

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: P637536

Luminaire Tested: GWS-SA4D-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14299.4 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

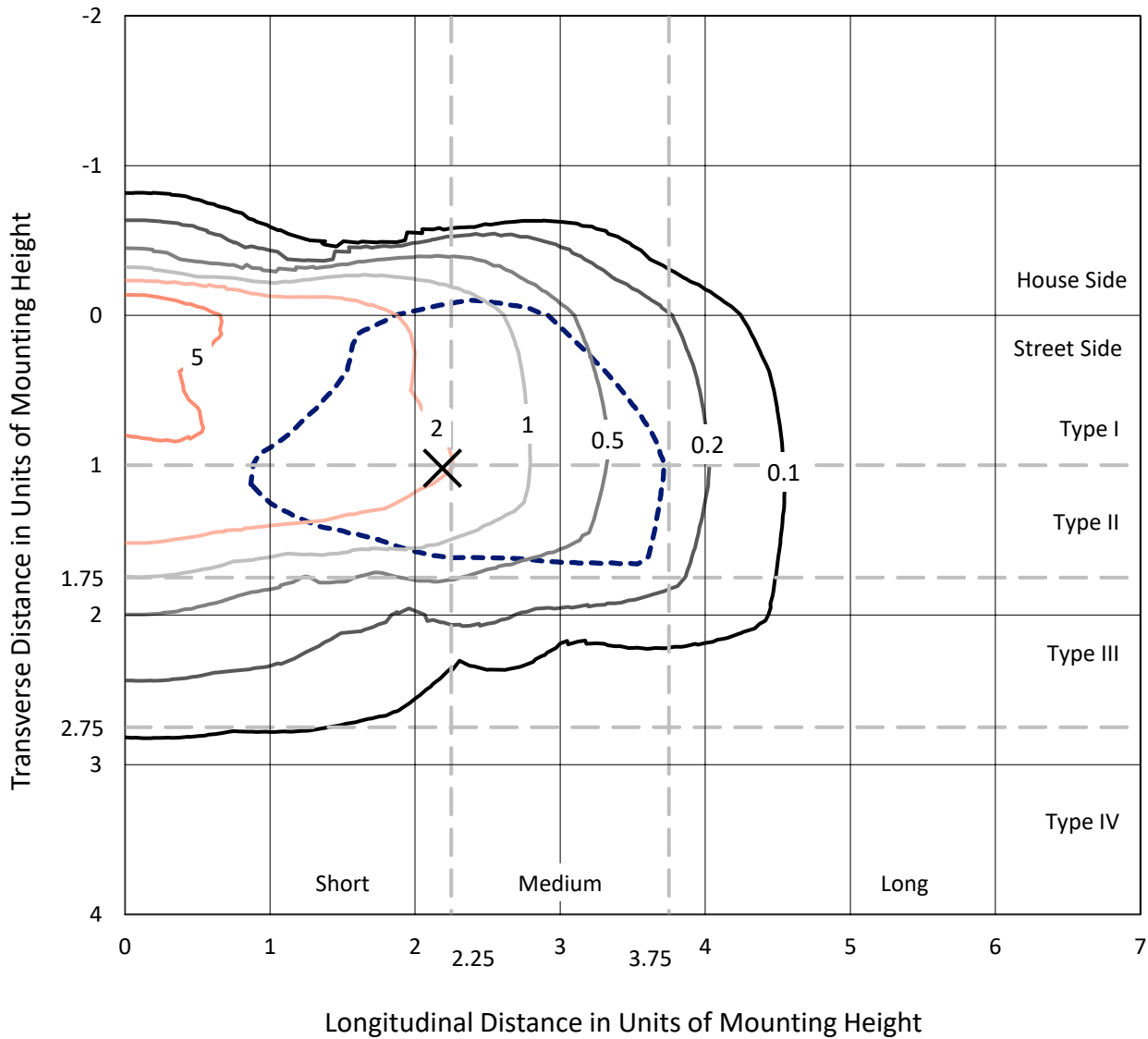
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

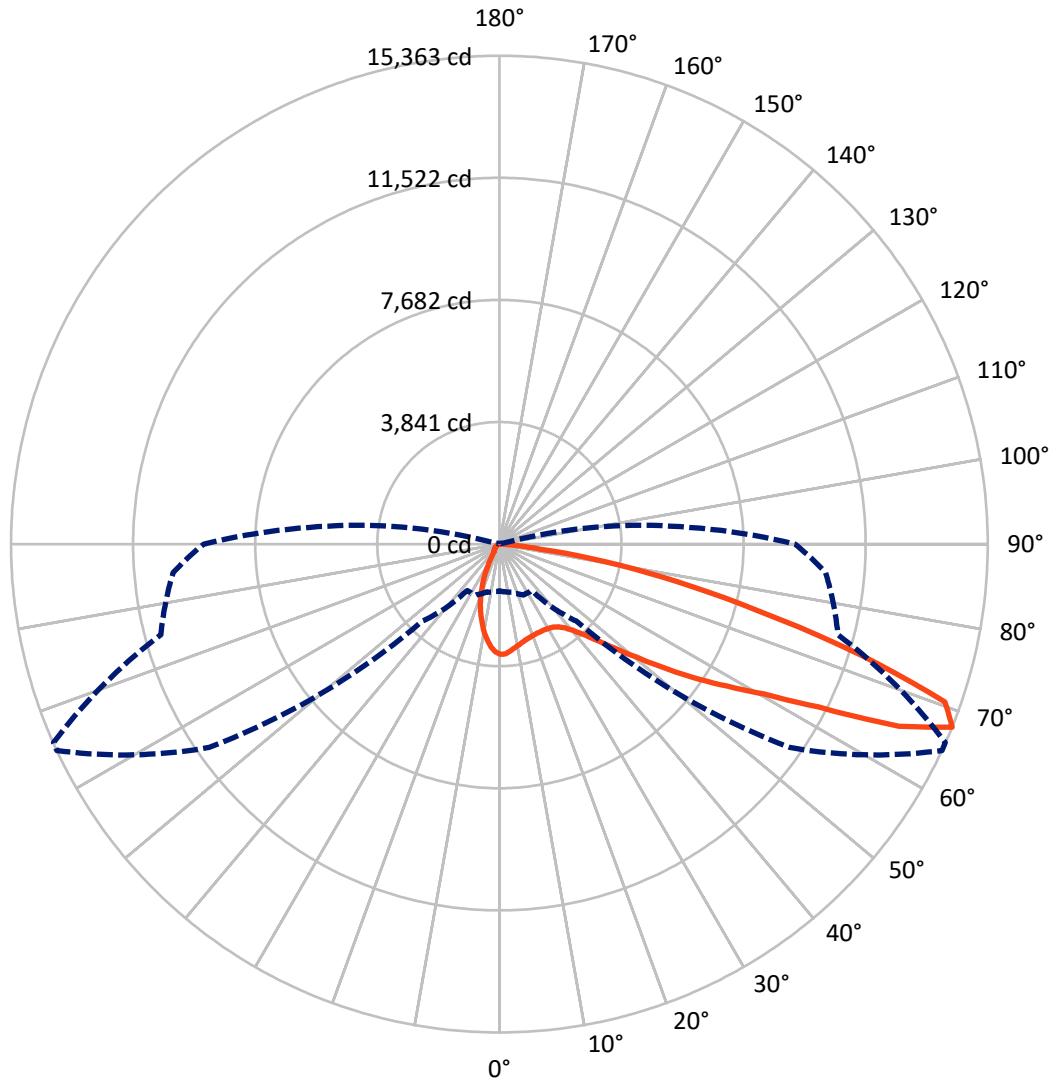
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.6	0.0	1785.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	12513.8	0.0	12513.8
	% Fixture	87.5	0.0	87.5
Total	Lumens	14299.4	0.0	14299.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	2.0
10°-20°	647.5	4.5
20°-30°	925.2	6.5
30°-40°	1346.1	9.4
40°-50°	2108.2	14.7
50°-60°	3288.9	23.0
60°-70°	3612.7	25.3
70°-80°	1922.6	13.4
80°-90°	160.1	1.1
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°	14299.4	100.0
0°-180°	14299.4	100.0

Coefficient of Utilization

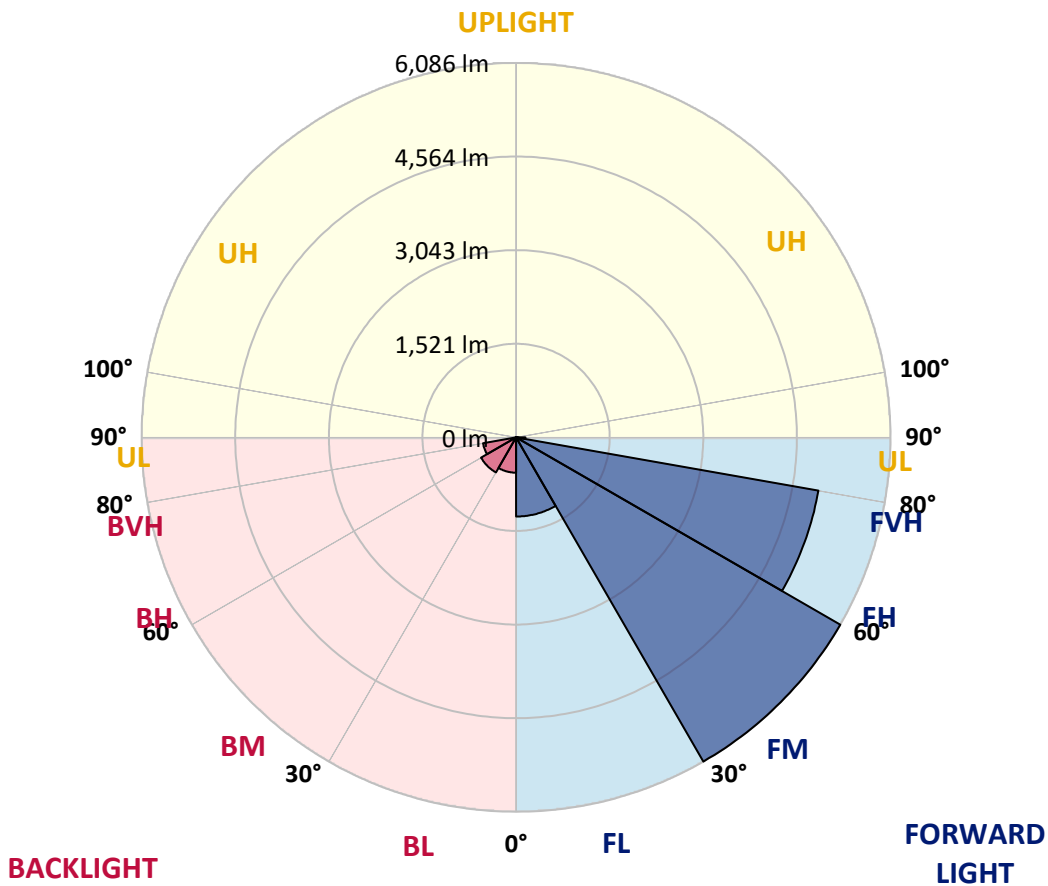


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.9	9.0			
FM (30°-60°)	6085.5	42.6			
FH (60°-80°)	4989.9	34.9			G2/5000
FVH (80°-90°)	151.5	1.1			G2/225
BL (0°-30°)	573.9	4.0	B2/1000		
BM (30°-60°)	657.7	4.6	B1/1000		
BH (60°-80°)	545.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1
2.5°	3347.8	3358.1	3343.9	3378.8	3385.3	3424.1	3446.1	3461.6	3460.3	3479.7	3479.7
