

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: P641172

Luminaire Tested: GWS-SA5F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641172
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32435.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

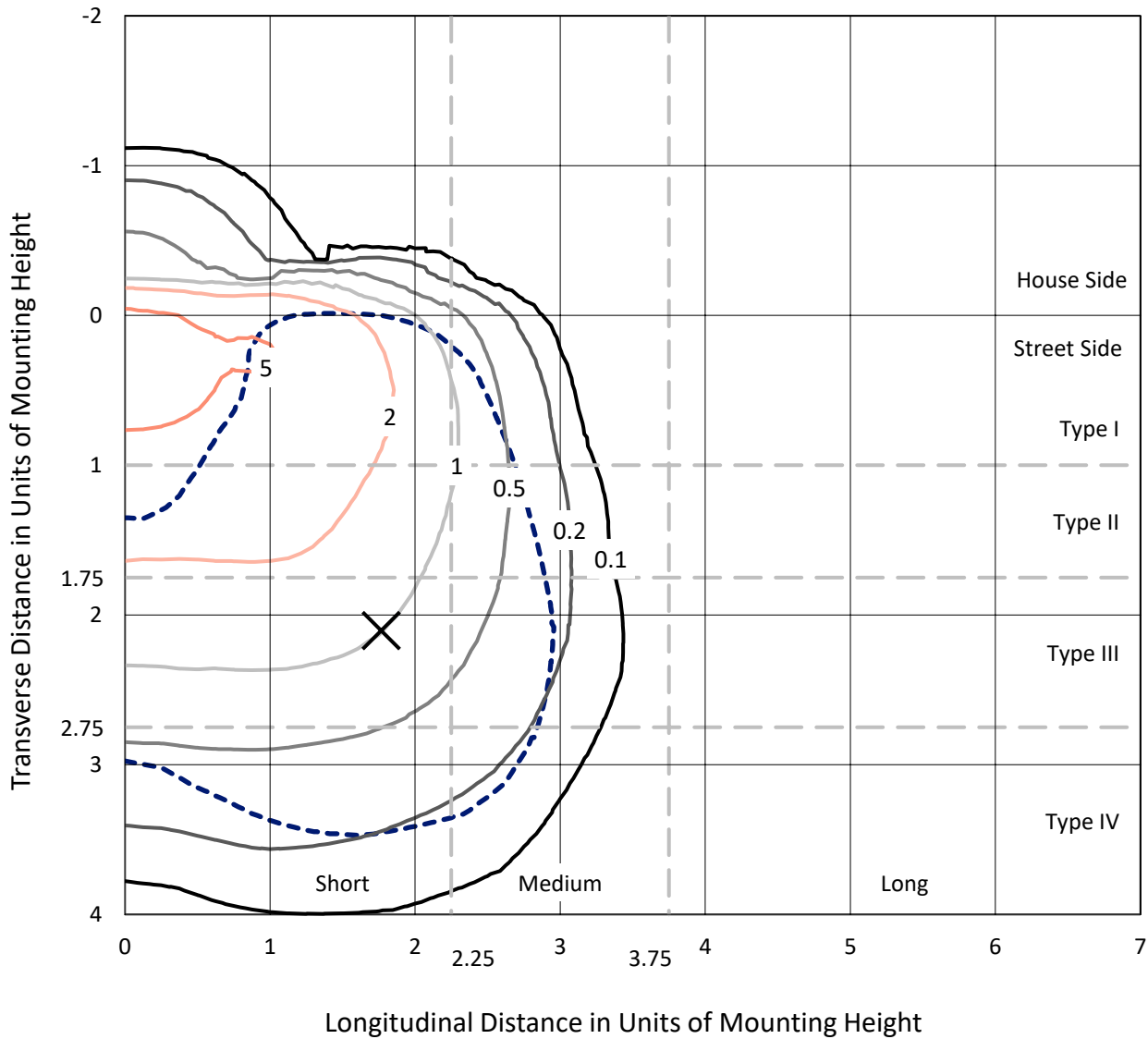
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

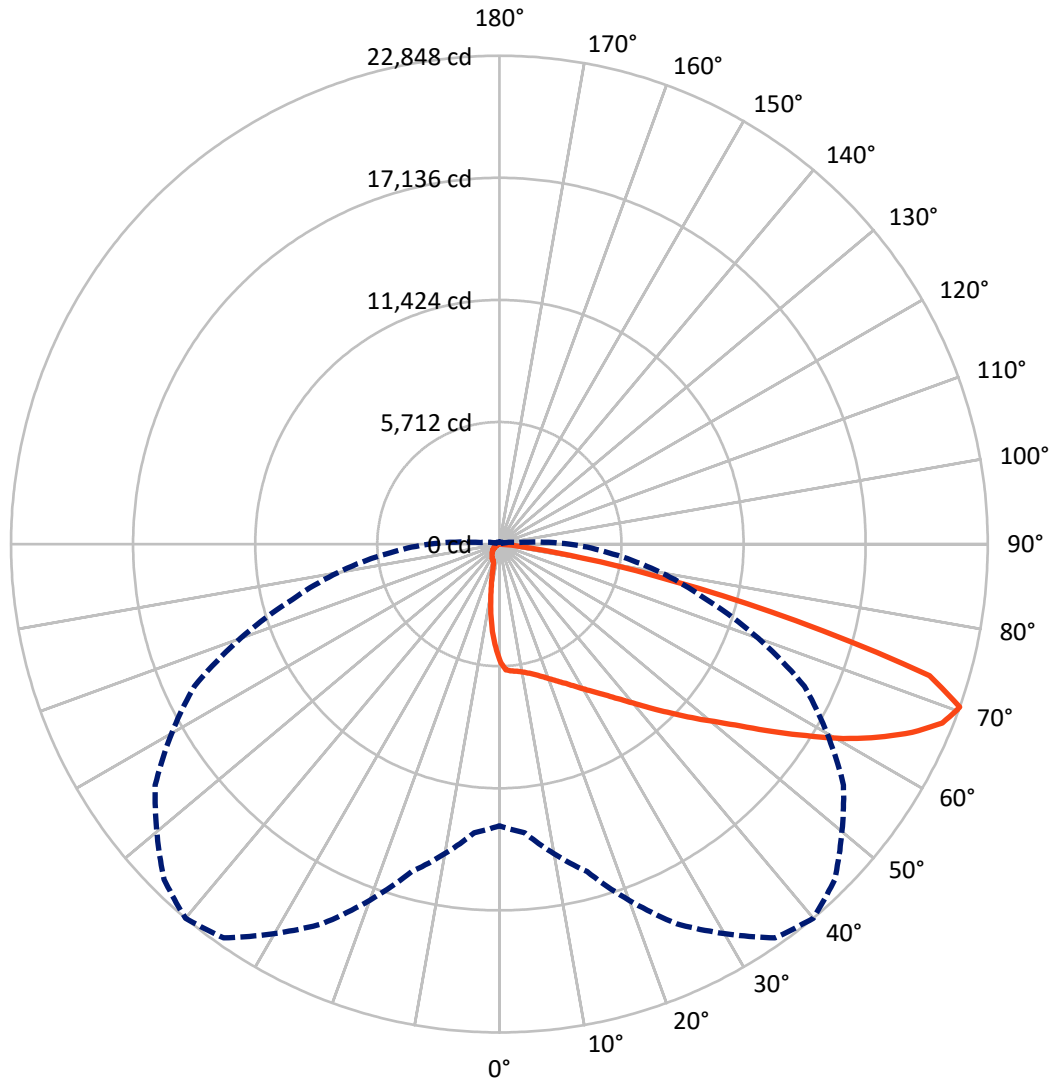
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	2652.4	0.0	2652.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	29783.1	0.0	29783.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	32435.5	0.0	32435.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.2	1.4
10°-20°	1179.8	3.6
20°-30°	1974.7	6.1
30°-40°	3101.4	9.6
40°-50°	4905.7	15.1
50°-60°	7156.2	22.1
60°-70°	8871.1	27.4
70°-80°	4488.3	13.8
80°-90°	293.0	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°	32435.5	100.0
0°-180°	32435.5	100.0

Coefficient of Utilization



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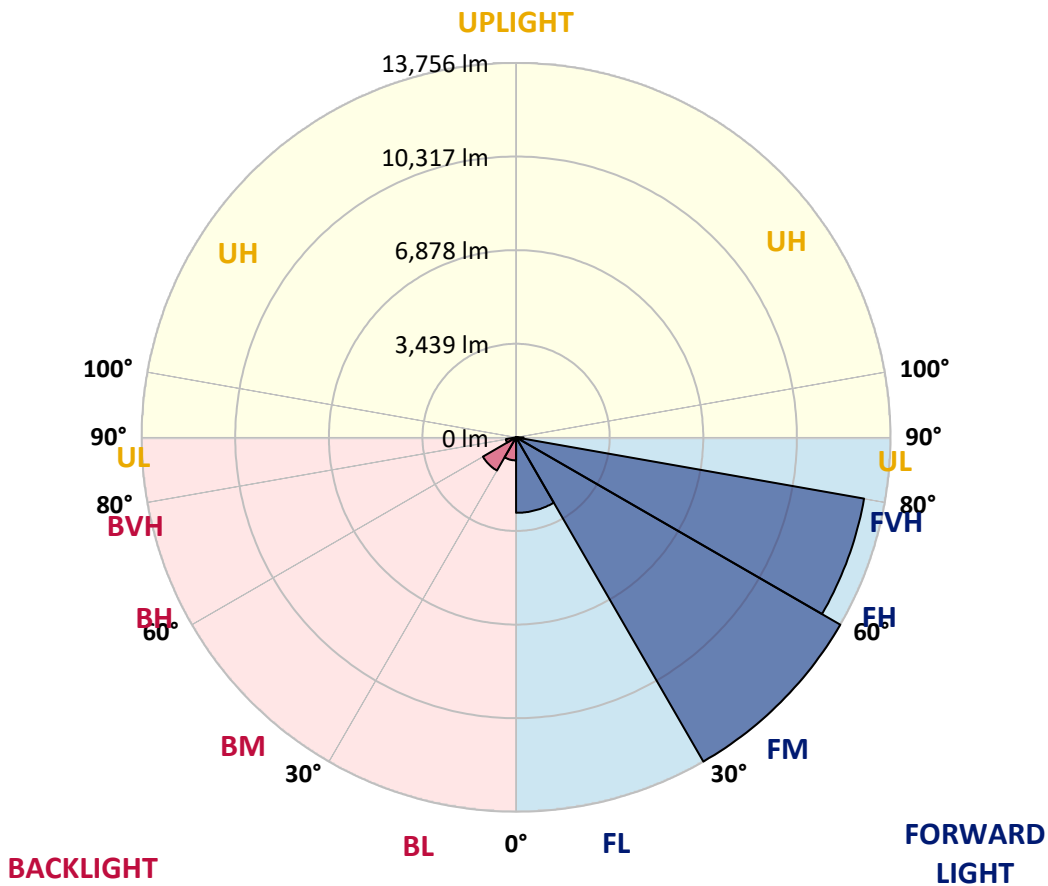
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2772.7	8.5			
FM (30°-60°)	13755.5	42.4			
FH (60°-80°)	12981.3	40.0			G5
FVH (80°-90°)	273.7	0.8			G3/500
BL (0°-30°)	847.0	2.6	B2/1000		
BM (30°-60°)	1407.9	4.3	B2/2500		
BH (60°-80°)	378.2	1.2	B1/500		G1/500
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9
2.5°	5917.1	5937.7	5934.8	5943.6	5923.0	5890.5	5884.6	5840.3	5760.7	5660.3	5548.2
