

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: P643330

Luminaire Tested: GWS-SA6E-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643330
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-SAGE-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33829.6 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

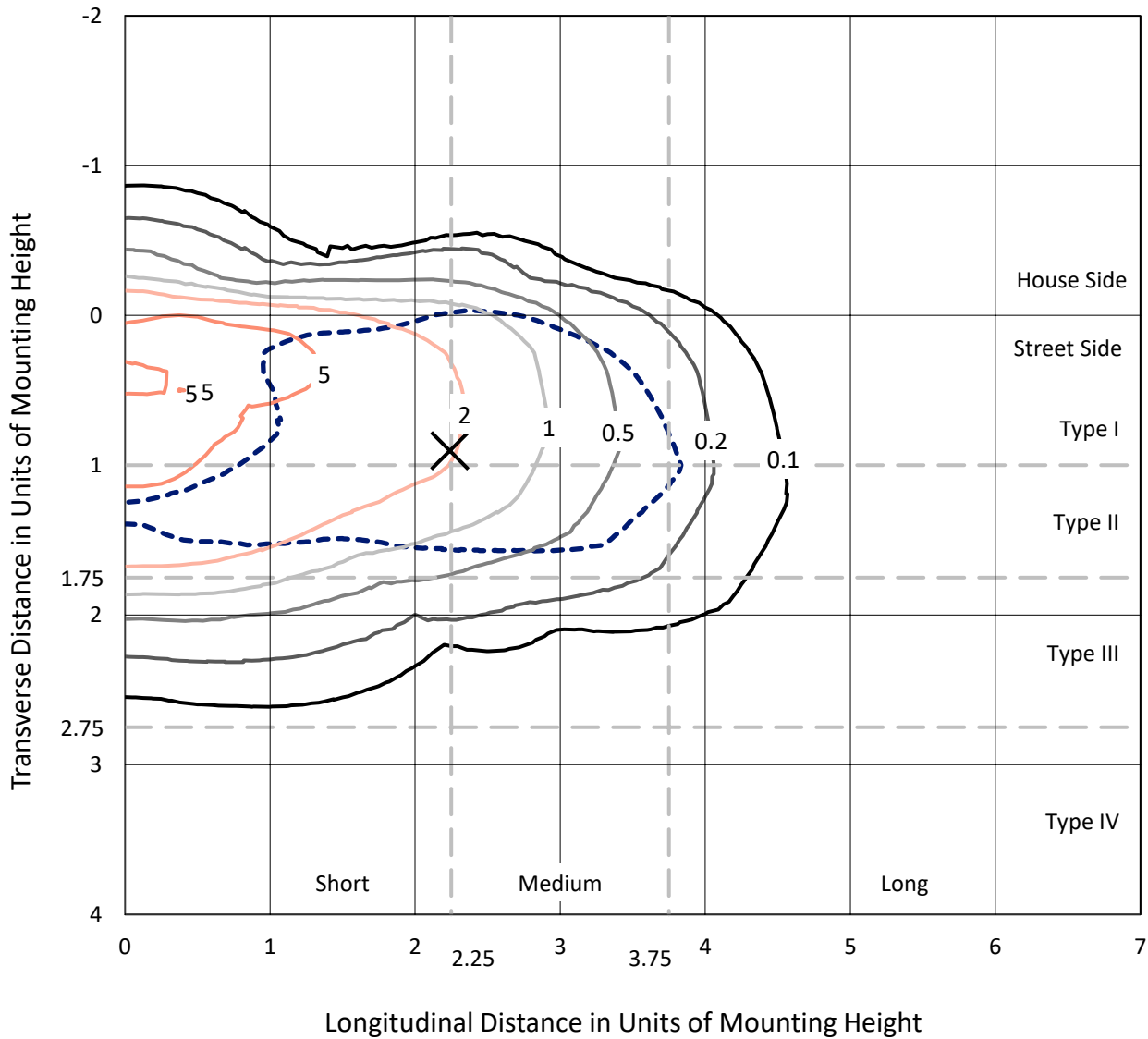
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

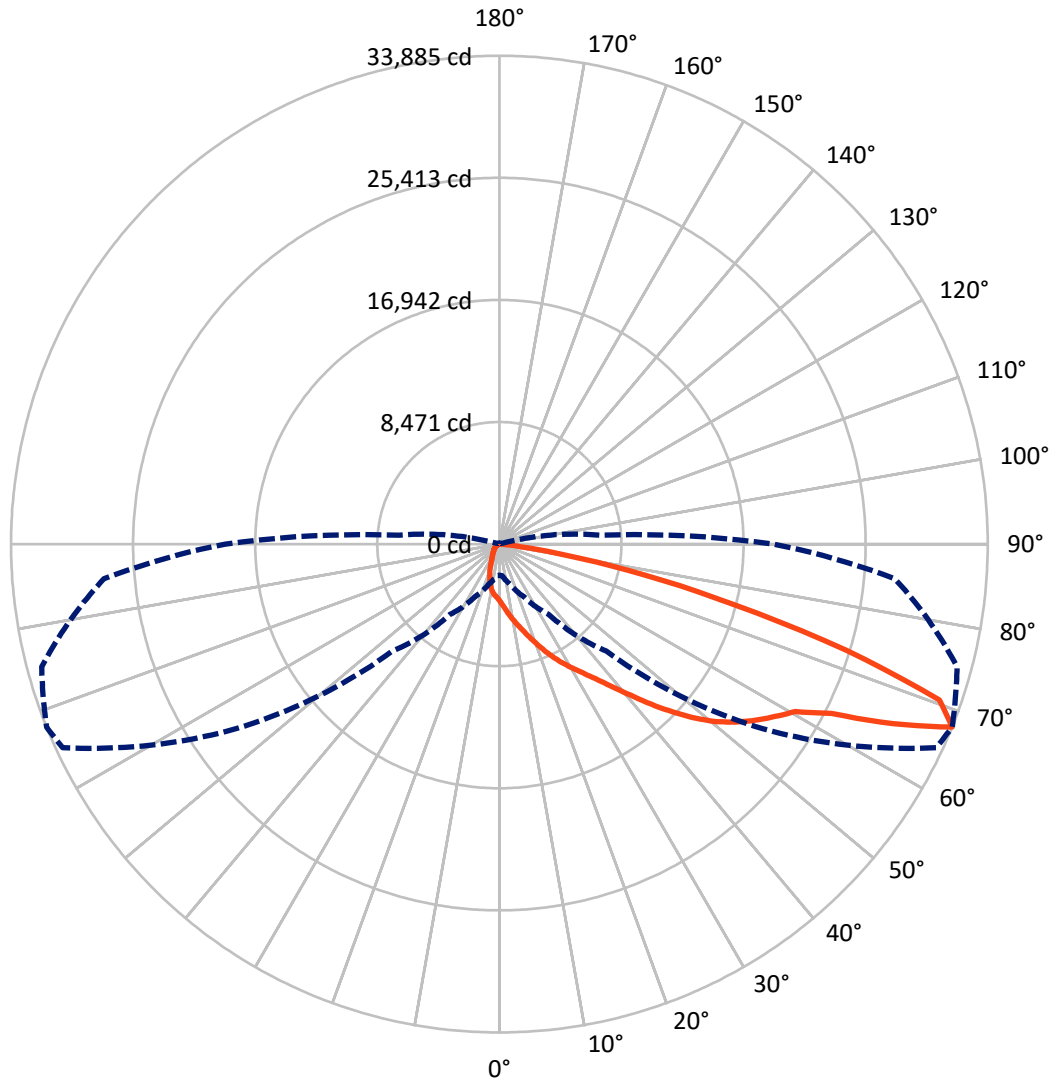
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	2442.9	0.0	2442.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31386.7	0.0	31386.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	33829.6	0.0	33829.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	1.1
10°-20°	1102.6	3.3
20°-30°	1894.9	5.6
30°-40°	3294.5	9.7
40°-50°	5748.6	17.0
50°-60°	8670.3	25.6
60°-70°	8694.1	25.7
70°-80°	3835.8	11.3
80°-90°	204.9	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°	33829.6	100.0
0°-180°	33829.6	100.0

Coefficient of Utilization



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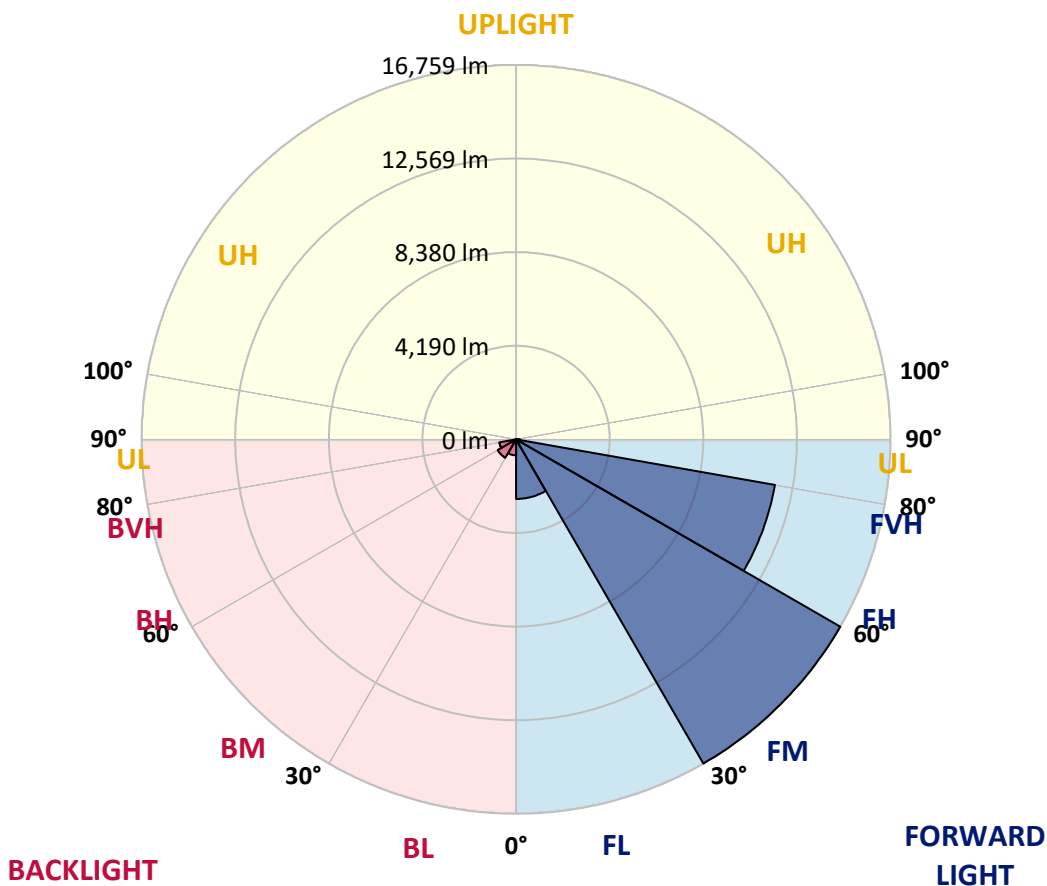
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.8	7.9			
FM (30°-60°)	16759.1	49.5			
FH (60°-80°)	11767.5	34.8			G4/12000
FVH (80°-90°)	193.3	0.6			G2/225
BL (0°-30°)	714.7	2.1	B2/1000		
BM (30°-60°)	954.2	2.8	B1/1000		
BH (60°-80°)	762.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	11.6	0.0			G1/100
