

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: P641282

Luminaire Tested: GWS-SA5F-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641282
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-SA5F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33639.8 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

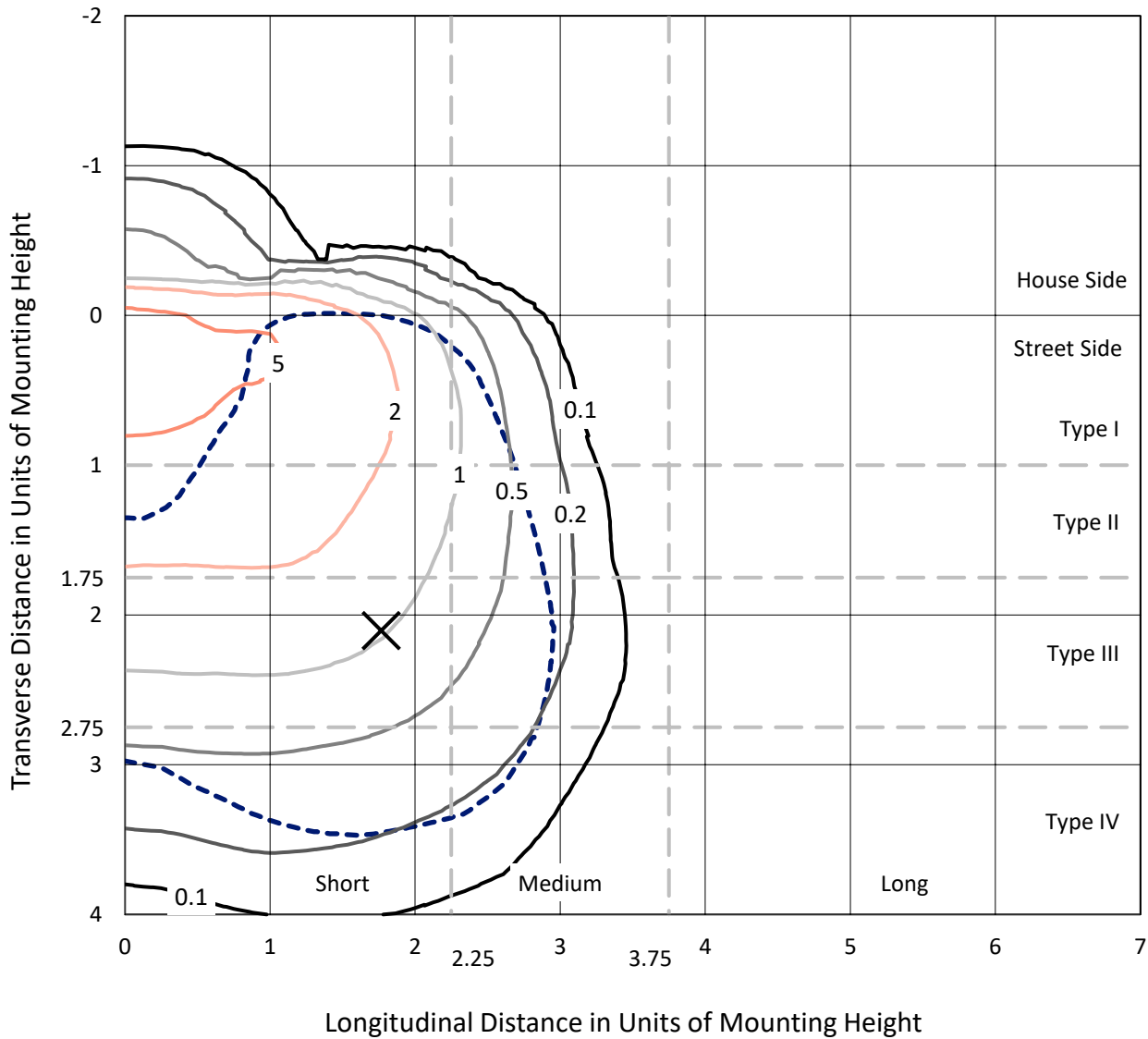
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

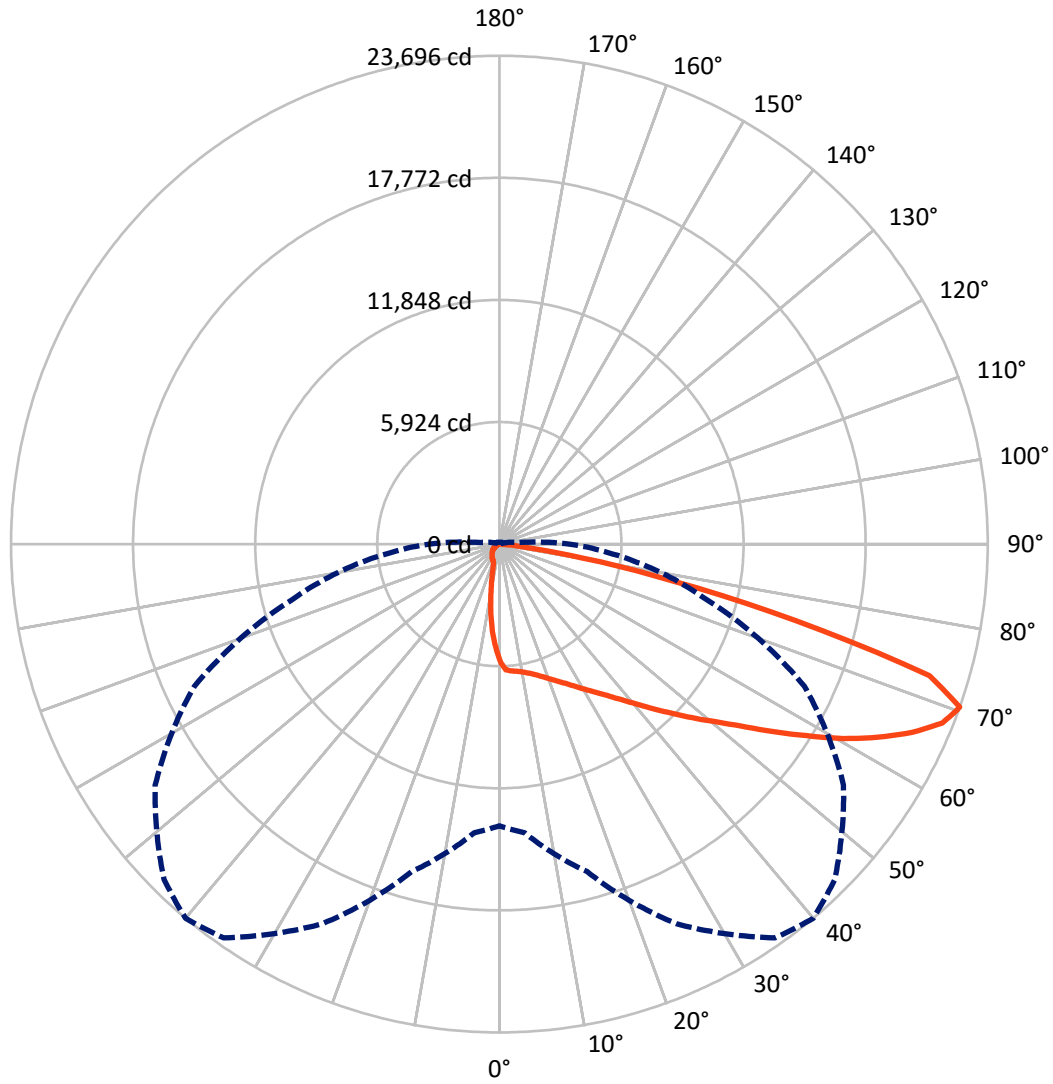
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P641282
CATALOG NUMBER: GWS-SA5F-750-U-SL4-W-HSS

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	2750.9	0.0	2750.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	30888.9	0.0	30888.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	33639.8	0.0	33639.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.5	1.4
10°-20°	1223.6	3.6
20°-30°	2048.0	6.1
30°-40°	3216.6	9.6
40°-50°	5087.9	15.1
50°-60°	7421.9	22.1
60°-70°	9200.5	27.4
70°-80°	4654.9	13.8
80°-90°	303.9	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°	33639.8	100.0
0°-180°	33639.8	100.0

Coefficient of Utilization



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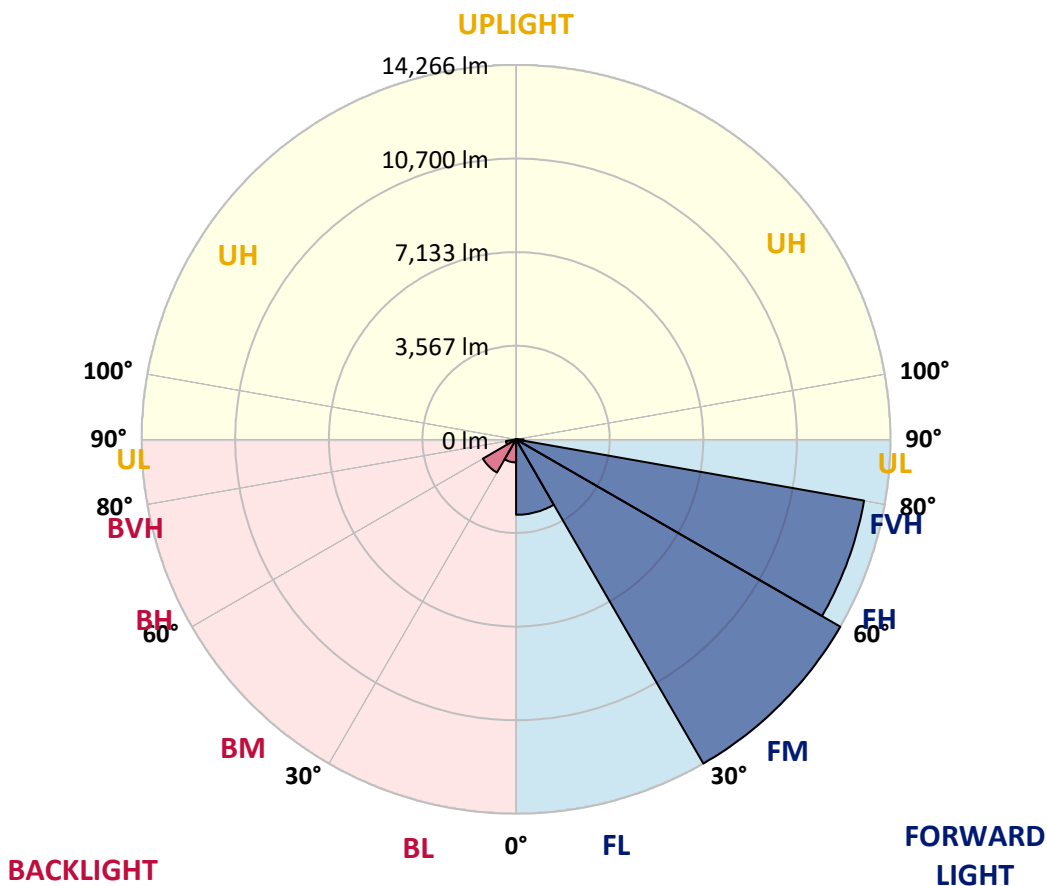
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2875.6	8.5			
FM (30°-60°)	14266.3	42.4			
FH (60°-80°)	13463.2	40.0			G5
FVH (80°-90°)	283.8	0.8			G3/500
BL (0°-30°)	878.5	2.6	B2/1000		
BM (30°-60°)	1460.1	4.3	B2/2500		
