

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: P643275

Luminaire Tested: GWS-SA6E-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643275
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34299.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

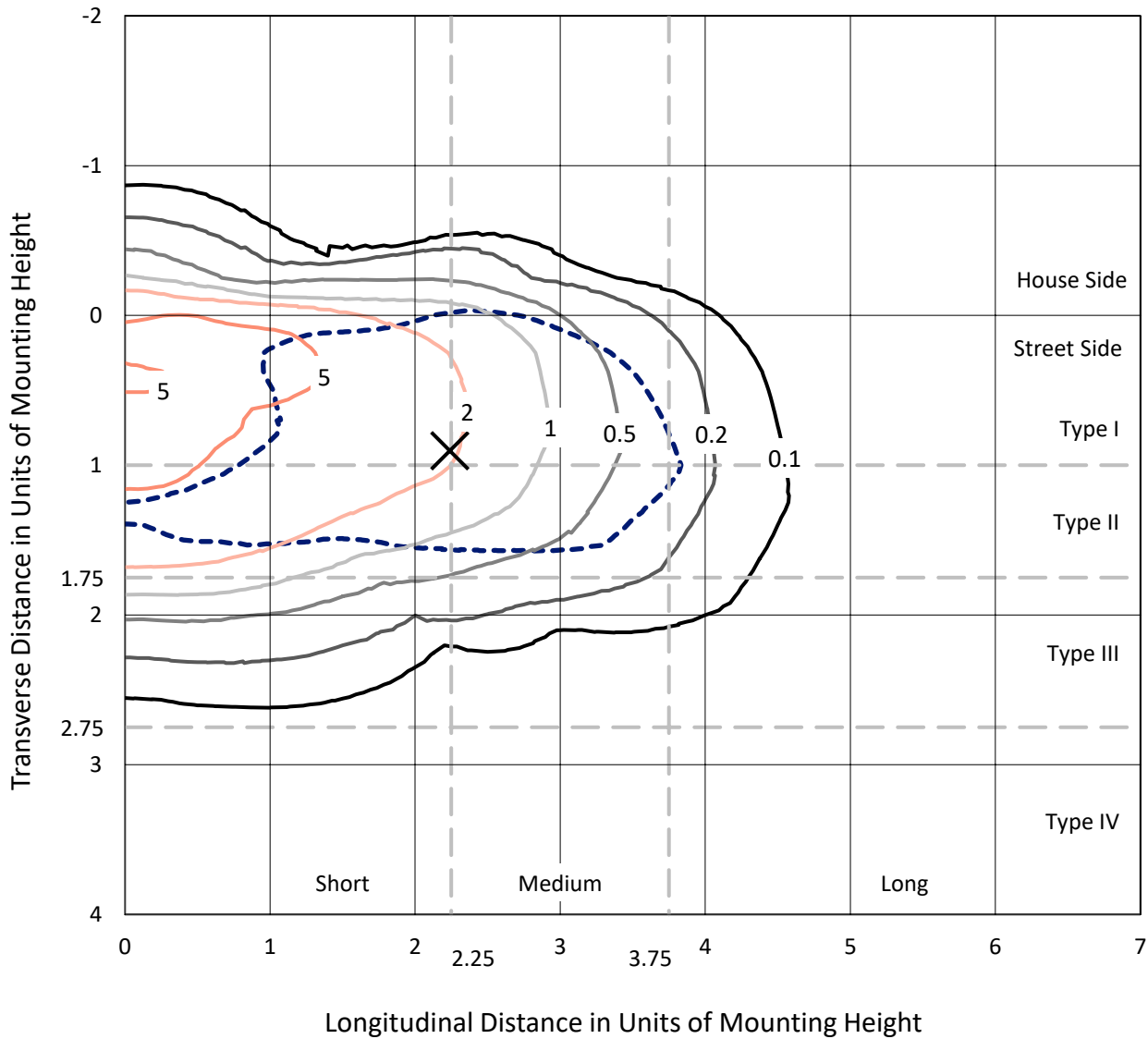
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

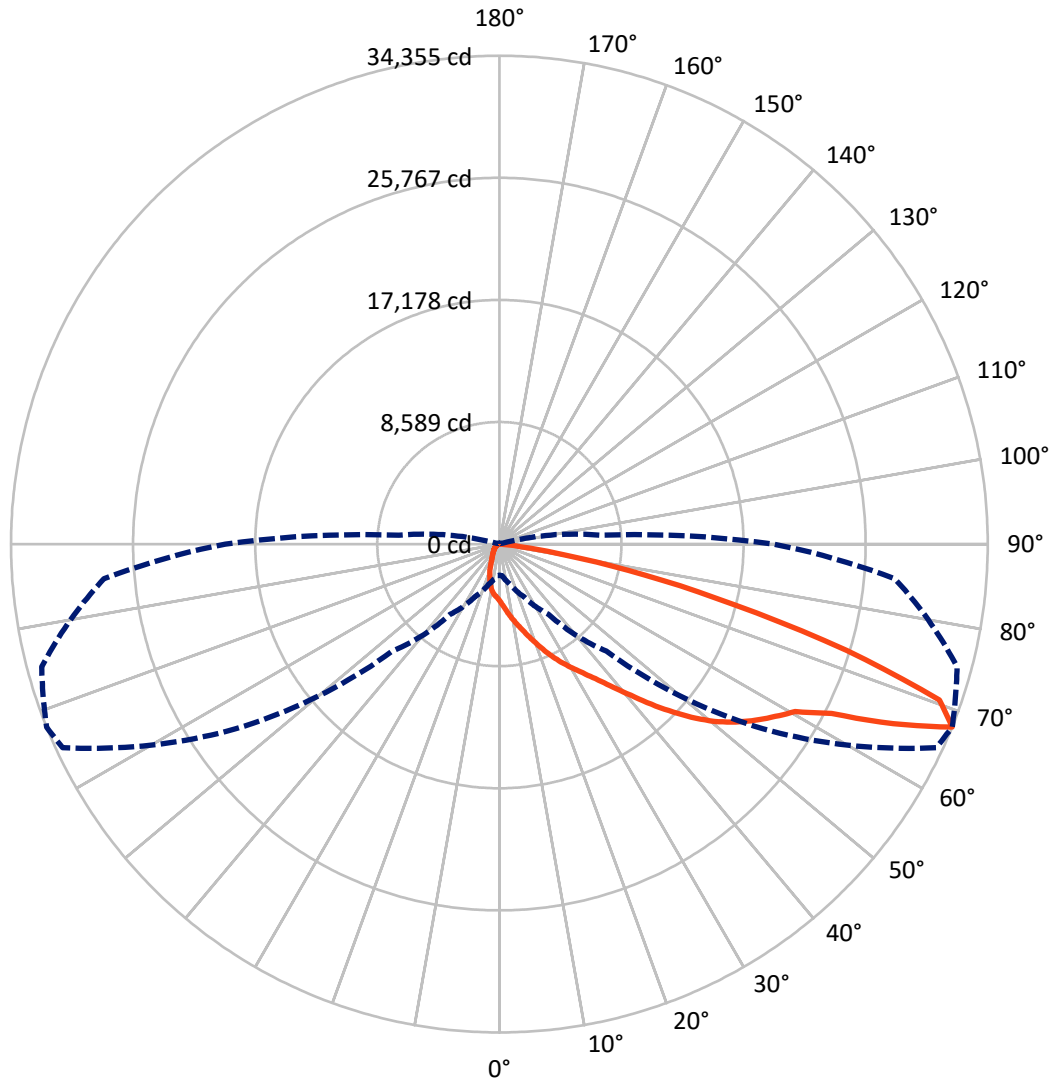
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	2476.8	0.0	2476.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31822.9	0.0	31822.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	34299.7	0.0	34299.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	1.1
10°-20°	1118.0	3.3
20°-30°	1921.2	5.6
30°-40°	3340.3	9.7
40°-50°	5828.4	17.0
50°-60°	8790.8	25.6
60°-70°	8814.9	25.7
70°-80°	3889.1	11.3
80°-90°	207.8	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°	34299.7	100.0
0°-180°	34299.7	100.0

Coefficient of Utilization



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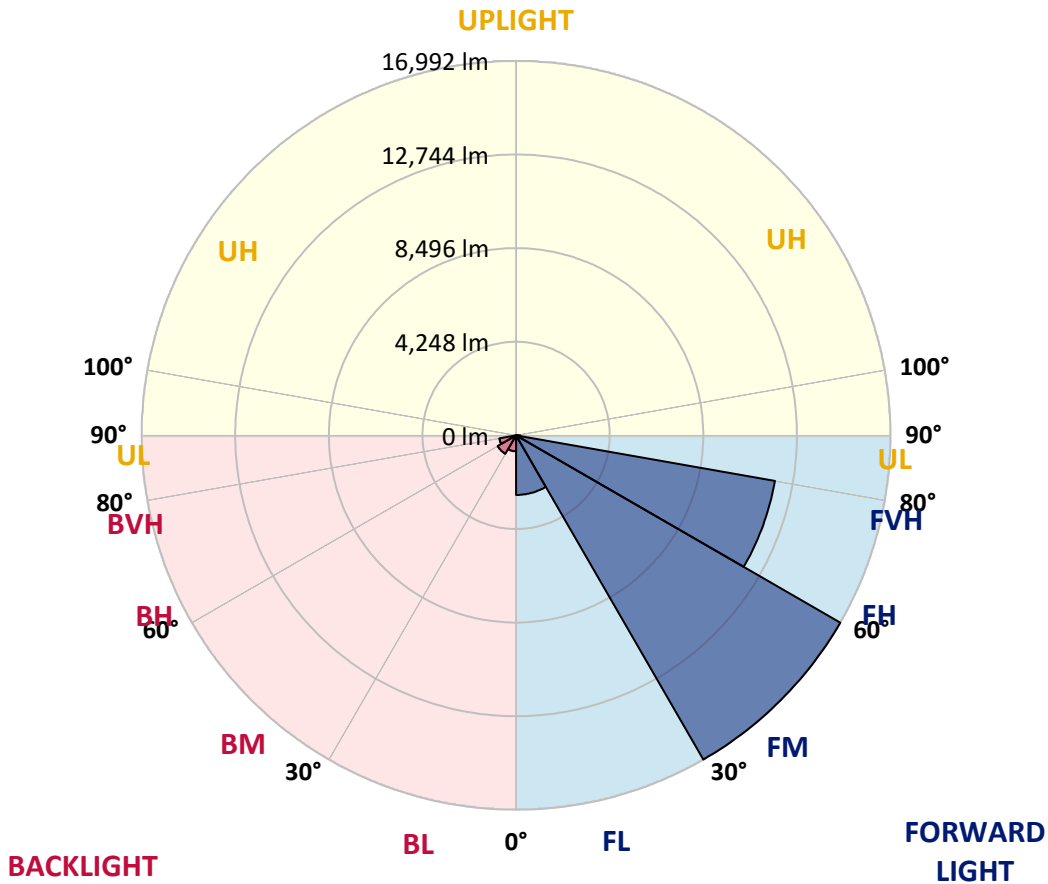
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2703.9	7.9			
FM (30°-60°)	16992.0	49.5			
FH (60°-80°)	11931.0	34.8			G4/12000
FVH (80°-90°)	196.0	0.6			G2/225
BL (0°-30°)	724.6	2.1	B2/1000		
BM (30°-60°)	967.5	2.8	B1/1000		
BH (60°-80°)	773.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	11.7	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°	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6
