

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: P639712

Luminaire Tested: GWS-SA5C-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18385.5 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

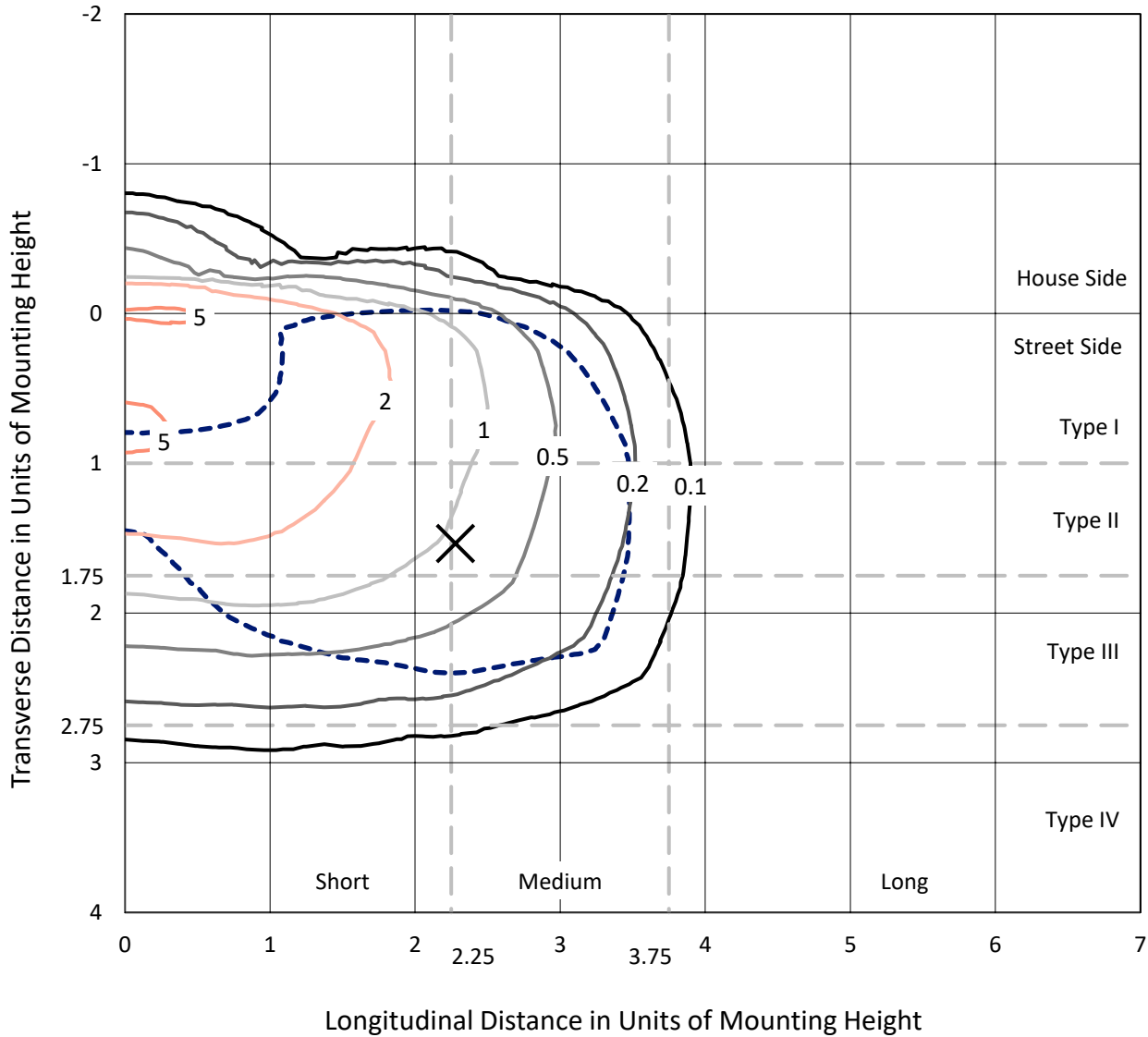
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

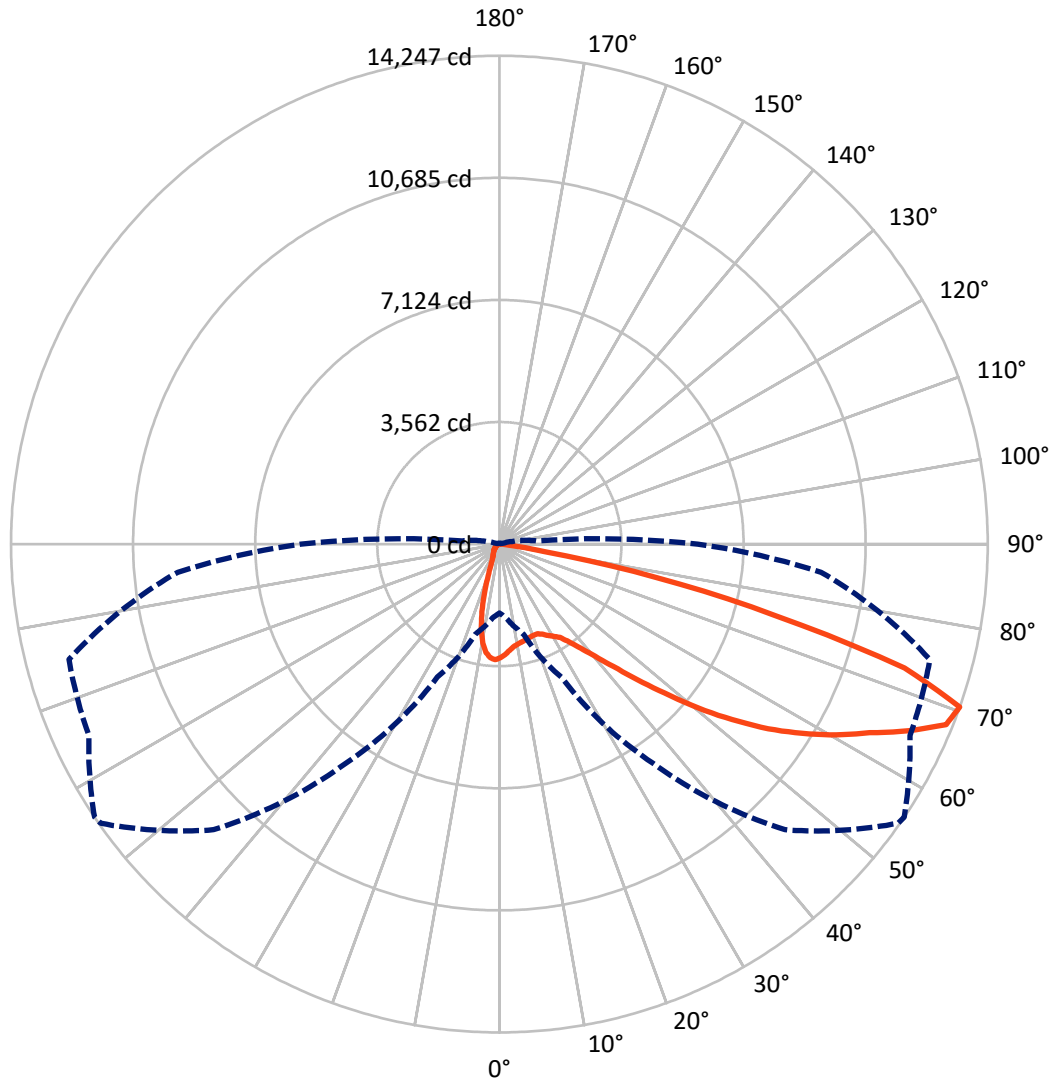
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1651.4	0.0	1651.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	16734.1	0.0	16734.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	18385.5	0.0	18385.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.5
10°-20°	640.2	3.5
20°-30°	1014.0	5.5
30°-40°	1748.7	9.5
40°-50°	2952.9	16.1
50°-60°	4338.8	23.6
60°-70°	5143.9	28.0
70°-80°	2193.6	11.9
80°-90°	68.9	0.4
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°	18385.5	100.0
0°-180°	18385.5	100.0

Coefficient of Utilization



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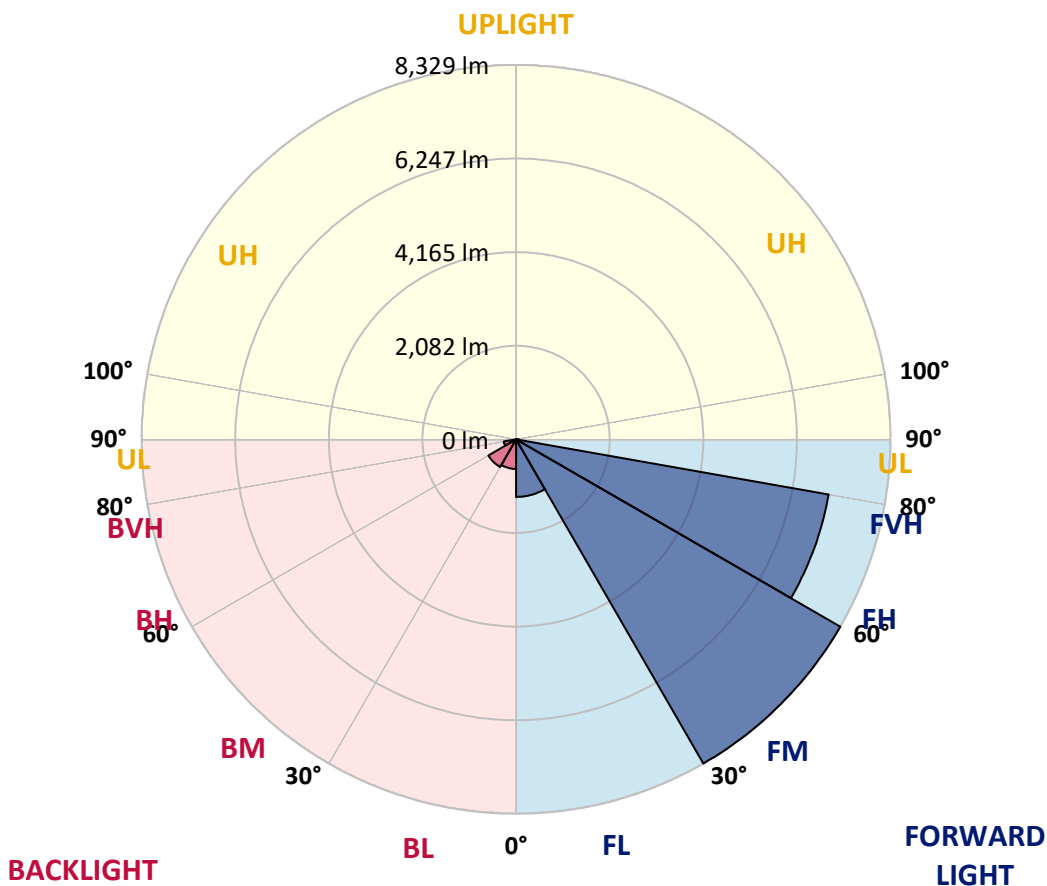
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.1	7.0			
FM (30°-60°)	8329.1	45.3			
FH (60°-80°)	7062.0	38.4			G3/7500
FVH (80°-90°)	61.9	0.3			G1/100
BL (0°-30°)	657.7	3.6	B2/1000		
BM (30°-60°)	711.3	3.9	B1/1000		
BH (60°-80°)	275.4	1.5	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3086.1	3081.1	3084.4	3109.7	3156.8	3178.7	3215.8	3222.5	3252.8	3291.5	3306.7
