

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: P643757

Luminaire Tested: GWS-SA6F-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643757
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-SAGF-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40113.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

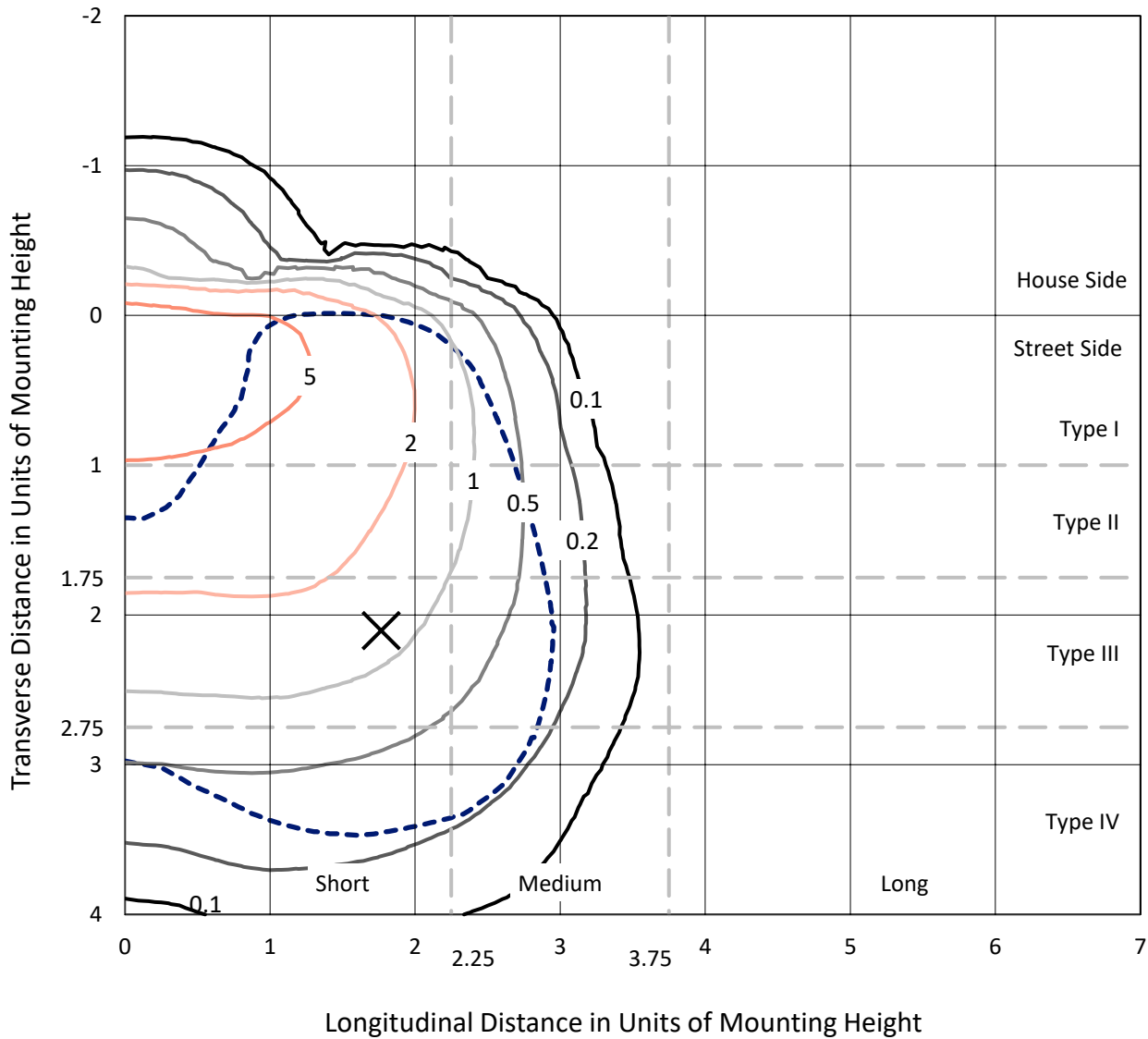
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

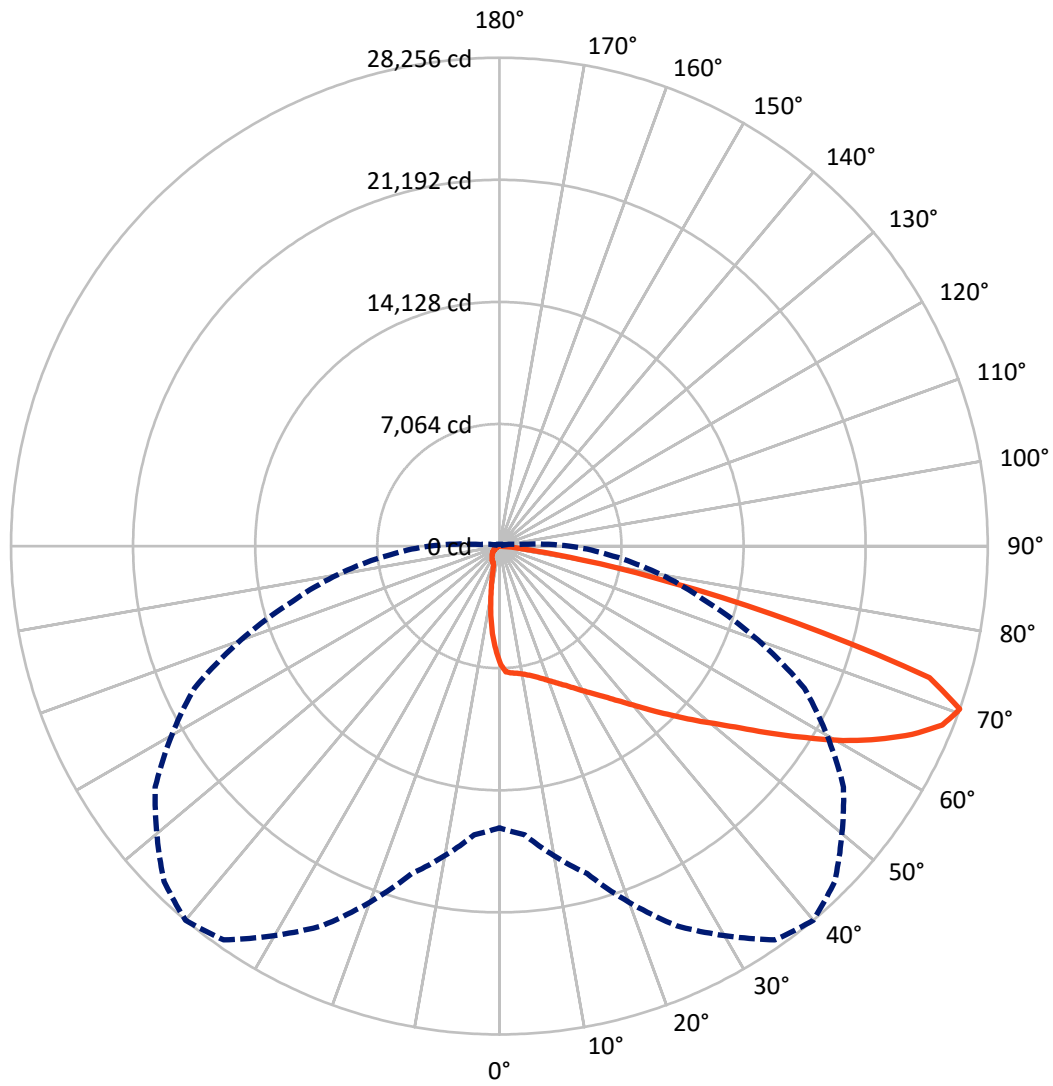
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	3280.2	0.0	3280.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	36832.9	0.0	36832.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	40113.1	0.0	40113.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.3	1.4
10°-20°	1459.1	3.6
20°-30°	2442.1	6.1
30°-40°	3835.6	9.6
40°-50°	6066.9	15.1
50°-60°	8850.1	22.1
60°-70°	10971.0	27.4
70°-80°	5550.7	13.8
80°-90°	362.3	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°	40113.1	100.0
0°-180°	40113.1	100.0

Coefficient of Utilization



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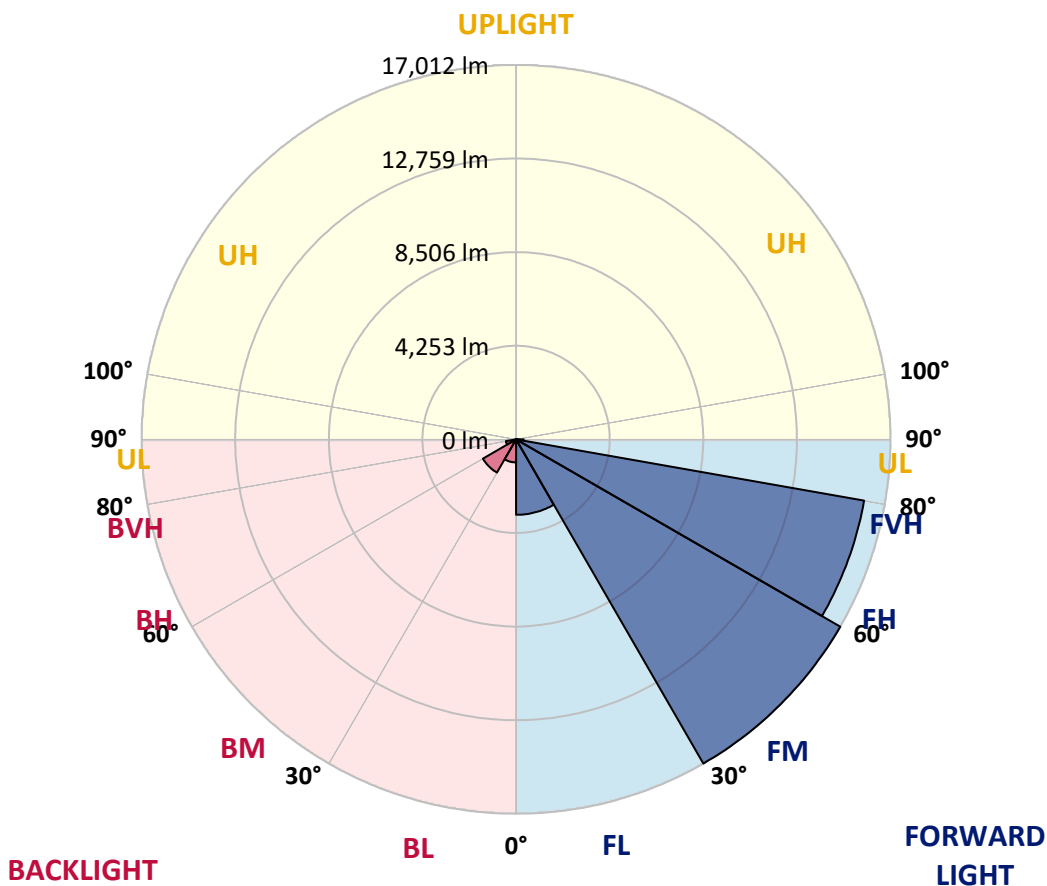
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3428.9	8.5			
FM (30°-60°)	17011.5	42.4			
FH (60°-80°)	16054.0	40.0			G5
FVH (80°-90°)	338.4	0.8			G3/500
BL (0°-30°)	1047.5	2.6	B3/2500		
BM (30°-60°)	1741.1	4.3	B2/2500		
BH (60°-80°)	467.7	1.2	B1/500		G1/500
BVH (80°-90°)	23.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7