5°	3151.2	3161.6	3153.8	3191.3	3221.1	3281.9	3332.3	3390.5	3393.1	3452.5	3474.5
7.5°	2984.4	2985.7	2985.7	3032.3	3071.1	3146.1	3221.1	3310.3	3320.6	3412.5	3470.6
10°	2847.4	2851.3	2852.5	2905.6	2948.2	3038.8	3134.4	3241.8	3253.4	3377.5	3468.1
12.5°	2753.0	2754.3	2759.4	2815.0	2861.6	2956.0	3053.0	3175.8	3191.3	3337.5	3456.4
15°	2707.7	2705.1	2707.7	2754.3	2800.8	2891.3	2990.9	3122.8	3139.6	3303.8	3457.7
17.5°	2705.1	2701.3	2698.7	2733.6	2763.3	2843.5	2944.4	3087.9	3106.0	3288.3	3471.9
20°	2742.6	2740.0	2727.1	2742.6	2749.1	2815.0	2914.6	3060.7	3078.8	3285.7	3503.0
22.5°	2840.9	2834.4	2815.0	2800.8	2765.9	2804.7	2893.9	3041.3	3062.0	3292.2	3543.1
25°	2987.0	2984.4	2959.9	2925.0	2835.7	2820.2	2895.2	3041.3	3060.7	3300.0	3585.7
27.5°	3206.9	3191.3	3160.3	3099.5	2971.5	2881.0	2921.1	3049.1	3068.5	3310.3	3620.6
30°	3430.6	3429.3	3418.9	3356.8	3166.8	2997.4	2975.4	3069.8	3087.9	3319.4	3653.0
32.5°	3662.0	3665.9	3691.8	3643.9	3435.7	3170.6	3073.7	3112.5	3125.4	3337.5	3681.4
35°	3881.8	3889.6	3958.1	3974.9	3762.9	3433.1	3234.0	3197.8	3199.1	3377.5	3718.9
37.5°	4092.6	4118.5	4228.4	4309.9	4170.2	3751.2	3465.5	3342.6	3332.3	3457.7	3775.8
40°	4331.8	4381.0	4519.3	4657.7	4613.7	4171.5	3781.0	3565.0	3543.1	3605.1	3878.0
42.5°	4596.9	4649.9	4833.6	5027.5	5048.2	4679.7	4175.4	3889.6	3852.1	3853.4	4069.3
45°	4881.4	4952.5	5165.9	5445.2	5570.6	5246.0	4661.6	4328.0	4290.5	4234.9	4377.1