5°	2885.8	2868.9	2877.3	2912.7	2966.6	3027.2	3096.2	3114.7	3190.5	3276.4	3340.3
7.5°	2702.2	2683.7	2703.9	2759.5	2835.3	2900.9	3003.6	3015.4	3136.6	3288.2	3404.3
10°	2414.3	2419.4	2459.8	2557.5	2673.6	2810.0	2948.1	2964.9	3114.7	3326.9	3507.0
12.5°	2193.8	2182.0	2225.8	2336.9	2500.2	2698.9	2906.0	2927.9	3116.4	3385.8	3638.3
15°	2091.1	2087.7	2106.2	2187.1	2345.3	2579.3	2867.2	2895.9	3138.3	3439.7	3762.9
17.5°	2094.5	2089.4	2087.7	2134.9	2252.7	2490.1	2825.2	2862.2	3156.8	3498.6	3894.3
20°	2240.9	2217.4	2175.3	2153.4	2224.1	2432.9	2796.5	2838.6	3183.8	3560.9	4034.0
22.5°	2547.3	2555.8	2443.0	2325.1	2291.4	2439.6	2793.2	2842.0	3242.7	3658.6	4205.7
25°	3160.2	3146.7	2938.0	2673.6	2490.1	2517.0	2852.1	2911.0	3358.9	3798.3	4367.4
27.5°	3927.9	3939.7	3653.5	3232.6	2848.7	2677.0	2959.8	3018.8	3493.6	3885.8	4475.1
30°	4764.7	4752.9	4446.5	3980.1	3357.2	2943.0	3067.6	3119.8	3560.9	3933.0	4586.2
32.5°	5556.0	5529.1	5226.0	4737.8	4005.4	3362.2	3215.8	3246.1	3650.1	4035.7	4736.1
35°	6231.2	6229.5	5965.1	5444.9	4672.1	3887.5	3470.0	3495.2	3816.8	4199.0	4956.6
37.5°	6928.2	6904.6	6608.3	6133.5	5357.3	4463.3	3858.9	3848.8	4079.5	4439.8	5227.7
40°	7500.6	7485.5	7258.2	6801.9	6069.5	5099.8	4330.3	4300.0	4390.9	4773.1	5604.8
42.5°	7924.9	7926.6	7855.9	7578.1	6823.8	5835.5	4923.0	4875.8	4874.1	5276.5	6103.2
