

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: P639755

Luminaire Tested: GWS-SA5C-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639755
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-SA5C-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17837 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

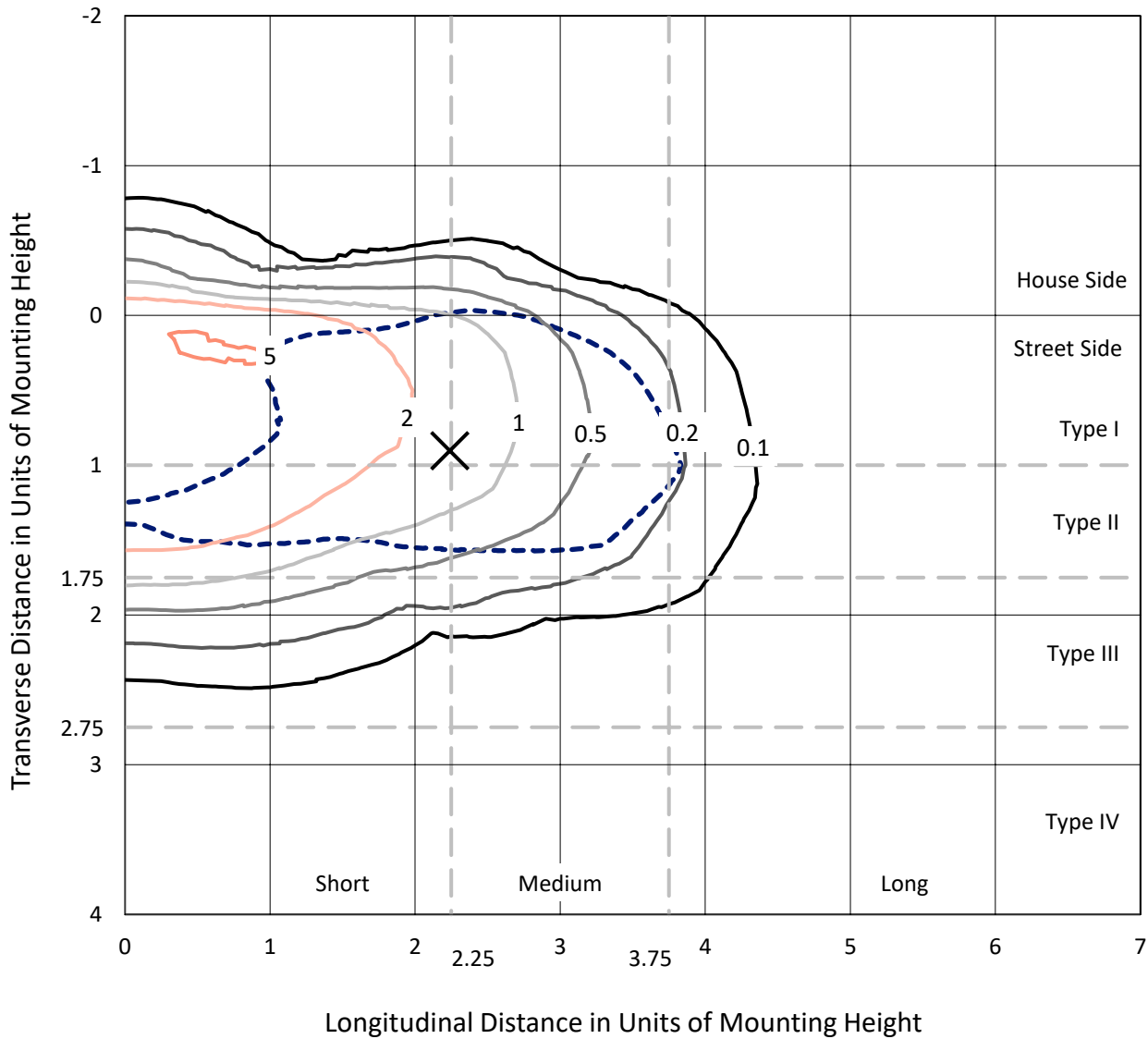
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

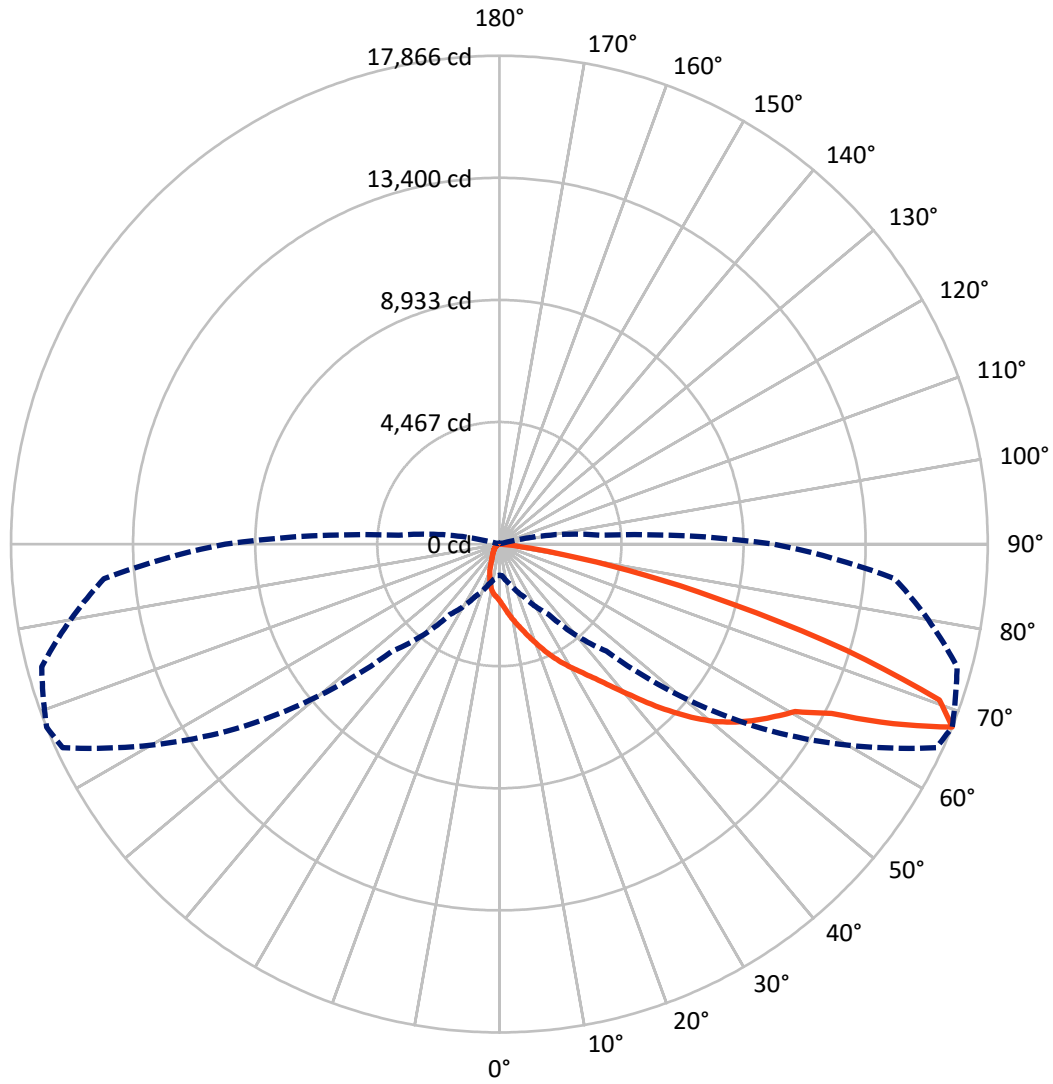
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1288.0	0.0	1288.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16548.9	0.0	16548.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	17837.0	0.0	17837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	1.1
10°-20°	581.4	3.3
20°-30°	999.1	5.6
30°-40°	1737.1	9.7
40°-50°	3031.0	17.0
50°-60°	4571.5	25.6
60°-70°	4584.0	25.7
70°-80°	2022.5	11.3
80°-90°	108.0	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°	17837.0	100.0
0°-180°	17837.0	100.0

Coefficient of Utilization



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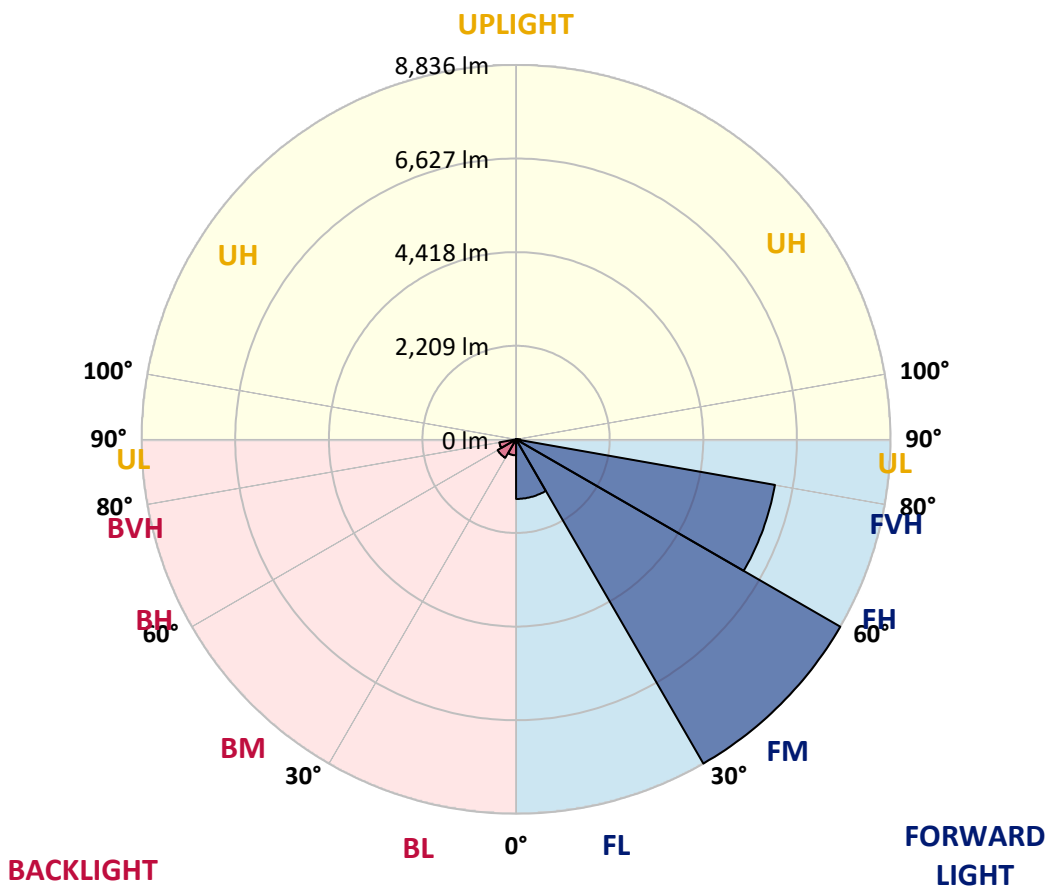
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.1	7.9			
FM (30°-60°)	8836.4	49.5			
FH (60°-80°)	6204.5	34.8			G3/7500
FVH (80°-90°)	101.9	0.6			G2/225
BL (0°-30°)	376.8	2.1	B1/500		
BM (30°-60°)	503.1	2.8	B1/1000		