47.5°	5255.1	5317.2	5522.8	5844.7	6085.3	5853.8	5299.1	4891.7	4823.2	4741.7	4855.5
50°	5577.1	5631.4	5808.5	6212.0	6712.4	6637.4	6021.9	5596.5	5530.5	5392.2	5486.6
52.5°	5648.2	5690.9	5853.8	6307.7	7192.1	7626.6	6907.7	6448.6	6402.1	6146.0	6182.2
55°	5328.8	5393.5	5539.6	6043.9	7317.6	8593.8	8057.2	7409.4	7312.4	6903.8	6968.4
57.5°	4521.9	4637.0	4774.1	5429.7	6977.5	9108.5	9663.2	8427.0	8339.1	7633.1	7634.4
60°	3314.2	3407.3	3499.1	4099.1	6170.6	9073.6	11120.5	9570.1	9409.8	8229.2	8207.2
62.5°	2410.3	2458.2	2456.9	2670.2	4237.4	8476.2	11886.0	11292.5	10918.8	8866.7	8741.3
65°	1895.7	1894.4	1950.0	2019.8	2366.3	6543.0	11980.4	13807.6	13404.1	9721.4	9460.2
67.5°	1475.4	1503.9	1559.5	1765.1	1778.0	3424.1	11150.3	15363.1	15355.4	11026.1	10302.0
70°	1137.9	1176.7	1255.6	1555.6	1642.2	1916.4	8343.0	14870.5	14995.9	11609.3	9705.9
72.5°	730.6	728.0	844.4	1256.9	1577.6	1597.0	4613.7	11812.3	11954.6	10515.4	7847.7
75°	408.6	411.2	477.1	769.4	1470.2	1502.6	2284.9	8423.2	8535.7	8198.2	6029.7
77.5°	160.3	165.5	223.7	404.7	969.8	1342.2	1357.7	5743.9	5760.7	5080.5	3698.2
80°	64.7	68.5	113.8	250.9	590.9	903.9	969.8	3384.0	3315.5	1966.8	1075.8
82.5°	19.4	20.7	45.3	142.2	309.0	642.7	654.3	1298.3	1225.8	422.8	274.1
85°	1.3	1.3	10.3	44.0	109.9	161.6	435.8	422.8	375.0	106.0	121.6