45°	8246.5	8268.4	8374.4	8332.3	7714.4	6692.5	5682.3	5633.5	5551.0	5929.8	6674.0
47.5°	8396.3	8424.9	8744.8	8913.2	8494.0	7542.7	6586.4	6483.7	6322.1	6798.5	7312.1
50°	8381.2	8431.7	8877.8	9389.7	9201.1	8404.7	7571.3	7522.5	7258.2	7717.8	7943.4
52.5°	8037.7	8145.5	8886.3	9679.3	9744.9	9199.4	8589.9	8499.0	8371.1	8677.5	8536.1
55°	7105.0	7236.3	8531.0	9771.9	10169.2	9893.1	9586.7	9512.6	9300.4	9583.3	9052.9
57.5°	6598.2	6711.0	7783.5	9726.4	10529.5	10534.5	10473.9	10413.3	10238.2	10479.0	9659.1
60°	6293.5	6406.3	7384.5	9559.7	10856.1	11211.4	11307.3	11300.6	11048.1	11497.6	10369.5
62.5°	5847.3	6002.2	6968.6	9127.0	11088.5	11878.1	12167.7	12122.2	11841.1	12558.3	11073.3
65°	4946.5	5081.2	6116.7	8413.2	10952.1	12430.3	13100.4	13124.0	12799.0	13556.7	11628.9
67.5°	3468.3	3567.6	4596.3	6914.7	10026.1	12612.2	14055.0	14053.4	13499.4	14068.5	11383.1
70°	2010.3	2146.6	2715.7	4274.8	7800.3	11785.5	14198.2	14247.0	13214.9	12999.4	9420.0
72.5°	777.8	890.6	1538.8	2271.2	4067.7	9027.7	12213.1	12356.2	11059.8	10027.8	6556.1
75°	232.3	259.3	724.0	1208.9	1633.1	4360.6	8268.4	8308.8	7586.5	6254.7	3360.5
77.5°	173.4	191.9	316.5	611.2	572.4	1321.7	4278.1	4672.1	4027.3	2234.2	926.0
80°	117.9	139.7	225.6	298.0	212.1	351.9	1202.1	1320.0	1229.1	501.7	232.3
82.5°	52.2	67.3	159.9	149.8	77.4	101.0	370.4	394.0	254.2	151.5	80.8