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°	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9
2.5°	4584.4	4613.6	4584.4	4590.9	4506.7	4467.9	4383.7	4267.1	4238.0	4163.5	4050.2
5°	5144.5	5170.4	5141.3	5134.8	5037.7	4966.5	4827.2	4626.5	4568.2	4422.5	4199.1
7.5°	5448.9	5465.0	5474.8	5490.9	5455.3	5397.1	5270.8	5021.5	4960.0	4723.6	4409.6
10°	5481.2	5494.2	5542.7	5639.9	5711.1	5746.7	5675.5	5445.6	5348.5	5118.6	4668.6
12.5°	5390.6	5410.0	5487.7	5649.6	5847.1	6028.4	6073.7	5873.0	5785.6	5490.9	4972.9
15°	5270.8	5287.0	5393.8	5614.0	5911.8	6245.3	6433.1	6345.7	6248.5	5941.0	5309.6
17.5°	5086.2	5108.9	5257.8	5555.7	5941.0	6416.9	6821.6	6850.7	6782.7	6449.3	5682.0
20°	4982.6	4998.8	5131.6	5439.1	5921.5	6543.2	7184.2	7459.4	7384.9	7035.3	6109.3
22.5°	5070.1	5083.0	5170.4	5410.0	5856.8	6614.4	7520.9	8068.1	8026.0	7663.4	6559.4
25°	5529.8	5571.9	5520.1	5562.2	5885.9	6653.2	7792.9	8676.7	8686.4	8320.6	7025.6
27.5°	6462.2	6407.2	6284.2	6073.7	6112.6	6756.8	8026.0	9249.8	9334.0	8961.6	7440.0
30°	7410.8	7378.5	7304.0	6977.0	6705.0	6986.7	8223.5	9835.8	9968.5	9593.0	7809.1
32.5°	8476.0	8508.4	8375.6	7983.9	7520.9	7452.9	8427.4	10392.7	10641.9	10308.5	8242.9
35°	9748.4	9758.1	9495.8	9062.0	8537.5	8223.5	8793.3	11007.8	11467.5	11221.5	8822.4
37.5°	10988.4	11046.6	10904.2	10221.1	9754.8	9181.8	9398.7	11797.8	12445.3	12348.2	9550.9
40°	12085.9	12176.6	12131.2	11470.8	10858.9	10376.5	10337.6	12723.7	13627.0	13737.1	10512.4
