

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: P639852

Luminaire Tested: GWS-SA5C-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639852
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18929.1 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

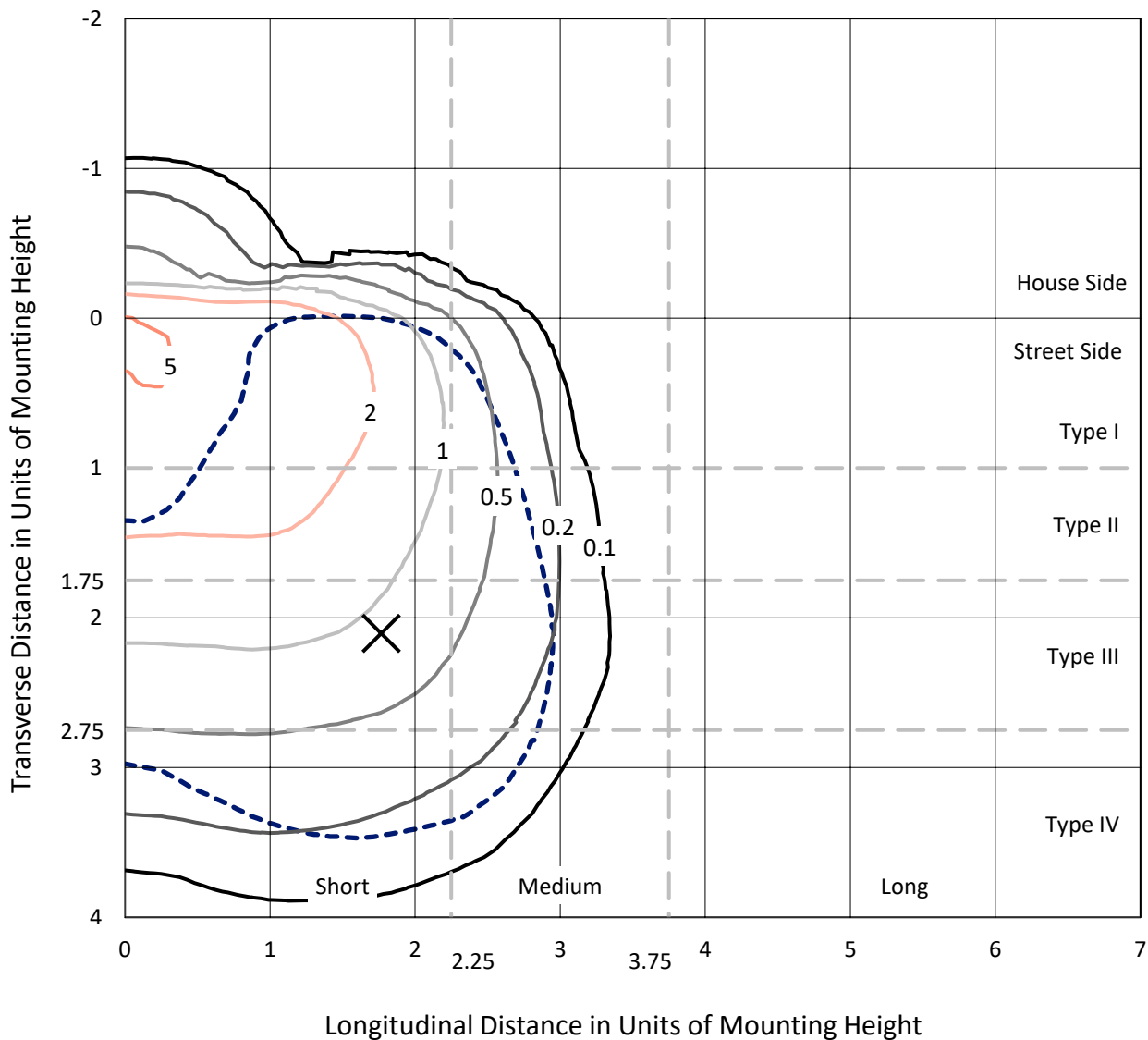
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

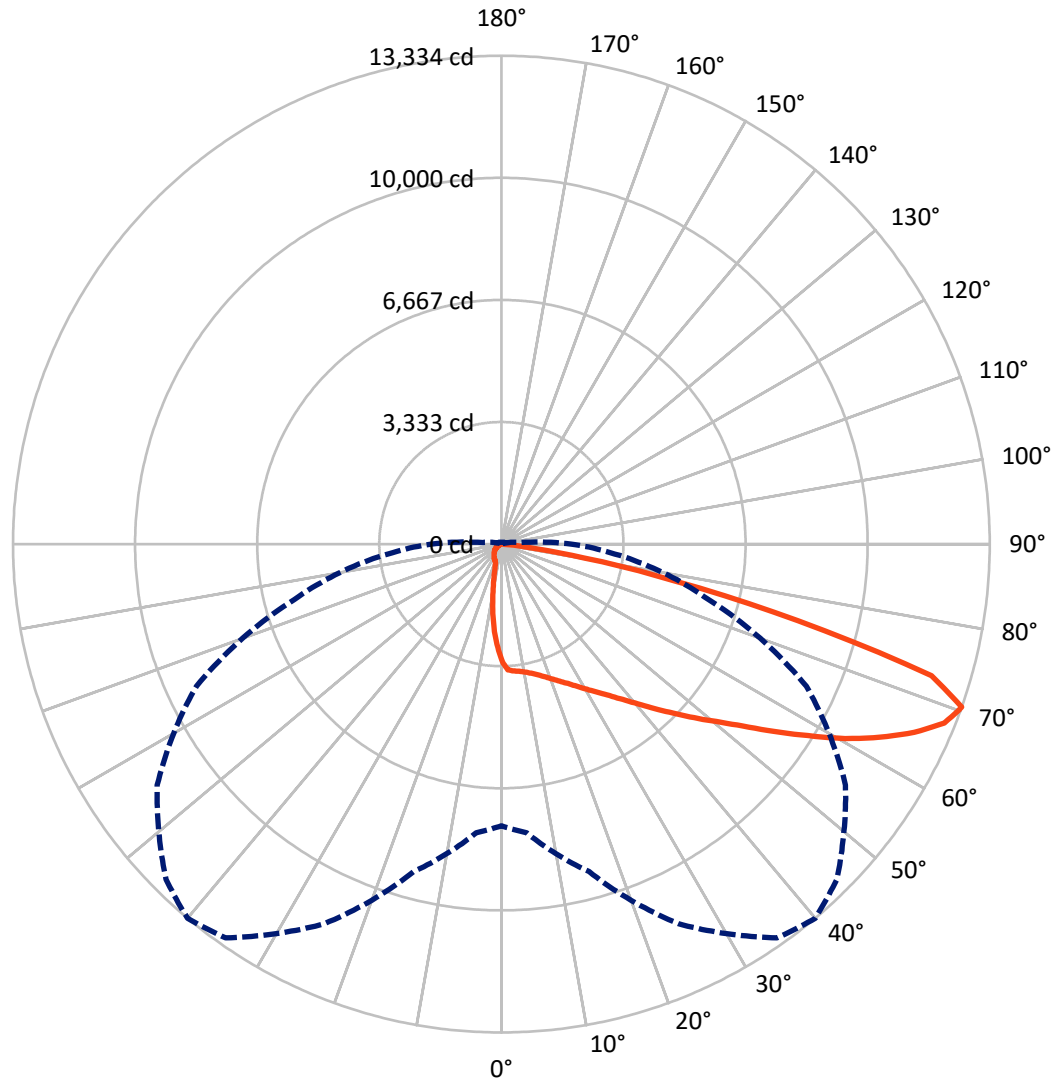
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1547.9	0.0	1547.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17381.2	0.0	17381.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	18929.1	0.0	18929.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.4
10°-20°	688.5	3.6
20°-30°	1152.4	6.1
30°-40°	1810.0	9.6
40°-50°	2862.9	15.1
50°-60°	4176.3	22.1
60°-70°	5177.1	27.4
70°-80°	2619.3	13.8
80°-90°	171.0	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°	18929.1	100.0
0°-180°	18929.1	100.0

Coefficient of Utilization



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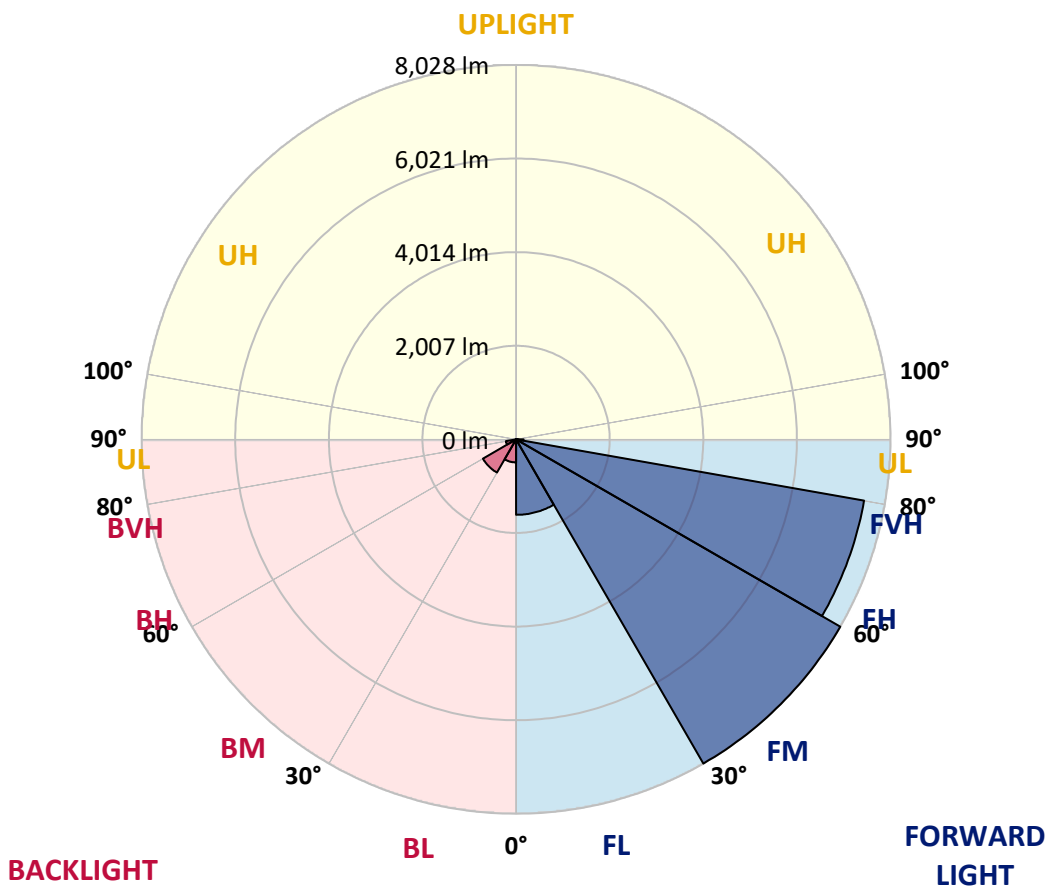
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.1	8.5			
FM (30°-60°)	8027.6	42.4			
FH (60°-80°)	7575.8	40.0			G4/12000
FVH (80°-90°)	159.7	0.8			G2/225
BL (0°-30°)	494.3	2.6	B1/500		
BM (30°-60°)	821.6	4.3	B1/1000		
BH (60°-80°)	220.7	1.2	B1/500		G1/500
BVH (80°-90°)	11.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0