5°	6038.1	6061.7	6044.0	6035.1	5996.8	5961.3	5952.5	5905.3	5813.8	5678.0	5483.3
7.5°	6141.4	6147.3	6135.5	6114.8	6058.7	6011.5	5979.1	5914.1	5804.9	5669.2	5444.9
10°	6159.1	6156.1	6162.0	6165.0	6129.6	6088.2	6061.7	5973.2	5834.4	5689.8	5447.8
12.5°	6138.4	6138.4	6176.8	6221.0	6221.0	6200.4	6173.8	6094.1	5931.8	5760.7	5506.9
15°	6165.0	6173.8	6247.6	6330.2	6356.8	6336.1	6324.3	6241.7	6073.5	5884.6	5613.1
17.5°	6259.4	6268.3	6386.3	6510.3	6542.7	6519.1	6495.5	6412.9	6232.9	6026.3	5734.1
20°	6398.1	6421.7	6572.2	6731.6	6761.1	6731.6	6684.4	6569.3	6389.3	6179.7	5849.2
22.5°	6651.9	6666.7	6829.0	6997.2	7012.0	6964.7	6893.9	6734.5	6545.7	6342.0	5979.1
25°	6988.3	7009.0	7171.3	7333.6	7295.3	7224.4	7127.1	6947.0	6731.6	6533.9	6144.3
27.5°	7389.7	7413.3	7572.7	7714.3	7614.0	7531.4	7422.2	7197.9	6979.5	6799.5	6356.8
30°	7823.5	7844.2	7985.8	8112.7	7979.9	7882.6	7752.7	7522.5	7301.2	7165.4	6657.8
32.5°	8242.6	8239.6	8375.4	8478.7	8342.9	8266.2	8148.2	7915.0	7737.9	7678.9	7106.4
35°	8632.1	8632.1	8744.3	8847.6	8750.2	8708.9	8599.7	8413.8	8313.4	8384.2	7705.5
37.5°	9024.7	9004.0	9110.2	9225.3	9216.5	9219.4	9157.5	9068.9	9074.8	9325.7	8528.9
40°	9349.3	9340.4	9464.4	9614.9	9732.9	9827.4	9789.0	9821.5	10007.4	10476.6	9582.4
42.5°	9609.0	9629.6	9789.0	10028.0	10326.1	10517.9	10544.5	10677.3	11155.4	11881.4	10771.7
45°	9907.0	9910.0	10131.3	10497.3	10972.4	11276.4	11382.6	11725.0	12403.7	13339.2	12076.2
