

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: P637377

Luminaire Tested: GWS-SA4C-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637377
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15430.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

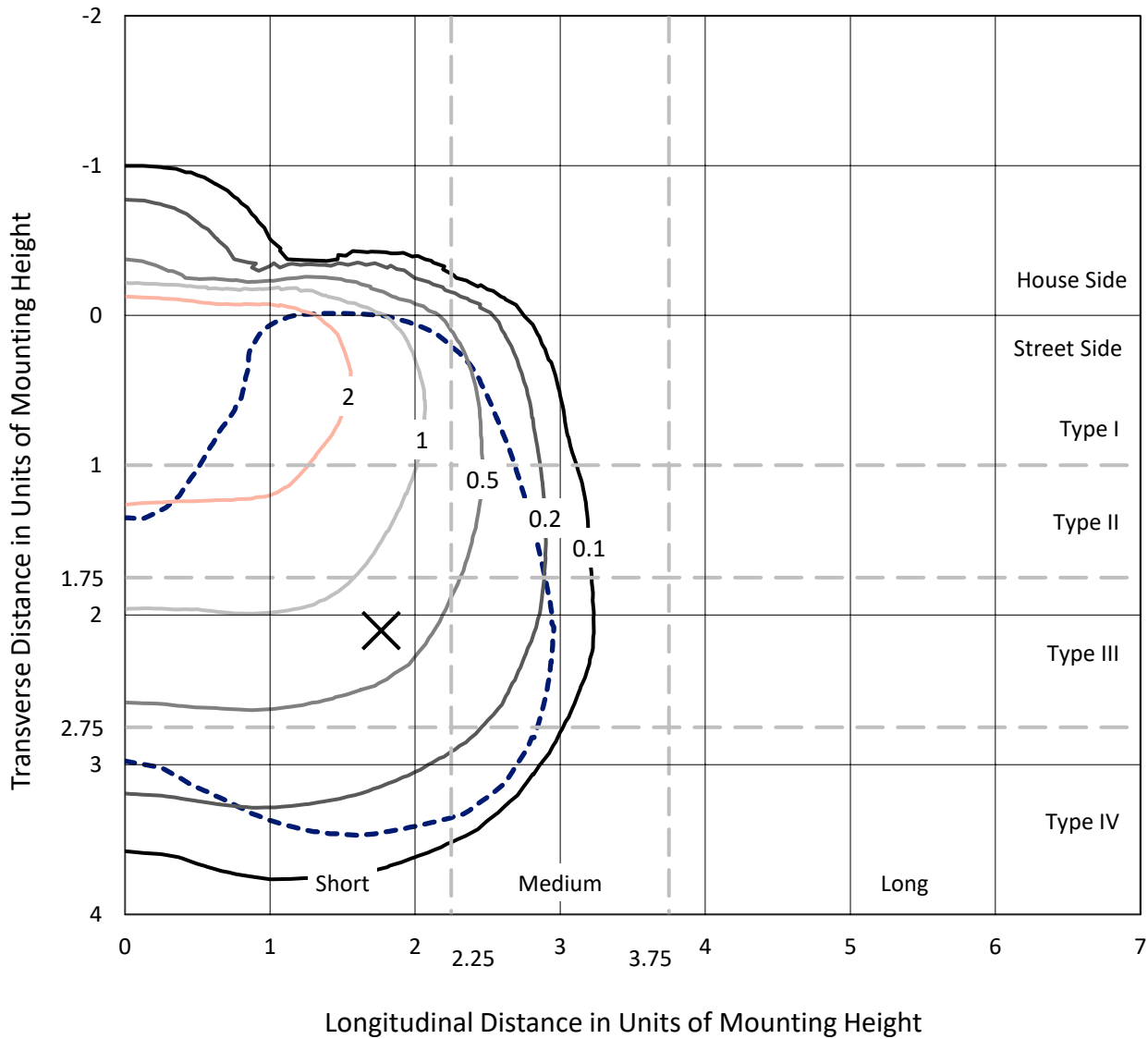
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

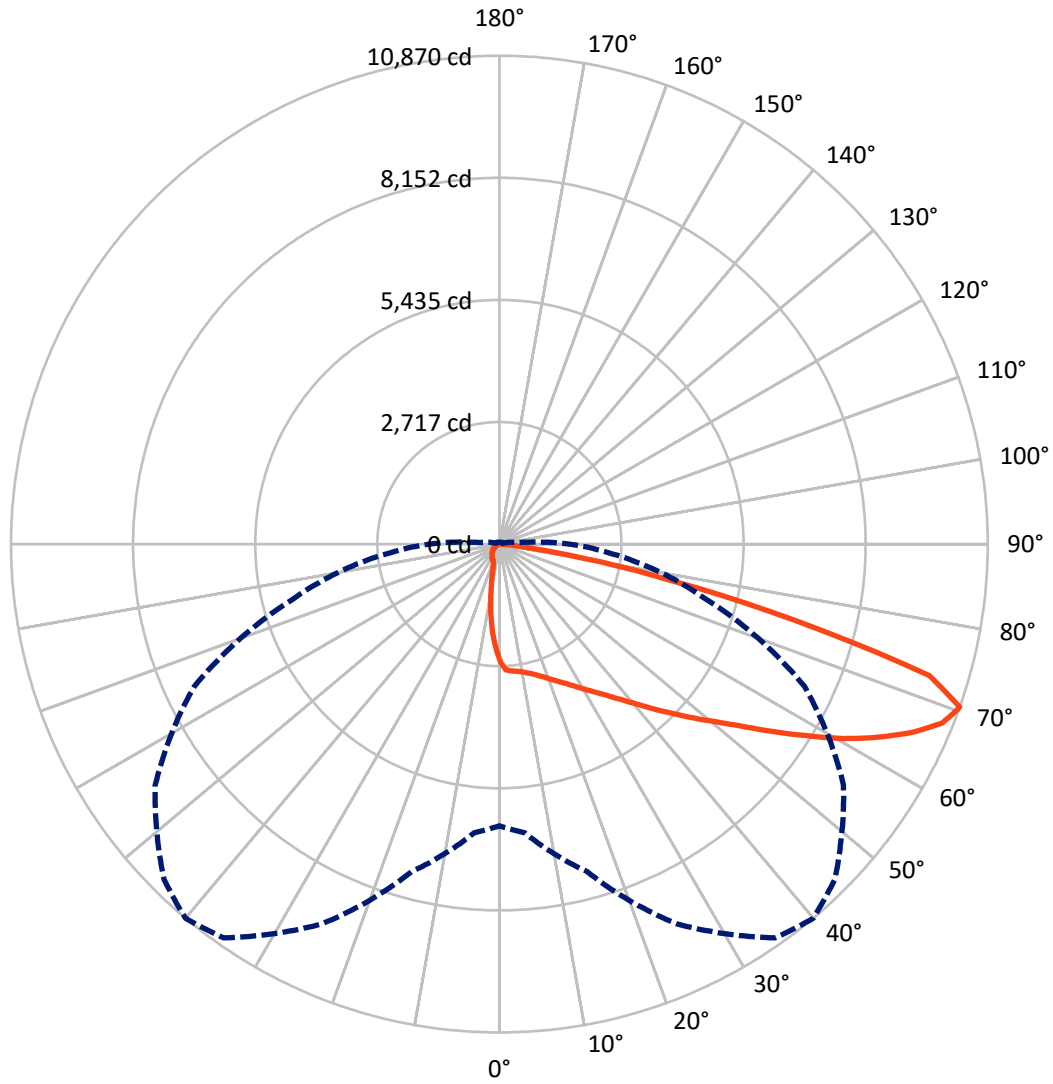
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1261.8	0.0	1261.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	14168.9	0.0	14168.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	15430.7	0.0	15430.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	1.4
10°-20°	561.3	3.6
20°-30°	939.4	6.1
30°-40°	1475.5	9.6
40°-50°	2333.8	15.1
50°-60°	3404.5	22.1
60°-70°	4220.3	27.4
70°-80°	2135.2	13.8
80°-90°	139.4	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°	15430.7	100.0
0°-180°	15430.7	100.0

Coefficient of Utilization



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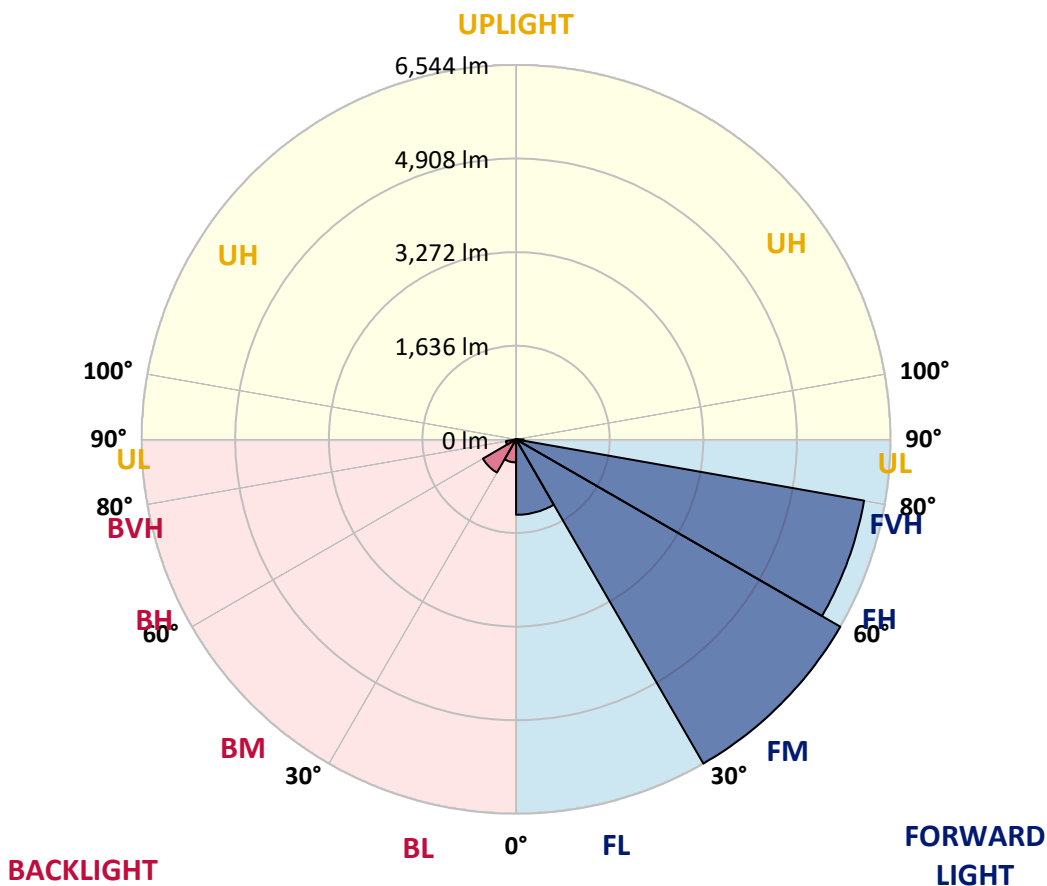
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.0	8.5			
FM (30°-60°)	6544.0	42.4			
FH (60°-80°)	6175.6	40.0			G3/7500
FVH (80°-90°)	130.2	0.8			G2/225
BL (0°-30°)	403.0	2.6	B1/500		
BM (30°-60°)	669.8	4.3	B1/1000		
BH (60°-80°)	179.9	1.2	B1/500		G1/500
BVH (80°-90°)	9.2	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°	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4