2.5°	4648.1	4677.7	4648.1	4654.7	4569.3	4530.0	4444.6	4326.4	4296.9	4221.4	4106.5
5°	5216.0	5242.3	5212.7	5206.2	5107.7	5035.5	4894.3	4690.8	4631.7	4484.0	4257.5
7.5°	5524.6	5541.0	5550.8	5567.2	5531.1	5472.1	5344.0	5091.3	5028.9	4789.3	4470.9
10°	5557.4	5570.5	5619.8	5718.2	5790.5	5826.6	5754.4	5521.3	5422.8	5189.8	4733.5
12.5°	5465.5	5485.2	5564.0	5728.1	5928.3	6112.2	6158.1	5954.6	5866.0	5567.2	5042.0
15°	5344.0	5360.4	5468.8	5692.0	5994.0	6332.1	6522.5	6433.8	6335.4	6023.5	5383.4
17.5°	5156.9	5179.9	5330.9	5632.9	6023.5	6506.1	6916.4	6945.9	6877.0	6538.9	5760.9
20°	5051.9	5068.3	5202.9	5514.7	6003.8	6634.1	7284.0	7563.1	7487.6	7133.0	6194.2
22.5°	5140.5	5153.6	5242.3	5485.2	5938.2	6706.3	7625.4	8180.2	8137.5	7769.9	6650.5
25°	5606.6	5649.3	5596.8	5639.5	5967.7	6745.7	7901.2	8797.3	8807.2	8436.2	7123.2
27.5°	6552.0	6496.2	6371.5	6158.1	6197.5	6850.7	8137.5	9378.3	9463.7	9086.2	7543.4
30°	7513.8	7481.0	7405.5	7074.0	6798.2	7083.8	8337.7	9972.5	10107.1	9726.3	7917.6
32.5°	8593.8	8626.6	8492.0	8094.8	7625.4	7556.5	8544.5	10537.1	10789.8	10451.7	8357.4
35°	9883.8	9893.7	9627.8	9187.9	8656.2	8337.7	8915.5	11160.8	11626.9	11377.4	8945.0
37.5°	11141.1	11200.2	11055.7	10363.1	9890.4	9309.4	9529.3	11961.7	12618.2	12519.7	9683.6
40°	12253.9	12345.8	12299.8	11630.2	11009.8	10520.7	10481.3	12900.5	13816.4	13928.0	10658.5