2.5°	7317.7	7343.2	7339.6	7350.5	7325.0	7284.8	7277.5	7222.8	7124.2	7000.1	6861.5
5°	7467.3	7496.5	7474.6	7463.7	7416.2	7372.4	7361.5	7303.1	7189.9	7022.0	6781.2
7.5°	7595.0	7602.3	7587.8	7562.2	7492.9	7434.5	7394.3	7314.0	7179.0	7011.1	6733.7
10°	7616.9	7613.3	7620.6	7624.2	7580.5	7529.4	7496.5	7387.0	7215.5	7036.6	6737.4
12.5°	7591.4	7591.4	7638.8	7693.6	7693.6	7668.0	7635.2	7536.7	7335.9	7124.2	6810.4
15°	7624.2	7635.2	7726.4	7828.6	7861.5	7835.9	7821.3	7719.1	7511.1	7277.5	6941.8
17.5°	7741.0	7752.0	7898.0	8051.3	8091.4	8062.2	8033.0	7930.8	7708.2	7452.7	7091.4
20°	7912.6	7941.8	8127.9	8325.0	8361.5	8325.0	8266.6	8124.3	7901.6	7642.5	7233.7
22.5°	8226.5	8244.7	8445.4	8653.5	8671.7	8613.3	8525.7	8328.6	8095.1	7843.2	7394.3
25°	8642.5	8668.1	8868.8	9069.5	9022.1	8934.5	8814.1	8591.4	8325.0	8080.5	7598.7
27.5°	9138.9	9168.1	9365.2	9540.3	9416.3	9314.1	9179.0	8901.6	8631.6	8408.9	7861.5
30°	9675.4	9700.9	9876.1	10033.1	9868.8	9748.4	9587.8	9303.1	9029.4	8861.5	8233.7
32.5°	10193.6	10190.0	10357.9	10485.6	10317.7	10222.8	10076.9	9788.5	9569.5	9496.5	8788.5
35°	10675.4	10675.4	10814.1	10941.8	10821.4	10770.3	10635.3	10405.3	10281.2	10368.8	9529.4
37.5°	11160.8	11135.3	11266.7	11409.0	11398.0	11401.7	11325.1	11215.6	11222.9	11533.1	10547.7
40°	11562.3	11551.3	11704.6	11890.8	12036.7	12153.5	12106.1	12146.2	12376.2	12956.5	11850.6
42.5°	11883.5	11909.0	12106.1	12401.7	12770.3	13007.6	13040.4	13204.7	13795.9	14693.7	13321.4
