

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: P641305

Luminaire Tested: GWS-SA5F-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26777.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

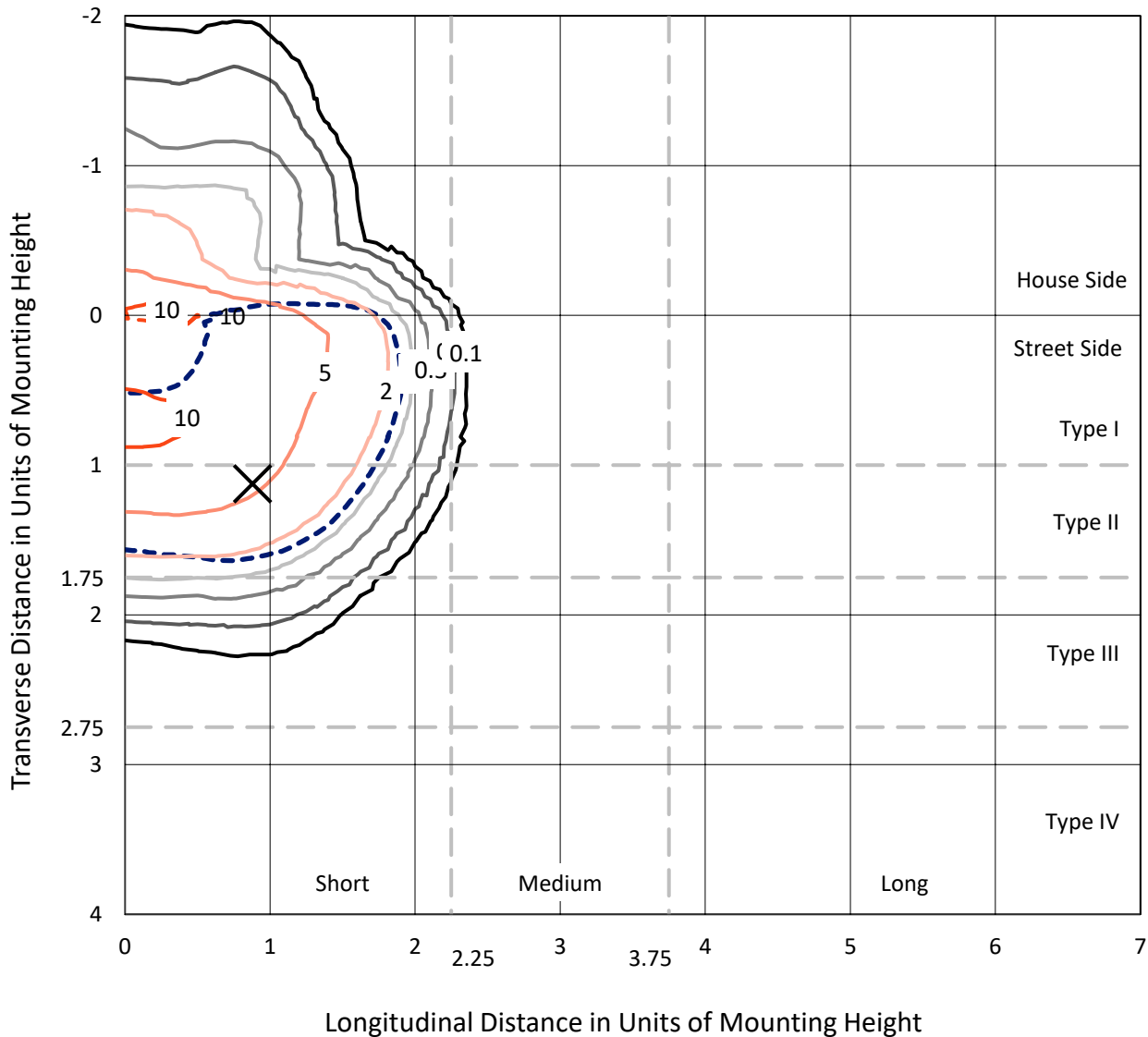
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

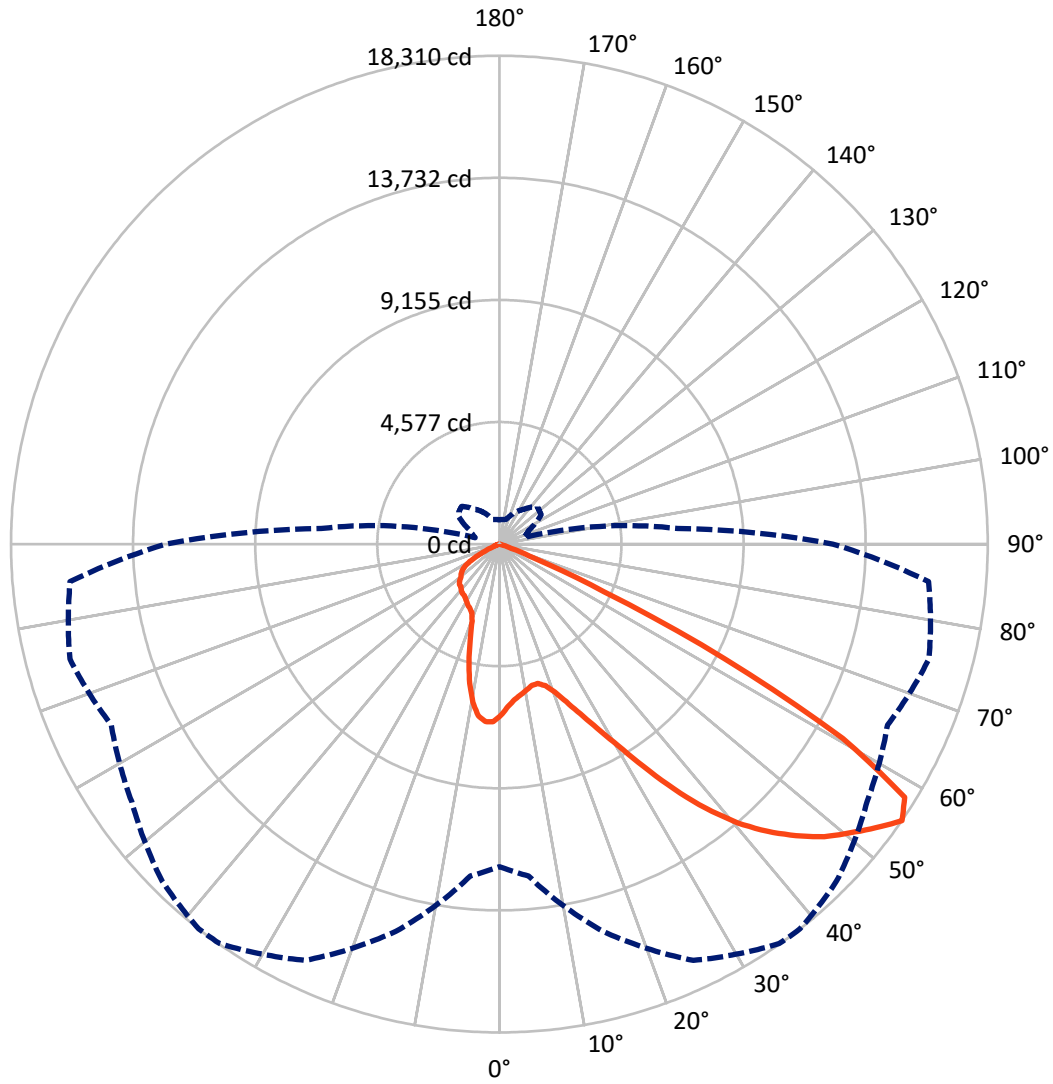
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5217.2	0.0	5217.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21560.7	0.0	21560.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	26777.8	0.0	26777.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.8	2.2
10°-20°	1598.5	6.0
20°-30°	2743.0	10.2
30°-40°	4549.5	17.0
40°-50°	6688.0	25.0
50°-60°	7815.1	29.2
60°-70°	2649.1	9.9
70°-80°	135.4	0.5
80°-90°	5.3	0.0
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°	26777.8	100.0
0°-180°	26777.8	100.0

Coefficient of Utilization



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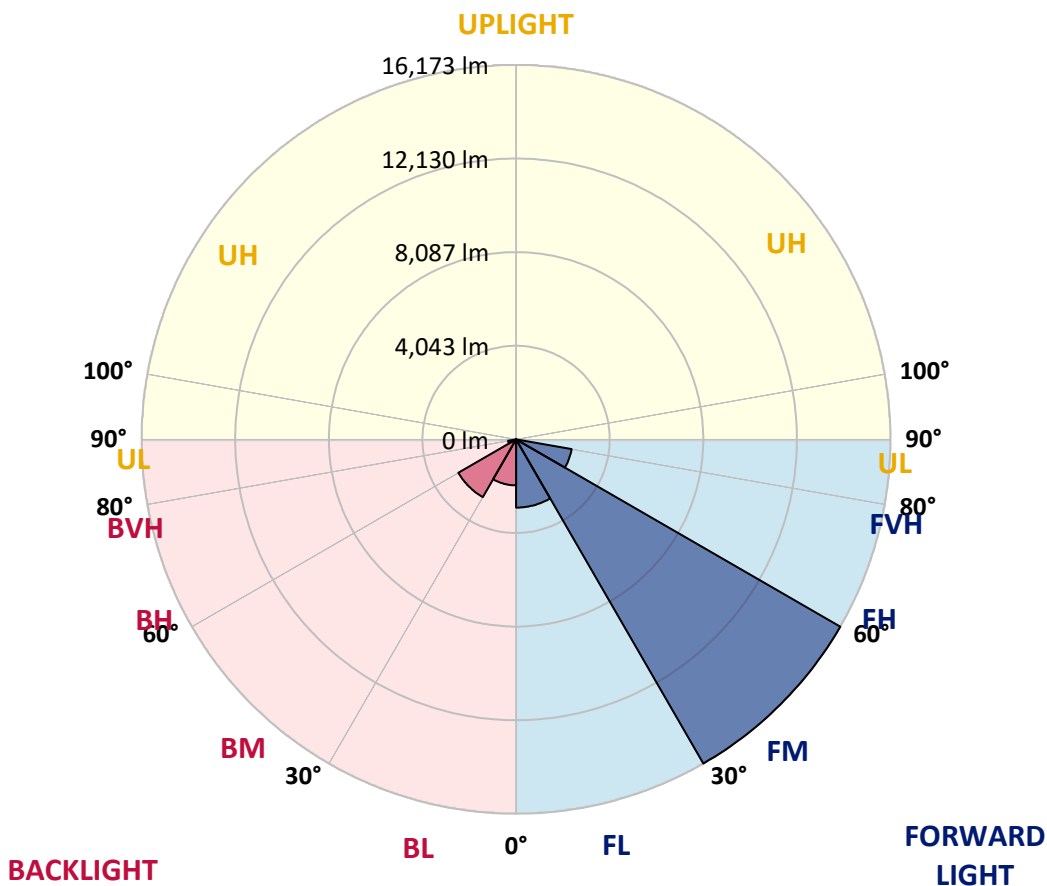
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2947.6	11.0			
FM (30°-60°)	16173.0	60.4			
FH (60°-80°)	2437.2	9.1			G2/5000
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1987.7	7.4	B3/2500		
BM (30°-60°)	2879.7	10.8	B3/5000		
BH (60°-80°)	347.3	1.3	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5
2.5°	5980.8	5968.5	5993.0	6042.0	6087.9	6103.2	6149.1	6213.4	6253.2	6348.1	6424.6
