121.8	3944.6	3597.8
12.5°	4154.2	4169.2	4229.0	4353.8	4506.0	4645.7	4680.6	4525.9	4458.6	4231.5	3832.3
15°	4061.9	4074.4	4156.7	4326.3	4555.9	4812.9	4957.6	4890.2	4815.4	4578.3	4091.8
17.5°	3919.7	3937.1	4051.9	4281.4	4578.3	4945.1	5257.0	5279.4	5227.0	4970.1	4378.7
20°	3839.8	3852.3	3954.6	4191.6	4563.4	5042.4	5536.4	5748.5	5691.1	5421.7	4708.1
22.5°	3907.2	3917.2	3984.5	4169.2	4513.5	5097.3	5795.9	6217.6	6185.1	5905.7	5054.9
25°	4261.5	4293.9	4254.0	4286.4	4535.9	5127.2	6005.5	6686.6	6694.1	6412.2	5414.2
27.5°	4980.0	4937.6	4842.8	4680.6	4710.6	5207.1	6185.1	7128.2	7193.1	6906.2	5733.5
30°	5711.1	5686.1	5628.7	5376.7	5167.2	5384.2	6337.3	7579.8	7682.1	7392.7	6018.0
32.5°	6531.9	6556.9	6454.6	6152.7	5795.9	5743.5	6494.5	8009.0	8201.1	7944.1	6352.3
35°	7512.5	7520.0	7317.9	6983.5	6579.3	6337.3	6776.4	8483.0	8837.3	8647.7	6798.9
37.5°	8468.1	8513.0	8403.2	7876.7	7517.5	7075.8	7243.0	9091.8	9590.8	9516.0	7360.3
40°	9313.9	9383.7	9348.8	8839.8	8368.3	7996.5	7966.6	9805.4	10501.5	10586.3	8101.3
42.5°	9987.5	10032.4	10059.9	9698.1	9281.4	9071.9	8859.8	10633.7	11576.8	11923.7	9009.5
45°	10698.6	10713.6	10771.0	10526.4	10162.2	10179.6	9915.2	11639.2	12709.6	13405.7	10052.4
47.5°	11604.3	11654.2	11626.7	11369.8	11040.4	11237.5	11005.5	12674.6	13827.3	14987.5	11120.3
50°	12707.1	12759.5	12734.5	12435.1	12068.4	12150.7	12006.0	13680.1	14905.2	16479.5	12008.5
52.5°	13275.9	13318.4	13627.7	13762.5	13570.4	13046.4	12859.3	14785.4	15815.9	17707.1	12824.3
55°	13001.5	13031.4	13705.1	14273.9	14977.5	14453.6	13717.6	15638.7	16619.3	18665.2	13430.6
57.5°	11863.8	12025.9	12941.6	13904.7	15384.2	15843.3	15109.8	16566.9	17392.7	19331.3	14026.9
60°	9530.9	9523.5	10835.8	12564.9	14590.8	16225.0	17075.8	17821.9	18168.7	19842.8	14825.3
62.5°	5267.0	5314.4	7060.9	9338.8	12385.2	15237.0	18550.4	19990.0	19937.6	20736.0	16075.3
65°	2622.3	2717.1	3665.2	5349.3	8241.0	12592.3	18804.9	23298.4	23148.7	22839.3	18657.7
67.5°	1664.2	1701.6	2225.5	3108.8	4580.8	8093.8	17220.6	25766.0	26112.8	25334.3	21220.1
70°	1077.8	1140.2	1546.9	2125.7	2764.5	4171.7	12614.8	24166.7	24962.6	25059.9	19623.3
72.5°	586.3	631.2	988.0	1517.0	1996.0	2085.8	7085.8	18136.2	19416.2	21257.5	15351.8
75°	334.3	366.8	541.4	1030.4	1464.6	1270.0	3141.2	12140.7	12956.6	15192.1	11000.5
77.5°	202.1	229.5	304.4	501.5	918.2	848.3	1187.6	7390.2	7909.2	9064.4	5773.5
80°	92.3	109.8	192.1	276.9	501.5	401.7	454.1	3445.6	3557.9	3720.1	1911.2
82.5°	42.4	49.9	87.3	164.7	284.4	232.0	174.7	795.9	1120.3	1060.4	486.5
85°	5.0	5.0	32.4	67.4	79.8	59.9	72.4	179.6	227.0	319.4	139.7
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	15.0	22.5	32.4	52.4	34.9