2.5°	2815.0	2824.8	2823.4	2827.6	2817.8	2802.3	2799.5	2778.5	2740.6	2692.8	2639.5
5°	2872.5	2883.8	2875.3	2871.1	2852.9	2836.0	2831.8	2809.3	2765.8	2701.2	2608.6
7.5°	2921.7	2924.5	2918.9	2909.0	2882.4	2859.9	2844.4	2813.6	2761.6	2697.0	2590.3
10°	2930.1	2928.7	2931.5	2932.9	2916.0	2896.4	2883.8	2841.6	2775.6	2706.9	2591.7
12.5°	2920.3	2920.3	2938.5	2959.6	2959.6	2949.7	2937.1	2899.2	2822.0	2740.6	2619.8
15°	2932.9	2937.1	2972.2	3011.5	3024.2	3014.3	3008.7	2969.4	2889.4	2799.5	2670.4
17.5°	2977.8	2982.0	3038.2	3097.2	3112.6	3101.4	3090.1	3050.8	2965.2	2866.9	2727.9
20°	3043.8	3055.0	3126.6	3202.5	3216.5	3202.5	3180.0	3125.2	3039.6	2939.9	2782.7
22.5°	3164.5	3171.6	3248.8	3328.8	3335.8	3313.4	3279.7	3203.9	3114.0	3017.1	2844.4
25°	3324.6	3334.4	3411.6	3488.9	3470.6	3436.9	3390.6	3304.9	3202.5	3108.4	2923.1
27.5°	3515.5	3526.8	3602.6	3670.0	3622.2	3582.9	3531.0	3424.3	3320.4	3234.7	3024.2
30°	3721.9	3731.8	3799.1	3859.5	3796.3	3750.0	3688.2	3578.7	3473.4	3408.8	3167.4
32.5°	3921.3	3919.9	3984.5	4033.6	3969.0	3932.5	3876.4	3765.4	3681.2	3653.1	3380.8
35°	4106.6	4106.6	4160.0	4209.1	4162.8	4143.1	4091.2	4002.7	3955.0	3988.7	3665.8
37.5°	4293.3	4283.5	4334.1	4388.8	4384.6	4386.0	4356.5	4314.4	4317.2	4436.5	4057.5
40°	4447.8	4443.6	4502.5	4574.1	4630.3	4675.2	4657.0	4672.4	4760.9	4984.1	4558.7