42.5°	12960.1	13018.3	13053.9	12584.5	12043.8	11771.9	11496.7	13798.6	15022.4	15472.4	11690.9
45°	13882.8	13902.2	13976.7	13659.4	13186.7	13209.4	12866.2	15103.3	16492.3	17395.6	13044.2
47.5°	15058.0	15122.8	15087.2	14753.7	14326.3	14582.1	14281.0	16446.9	17942.7	19448.2	14429.9
50°	16489.0	16557.0	16524.6	16136.1	15660.2	15767.0	15579.3	17751.7	19341.3	21384.3	15582.5
52.5°	17227.2	17282.2	17683.7	17858.5	17609.2	16929.3	16686.5	19185.9	20523.1	22977.2	16641.2
55°	16871.1	16909.9	17784.1	18522.2	19435.2	18755.3	17800.3	20293.2	21565.6	24220.4	17427.9
57.5°	15394.7	15605.2	16793.4	18043.1	19963.0	20558.7	19606.8	21497.6	22569.2	25084.8	18201.7
60°	12367.6	12357.9	14060.8	16304.5	18933.4	21054.0	22158.0	23126.1	23576.1	25748.5	19237.7
62.5°	6834.5	6896.1	9162.4	12118.3	16071.4	19771.9	24071.5	25939.5	25871.6	26907.6	20859.8
65°	3402.7	3525.7	4756.0	6941.4	10693.7	16340.1	24401.7	30232.6	30038.3	29636.9	24210.7
67.5°	2159.5	2208.0	2887.9	4034.0	5944.2	10502.7	22345.8	33434.6	33884.6	32874.5	27535.7
70°	1398.6	1479.6	2007.3	2758.4	3587.2	5413.2	16369.2	31359.3	32392.1	32518.3	25463.6
72.5°	760.8	819.1	1282.1	1968.5	2590.1	2706.6	9194.7	23534.0	25194.9	27584.2	19920.9
75°	433.8	475.9	702.6	1337.1	1900.5	1647.9	4076.1	15754.1	16812.8	19713.7	14274.5
77.5°	262.2	297.9	395.0	650.8	1191.4	1100.8	1541.1	9589.7	10263.1	11762.2	7491.8
80°	119.8	142.5	249.3	359.4	650.8	521.3	589.2	4471.1	4616.8	4827.2	2480.0