BH (60°-80°)	392.2	1.2	B1/500		G1/500
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3
2.5°	6136.8	6158.2	6155.1	6164.3	6142.9	6109.2	6103.1	6057.2	5974.6	5870.5	5754.2
5°	6262.3	6286.7	6268.4	6259.2	6219.4	6182.7	6173.5	6124.5	6029.6	5888.9	5686.8
7.5°	6369.4	6375.5	6363.3	6341.8	6283.7	6234.7	6201.0	6133.7	6020.5	5879.7	5647.1
10°	6387.8	6384.7	6390.8	6393.9	6357.1	6314.3	6286.7	6194.9	6051.1	5901.1	5650.1
12.5°	6366.3	6366.3	6406.1	6452.0	6452.0	6430.6	6403.1	6320.4	6152.1	5974.6	5711.3
15°	6393.9	6403.1	6479.6	6565.3	6592.8	6571.4	6559.2	6473.5	6299.0	6103.1	5821.5
17.5°	6491.8	6501.0	6623.4	6752.0	6785.6	6761.2	6736.7	6651.0	6464.3	6250.0	5947.0
20°	6635.7	6660.2	6816.3	6981.5	7012.1	6981.5	6932.6	6813.2	6626.5	6409.2	6066.4
22.5°	6898.9	6914.2	7082.5	7257.0	7272.3	7223.3	7149.9	6984.6	6788.7	6577.5	6201.0
25°	7247.8	7269.2	7437.6	7605.9	7566.1	7492.7	7391.7	7205.0	6981.5	6776.5	6372.5
27.5°	7664.1	7688.6	7853.8	8000.8	7896.7	7811.0	7697.7	7465.1	7238.6	7051.9	6592.8
30°	8114.0	8135.4	8282.3	8414.0	8276.2	8175.2	8040.6	7801.8	7572.3	7431.5	6905.0
32.5°	8548.6	8545.6	8686.4	8793.5	8652.7	8573.1	8450.7	8208.9	8025.2	7964.0	7370.2
35°	8952.6	8952.6	9069.0	9176.1	9075.1	9032.2	8919.0	8726.2	8622.1	8695.5	7991.6
37.5°	9359.7	9338.3	9448.5	9567.9	9558.7	9561.7	9497.5	9405.6	9411.8	9671.9	8845.5
40°	9696.4	9687.2	9815.8	9971.9	10094.3	10192.2	10152.5	10186.1	10379.0	10865.6	9938.2