47.5°	10273.0	10237.6	10485.5	10999.0	11686.6	12135.2	12324.0	12752.0	13802.6	14761.7	13138.6
50°	10677.3	10612.4	10892.7	11592.2	12486.4	13047.1	13430.7	14056.4	15189.6	15930.4	13929.5
52.5°	11146.5	11084.6	11403.3	12273.9	13445.5	14127.2	14620.1	15251.6	16378.9	16821.6	14401.7
55°	11742.7	11680.7	12017.1	13091.4	14578.7	15464.1	15980.5	16511.7	17485.6	17479.7	14744.0
57.5°	12403.7	12318.1	12784.4	14124.3	15992.3	16913.1	17438.4	17698.1	18326.7	17990.3	14974.2
60°	13162.2	13085.4	13731.8	15354.9	17624.3	18477.2	18807.7	18701.5	19017.3	18291.3	14894.5
62.5°	13846.8	13811.4	14614.1	16659.3	19179.6	19899.7	19991.2	19527.8	19524.9	18297.2	14357.4
65°	14558.1	14626.0	15818.2	18161.4	20743.7	21227.7	21071.3	20348.3	19728.5	17574.2	12769.7
67.5°	14823.7	15021.4	16612.1	19519.0	21977.3	22355.0	22080.6	20758.5	18881.5	15142.4	9724.1
70°	13182.8	13554.7	15862.5	19595.7	22487.8	22847.9	22189.8	19654.7	15741.5	10031.0	5326.8
72.5°	10025.1	10458.9	13218.3	16045.5	20224.3	21044.7	19920.3	16013.0	10146.1	4394.3	1788.4
75°	5610.2	6079.4	9845.1	12082.1	13578.3	14327.9	13914.7	10273.0	4494.6	1148.0	534.2
77.5°	1897.6	2054.0	4580.2	7475.3	8962.7	8289.8	7017.9	5102.6	1652.7	436.8	283.3
80°	1124.4	1183.4	1705.8	3721.4	4716.0	3910.3	3086.9	1885.8	841.1	233.1	197.7
82.5°	336.4	398.4	941.4	1381.1	1847.4	1151.0	973.9	1077.2	436.8	126.9	165.3