85°	5.1	6.7	60.6	65.7	28.6	23.6	77.4	77.4	55.6	52.2	33.7
87.5°	0.0	0.0	1.7	3.4	3.4	5.1	6.7	8.4	10.1	13.5	16.8
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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3345.4	3325.2	3350.4	3370.7	3375.7	3338.7	3316.8	3284.8	3278.1	3279.7	3271.3
5°	3390.9	3380.8	3399.3	3377.4	3320.1	3212.4	3119.8	3017.1	2961.5	2929.5	2926.2
7.5°	3475.0	3470.0	3449.8	3350.4	3172.0	2932.9	2702.2	2476.6	2336.9	2286.4	2278.0
10°	3599.6	3589.5	3507.0	3271.3	2890.8	2431.2	2043.9	1720.7	1523.7	1466.5	1395.7
12.5°	3742.7	3722.5	3542.4	3101.3	2466.5	1830.1	1346.9	984.9	814.9	764.4	764.4
15°	3880.8	3837.0	3522.2	2820.1	1944.6	1190.3	752.6	569.1	516.9	503.4	503.4
17.5°	4022.2	3938.0	3443.0	2436.2	1343.5	703.8	501.7	466.4	459.6	461.3	463.0
20°	4155.2	4023.9	3303.3	1974.9	857.0	491.6	449.5	441.1	437.7	441.1	439.4
22.5°	4300.0	4103.0	3091.2	1471.5	557.3	442.8	427.6	420.9	417.5	422.6	422.6
25°	4443.1	4160.3	2810.0	990.0	442.8	412.5	404.1	397.3	394.0	395.7	395.7
27.5°	4517.2	4138.4	2441.3	631.4	397.3	382.2	373.8	365.4	360.3	358.6	360.3
30°	4567.7	4071.0	1990.1	449.5	360.3	341.8	333.4	326.6	313.2	304.7	308.1
32.5°	4646.9	4003.7	1500.1	377.1	330.0	301.4	287.9	271.1	252.5	244.1	244.1
35°	4741.1	3911.1	1052.3	340.1	298.0	267.7	242.4	213.8	191.9	185.2	185.2
37.5°	4865.7	3823.6	700.4	314.8	271.1	239.1	203.7	170.0	146.5	143.1	141.4