42.5°	4571.3	4581.2	4657.0	4770.7	4912.5	5003.8	5016.4	5079.6	5307.0	5652.4	5124.5
45°	4713.1	4714.5	4819.8	4993.9	5220.0	5364.6	5415.1	5578.0	5900.9	6345.9	5745.0
47.5°	4887.2	4870.4	4988.3	5232.6	5559.7	5773.1	5863.0	6066.6	6566.4	7022.7	6250.5
50°	5079.6	5048.7	5182.1	5514.8	5940.2	6207.0	6389.5	6687.1	7226.2	7578.6	6626.7
52.5°	5302.8	5273.3	5424.9	5839.1	6396.5	6720.8	6955.3	7255.7	7792.0	8002.6	6851.4
55°	5586.4	5556.9	5717.0	6228.0	6935.6	7356.8	7602.5	7855.2	8318.5	8315.7	7014.2
57.5°	5900.9	5860.2	6082.0	6719.4	7608.1	8046.2	8296.1	8419.6	8718.7	8558.6	7123.7
60°	6261.7	6225.2	6532.7	7304.9	8384.5	8790.3	8947.5	8897.0	9047.2	8701.8	7085.8
62.5°	6587.4	6570.6	6952.5	7925.4	9124.4	9467.0	9510.5	9290.1	9288.7	8704.6	6830.3
65°	6925.8	6958.1	7525.3	8640.0	9868.5	10098.8	10024.3	9680.4	9385.5	8360.6	6075.0
67.5°	7052.1	7146.2	7902.9	9285.9	10455.4	10635.1	10504.5	9875.5	8982.6	7203.8	4626.1
70°	6271.5	6448.4	7546.3	9322.4	10698.3	10869.5	10556.5	9350.4	7488.8	4772.1	2534.2
72.5°	4769.3	4975.7	6288.4	7633.4	9621.4	10011.7	9476.8	7617.9	4826.9	2090.5	850.8
75°	2668.9	2892.2	4683.6	5747.9	6459.7	6816.3	6619.7	4887.2	2138.2	546.1	254.1
77.5°	902.8	977.2	2179.0	3556.3	4263.9	3943.8	3338.6	2427.5	786.2	207.8	134.8
80°	534.9	563.0	811.5	1770.4	2243.5	1860.3	1468.6	897.1	400.1	110.9	94.1
82.5°	160.1	189.5	447.9	657.1	878.9	547.5	463.3	512.4	207.8	60.4	78.6