85°	0.0	0.0	200.7	427.9	484.0	188.9	188.9	610.9	79.7	53.1	121.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	14.8	8.9	11.8	26.6
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°	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9
2.5°	5468.5	5365.2	5244.2	5129.1	5019.9	4878.3	4810.4	4727.8	4656.9	4618.6	4639.2
5°	5359.3	5197.0	4949.1	4698.2	4444.4	4205.4	3990.0	3845.4	3715.5	3647.6	3662.4
7.5°	5264.9	5046.5	4659.9	4249.7	3842.4	3432.2	3098.7	2839.0	2638.3	2555.7	2540.9
10°	5223.6	4949.1	4403.1	3812.9	3187.3	2635.4	2163.2	1876.9	1673.3	1573.0	1590.7
12.5°	5244.2	4898.9	4184.7	3385.0	2573.4	1930.1	1478.5	1210.0	1065.4	1006.3	991.6
15°	5303.2	4887.1	3990.0	2948.2	1986.1	1348.7	1021.1	911.9	882.4	876.5	876.5
17.5°	5371.1	4890.1	3789.3	2505.5	1508.0	1000.4	873.5	852.9	844.0	838.1	841.1
20°	5439.0	4890.1	3559.1	2057.0	1133.2	864.7	832.2	817.5	808.6	805.7	805.7
22.5°	5521.6	4890.1	3302.3	1640.8	909.0	820.4	793.9	785.0	776.2	773.2	770.3
25°	5622.0	4893.0	3019.0	1283.8	826.3	782.1	761.4	752.5	743.7	737.8	737.8
27.5°	5766.6	4916.6	2706.2	1000.4	779.1	746.6	728.9	720.1	711.2	702.4	702.4
30°	5976.1	4975.7	2355.0	826.3	734.8	708.3	690.6	684.7	675.8	667.0	664.0
32.5°	6288.9	5078.9	1992.0	740.7	693.5	667.0	646.3	640.4	631.5	622.7	619.7
35°	6725.7	5267.8	1637.9	687.6	640.4	613.8	602.0	599.1	587.3	578.4	578.4
37.5°	7366.1	5574.7	1298.5	634.5	596.1	575.5	560.7	554.8	543.0	534.2	531.2
