

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: P637041

Luminaire Tested: GWS-SA4C-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637041
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-SA4C-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: 11334.7 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: B1 - U0 - G2

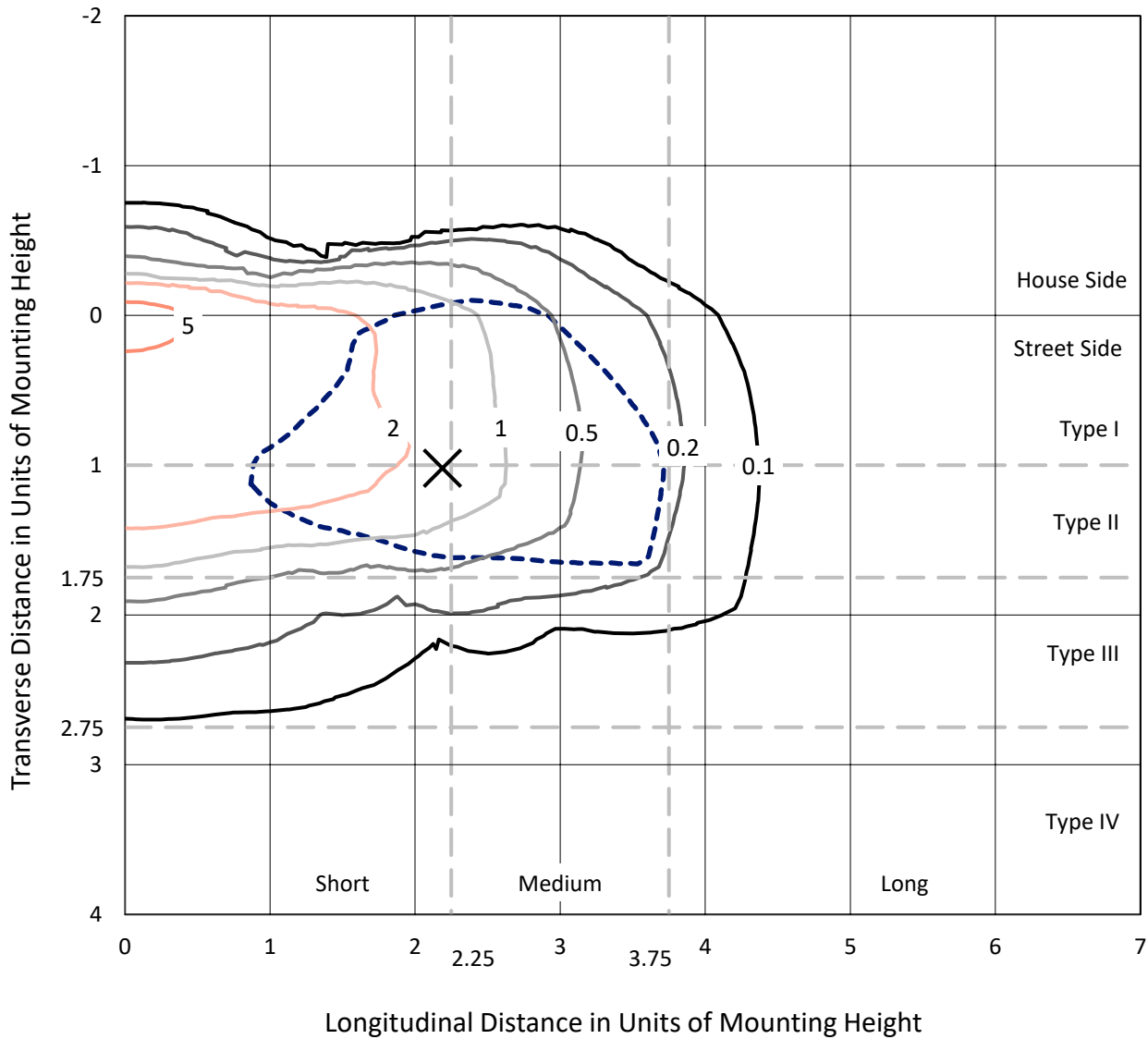
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

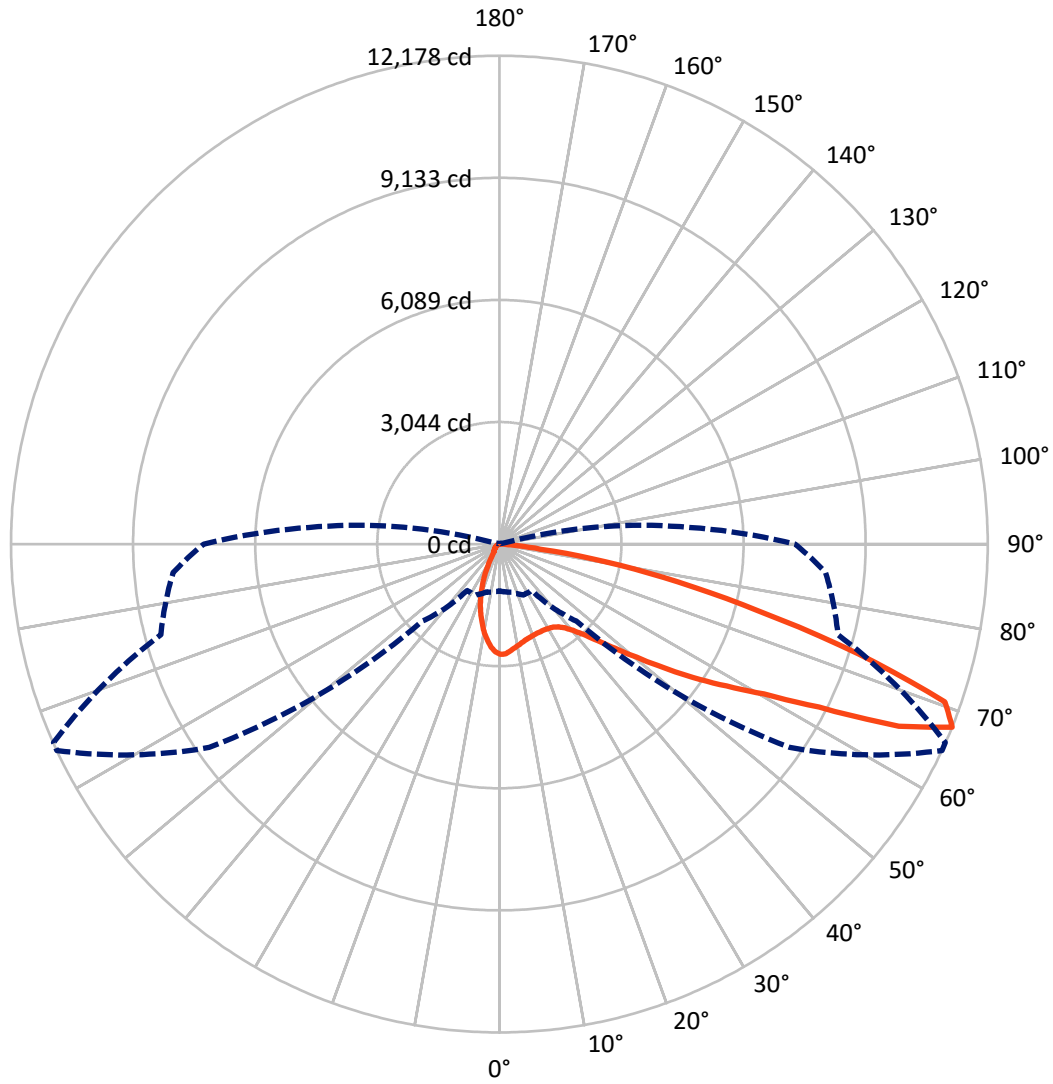
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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	1415.3	0.0	1415.3
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	9919.3	0.0	9919.3
	% Fixture	87.5	0.0	87.5
Total	Lumens	11334.7	0.0	11334.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	2.0
10°-20°	513.2	4.5
20°-30°	733.4	6.5
30°-40°	1067.0	9.4
40°-50°	1671.1	14.7
50°-60°	2607.0	23.0
60°-70°	2863.7	25.3
70°-80°	1524.0	13.4
80°-90°	126.9	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°	11334.7	100.0
0°-180°	11334.7	100.0

Coefficient of Utilization



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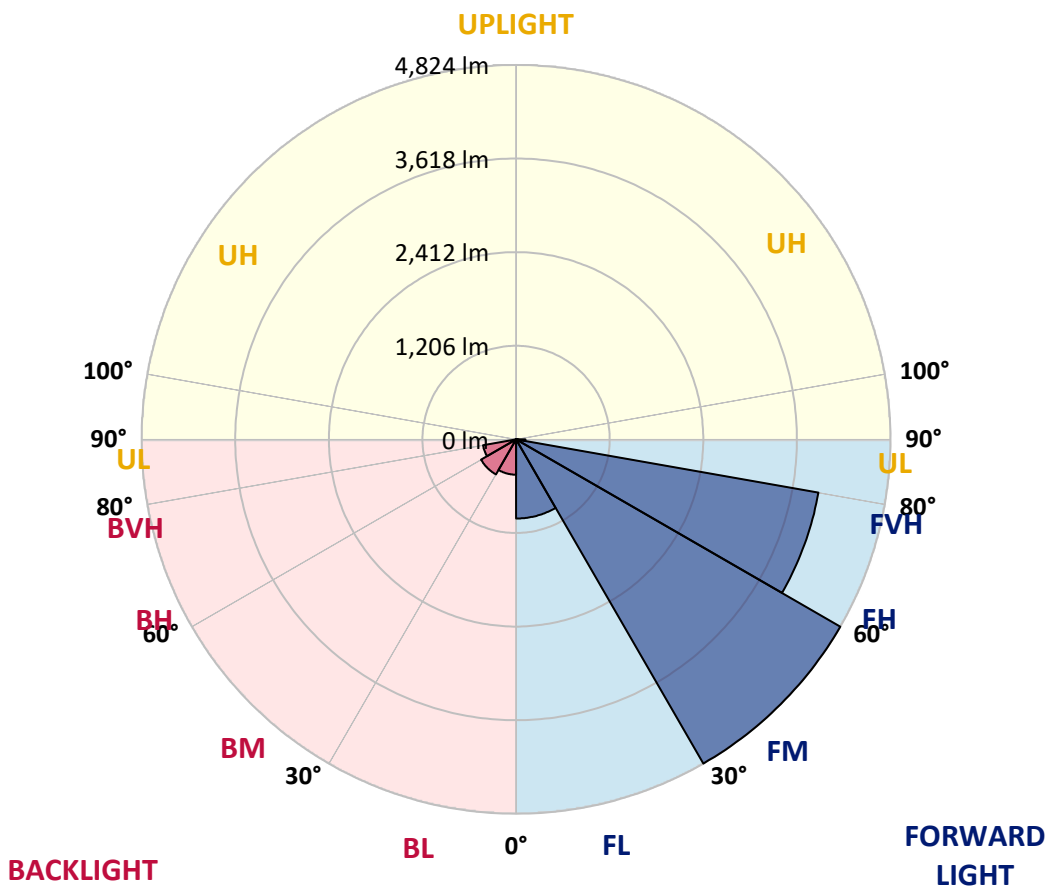
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.1	9.0			
FM (30°-60°)	4823.8	42.6			
FH (60°-80°)	3955.4	34.9			G2/5000
FVH (80°-90°)	120.1	1.1			G2/225
BL (0°-30°)	454.9	4.0	B1/500		
BM (30°-60°)	521.3	4.6	B1/1000		