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°	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9	3033.9
2.5°	3081.3	3011.5	2949.1	2856.8	2794.4	2724.6	2677.1	2619.8	2597.3	2579.8	2554.9
5°	3151.2	3038.9	2886.7	2717.1	2577.3	2445.1	2322.9	2243.0	2173.2	2163.2	2128.2
7.5°	3266.0	3098.8	2841.8	2564.9	2327.8	2108.3	1936.1	1796.4	1726.5	1704.1	1664.2
10°	3418.2	3188.6	2774.5	2350.3	2008.5	1746.5	1551.9	1394.7	1284.9	1245.0	1215.1
12.5°	3587.8	3271.0	2667.2	2085.8	1696.6	1397.2	1150.2	983.0	913.2	888.2	865.8
15°	3782.4	3348.3	2497.5	1821.4	1392.2	1027.9	853.3	780.9	751.0	743.5	736.0
17.5°	3969.6	3398.2	2295.4	1546.9	1070.4	798.4	716.1	688.6	681.1	673.7	668.7
20°	4181.6	3433.1	2058.4	1287.4	830.8	676.1	636.2	616.3	601.3	586.3	583.8
22.5°	4398.7	3433.1	1801.4	1032.9	696.1	606.3	561.4	524.0	496.5	481.5	476.5
25°	4605.8	3385.7	1546.9	825.8	613.8	538.9	481.5	439.1	401.7	384.2	379.2
27.5°	4753.0	3263.5	1324.9	698.6	556.4	479.0	409.2	361.8	331.8	314.4	311.9
30°	4845.3	3081.3	1120.3	623.8	506.5	416.7	346.8	306.9	284.4	272.0	267.0
32.5°	4915.2	2856.8	938.1	571.4	459.1	361.8	301.9	269.5	249.5	239.5	237.0
35°	5054.9	2644.7	803.4	524.0	409.2	316.9	264.5	239.5	224.6	212.1	209.6
37.5°	5249.5	2467.6	696.1	481.5	361.8	281.9	239.5	217.1	204.6	192.1	189.6
40°	5536.4	2355.3	616.3	439.1	319.4	254.5	219.6	199.6	182.1	169.7	167.2
42.5°	5978.0	2302.9	563.9	396.7	281.9	229.5	202.1	177.1	159.7	147.2	144.7
45°	6504.5	2330.3	519.0	354.3	257.0	212.1	179.6	154.7	137.2	124.8	122.3
47.5°	7068.4	2427.6	481.5	314.4	232.0	194.6	159.7	132.2	117.3	104.8	102.3
50°	7657.2	2587.3	449.1	276.9	212.1	174.7	137.2	114.8	99.8	89.8	87.3
52.5°	8168.7	2804.4	416.7	249.5	194.6	154.7	119.8	99.8	84.8	74.9	72.4
55°	8657.7	3009.0	391.7	224.6	174.7	134.7	104.8	84.8	72.4	62.4	59.9
57.5°	9189.1	3226.0	361.8	202.1	157.2	119.8	92.3	72.4	62.4	52.4	49.9
60°	9962.6	3547.9	316.9	184.6	137.2	104.8	79.8	64.9	54.9	42.4	39.9
62.5°	11077.8	4134.2	267.0	159.7	117.3	89.8	67.4	54.9	44.9	34.9	29.9
65°	13163.7	5132.2	219.6	132.2	94.8	74.9	57.4	44.9	34.9	25.0	22.5
67.5°	14665.7	5391.7	177.1	107.3	77.3	57.4	47.4	34.9	25.0	17.5	15.0
70°	12821.9	3872.3	137.2	87.3	64.9	44.9	37.4	27.4	17.5	12.5	10.0
72.5°	9660.7	2529.9	102.3	67.4	49.9	37.4	27.4	22.5	15.0	10.0	7.5
75°	6808.9	1462.1	74.9	49.9	34.9	27.4	22.5	17.5	12.5	7.5	7.5
77.5°	3490.5	603.8	52.4	34.9	25.0	17.5	15.0	10.0	10.0	7.5	5.0
80°	1060.4	199.6	29.9	22.5	17.5	12.5	7.5	7.5	7.5	5.0	2.5
82.5°	242.0	64.9	17.5	17.5	12.5	10.0	7.5	2.5	2.5	0.0	0.0
85°	62.4	20.0	15.0	12.5	12.5	10.0	5.0	2.5	0.0	0.0	0.0
87.5°	22.5	12.5	12.5	12.5	10.0	7.5	5.0	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)