2.5°	3453.2	3465.2	3463.5	3468.7	3456.6	3437.7	3434.2	3408.4	3361.9	3303.3	3237.9
5°	3523.8	3537.6	3527.2	3522.1	3499.7	3479.0	3473.8	3446.3	3392.9	3313.7	3200.0
7.5°	3584.1	3587.5	3580.6	3568.6	3535.8	3508.3	3489.3	3451.4	3387.7	3308.5	3177.6
10°	3594.4	3592.7	3596.1	3597.8	3577.2	3553.1	3537.6	3485.9	3404.9	3320.5	3179.3
12.5°	3582.3	3582.3	3604.7	3630.6	3630.6	3618.5	3603.0	3556.5	3461.8	3361.9	3213.8
15°	3597.8	3603.0	3646.1	3694.3	3709.8	3697.7	3690.8	3642.6	3544.4	3434.2	3275.8
17.5°	3652.9	3658.1	3727.0	3799.3	3818.3	3804.5	3790.7	3742.5	3637.4	3516.9	3346.4
20°	3733.9	3747.7	3835.5	3928.5	3945.7	3928.5	3901.0	3833.8	3728.7	3606.4	3413.5
22.5°	3882.0	3890.6	3985.3	4083.5	4092.1	4064.6	4023.2	3930.2	3820.0	3701.2	3489.3
25°	4078.3	4090.4	4185.1	4279.9	4257.5	4216.1	4159.3	4054.2	3928.5	3813.1	3585.8
27.5°	4312.6	4326.4	4419.4	4502.0	4443.5	4395.2	4331.5	4200.6	4073.2	3968.1	3709.8
30°	4565.7	4577.8	4660.5	4734.5	4657.0	4600.2	4524.4	4390.1	4260.9	4181.7	3885.5
32.5°	4810.3	4808.6	4887.8	4948.1	4868.9	4824.1	4755.2	4619.1	4515.8	4481.4	4147.2
35°	5037.7	5037.7	5103.1	5163.4	5106.5	5082.4	5018.7	4910.2	4851.6	4893.0	4496.9
37.5°	5266.7	5254.7	5316.7	5383.8	5378.7	5380.4	5344.2	5292.5	5296.0	5442.4	4977.4
40°	5456.2	5451.0	5523.3	5611.2	5680.1	5735.2	5712.8	5731.7	5840.2	6114.1	5592.2
42.5°	5607.7	5619.8	5712.8	5852.3	6026.2	6138.2	6153.7	6231.2	6510.2	6933.9	6286.3