BH (60°-80°)	402.0	2.3	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2417.2	2432.5	2417.2	2420.6	2376.2	2355.7	2311.3	2249.9	2234.5	2195.3	2135.5
5°	2712.5	2726.2	2710.8	2707.4	2656.2	2618.6	2545.2	2439.4	2408.6	2331.8	2214.0
7.5°	2873.0	2881.5	2886.6	2895.2	2876.4	2845.7	2779.1	2647.6	2615.2	2490.6	2325.0
10°	2890.0	2896.9	2922.5	2973.7	3011.2	3030.0	2992.5	2871.3	2820.0	2698.8	2461.6
12.5°	2842.2	2852.5	2893.5	2978.8	3082.9	3178.5	3202.4	3096.6	3050.5	2895.2	2622.0
15°	2779.1	2787.6	2843.9	2960.0	3117.1	3292.9	3391.9	3345.8	3294.6	3132.4	2799.6
17.5°	2681.8	2693.7	2772.2	2929.3	3132.4	3383.4	3596.8	3612.1	3576.3	3400.4	2995.9
20°	2627.2	2635.7	2705.7	2867.8	3122.2	3449.9	3787.9	3933.0	3893.8	3709.4	3221.2
22.5°	2673.2	2680.1	2726.2	2852.5	3088.1	3487.5	3965.5	4254.0	4231.8	4040.6	3458.5
25°	2915.6	2937.8	2910.5	2932.7	3103.4	3508.0	4108.9	4574.9	4580.0	4387.1	3704.3
27.5°	3407.3	3378.3	3313.4	3202.4	3222.9	3562.6	4231.8	4877.0	4921.4	4725.1	3922.8
30°	3907.4	3890.4	3851.1	3678.7	3535.3	3683.8	4335.9	5186.0	5256.0	5058.0	4117.4
32.5°	4469.1	4486.1	4416.1	4209.6	3965.5	3929.6	4443.5	5479.6	5611.1	5435.2	4346.2
35°	5139.9	5145.0	5006.8	4778.0	4501.5	4335.9	4636.3	5804.0	6046.4	5916.6	4651.7
37.5°	5793.7	5824.5	5749.3	5389.2	5143.3	4841.2	4955.6	6220.5	6561.9	6510.7	5035.8
40°	6372.4	6420.2	6396.3	6048.1	5725.4	5471.1	5450.6	6708.7	7185.0	7243.0	5542.8