BH (60°-80°)	432.3	3.8	B1/500		G1/500
BVH (80°-90°)	6.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0
2.5°	2653.7	2661.9	2650.6	2678.3	2683.4	2714.2	2731.6	2743.9	2742.9	2758.2	2758.2
5°	2497.9	2506.1	2499.9	2529.7	2553.2	2601.4	2641.4	2687.5	2689.6	2736.7	2754.1
7.5°	2365.7	2366.7	2366.7	2403.6	2434.4	2493.8	2553.2	2624.0	2632.2	2704.9	2751.1
10°	2257.0	2260.1	2261.1	2303.2	2337.0	2408.7	2484.6	2569.6	2578.9	2677.3	2749.0
12.5°	2182.2	2183.2	2187.3	2231.4	2268.3	2343.1	2420.0	2517.4	2529.7	2645.5	2739.8
15°	2146.3	2144.3	2146.3	2183.2	2220.1	2291.9	2370.8	2475.3	2488.7	2618.8	2740.8
17.5°	2144.3	2141.2	2139.2	2166.8	2190.4	2254.0	2333.9	2447.7	2462.0	2606.5	2752.1
20°	2174.0	2172.0	2161.7	2174.0	2179.1	2231.4	2310.3	2426.2	2440.5	2604.5	2776.7
22.5°	2251.9	2246.8	2231.4	2220.1	2192.5	2223.2	2293.9	2410.8	2427.2	2609.6	2808.5
25°	2367.7	2365.7	2346.2	2318.5	2247.8	2235.5	2295.0	2410.8	2426.2	2615.8	2842.3
27.5°	2542.0	2529.7	2505.1	2456.9	2355.4	2283.7	2315.5	2416.9	2432.3	2624.0	2870.0
30°	2719.3	2718.3	2710.1	2660.9	2510.2	2375.9	2358.5	2433.3	2447.7	2631.1	2895.6
32.5°	2902.8	2905.8	2926.3	2888.4	2723.4	2513.3	2436.4	2467.1	2477.4	2645.5	2918.1
35°	3077.0	3083.2	3137.5	3150.8	2982.7	2721.3	2563.5	2534.8	2535.8	2677.3	2947.9
37.5°	3244.1	3264.6	3351.7	3416.3	3305.6	2973.5	2747.0	2649.6	2641.4	2740.8	2993.0