42.5°	13140.2	13199.2	13235.3	12759.4	12211.2	11935.4	11656.4	13990.3	15231.2	15687.4	11853.4
45°	14075.7	14095.4	14170.9	13849.2	13369.9	13392.9	13045.0	15313.2	16721.4	17637.3	13225.5
47.5°	15267.3	15332.9	15296.8	14958.7	14525.4	14784.7	14479.4	16675.5	18192.0	19718.4	14630.4
50°	16718.2	16787.1	16754.3	16360.4	15877.8	15986.1	15795.8	17998.4	19610.1	21681.4	15799.0
52.5°	17466.6	17522.4	17929.4	18106.7	17853.9	17164.6	16918.4	19452.5	20808.3	23296.4	16872.4
55°	17105.5	17144.9	18031.2	18779.6	19705.3	19016.0	18047.6	20575.2	21865.2	24557.0	17670.1
57.5°	15608.7	15822.0	17026.7	18293.8	20240.4	20844.4	19879.3	21796.3	22882.8	25433.4	18454.6
60°	12539.4	12529.6	14256.2	16531.1	19196.5	21346.6	22466.0	23447.4	23903.7	26106.3	19505.1
62.5°	6929.5	6991.9	9289.7	12286.7	16294.7	20046.7	24406.0	26300.0	26231.1	27281.5	21149.6
65°	3450.0	3574.7	4822.1	7037.8	10842.3	16567.2	24740.8	30652.7	30455.7	30048.7	24547.1
67.5°	2189.5	2238.7	2928.1	4090.1	6026.8	10648.7	22656.3	33899.2	34355.4	33331.3	27918.3
70°	1418.1	1500.1	2035.2	2796.8	3637.1	5488.5	16596.7	31795.0	32842.2	32970.2	25817.5
72.5°	771.4	830.5	1299.9	1995.8	2626.1	2744.2	9322.5	23861.0	25545.0	27967.6	20197.7
75°	439.9	482.5	712.3	1355.7	1926.9	1670.8	4132.8	15973.0	17046.4	19987.6	14472.9
77.5°	265.9	302.0	400.5	659.8	1208.0	1116.1	1562.5	9723.0	10405.8	11925.6	7595.9
80°	121.5	144.4	252.8	364.4	659.8	528.5	597.4	4533.2	4681.0	4894.3	2514.5