42.5°	9965.8	9987.2	10152.5	10400.4	10709.5	10908.5	10936.0	11073.7	11569.6	12322.5	11171.7
45°	10274.9	10277.9	10507.5	10887.0	11379.8	11695.1	11805.3	12160.3	12864.3	13834.5	12524.5
47.5°	10654.4	10617.7	10874.8	11407.4	12120.5	12585.7	12781.6	13225.4	14315.1	15309.8	13626.4
50°	11073.7	11006.4	11297.2	12022.6	12950.0	13531.5	13929.4	14578.3	15753.6	16521.8	14446.7
52.5°	11560.4	11496.1	11826.7	12729.6	13944.7	14651.7	15162.9	15817.9	16987.1	17446.2	14936.4
55°	12178.7	12114.4	12463.3	13577.4	15120.0	16038.3	16573.9	17124.8	18134.9	18128.7	15291.4
57.5°	12864.3	12775.5	13259.1	14648.7	16586.1	17541.1	18085.9	18355.2	19007.2	18658.2	15530.2
60°	13650.9	13571.3	14241.6	15925.0	18278.7	19163.3	19506.1	19395.9	19723.4	18970.4	15447.5
62.5°	14361.0	14324.2	15156.8	17277.8	19891.7	20638.5	20733.4	20252.9	20249.8	18976.6	14890.5
65°	15098.6	15169.0	16405.5	18835.8	21513.9	22015.9	21853.6	21103.8	20461.0	18226.7	13243.8
67.5°	15374.1	15579.1	17228.9	20243.7	22793.3	23185.1	22900.4	21529.2	19582.6	15704.6	10085.1
70°	13672.3	14058.0	16451.5	20323.3	23322.8	23696.2	23013.7	20384.5	16326.0	10403.4	5524.6
72.5°	10397.3	10847.2	13709.0	16641.2	20975.2	21826.1	20660.0	16607.5	10522.8	4557.4	1854.8
75°	5818.5	6305.1	10210.6	12530.6	14082.4	14859.9	14431.4	10654.4	4661.5	1190.6	554.0
77.5°	1968.1	2130.3	4750.3	7752.8	9295.5	8597.6	7278.4	5292.0	1714.0	453.0	293.8
80°	1166.1	1227.4	1769.1	3859.6	4891.1	4055.5	3201.5	1955.8	872.3	241.8	205.1