5°	5711.4	5705.3	5729.8	5772.6	5833.9	5855.3	5925.7	6032.8	6139.9	6305.2	6467.4
7.5°	5466.6	5463.5	5500.2	5595.1	5683.9	5711.4	5797.1	5928.7	6072.6	6326.6	6565.4
10°	5145.2	5148.2	5218.6	5353.3	5515.5	5570.6	5708.4	5898.1	6084.8	6412.3	6742.9
12.5°	5041.1	5047.2	5084.0	5188.0	5365.6	5435.9	5628.8	5916.5	6155.2	6534.8	6972.5
15°	5295.2	5295.2	5264.5	5276.8	5356.4	5420.6	5622.7	5977.7	6274.6	6681.7	7199.0
17.5°	5787.9	5769.6	5693.1	5589.0	5561.4	5582.9	5745.1	6109.3	6442.9	6853.1	7456.1
20°	6455.2	6461.3	6311.3	6094.0	5919.6	5916.5	6014.4	6341.9	6684.7	7058.2	7734.6
22.5°	7263.2	7238.8	7039.8	6742.9	6439.9	6415.4	6455.2	6697.0	7033.7	7382.6	8077.4
25°	8199.8	8187.6	7906.0	7508.1	7107.1	7049.0	7049.0	7287.7	7532.6	7844.8	8487.5
27.5°	9179.3	9179.3	8906.9	8447.8	7915.2	7811.1	7795.8	8077.4	8239.6	8300.8	8833.4
30°	10186.3	10174.0	9904.7	9433.3	8864.0	8756.9	8714.0	8922.2	9038.5	8854.8	9265.0
32.5°	11208.6	11230.0	10957.6	10519.9	10011.8	9941.4	9809.8	9809.8	9904.7	9647.6	9944.5
35°	12307.4	12301.3	12087.0	11790.1	11355.5	11275.9	11058.6	10718.9	10862.7	10749.5	10884.1
37.5°	13277.7	13323.6	13219.5	12999.1	12647.2	12567.6	12209.5	11594.2	11704.4	11882.0	12001.3
40°	14263.2	14300.0	14404.0	14333.6	13889.8	13742.9	13106.3	12096.2	12218.6	12827.7	13170.5
42.5°	15230.5	15248.8	15460.0	15576.3	14982.5	14725.4	13785.8	12402.3	12530.8	13568.4	14168.4
45°	15845.7	15885.5	16234.4	16589.4	15946.7	15594.7	14376.5	12794.1	12849.2	14082.7	14906.0
