

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: P637212

Luminaire Tested: GWS-SA4C-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637212
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-SA4C-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15085.1 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

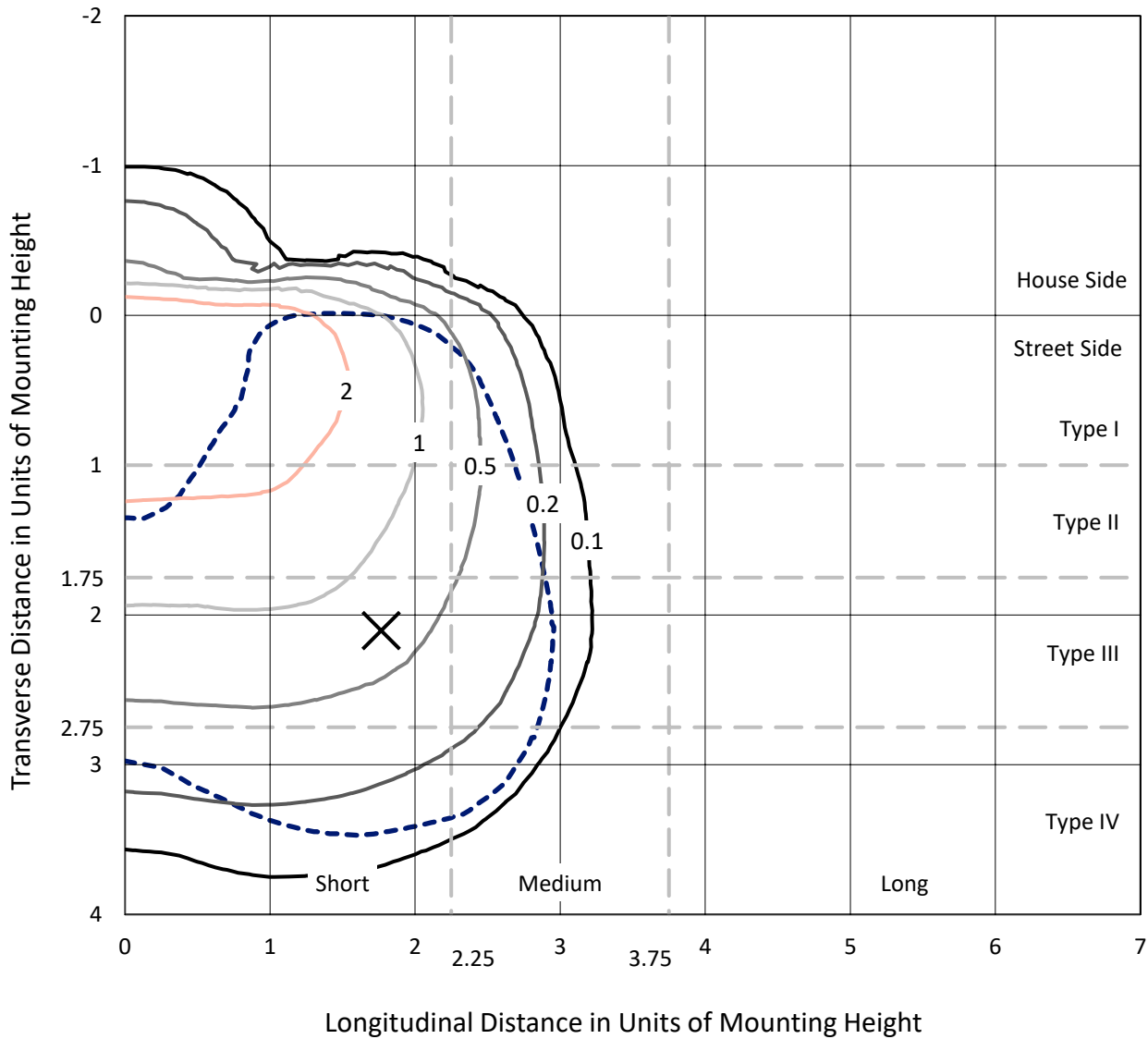
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

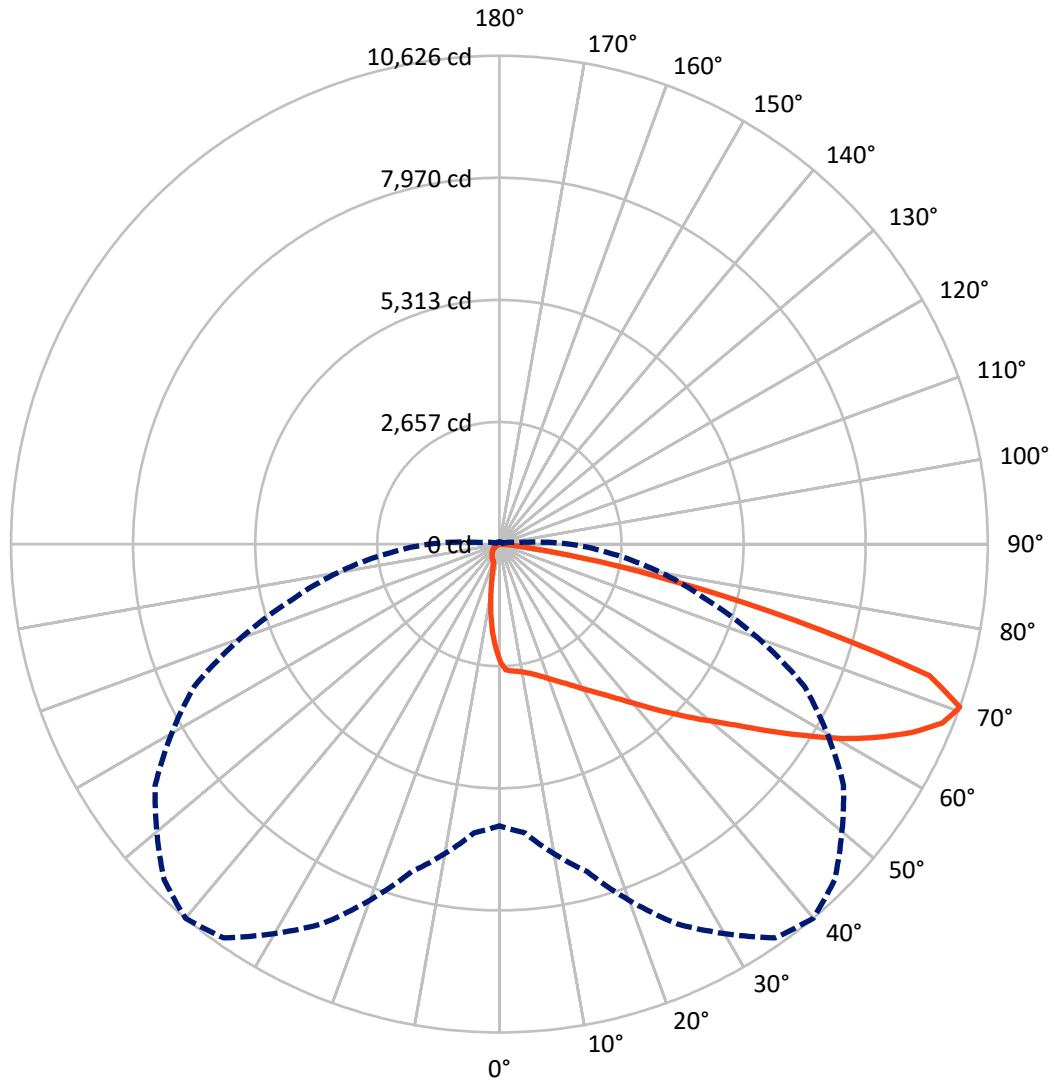
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1233.6	0.0	1233.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	13851.5	0.0	13851.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	15085.1	0.0	15085.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.4
10°-20°	548.7	3.6
20°-30°	918.4	6.1
30°-40°	1442.4	9.6
40°-50°	2281.6	15.1
50°-60°	3328.2	22.1
60°-70°	4125.8	27.4
70°-80°	2087.4	13.8
80°-90°	136.3	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°	15085.1	100.0
0°-180°	15085.1	100.0

Coefficient of Utilization



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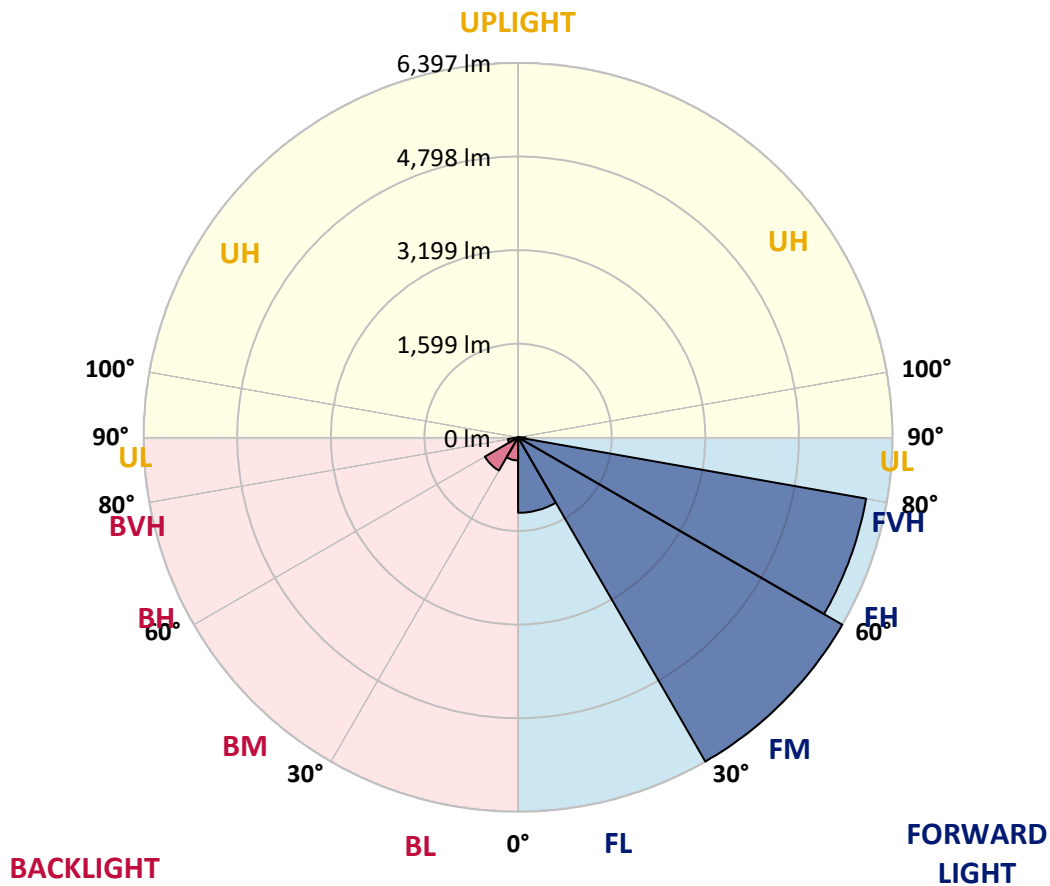
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.5	8.5			
FM (30°-60°)	6397.4	42.4			
FH (60°-80°)	6037.3	40.0			G3/7500
FVH (80°-90°)	127.3	0.8			G2/225
BL (0°-30°)	393.9	2.6	B1/500		
BM (30°-60°)	654.8	4.3	B1/1000		
BH (60°-80°)	175.9	1.2	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8