82.5°	348.9	413.2	976.4	1432.4	1916.0	1193.7	1010.0	1117.2	453.0	131.6	171.4
85°	0.0	0.0	208.1	443.8	502.0	195.9	195.9	633.6	82.6	55.1	125.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	15.3	9.2	12.2	27.5
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°	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3	5708.3
2.5°	5671.5	5564.4	5438.9	5319.6	5206.3	5059.4	4989.0	4903.3	4829.8	4790.1	4811.5
5°	5558.3	5390.0	5132.9	4872.7	4609.5	4361.5	4138.1	3988.1	3853.5	3783.1	3798.4
7.5°	5460.4	5233.9	4832.9	4407.5	3985.1	3559.6	3213.8	2944.4	2736.3	2650.6	2635.3
10°	5417.5	5132.9	4566.6	3954.5	3305.6	2733.2	2243.5	1946.6	1735.4	1631.4	1649.7
12.5°	5438.9	5080.8	4340.1	3510.7	2669.0	2001.7	1533.4	1254.9	1104.9	1043.7	1028.4
15°	5500.1	5068.6	4138.1	3057.7	2059.9	1398.8	1059.0	945.8	915.2	909.0	909.0
17.5°	5570.5	5071.6	3930.0	2598.6	1564.0	1037.6	906.0	884.6	875.4	869.2	872.3
20°	5640.9	5071.6	3691.2	2133.3	1175.3	896.8	863.1	847.8	838.6	835.6	835.6
22.5°	5726.6	5071.6	3425.0	1701.8	942.7	850.9	823.3	814.2	805.0	801.9	798.9
25°	5830.7	5074.7	3131.1	1331.4	857.0	811.1	789.7	780.5	771.3	765.2	765.2
27.5°	5980.7	5099.2	2806.7	1037.6	808.0	774.4	756.0	746.8	737.6	728.5	728.5
30°	6198.0	5160.4	2442.5	857.0	762.1	734.6	716.2	710.1	700.9	691.7	688.7
32.5°	6522.4	5267.5	2066.0	768.2	719.3	691.7	670.3	664.2	655.0	645.8	642.8
35°	6975.4	5463.4	1698.7	713.2	664.2	636.6	624.4	621.3	609.1	599.9	599.9
37.5°	7639.6	5781.7	1346.7	658.1	618.3	596.8	581.5	575.4	563.2	554.0	550.9