45°	12252.1	12255.7	12529.5	12982.0	13569.6	13945.5	14076.9	14500.3	15339.7	16496.7	14934.6
47.5°	12704.6	12660.8	12967.4	13602.5	14452.9	15007.6	15241.2	15770.4	17069.7	18255.9	16248.5
50°	13204.7	13124.4	13471.1	14336.1	15441.9	16135.4	16609.8	17383.6	18785.1	19701.1	17226.6
52.5°	13785.0	13708.3	14102.5	15179.2	16628.1	17471.2	18080.7	18861.7	20255.9	20803.4	17810.6
55°	14522.2	14445.6	14861.6	16190.1	18029.6	19124.5	19763.2	20420.1	21624.5	21617.2	18234.0
57.5°	15339.7	15233.9	15810.6	17467.5	19777.8	20916.5	21566.1	21887.3	22664.7	22248.6	18518.6
60°	16277.7	16182.8	16982.1	18989.4	21796.1	22850.8	23259.6	23128.2	23518.7	22620.9	18420.1
62.5°	17124.4	17080.7	18073.4	20602.6	23719.5	24610.0	24723.1	24150.1	24146.5	22628.2	17755.8
65°	18004.0	18088.0	19562.5	22460.3	25653.8	26252.4	26058.9	25164.8	24398.3	21734.0	15792.3
67.5°	18332.5	18577.0	20544.2	24139.2	27179.4	27646.6	27307.1	25672.1	23350.9	18726.7	12025.8
70°	16303.3	16763.1	19617.2	24234.1	27810.8	28256.1	27442.2	24307.1	19467.6	12405.4	6587.7
72.5°	12398.1	12934.6	16347.1	19843.5	25011.5	26026.1	24635.6	19803.3	12547.7	5434.4	2211.7
75°	6938.1	7518.4	12175.4	14941.9	16792.3	17719.3	17208.4	12704.6	5558.5	1419.7	660.6
77.5°	2346.8	2540.2	5664.4	9244.7	11084.2	10252.0	8679.0	6310.4	2043.8	540.2	350.4
80°	1390.5	1463.5	2109.5	4602.3	5832.2	4835.9	3817.6	2332.2	1040.2	288.3	244.5
82.5°	416.1	492.7	1164.3	1708.1	2284.7	1423.4	1204.4	1332.1	540.2	156.9	204.4