87.5°	0.0	0.0	1.3	1.3	2.6	5.2	46.6	77.6	78.9	19.4	54.3
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°	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1	3468.1
2.5°	3479.7	3433.1	3429.3	3393.1	3356.8	3311.6	3258.6	3219.8	3192.6	3144.8	3135.7
5°	3474.5	3412.5	3354.3	3250.8	3135.7	3011.6	2903.0	2802.1	2738.8	2696.1	2678.0
7.5°	3464.2	3385.3	3250.8	3055.6	2862.9	2645.7	2476.3	2321.1	2215.1	2153.0	2125.8
10°	3456.4	3350.4	3131.9	2835.7	2537.0	2237.0	1979.7	1749.5	1621.5	1520.7	1503.9
12.5°	3440.9	3300.0	2979.3	2578.4	2193.1	1794.8	1466.4	1184.5	989.2	901.3	870.2
15°	3425.4	3246.9	2826.7	2306.9	1818.1	1326.7	928.4	656.9	522.4	481.0	478.4
17.5°	3422.8	3199.1	2661.2	2049.5	1425.0	869.0	528.9	425.4	397.0	386.6	386.6
20°	3430.6	3159.0	2498.2	1753.4	1038.3	528.9	394.4	368.5	351.7	342.7	342.7
22.5°	3438.3	3117.6	2341.8	1454.7	689.2	386.6	347.8	325.9	306.5	296.1	290.9
25°	3443.5	3072.4	2168.5	1154.7	450.0	336.2	305.2	276.7	253.4	240.5	240.5
27.5°	3442.2	3018.1	1993.9	861.2	349.1	298.7	261.2	231.5	208.2	194.0	195.3
30°	3431.8	2958.6	1812.9	601.3	305.2	261.2	223.7	192.7	169.4	157.8	156.5
32.5°	3424.1	2895.2	1603.4	422.8	274.1	228.9	190.1	160.3	140.9	131.9	130.6
35°	3415.0	2833.2	1404.3	322.0	247.0	197.8	160.3	135.8	120.3	112.5	112.5
37.5°	3417.6	2768.5	1188.3	276.7	219.8	172.0	137.1	116.4	103.4	95.7	94.4