45°	5781.7	5783.4	5912.6	6126.1	6403.4	6580.8	6642.8	6842.6	7238.7	7784.7	7047.5
47.5°	5995.2	5974.6	6119.2	6418.9	6820.2	7082.0	7192.2	7441.9	8055.1	8614.8	7667.6
50°	6231.2	6193.3	6356.9	6765.1	7286.9	7614.2	7838.1	8203.2	8864.5	9296.8	8129.1
52.5°	6505.0	6468.9	6654.9	7162.9	7846.7	8244.5	8532.1	8900.7	9558.6	9817.0	8404.7
55°	6852.9	6816.8	7013.1	7640.0	8508.0	9024.7	9326.1	9636.1	10204.5	10201.0	8604.5
57.5°	7238.7	7188.8	7460.9	8242.8	9333.0	9870.4	10176.9	10328.5	10695.3	10499.0	8738.8
60°	7681.3	7636.6	8013.7	8961.0	10285.4	10783.2	10976.1	10914.1	11098.3	10674.7	8692.3
62.5°	8080.9	8060.2	8528.7	9722.2	11193.1	11613.3	11666.7	11396.3	11394.6	10678.1	8378.9
65°	8496.0	8535.6	9231.4	10598.9	12105.9	12388.3	12297.0	11875.1	11513.4	10256.1	7452.3
67.5°	8651.0	8766.4	9694.7	11391.1	12825.8	13046.2	12886.1	12114.5	11019.1	8837.0	5674.9
70°	7693.4	7910.4	9257.2	11435.9	13123.7	13333.8	12949.8	11470.3	9186.6	5854.0	3108.7
72.5°	5850.6	6103.7	7714.1	9364.0	11802.7	12281.5	11625.4	9345.1	5921.2	2564.5	1043.7
75°	3274.0	3547.9	5745.5	7051.0	7924.2	8361.6	8120.5	5995.2	2623.0	670.0	311.7
77.5°	1107.4	1198.7	2673.0	4362.5	5230.5	4837.9	4095.6	2977.8	964.5	254.9	165.3
80°	656.2	690.6	995.5	2171.8	2752.2	2282.0	1801.5	1100.5	490.8	136.1	115.4
82.5°	196.3	232.5	549.4	806.0	1078.1	671.7	568.4	628.6	254.9	74.1	96.4