85°	0.0	0.0	248.2	529.2	598.6	233.6	233.6	755.5	98.5	65.7	149.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.2	10.9	14.6	32.8
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°	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7
2.5°	6762.9	6635.2	6485.5	6343.2	6208.2	6033.0	5949.0	5846.8	5759.2	5711.8	5737.3
5°	6627.9	6427.1	6120.6	5810.3	5496.5	5200.8	4934.4	4755.6	4595.0	4511.0	4529.3
7.5°	6511.1	6241.0	5762.9	5255.6	4751.9	4244.6	3832.2	3511.0	3262.8	3160.7	3142.4
10°	6460.0	6120.6	5445.4	4715.4	3941.7	3259.2	2675.2	2321.2	2069.4	1945.3	1967.2
12.5°	6485.5	6058.5	5175.3	4186.2	3182.5	2386.9	1828.5	1496.4	1317.5	1244.6	1226.3
15°	6558.5	6043.9	4934.4	3646.1	2456.3	1667.9	1262.8	1127.8	1091.3	1084.0	1084.0
17.5°	6642.5	6047.6	4686.2	3098.6	1865.0	1237.3	1080.3	1054.8	1043.8	1036.5	1040.2
20°	6726.4	6047.6	4401.6	2543.8	1401.5	1069.4	1029.2	1011.0	1000.0	996.4	996.4
22.5°	6828.6	6047.6	4084.0	2029.2	1124.1	1014.6	981.8	970.8	959.9	956.2	952.6
25°	6952.7	6051.2	3733.7	1587.6	1021.9	967.2	941.6	930.7	919.7	912.4	912.4
27.5°	7131.5	6080.4	3346.8	1237.3	963.5	923.4	901.5	890.5	879.6	868.6	868.6
30°	7390.7	6153.4	2912.5	1021.9	908.8	875.9	854.0	846.7	835.8	824.8	821.2
32.5°	7777.5	6281.2	2463.6	916.1	857.7	824.8	799.3	792.0	781.0	770.1	766.4
35°	8317.7	6514.7	2025.6	850.4	792.0	759.1	744.5	740.9	726.3	715.3	715.3
37.5°	9109.7	6894.3	1605.9	784.7	737.2	711.7	693.4	686.1	671.5	660.6	656.9