82.5°	55.8	65.7	114.9	216.7	374.2	305.3	229.8	1047.1	1473.9	1395.1	640.1
85°	6.6	6.6	42.7	88.6	105.0	78.8	95.2	236.3	298.7	420.2	183.8
87.5°	0.0	0.0	3.3	3.3	6.6	9.8	19.7	29.5	42.7	68.9	46.0
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°	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6
2.5°	4054.0	3962.1	3880.0	3758.6	3676.5	3584.6	3522.2	3446.7	3417.2	3394.2	3361.4
5°	4145.9	3998.2	3797.9	3574.7	3390.9	3216.9	3056.1	2951.0	2859.1	2846.0	2800.0
7.5°	4296.9	4077.0	3738.9	3374.5	3062.6	2773.8	2547.3	2363.5	2271.5	2242.0	2189.5
10°	4497.1	4195.1	3650.2	3092.2	2642.5	2297.8	2041.8	1835.0	1690.5	1638.0	1598.6
12.5°	4720.3	4303.5	3509.1	2744.2	2232.2	1838.2	1513.3	1293.3	1201.4	1168.6	1139.1
15°	4976.4	4405.2	3285.9	2396.3	1831.7	1352.4	1122.6	1027.4	988.1	978.2	968.4
17.5°	5222.6	4470.9	3020.0	2035.2	1408.2	1050.4	942.1	906.0	896.1	886.3	879.7
20°	5501.6	4516.8	2708.1	1693.8	1093.1	889.6	837.1	810.8	791.1	771.4	768.1
22.5°	5787.2	4516.8	2370.0	1359.0	915.8	797.7	738.6	689.3	653.2	633.5	627.0
25°	6059.6	4454.5	2035.2	1086.5	807.5	709.0	633.5	577.7	528.5	505.5	499.0
27.5°	6253.3	4293.6	1743.0	919.1	732.0	630.3	538.3	476.0	436.6	413.6	410.3
30°	6374.8	4054.0	1473.9	820.6	666.4	548.2	456.3	403.8	374.2	357.8	351.2
32.5°	6466.7	3758.6	1234.2	751.7	604.0	476.0	397.2	354.5	328.3	315.1	311.8
35°	6650.5	3479.5	1057.0	689.3	538.3	416.9	348.0	315.1	295.4	279.0	275.7