42.5°	6833.3	6864.0	6882.8	6635.3	6350.2	6206.8	6061.7	7275.4	7920.7	8158.0	6164.2
45°	7319.8	7330.1	7369.3	7202.0	6952.8	6964.8	6783.8	7963.4	8695.7	9172.0	6877.7
47.5°	7939.5	7973.6	7954.9	7779.0	7553.7	7688.6	7529.8	8671.8	9460.5	10254.3	7608.3
50°	8694.0	8729.9	8712.8	8507.9	8257.0	8313.3	8214.3	9359.8	10197.9	11275.1	8216.0
52.5°	9083.2	9112.2	9323.9	9416.1	9284.6	8926.2	8798.1	10116.0	10821.0	12114.9	8774.2
55°	8895.4	8915.9	9376.8	9766.0	10247.4	9888.9	9385.4	10699.8	11370.7	12770.4	9189.1
57.5°	8117.0	8228.0	8854.5	9513.4	10525.7	10839.8	10337.9	11334.8	11899.8	13226.2	9597.0
60°	6520.9	6515.8	7413.7	8596.7	9982.8	11100.9	11683.1	12193.5	12430.7	13576.2	10143.3
62.5°	3603.6	3636.0	4831.0	6389.5	8473.8	10425.0	12691.9	13676.9	13641.0	14187.3	10998.5
65°	1794.1	1859.0	2507.7	3659.9	5638.4	8615.5	12866.0	15940.4	15838.0	15626.3	12765.3
67.5°	1138.6	1164.2	1522.7	2127.0	3134.1	5537.7	11782.1	17628.7	17866.0	17333.4	14518.5
70°	737.4	780.1	1058.4	1454.4	1891.4	2854.2	8630.8	16534.5	17079.0	17145.6	13426.0
72.5°	401.2	431.9	676.0	1037.9	1365.6	1427.1	4848.0	12408.5	13284.3	14544.1	10503.5
75°	228.7	250.9	370.4	705.0	1002.0	868.9	2149.2	8306.5	8864.7	10394.2	7526.4
77.5°	138.3	157.0	208.3	343.1	628.2	580.4	812.6	5056.3	5411.3	6201.7	3950.1
80°	63.2	75.1	131.4	189.5	343.1	274.8	310.7	2357.4	2434.3	2545.2	1307.6
82.5°	29.0	34.1	59.7	112.7	194.6	158.8	119.5	544.5	766.5	725.5	332.9