85°	0.0	0.0	95.5	203.6	230.3	89.9	89.9	290.6	37.9	25.3	57.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	4.2	5.6	12.6
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°	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4	2618.4
2.5°	2601.6	2552.4	2494.9	2440.1	2388.2	2320.8	2288.5	2249.2	2215.5	2197.2	2207.0
5°	2549.6	2472.4	2354.5	2235.1	2114.4	2000.7	1898.2	1829.4	1767.6	1735.3	1742.3
7.5°	2504.7	2400.8	2216.9	2021.7	1828.0	1632.8	1474.2	1350.6	1255.1	1215.8	1208.8
10°	2485.0	2354.5	2094.7	1813.9	1516.3	1253.7	1029.1	892.9	796.1	748.3	756.7
12.5°	2494.9	2330.6	1990.8	1610.4	1224.3	918.2	703.4	575.6	506.8	478.8	471.7
15°	2522.9	2325.0	1898.2	1402.6	944.9	641.6	485.8	433.8	419.8	417.0	417.0
17.5°	2555.2	2326.4	1802.7	1192.0	717.4	475.9	415.6	405.7	401.5	398.7	400.1
20°	2587.5	2326.4	1693.2	978.6	539.1	411.4	395.9	388.9	384.7	383.3	383.3
22.5°	2626.8	2326.4	1571.0	780.6	432.4	390.3	377.7	373.5	369.2	367.8	366.4
25°	2674.6	2327.8	1436.3	610.7	393.1	372.1	362.2	358.0	353.8	351.0	351.0
27.5°	2743.4	2339.0	1287.4	475.9	370.6	355.2	346.8	342.6	338.4	334.1	334.1
30°	2843.0	2367.1	1120.4	393.1	349.6	337.0	328.5	325.7	321.5	317.3	315.9
32.5°	2991.9	2416.2	947.7	352.4	329.9	317.3	307.5	304.7	300.4	296.2	294.8
35°	3199.6	2506.1	779.2	327.1	304.7	292.0	286.4	285.0	279.4	275.2	275.2
37.5°	3504.3	2652.1	617.7	301.9	283.6	273.8	266.8	263.9	258.3	254.1	252.7