40°	8450.7	6194.9	1046.8	615.2	575.4	554.0	538.7	529.5	514.2	502.0	495.8
42.5°	9485.2	6699.9	826.4	569.3	535.6	514.2	502.0	483.6	462.2	443.8	440.7
45°	10562.6	7220.3	682.5	526.4	498.9	480.5	465.2	440.7	410.1	388.7	382.6
47.5°	11389.0	7544.7	596.8	480.5	459.1	443.8	425.4	394.8	358.1	333.6	327.5
50°	11979.7	7593.7	532.6	437.7	425.4	410.1	382.6	345.9	306.1	281.6	275.5
52.5°	12270.5	7373.3	480.5	397.9	388.7	373.4	339.7	300.0	257.1	232.6	226.5
55°	12402.1	6957.1	431.6	364.2	352.0	333.6	296.9	254.0	211.2	189.8	183.6
57.5°	12350.1	6341.8	388.7	330.6	315.3	293.8	254.0	208.1	174.5	153.0	150.0
60°	11964.4	5478.7	345.9	296.9	278.5	254.0	214.3	171.4	140.8	125.5	122.4
62.5°	11131.9	4407.5	303.0	257.1	244.9	220.4	183.6	140.8	116.3	107.1	104.1
65°	9427.1	3115.8	260.2	217.3	211.2	186.7	153.0	116.3	101.0	94.9	91.8
67.5°	6776.5	1894.6	220.4	186.7	180.6	159.2	128.6	101.0	91.8	88.8	88.8
70°	3406.6	896.8	174.5	153.0	153.0	131.6	110.2	91.8	88.8	85.7	85.7
72.5°	1157.0	382.6	131.6	119.4	125.5	113.2	94.9	85.7	85.7	85.7	85.7
75°	394.8	202.0	91.8	85.7	91.8	91.8	82.6	82.6	85.7	85.7	85.7
77.5°	257.1	134.7	64.3	58.2	70.4	70.4	70.4	76.5	82.6	82.6	82.6
80°	211.2	73.5	42.9	39.8	52.0	52.0	58.2	70.4	76.5	76.5	76.5
82.5°	180.6	45.9	24.5	27.5	36.7	39.8	49.0	58.2	67.3	70.4	70.4
85°	122.4	24.5	18.4	21.4	24.5	30.6	39.8	49.0	55.1	61.2	61.2
87.5°	33.7	9.2	12.2	15.3	15.3	21.4	30.6	36.7	42.9	45.9	45.9
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)