40°	10076.9	7387.0	1248.2	733.6	686.1	660.6	642.3	631.4	613.2	598.6	591.3
42.5°	11310.5	7989.2	985.4	678.8	638.7	613.2	598.6	576.7	551.1	529.2	525.6
45°	12595.2	8609.7	813.9	627.8	594.9	573.0	554.8	525.6	489.1	463.5	456.2
47.5°	13580.6	8996.5	711.7	573.0	547.5	529.2	507.3	470.8	427.0	397.8	390.5
50°	14285.0	9054.9	635.0	521.9	507.3	489.1	456.2	412.4	365.0	335.8	328.5
52.5°	14631.7	8792.2	573.0	474.5	463.5	445.3	405.1	357.7	306.6	277.4	270.1
55°	14788.6	8295.8	514.6	434.3	419.7	397.8	354.0	302.9	251.8	226.3	219.0
57.5°	14726.6	7562.2	463.5	394.2	375.9	350.4	302.9	248.2	208.0	182.5	178.8
60°	14266.7	6533.0	412.4	354.0	332.1	302.9	255.5	204.4	167.9	149.6	146.0
62.5°	13274.0	5255.6	361.3	306.6	292.0	262.8	219.0	167.9	138.7	127.7	124.1
65°	11241.1	3715.4	310.2	259.1	251.8	222.6	182.5	138.7	120.4	113.1	109.5
67.5°	8080.5	2259.2	262.8	222.6	215.3	189.8	153.3	120.4	109.5	105.8	105.8
70°	4062.1	1069.4	208.0	182.5	182.5	156.9	131.4	109.5	105.8	102.2	102.2
72.5°	1379.6	456.2	156.9	142.3	149.6	135.0	113.1	102.2	102.2	102.2	102.2
75°	470.8	240.9	109.5	102.2	109.5	109.5	98.5	98.5	102.2	102.2	102.2
77.5°	306.6	160.6	76.6	69.3	83.9	83.9	83.9	91.2	98.5	98.5	98.5
80°	251.8	87.6	51.1	47.4	62.0	62.0	69.3	83.9	91.2	91.2	91.2
82.5°	215.3	54.7	29.2	32.8	43.8	47.4	58.4	69.3	80.3	83.9	83.9
85°	146.0	29.2	21.9	25.5	29.2	36.5	47.4	58.4	65.7	73.0	73.0
87.5°	40.1	10.9	14.6	18.2	18.2	25.5	36.5	43.8	51.1	54.7	54.7
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)