85°	0.0	0.0	117.1	249.7	282.5	110.2	110.2	356.5	46.5	31.0	70.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.6	5.2	6.9	15.5
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°	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0
2.5°	3191.4	3131.1	3060.5	2993.3	2929.6	2846.9	2807.3	2759.1	2717.7	2695.4	2707.4
5°	3127.6	3032.9	2888.3	2741.9	2593.7	2454.2	2328.5	2244.1	2168.3	2128.7	2137.3
7.5°	3072.5	2945.1	2719.5	2480.1	2242.4	2003.0	1808.4	1656.8	1539.7	1491.5	1482.9
10°	3048.4	2888.3	2569.6	2225.2	1860.1	1538.0	1262.4	1095.4	976.5	918.0	928.3
12.5°	3060.5	2859.0	2442.2	1975.4	1501.8	1126.4	862.9	706.1	621.7	587.3	578.7
15°	3094.9	2852.1	2328.5	1720.6	1159.1	787.1	595.9	532.2	515.0	511.5	511.5
17.5°	3134.5	2853.8	2211.4	1462.2	880.1	583.9	509.8	497.7	492.6	489.1	490.8
20°	3174.2	2853.8	2077.1	1200.4	661.4	504.6	485.7	477.1	471.9	470.2	470.2
22.5°	3222.4	2853.8	1927.2	957.6	530.5	478.8	463.3	458.1	453.0	451.2	449.5
25°	3280.9	2855.5	1761.9	749.2	482.2	456.4	444.3	439.2	434.0	430.6	430.6
27.5°	3365.3	2869.3	1579.3	583.9	454.7	435.7	425.4	420.2	415.1	409.9	409.9
30°	3487.6	2903.8	1374.4	482.2	428.8	413.3	403.0	399.6	394.4	389.2	387.5
32.5°	3670.2	2964.0	1162.5	432.3	404.7	389.2	377.2	373.7	368.6	363.4	361.7
35°	3925.1	3074.3	955.9	401.3	373.7	358.2	351.3	349.6	342.7	337.6	337.6
37.5°	4298.8	3253.4	757.8	370.3	347.9	335.8	327.2	323.8	316.9	311.7	310.0