40°	5052.6	3749.5	493.3	296.3	247.5	208.8	166.7	131.3	114.5	109.4	109.4
42.5°	5295.1	3673.7	390.6	277.8	227.3	180.1	133.0	104.4	90.9	87.5	85.9
45°	5594.7	3584.5	340.1	261.0	207.1	149.8	106.1	87.5	77.4	74.1	74.1
47.5°	5919.7	3463.3	316.5	239.1	183.5	121.2	89.2	75.8	70.7	69.0	67.3
50°	6239.6	3299.9	296.3	218.9	156.6	99.3	77.4	69.0	65.7	64.0	64.0
52.5°	6519.1	3109.7	271.1	195.3	128.0	85.9	69.0	64.0	60.6	57.2	55.6
55°	6758.1	2902.6	239.1	168.4	104.4	75.8	64.0	58.9	55.6	52.2	50.5
57.5°	7066.2	2784.7	191.9	136.4	85.9	67.3	58.9	53.9	50.5	45.5	45.5
60°	7408.0	2698.9	143.1	107.8	74.1	62.3	53.9	48.8	45.5	40.4	40.4
62.5°	7682.5	2570.9	112.8	87.5	64.0	55.6	48.8	43.8	40.4	35.4	35.4
65°	7786.8	2306.6	92.6	69.0	52.2	48.8	43.8	40.4	35.4	30.3	30.3
67.5°	7315.4	1777.9	77.4	55.6	43.8	42.1	38.7	37.0	30.3	26.9	25.3
70°	5793.4	1084.3	64.0	45.5	37.0	35.4	35.4	32.0	26.9	25.3	23.6
72.5°	3970.0	559.0	52.2	37.0	32.0	32.0	30.3	28.6	25.3	23.6	23.6
75°	2062.5	186.9	40.4	28.6	25.3	26.9	26.9	25.3	23.6	23.6	21.9
77.5°	591.0	84.2	30.3	21.9	20.2	20.2	21.9	21.9	21.9	20.2	20.2
80°	153.2	48.8	21.9	16.8	16.8	16.8	16.8	18.5	20.2	18.5	18.5
82.5°	62.3	26.9	15.2	13.5	13.5	13.5	13.5	15.2	16.8	16.8	16.8
85°	38.7	13.5	11.8	11.8	11.8	10.1	10.1	11.8	11.8	13.5	13.5
87.5°	23.6	10.1	10.1	10.1	10.1	8.4	8.4	8.4	8.4	8.4	8.4
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)