85°	3.4	3.4	22.2	46.1	54.6	41.0	49.5	122.9	155.3	218.5	95.6
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	10.2	15.4	22.2	35.8	23.9
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°	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2108.2	2060.4	2017.7	1954.6	1911.9	1864.1	1831.7	1792.4	1777.0	1765.1	1748.0
5°	2156.0	2079.2	1975.1	1859.0	1763.4	1672.9	1589.3	1534.6	1486.8	1480.0	1456.1
7.5°	2234.5	2120.2	1944.3	1754.8	1592.7	1442.5	1324.7	1229.1	1181.3	1165.9	1138.6
10°	2338.7	2181.6	1898.2	1608.0	1374.2	1194.9	1061.8	954.2	879.1	851.8	831.3
12.5°	2454.7	2237.9	1824.8	1427.1	1160.8	955.9	787.0	672.6	624.8	607.7	592.3
15°	2587.9	2290.9	1708.8	1246.1	952.5	703.3	583.8	534.3	513.8	508.7	503.6
17.5°	2715.9	2325.0	1570.5	1058.4	732.3	546.3	489.9	471.1	466.0	460.9	457.5
20°	2861.0	2348.9	1408.3	880.8	568.4	462.6	435.3	421.6	411.4	401.2	399.4
22.5°	3009.5	2348.9	1232.5	706.7	476.3	414.8	384.1	358.5	339.7	329.5	326.0
25°	3151.2	2316.5	1058.4	565.0	419.9	368.7	329.5	300.4	274.8	262.9	259.5
27.5°	3251.9	2232.8	906.4	478.0	380.7	327.8	280.0	247.5	227.0	215.1	213.4
30°	3315.1	2108.2	766.5	426.8	346.5	285.1	237.3	210.0	194.6	186.1	182.7
32.5°	3362.9	1954.6	641.9	390.9	314.1	247.5	206.6	184.4	170.7	163.9	162.2
35°	3458.5	1809.5	549.7	358.5	280.0	216.8	180.9	163.9	153.6	145.1	143.4