82.5°	55.0	64.8	113.3	213.7	369.1	301.1	226.6	1032.8	1453.7	1376.0	631.3
85°	6.5	6.5	42.1	87.4	103.6	77.7	93.9	233.1	294.6	414.4	181.3
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	19.4	29.1	42.1	68.0	45.3
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°	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9	3936.9
2.5°	3998.4	3907.8	3826.8	3707.0	3626.1	3535.4	3473.9	3399.5	3370.3	3347.7	3315.3
5°	4089.1	3943.4	3745.9	3525.7	3344.4	3172.8	3014.2	2910.6	2819.9	2807.0	2761.7
7.5°	4238.0	4021.1	3687.6	3328.2	3020.7	2735.8	2512.4	2331.1	2240.4	2211.3	2159.5
10°	4435.5	4137.6	3600.2	3049.8	2606.3	2266.3	2013.8	1809.8	1667.4	1615.6	1576.7
12.5°	4655.6	4244.5	3461.0	2706.6	2201.6	1813.0	1492.5	1275.6	1185.0	1152.6	1123.4
15°	4908.2	4344.8	3240.8	2363.4	1806.6	1333.9	1107.3	1013.4	974.5	964.8	955.1
17.5°	5151.0	4409.6	2978.6	2007.3	1388.9	1036.0	929.2	893.6	883.9	874.1	867.7
20°	5426.2	4454.9	2671.0	1670.6	1078.1	877.4	825.6	799.7	780.3	760.8	757.6
22.5°	5707.9	4454.9	2337.5	1340.4	903.3	786.7	728.5	679.9	644.3	624.9	618.4
25°	5976.6	4393.4	2007.3	1071.6	796.4	699.3	624.9	569.8	521.3	498.6	492.1
27.5°	6167.6	4234.8	1719.2	906.5	722.0	621.6	531.0	469.5	430.6	407.9	404.7
30°	6287.4	3998.4	1453.7	809.4	657.2	540.7	450.0	398.2	369.1	352.9	346.4
32.5°	6378.0	3707.0	1217.3	741.4	595.7	469.5	391.7	349.7	323.8	310.8	307.6
35°	6559.4	3431.8	1042.5	679.9	531.0	411.2	343.2	310.8	291.4	275.2	272.0