40°	3433.7	3472.7	3582.3	3692.0	3657.2	3306.6	2997.1	2825.9	2808.5	2857.7	3073.9
42.5°	3643.8	3685.9	3831.4	3985.2	4001.6	3709.4	3309.7	3083.2	3053.4	3054.5	3225.6
45°	3869.3	3925.7	4094.8	4316.2	4415.7	4158.4	3695.1	3430.6	3400.9	3356.8	3469.6
47.5°	4165.6	4214.8	4377.7	4633.0	4823.6	4640.1	4200.4	3877.5	3823.2	3758.6	3848.8
50°	4420.8	4463.8	4604.3	4924.0	5320.7	5261.3	4773.4	4436.2	4383.9	4274.2	4349.0
52.5°	4477.2	4511.0	4640.1	4999.9	5701.0	6045.4	5475.5	5111.6	5074.7	4871.8	4900.5
55°	4224.0	4275.2	4391.1	4790.8	5800.4	6812.1	6386.7	5873.2	5796.3	5472.4	5523.7
57.5°	3584.4	3675.6	3784.3	4303.9	5530.8	7220.0	7659.7	6679.9	6610.2	6050.5	6051.5
60°	2627.0	2700.8	2773.6	3249.2	4891.2	7192.4	8814.9	7585.9	7458.8	6523.0	6505.6
62.5°	1910.6	1948.5	1947.5	2116.6	3358.9	6718.8	9421.7	8951.2	8655.0	7028.4	6928.9
65°	1502.6	1501.6	1545.7	1601.0	1875.7	5186.4	9496.5	10944.8	10625.0	7705.9	7498.8
67.5°	1169.5	1192.1	1236.1	1399.1	1409.4	2714.2	8838.5	12177.9	12171.8	8740.1	8166.1
70°	902.0	932.7	995.3	1233.1	1301.7	1519.0	6613.2	11787.4	11886.8	9202.4	7693.6
72.5°	579.1	577.1	669.3	996.3	1250.5	1265.9	3657.2	9363.3	9476.0	8335.2	6220.7
75°	323.9	325.9	378.2	609.9	1165.4	1191.0	1811.2	6676.8	6766.0	6498.4	4779.5
77.5°	127.1	131.2	177.3	320.8	768.7	1063.9	1076.2	4553.0	4566.3	4027.2	2931.5
80°	51.2	54.3	90.2	198.8	468.4	716.5	768.7	2682.4	2628.1	1559.0	852.8