47.5°	15821.2	15913.0	16568.0	17213.8	16776.1	16396.6	15086.6	13421.5	13329.7	14566.3	15392.7
50°	15328.4	15438.6	16378.2	17403.6	17373.0	17021.0	15876.3	14330.6	14042.9	14994.8	15453.9
52.5°	14306.1	14624.4	16044.6	17428.1	17853.5	17676.0	16852.7	15554.9	15007.0	15610.0	15551.8
55°	12096.2	12488.0	15031.5	17220.0	18288.2	18309.6	17878.0	16831.2	16053.8	16669.0	16154.8
57.5°	9182.3	9494.5	11569.8	15328.4	17568.9	17920.9	18275.9	17504.6	16699.6	17391.4	16295.6
60°	5533.9	5895.1	7244.9	11248.4	14189.8	14789.7	16182.4	16032.4	15062.1	15359.0	13363.4
62.5°	2243.6	2433.3	3345.4	6198.1	8931.4	9491.5	10826.0	11052.5	10813.7	10510.7	8105.0
65°	820.3	896.8	1340.6	2561.9	4107.6	4312.6	5016.6	5417.6	5748.1	4894.2	3014.9
67.5°	508.1	557.1	872.3	1316.1	1493.7	1389.6	1414.1	1686.5	1610.0	994.8	538.7
70°	376.5	416.3	682.6	912.1	603.0	465.2	315.3	336.7	303.0	266.3	263.2
72.5°	260.2	296.9	511.2	538.7	232.6	165.3	116.3	162.2	183.6	180.6	186.7
75°	171.4	199.0	321.4	211.2	58.2	45.9	39.8	85.7	110.2	110.2	113.2
77.5°	101.0	116.3	113.2	42.9	12.2	12.2	9.2	15.3	24.5	27.5	33.7
80°	12.2	9.2	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2	9.2
82.5°	3.1	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2
85°	0.0	0.0	3.1	3.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2
87.5°	0.0	0.0	3.1	3.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2