2.5°	2751.9	2761.5	2760.1	2764.3	2754.7	2739.6	2736.8	2716.2	2679.2	2632.5	2580.3
5°	2808.2	2819.2	2810.9	2806.8	2789.0	2772.5	2768.4	2746.4	2703.9	2640.7	2550.2
7.5°	2856.2	2859.0	2853.5	2843.9	2817.8	2795.8	2780.7	2750.5	2699.8	2636.6	2532.3
10°	2864.5	2863.1	2865.8	2867.2	2850.7	2831.5	2819.2	2778.0	2713.5	2646.2	2533.7
12.5°	2854.9	2854.9	2872.7	2893.3	2893.3	2883.7	2871.3	2834.3	2758.8	2679.2	2561.1
15°	2867.2	2871.3	2905.6	2944.1	2956.4	2946.8	2941.3	2902.9	2824.7	2736.8	2610.5
17.5°	2911.1	2915.2	2970.1	3027.8	3042.9	3031.9	3020.9	2982.5	2898.8	2802.7	2666.8
20°	2975.6	2986.6	3056.6	3130.7	3144.5	3130.7	3108.8	3055.2	2971.5	2874.1	2720.3
22.5°	3093.7	3100.5	3176.0	3254.3	3261.1	3239.2	3206.2	3132.1	3044.3	2949.6	2780.7
25°	3250.1	3259.7	3335.2	3410.7	3392.9	3359.9	3314.6	3230.9	3130.7	3038.8	2857.6
27.5°	3436.8	3447.8	3521.9	3587.8	3541.1	3502.7	3451.9	3347.6	3246.0	3162.3	2956.4
30°	3638.6	3648.2	3714.1	3773.1	3711.3	3666.0	3605.6	3498.6	3395.6	3332.5	3096.4
32.5°	3833.5	3832.1	3895.2	3943.3	3880.1	3844.4	3789.5	3681.1	3598.8	3571.3	3305.0
35°	4014.6	4014.6	4066.8	4114.8	4069.5	4050.3	3999.5	3913.1	3866.4	3899.3	3583.7
37.5°	4197.2	4187.6	4237.0	4290.5	4286.4	4287.8	4258.9	4217.8	4220.5	4337.2	3966.6
40°	4348.2	4344.0	4401.7	4471.7	4526.6	4570.5	4552.7	4567.8	4654.2	4872.5	4456.6