37.5°	3591.6	1688.3	476.3	329.5	247.5	192.9	163.9	148.5	140.0	131.4	129.7
40°	3787.9	1611.5	421.6	300.4	218.5	174.1	150.2	136.6	124.6	116.1	114.4
42.5°	4090.1	1575.6	385.8	271.4	192.9	157.0	138.3	121.2	109.3	100.7	99.0
45°	4450.3	1594.4	355.1	242.4	175.8	145.1	122.9	105.8	93.9	85.4	83.6
47.5°	4836.1	1661.0	329.5	215.1	158.8	133.1	109.3	90.5	80.2	71.7	70.0
50°	5238.9	1770.2	307.3	189.5	145.1	119.5	93.9	78.5	68.3	61.5	59.7
52.5°	5588.9	1918.7	285.1	170.7	133.1	105.8	81.9	68.3	58.0	51.2	49.5
55°	5923.5	2058.7	268.0	153.6	119.5	92.2	71.7	58.0	49.5	42.7	41.0
57.5°	6287.1	2207.2	247.5	138.3	107.5	81.9	63.2	49.5	42.7	35.8	34.1
60°	6816.3	2427.4	216.8	126.3	93.9	71.7	54.6	44.4	37.6	29.0	27.3
62.5°	7579.3	2828.6	182.7	109.3	80.2	61.5	46.1	37.6	30.7	23.9	20.5
65°	9006.4	3511.4	150.2	90.5	64.9	51.2	39.3	30.7	23.9	17.1	15.4
67.5°	10034.0	3688.9	121.2	73.4	52.9	39.3	32.4	23.9	17.1	11.9	10.2
70°	8772.5	2649.3	93.9	59.7	44.4	30.7	25.6	18.8	11.9	8.5	6.8
72.5°	6609.7	1730.9	70.0	46.1	34.1	25.6	18.8	15.4	10.2	6.8	5.1
75°	4658.5	1000.3	51.2	34.1	23.9	18.8	15.4	11.9	8.5	5.1	5.1
77.5°	2388.2	413.1	35.8	23.9	17.1	11.9	10.2	6.8	6.8	5.1	3.4
80°	725.5	136.6	20.5	15.4	11.9	8.5	5.1	5.1	5.1	3.4	1.7
82.5°	165.6	44.4	11.9	11.9	8.5	6.8	5.1	1.7	1.7	0.0	0.0
85°	42.7	13.7	10.2	8.5	8.5	6.8	3.4	1.7	0.0	0.0	0.0
87.5°	15.4	8.5	8.5	8.5	6.8	5.1	3.4	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)