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°	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5	6421.5
2.5°	6482.7	6461.3	6550.1	6614.4	6666.4	6690.9	6657.2	6654.1	6654.1	6586.8	6568.4
5°	6559.3	6568.4	6693.9	6749.0	6758.2	6727.6	6651.1	6599.0	6568.4	6498.0	6458.3
7.5°	6706.2	6736.8	6856.2	6847.0	6764.3	6623.5	6421.5	6265.4	6164.4	6054.2	5986.9
10°	6917.4	6975.5	7049.0	6920.4	6657.2	6299.1	5882.8	5585.9	5408.4	5282.9	5206.4
12.5°	7174.5	7232.6	7208.1	6905.1	6357.2	5717.5	5181.9	4753.4	4548.3	4435.1	4355.5
15°	7434.6	7471.4	7312.2	6721.5	5827.7	4967.6	4370.8	3945.3	3694.4	3602.5	3535.2
17.5°	7700.9	7691.7	7330.6	6360.3	5120.7	4122.9	3535.2	3244.4	3174.0	3158.7	3152.6
20°	7979.5	7896.8	7257.1	5843.0	4269.8	3287.3	2953.7	2972.0	3100.6	3161.8	3174.0
22.5°	8297.8	8089.6	7073.5	5142.1	3400.5	2739.4	2773.1	2953.7	3128.1	3210.8	3223.0
25°	8637.5	8267.2	6767.4	4242.2	2681.2	2519.0	2718.0	2926.1	3112.8	3213.8	3226.1
27.5°	8861.0	8310.0	6265.4	3336.3	2301.7	2433.3	2644.5	2843.5	3036.3	3146.5	3161.8
30°	9102.8	8291.7	5582.9	2571.1	2173.2	2359.9	2543.5	2724.1	2901.6	3024.1	3036.3
32.5°	9457.8	8279.4	4750.3	2087.5	2121.1	2301.7	2436.4	2586.4	2708.8	2779.2	2770.0
35°	9923.1	8264.1	3780.1	1882.4	2090.5	2255.8	2362.9	2433.3	2298.6	2255.8	2265.0
37.5°	10519.9	8300.8	2962.8	1796.7	2081.3	2243.6	2335.4	2133.4	1925.2	1845.7	1833.4
40°	11181.0	8395.7	2258.9	1763.0	2111.9	2274.2	2231.3	1897.7	1640.6	1484.5	1450.8