40°	3457.7	2729.7	976.3	250.9	195.3	148.7	119.0	100.9	87.9	80.2	78.9
42.5°	3557.3	2731.0	773.3	231.5	173.3	126.7	103.4	86.6	75.0	65.9	64.7
45°	3756.4	2785.3	593.5	210.8	150.0	109.9	89.2	73.7	62.1	54.3	53.0
47.5°	4082.3	2946.9	450.0	192.7	130.6	95.7	76.3	62.1	51.7	45.3	44.0
50°	4600.8	3239.2	354.3	170.7	109.9	82.8	64.7	51.7	42.7	36.2	34.9
52.5°	5224.1	3677.5	303.9	151.3	94.4	72.4	55.6	42.7	34.9	29.7	28.4
55°	5940.4	4201.2	280.6	131.9	80.2	62.1	45.3	34.9	28.4	24.6	22.0
57.5°	6597.3	4673.2	279.3	112.5	68.5	53.0	37.5	29.7	24.6	19.4	18.1
60°	7237.4	5067.6	262.5	93.1	59.5	44.0	32.3	24.6	20.7	16.8	15.5
62.5°	7818.0	5388.3	219.8	75.0	50.4	36.2	27.2	22.0	18.1	14.2	14.2
65°	8547.3	5796.9	168.1	60.8	41.4	29.7	23.3	19.4	16.8	12.9	12.9
67.5°	9301.2	6012.8	120.3	50.4	33.6	25.9	20.7	18.1	14.2	11.6	11.6
70°	8424.5	5080.5	86.6	41.4	28.4	22.0	18.1	16.8	14.2	11.6	10.3
72.5°	6579.2	3663.3	64.7	32.3	24.6	20.7	16.8	15.5	12.9	10.3	10.3
75°	4878.8	2136.2	49.1	25.9	19.4	16.8	16.8	15.5	12.9	10.3	9.1
77.5°	2652.1	744.8	37.5	20.7	15.5	12.9	14.2	14.2	11.6	9.1	7.8
80°	702.1	204.3	25.9	15.5	12.9	10.3	10.3	12.9	10.3	7.8	7.8
82.5°	204.3	59.5	18.1	12.9	10.3	9.1	9.1	9.1	7.8	6.5	5.2
85°	99.6	22.0	12.9	10.3	9.1	7.8	6.5	6.5	5.2	3.9	3.9
87.5°	44.0	9.1	10.3	9.1	9.1	6.5	5.2	3.9	3.9	2.6	1.3
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)