82.5°	15.4	16.4	35.9	112.7	245.0	509.4	518.6	1029.1	971.7	335.2	217.3
85°	1.0	1.0	8.2	34.8	87.1	128.1	345.4	335.2	297.2	84.0	96.3
87.5°	0.0	0.0	1.0	1.0	2.0	4.1	36.9	61.5	62.5	15.4	43.0
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°	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0
2.5°	2758.2	2721.3	2718.3	2689.6	2660.9	2625.0	2583.0	2552.2	2530.7	2492.8	2485.6
5°	2754.1	2704.9	2658.8	2576.8	2485.6	2387.2	2301.1	2221.2	2170.9	2137.1	2122.8
7.5°	2745.9	2683.4	2576.8	2422.1	2269.3	2097.1	1962.9	1839.9	1755.8	1706.6	1685.1
10°	2739.8	2655.7	2482.5	2247.8	2011.0	1773.2	1569.3	1386.8	1285.3	1205.4	1192.1
12.5°	2727.5	2615.8	2361.6	2043.8	1738.4	1422.7	1162.3	938.9	784.1	714.4	689.8
15°	2715.2	2573.7	2240.6	1828.6	1441.1	1051.6	735.9	520.7	414.1	381.3	379.2
17.5°	2713.1	2535.8	2109.4	1624.6	1129.5	688.8	419.2	337.2	314.7	306.5	306.5
20°	2719.3	2504.0	1980.3	1389.9	823.1	419.2	312.6	292.1	278.8	271.6	271.6
22.5°	2725.4	2471.2	1856.3	1153.1	546.3	306.5	275.7	258.3	242.9	234.7	230.6
25°	2729.5	2435.4	1718.9	915.3	356.7	266.5	241.9	219.3	200.9	190.6	190.6
27.5°	2728.5	2392.3	1580.5	682.6	276.7	236.8	207.0	183.5	165.0	153.7	154.8
30°	2720.3	2345.2	1437.0	476.6	241.9	207.0	177.3	152.7	134.3	125.0	124.0
32.5°	2714.2	2295.0	1271.0	335.2	217.3	181.4	150.7	127.1	111.7	104.5	103.5
35°	2707.0	2245.8	1113.1	255.2	195.8	156.8	127.1	107.6	95.3	89.2	89.2