40°	8148.2	5973.2	1009.3	593.2	554.8	534.2	519.4	510.6	495.8	484.0	478.1
42.5°	9145.6	6460.1	796.8	548.9	516.5	495.8	484.0	466.3	445.6	427.9	425.0
45°	10184.5	6961.8	658.1	507.6	481.0	463.3	448.6	425.0	395.5	374.8	368.9
47.5°	10981.3	7274.6	575.5	463.3	442.7	427.9	410.2	380.7	345.3	321.7	315.8
50°	11550.8	7321.8	513.5	422.0	410.2	395.5	368.9	333.5	295.1	271.5	265.6
52.5°	11831.2	7109.3	463.3	383.7	374.8	360.0	327.6	289.2	247.9	224.3	218.4
55°	11958.1	6708.0	416.1	351.2	339.4	321.7	286.3	244.9	203.6	183.0	177.1
57.5°	11907.9	6114.8	374.8	318.7	304.0	283.3	244.9	200.7	168.2	147.6	144.6
60°	11536.1	5282.6	333.5	286.3	268.6	244.9	206.6	165.3	135.8	121.0	118.0
62.5°	10733.4	4249.7	292.2	247.9	236.1	212.5	177.1	135.8	112.1	103.3	100.3
65°	9089.6	3004.3	250.8	209.5	203.6	180.0	147.6	112.1	97.4	91.5	88.5
67.5°	6533.9	1826.8	212.5	180.0	174.1	153.5	123.9	97.4	88.5	85.6	85.6
70°	3284.6	864.7	168.2	147.6	147.6	126.9	106.2	88.5	85.6	82.6	82.6
72.5°	1115.5	368.9	126.9	115.1	121.0	109.2	91.5	82.6	82.6	82.6	82.6
75°	380.7	194.8	88.5	82.6	88.5	88.5	79.7	79.7	82.6	82.6	82.6
77.5°	247.9	129.9	62.0	56.1	67.9	67.9	67.9	73.8	79.7	79.7	79.7
80°	203.6	70.8	41.3	38.4	50.2	50.2	56.1	67.9	73.8	73.8	73.8
82.5°	174.1	44.3	23.6	26.6	35.4	38.4	47.2	56.1	64.9	67.9	67.9
85°	118.0	23.6	17.7	20.7	23.6	29.5	38.4	47.2	53.1	59.0	59.0
87.5°	32.5	8.9	11.8	14.8	14.8	20.7	29.5	35.4	41.3	44.3	44.3
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)