37.5°	6811.9	3202.0	903.3	624.9	469.5	365.8	310.8	281.7	265.5	249.3	246.1
40°	7184.2	3056.3	799.7	569.8	414.4	330.2	284.9	259.0	236.3	220.2	216.9
42.5°	7757.3	2988.3	731.7	514.8	365.8	297.9	262.2	229.9	207.2	191.0	187.8
45°	8440.4	3023.9	673.4	459.7	333.5	275.2	233.1	200.7	178.1	161.9	158.6
47.5°	9172.1	3150.2	624.9	407.9	301.1	252.5	207.2	171.6	152.2	136.0	132.7
50°	9936.2	3357.4	582.8	359.4	275.2	226.6	178.1	148.9	129.5	116.6	113.3
52.5°	10599.9	3639.0	540.7	323.8	252.5	200.7	155.4	129.5	110.1	97.1	93.9
55°	11234.4	3904.5	508.3	291.4	226.6	174.8	136.0	110.1	93.9	80.9	77.7
57.5°	11924.0	4186.2	469.5	262.2	204.0	155.4	119.8	93.9	80.9	68.0	64.8
60°	12927.7	4603.8	411.2	239.6	178.1	136.0	103.6	84.2	71.2	55.0	51.8
62.5°	14374.9	5364.7	346.4	207.2	152.2	116.6	87.4	71.2	58.3	45.3	38.9
65°	17081.5	6659.7	284.9	171.6	123.0	97.1	74.5	58.3	45.3	32.4	29.1
67.5°	19030.5	6996.4	229.9	139.2	100.4	74.5	61.5	45.3	32.4	22.7	19.4
70°	16638.0	5024.7	178.1	113.3	84.2	58.3	48.6	35.6	22.7	16.2	13.0
72.5°	12535.9	3282.9	132.7	87.4	64.8	48.6	35.6	29.1	19.4	13.0	9.7
75°	8835.4	1897.2	97.1	64.8	45.3	35.6	29.1	22.7	16.2	9.7	9.7
77.5°	4529.4	783.5	68.0	45.3	32.4	22.7	19.4	13.0	13.0	9.7	6.5
80°	1376.0	259.0	38.9	29.1	22.7	16.2	9.7	9.7	9.7	6.5	3.2
82.5°	314.0	84.2	22.7	22.7	16.2	13.0	9.7	3.2	3.2	0.0	0.0
85°	80.9	25.9	19.4	16.2	16.2	13.0	6.5	3.2	0.0	0.0	0.0
87.5°	29.1	16.2	16.2	16.2	13.0	9.7	6.5	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)