42.5°	4468.9	4478.6	4552.7	4663.8	4802.5	4891.7	4904.0	4965.8	5188.1	5525.8	5009.7
45°	4607.6	4608.9	4711.9	4882.1	5103.1	5244.4	5293.8	5453.0	5768.7	6203.8	5616.4
47.5°	4777.8	4761.3	4876.6	5115.4	5435.2	5643.8	5731.7	5930.7	6419.3	6865.4	6110.5
50°	4965.8	4935.6	5066.0	5391.3	5807.2	6067.9	6246.4	6537.3	7064.4	7408.9	6478.3
52.5°	5184.0	5155.2	5303.4	5708.3	6253.2	6570.3	6799.5	7093.2	7617.5	7823.4	6697.9
55°	5461.3	5432.5	5588.9	6088.5	6780.3	7192.0	7432.2	7679.3	8132.2	8129.5	6857.1
57.5°	5768.7	5728.9	5945.8	6568.9	7437.7	7865.9	8110.3	8231.0	8523.4	8366.9	6964.2
60°	6121.5	6085.8	6386.4	7141.3	8196.7	8593.4	8747.1	8697.7	8844.6	8506.9	6927.1
62.5°	6439.9	6423.4	6796.7	7747.9	8920.0	9254.9	9297.5	9082.0	9080.6	8509.7	6677.3
65°	6770.7	6802.2	7356.7	8446.5	9647.5	9872.6	9799.8	9463.6	9175.3	8173.4	5938.9
67.5°	6894.2	6986.2	7725.9	9077.9	10221.2	10396.9	10269.2	9654.3	8781.4	7042.4	4522.5
70°	6131.1	6304.0	7377.3	9113.6	10458.6	10626.1	10320.0	9141.0	7321.1	4665.2	2477.4
72.5°	4662.5	4864.2	6147.5	7462.4	9405.9	9787.5	9264.5	7447.3	4718.7	2043.7	831.8
75°	2609.2	2827.4	4578.7	5619.1	6315.0	6663.6	6471.5	4777.8	2090.4	533.9	248.4
77.5°	882.5	955.3	2130.2	3476.6	4168.4	3855.4	3263.9	2373.1	768.6	203.1	131.8
80°	522.9	550.4	793.3	1730.8	2193.3	1818.6	1435.7	877.0	391.2	108.4	92.0
82.5°	156.5	185.3	437.8	642.3	859.2	535.3	452.9	501.0	203.1	59.0	76.9