40°	4755.2	3485.9	589.0	346.2	323.8	311.7	303.1	298.0	289.3	282.5	279.0
42.5°	5337.3	3770.1	465.0	320.3	301.4	289.3	282.5	272.1	260.1	249.7	248.0
45°	5943.6	4062.8	384.1	296.2	280.7	270.4	261.8	248.0	230.8	218.7	215.3
47.5°	6408.6	4245.4	335.8	270.4	258.3	249.7	239.4	222.2	201.5	187.7	184.3
50°	6741.0	4273.0	299.7	246.3	239.4	230.8	215.3	194.6	172.2	158.4	155.0
52.5°	6904.6	4149.0	270.4	223.9	218.7	210.1	191.2	168.8	144.7	130.9	127.4
55°	6978.7	3914.7	242.8	205.0	198.1	187.7	167.1	142.9	118.8	106.8	103.3
57.5°	6949.4	3568.6	218.7	186.0	177.4	165.3	142.9	117.1	98.2	86.1	84.4
60°	6732.4	3082.9	194.6	167.1	156.7	142.9	120.6	96.4	79.2	70.6	68.9
62.5°	6263.9	2480.1	170.5	144.7	137.8	124.0	103.3	79.2	65.4	60.3	58.6
65°	5304.6	1753.3	146.4	122.3	118.8	105.1	86.1	65.4	56.8	53.4	51.7
67.5°	3813.1	1066.1	124.0	105.1	101.6	89.6	72.3	56.8	51.7	49.9	49.9
70°	1916.9	504.6	98.2	86.1	86.1	74.1	62.0	51.7	49.9	48.2	48.2
72.5°	651.0	215.3	74.1	67.2	70.6	63.7	53.4	48.2	48.2	48.2	48.2
75°	222.2	113.7	51.7	48.2	51.7	51.7	46.5	46.5	48.2	48.2	48.2
77.5°	144.7	75.8	36.2	32.7	39.6	39.6	39.6	43.1	46.5	46.5	46.5
80°	118.8	41.3	24.1	22.4	29.3	29.3	32.7	39.6	43.1	43.1	43.1
82.5°	101.6	25.8	13.8	15.5	20.7	22.4	27.6	32.7	37.9	39.6	39.6
85°	68.9	13.8	10.3	12.1	13.8	17.2	22.4	27.6	31.0	34.4	34.4
87.5°	18.9	5.2	6.9	8.6	8.6	12.1	17.2	20.7	24.1	25.8	25.8
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)