42.5°	11845.2	8499.8	1787.5	1750.8	2164.0	2359.9	2059.9	1726.3	1340.6	1251.9	1239.6
45°	12338.0	8481.4	1545.7	1729.3	2209.9	2408.8	2014.0	1481.4	1196.8	1157.0	1160.0
47.5°	12585.9	8279.4	1414.1	1680.4	2228.2	2359.9	1900.7	1380.4	1098.8	1141.7	1178.4
50°	12454.3	7756.0	1291.7	1585.5	2188.5	2295.6	1720.2	1303.9	1049.8	1227.4	1310.0
52.5°	12295.2	7113.3	1157.0	1438.6	2093.6	2206.8	1649.8	1282.5	1019.2	1184.5	1245.7
55°	12506.4	6706.2	936.6	1212.1	1906.9	1998.7	1594.7	1279.4	948.8	921.3	912.1
57.5°	12209.5	5895.1	670.3	872.3	1463.1	1582.4	1554.9	1258.0	841.7	838.7	850.9
60°	9436.4	3596.4	459.1	554.0	896.8	1010.1	1411.0	1202.9	725.4	667.3	670.3
62.5°	5362.5	1530.4	315.3	342.8	459.1	544.8	1077.4	1092.7	670.3	636.6	670.3
65°	1867.1	547.9	244.9	229.6	254.0	290.8	618.3	844.8	609.1	550.9	557.1
67.5°	385.7	272.4	217.3	189.8	189.8	189.8	315.3	526.5	502.0	437.7	443.8
70°	244.9	232.6	189.8	162.2	156.1	143.9	180.6	290.8	345.9	318.3	321.4
72.5°	180.6	177.5	150.0	131.6	116.3	104.1	113.2	143.9	177.5	183.6	186.7
75°	110.2	113.2	97.9	82.6	73.5	64.3	67.3	67.3	67.3	61.2	67.3
77.5°	33.7	36.7	30.6	24.5	21.4	21.4	21.4	18.4	15.3	9.2	9.2
80°	9.2	9.2	9.2	9.2	9.2	6.1	6.1	3.1	3.1	0.0	0.0
82.5°	9.2	9.2	9.2	9.2	6.1	6.1	3.1	3.1	0.0	0.0	0.0
85°	9.2	9.2	9.2	9.2	6.1	6.1	3.1	3.1	0.0	0.0	0.0
87.5°	9.2	9.2	9.2	9.2	6.1	6.1	3.1	3.1	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)