85°	0.0	0.0	93.3	199.0	225.1	87.8	87.8	284.1	37.1	24.7	56.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.9	4.1	5.5	12.4
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°	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8	2559.8
2.5°	2543.3	2495.3	2439.0	2385.4	2334.7	2268.8	2237.2	2198.8	2165.8	2148.0	2157.6
5°	2492.5	2417.0	2301.7	2185.1	2067.0	1955.8	1855.7	1788.4	1728.0	1696.4	1703.3
7.5°	2448.6	2347.0	2167.2	1976.4	1787.0	1596.2	1441.2	1320.4	1227.0	1188.6	1181.7
10°	2429.4	2301.7	2047.8	1773.3	1482.3	1225.7	1006.1	872.9	778.2	731.6	739.8
12.5°	2439.0	2278.4	1946.2	1574.3	1196.8	897.6	687.6	562.7	495.5	468.0	461.2
15°	2466.4	2272.9	1855.7	1371.2	923.7	627.2	474.9	424.1	410.4	407.6	407.6
17.5°	2498.0	2274.3	1762.3	1165.3	701.4	465.3	406.3	396.7	392.5	389.8	391.2
20°	2529.6	2274.3	1655.3	956.7	527.0	402.2	387.1	380.2	376.1	374.7	374.7
22.5°	2568.0	2274.3	1535.9	763.1	422.7	381.6	369.2	365.1	361.0	359.6	358.2
25°	2614.7	2275.6	1404.1	597.0	384.3	363.7	354.1	350.0	345.9	343.1	343.1
27.5°	2681.9	2286.6	1258.6	465.3	362.3	347.2	339.0	334.9	330.8	326.7	326.7
30°	2779.4	2314.1	1095.3	384.3	341.8	329.4	321.2	318.4	314.3	310.2	308.8
32.5°	2924.9	2362.1	926.5	344.5	322.5	310.2	300.6	297.8	293.7	289.6	288.2
35°	3128.0	2450.0	761.8	319.8	297.8	285.5	280.0	278.6	273.1	269.0	269.0
37.5°	3425.8	2592.7	603.9	295.1	277.3	267.6	260.8	258.0	252.5	248.4	247.1