37.5°	2709.0	2194.5	942.0	219.3	174.2	136.3	108.6	92.2	82.0	75.8	74.8
40°	2740.8	2163.8	773.9	198.8	154.8	117.9	94.3	79.9	69.7	63.5	62.5
42.5°	2819.7	2164.8	612.9	183.5	137.3	100.4	82.0	68.7	59.4	52.3	51.2
45°	2977.6	2207.8	470.5	167.1	118.9	87.1	70.7	58.4	49.2	43.0	42.0
47.5°	3235.9	2336.0	356.7	152.7	103.5	75.8	60.5	49.2	41.0	35.9	34.8
50°	3646.9	2567.6	280.8	135.3	87.1	65.6	51.2	41.0	33.8	28.7	27.7
52.5°	4141.0	2915.1	240.9	119.9	74.8	57.4	44.1	33.8	27.7	23.6	22.5
55°	4708.8	3330.2	222.4	104.5	63.5	49.2	35.9	27.7	22.5	19.5	17.4
57.5°	5229.5	3704.3	221.4	89.2	54.3	42.0	29.7	23.6	19.5	15.4	14.3
60°	5736.9	4016.9	208.1	73.8	47.1	34.8	25.6	19.5	16.4	13.3	12.3
62.5°	6197.1	4271.1	174.2	59.4	40.0	28.7	21.5	17.4	14.3	11.3	11.3
65°	6775.2	4595.0	133.2	48.2	32.8	23.6	18.4	15.4	13.3	10.2	10.2
67.5°	7372.7	4766.2	95.3	40.0	26.6	20.5	16.4	14.3	11.3	9.2	9.2
70°	6677.8	4027.2	68.7	32.8	22.5	17.4	14.3	13.3	11.3	9.2	8.2
72.5°	5215.1	2903.8	51.2	25.6	19.5	16.4	13.3	12.3	10.2	8.2	8.2
75°	3867.3	1693.3	38.9	20.5	15.4	13.3	13.3	12.3	10.2	8.2	7.2
77.5°	2102.3	590.4	29.7	16.4	12.3	10.2	11.3	11.3	9.2	7.2	6.1
80°	556.6	161.9	20.5	12.3	10.2	8.2	8.2	10.2	8.2	6.1	6.1
82.5°	161.9	47.1	14.3	10.2	8.2	7.2	7.2	7.2	6.1	5.1	4.1
85°	78.9	17.4	10.2	8.2	7.2	6.1	5.1	5.1	4.1	3.1	3.1
87.5°	34.8	7.2	8.2	7.2	7.2	5.1	4.1	3.1	3.1	2.0	1.0
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)