37.5°	6906.5	3246.5	915.8	633.5	476.0	370.9	315.1	285.6	269.2	252.8	249.5
40°	7284.0	3098.8	810.8	577.7	420.2	334.8	288.9	262.6	239.6	223.2	219.9
42.5°	7865.1	3029.8	741.9	521.9	370.9	302.0	265.9	233.1	210.1	193.7	190.4
45°	8557.7	3065.9	682.8	466.1	338.1	279.0	236.3	203.5	180.5	164.1	160.8
47.5°	9299.5	3193.9	633.5	413.6	305.3	256.0	210.1	174.0	154.3	137.9	134.6
50°	10074.2	3404.0	590.9	364.4	279.0	229.8	180.5	151.0	131.3	118.2	114.9
52.5°	10747.2	3689.6	548.2	328.3	256.0	203.5	157.6	131.3	111.6	98.5	95.2
55°	11390.5	3958.8	515.4	295.4	229.8	177.3	137.9	111.6	95.2	82.1	78.8
57.5°	12089.7	4244.4	476.0	265.9	206.8	157.6	121.5	95.2	82.1	68.9	65.7
60°	13107.3	4667.8	416.9	242.9	180.5	137.9	105.0	85.3	72.2	55.8	52.5
62.5°	14574.6	5439.2	351.2	210.1	154.3	118.2	88.6	72.2	59.1	46.0	39.4
65°	17318.9	6752.3	288.9	174.0	124.7	98.5	75.5	59.1	46.0	32.8	29.5
67.5°	19295.0	7093.6	233.1	141.2	101.8	75.5	62.4	46.0	32.8	23.0	19.7
70°	16869.2	5094.6	180.5	114.9	85.3	59.1	49.2	36.1	23.0	16.4	13.1
72.5°	12710.1	3328.5	134.6	88.6	65.7	49.2	36.1	29.5	19.7	13.1	9.8
75°	8958.2	1923.6	98.5	65.7	46.0	36.1	29.5	23.0	16.4	9.8	9.8
77.5°	4592.3	794.4	68.9	46.0	32.8	23.0	19.7	13.1	13.1	9.8	6.6
80°	1395.1	262.6	39.4	29.5	23.0	16.4	9.8	9.8	9.8	6.6	3.3
82.5°	318.4	85.3	23.0	23.0	16.4	13.1	9.8	3.3	3.3	0.0	0.0
85°	82.1	26.3	19.7	16.4	16.4	13.1	6.6	3.3	0.0	0.0	0.0
87.5°	29.5	16.4	16.4	16.4	13.1	9.8	6.6	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)