40°	3789.5	2778.0	469.4	275.9	258.0	248.4	241.6	237.4	230.6	225.1	222.3
42.5°	4253.5	3004.5	370.6	255.3	240.2	230.6	225.1	216.9	207.3	199.0	197.6
45°	4736.6	3237.8	306.1	236.1	223.7	215.5	208.6	197.6	183.9	174.3	171.6
47.5°	5107.2	3383.3	267.6	215.5	205.9	199.0	190.8	177.1	160.6	149.6	146.9
50°	5372.1	3405.2	238.8	196.3	190.8	183.9	171.6	155.1	137.3	126.3	123.5
52.5°	5502.5	3306.4	215.5	178.4	174.3	167.4	152.4	134.5	115.3	104.3	101.6
55°	5561.5	3119.8	193.5	163.3	157.8	149.6	133.1	113.9	94.7	85.1	82.4
57.5°	5538.1	2843.9	174.3	148.2	141.4	131.8	113.9	93.3	78.2	68.6	67.3
60°	5365.2	2456.8	155.1	133.1	124.9	113.9	96.1	76.9	63.1	56.3	54.9
62.5°	4991.9	1976.4	135.9	115.3	109.8	98.8	82.4	63.1	52.2	48.0	46.7
65°	4227.4	1397.2	116.7	97.4	94.7	83.7	68.6	52.2	45.3	42.5	41.2
67.5°	3038.8	849.6	98.8	83.7	81.0	71.4	57.6	45.3	41.2	39.8	39.8
70°	1527.6	402.2	78.2	68.6	68.6	59.0	49.4	41.2	39.8	38.4	38.4
72.5°	518.8	171.6	59.0	53.5	56.3	50.8	42.5	38.4	38.4	38.4	38.4
75°	177.1	90.6	41.2	38.4	41.2	41.2	37.1	37.1	38.4	38.4	38.4
77.5°	115.3	60.4	28.8	26.1	31.6	31.6	31.6	34.3	37.1	37.1	37.1
80°	94.7	32.9	19.2	17.8	23.3	23.3	26.1	31.6	34.3	34.3	34.3
82.5°	81.0	20.6	11.0	12.4	16.5	17.8	22.0	26.1	30.2	31.6	31.6
85°	54.9	11.0	8.2	9.6	11.0	13.7	17.8	22.0	24.7	27.5	27.5
87.5°	15.1	4.1	5.5	6.9	6.9	9.6	13.7	16.5	19.2	20.6	20.6
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)