40°	3876.4	2841.6	480.2	282.2	263.9	254.1	247.1	242.9	235.9	230.3	227.4
42.5°	4350.9	3073.3	379.1	261.1	245.7	235.9	230.3	221.8	212.0	203.6	202.2
45°	4845.1	3312.0	313.1	241.5	228.8	220.4	213.4	202.2	188.1	178.3	175.5
47.5°	5224.2	3460.8	273.8	220.4	210.6	203.6	195.2	181.1	164.3	153.0	150.2
50°	5495.1	3483.3	244.3	200.8	195.2	188.1	175.5	158.6	140.4	129.2	126.4
52.5°	5628.5	3382.2	220.4	182.5	178.3	171.3	155.8	137.6	117.9	106.7	103.9
55°	5688.9	3191.2	198.0	167.1	161.5	153.0	136.2	116.5	96.9	87.0	84.2
57.5°	5665.0	2909.0	178.3	151.6	144.6	134.8	116.5	95.5	80.0	70.2	68.8
60°	5488.1	2513.1	158.6	136.2	127.8	116.5	98.3	78.6	64.6	57.6	56.2
62.5°	5106.2	2021.7	139.0	117.9	112.3	101.1	84.2	64.6	53.4	49.1	47.7
65°	4324.2	1429.2	119.3	99.7	96.9	85.6	70.2	53.4	46.3	43.5	42.1
67.5°	3108.4	869.1	101.1	85.6	82.8	73.0	59.0	46.3	42.1	40.7	40.7
70°	1562.6	411.4	80.0	70.2	70.2	60.4	50.5	42.1	40.7	39.3	39.3
72.5°	530.7	175.5	60.4	54.8	57.6	51.9	43.5	39.3	39.3	39.3	39.3
75°	181.1	92.7	42.1	39.3	42.1	42.1	37.9	37.9	39.3	39.3	39.3
77.5°	117.9	61.8	29.5	26.7	32.3	32.3	32.3	35.1	37.9	37.9	37.9
80°	96.9	33.7	19.7	18.3	23.9	23.9	26.7	32.3	35.1	35.1	35.1
82.5°	82.8	21.1	11.2	12.6	16.8	18.3	22.5	26.7	30.9	32.3	32.3
85°	56.2	11.2	8.4	9.8	11.2	14.0	18.3	22.5	25.3	28.1	28.1
87.5°	15.4	4.2	5.6	7.0	7.0	9.8	14.0	16.8	19.7	21.1	21.1
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)