

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: P636876

Luminaire Tested: GWS-SA4B-760-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636876
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-SA4B-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11576.1 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

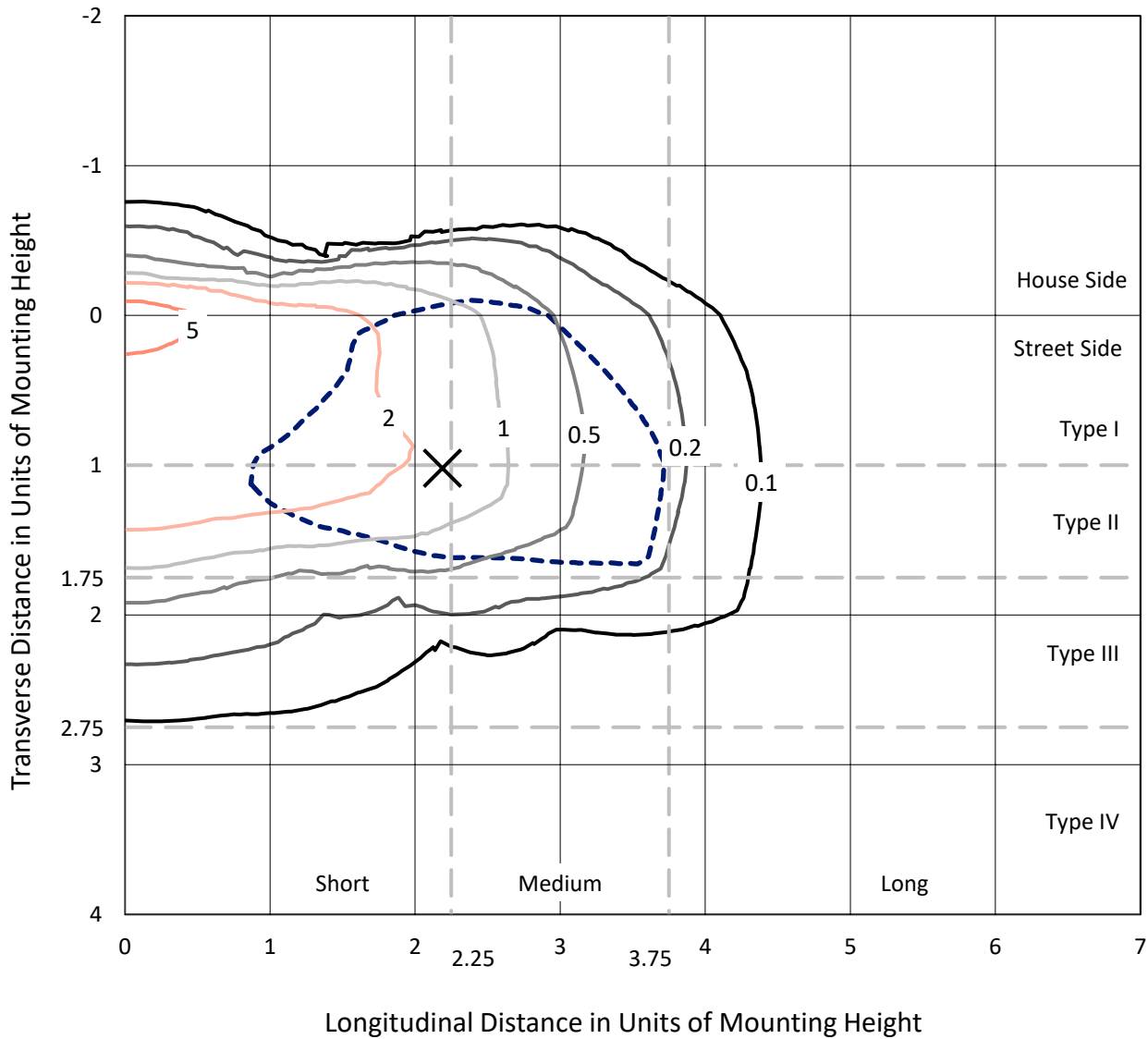
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

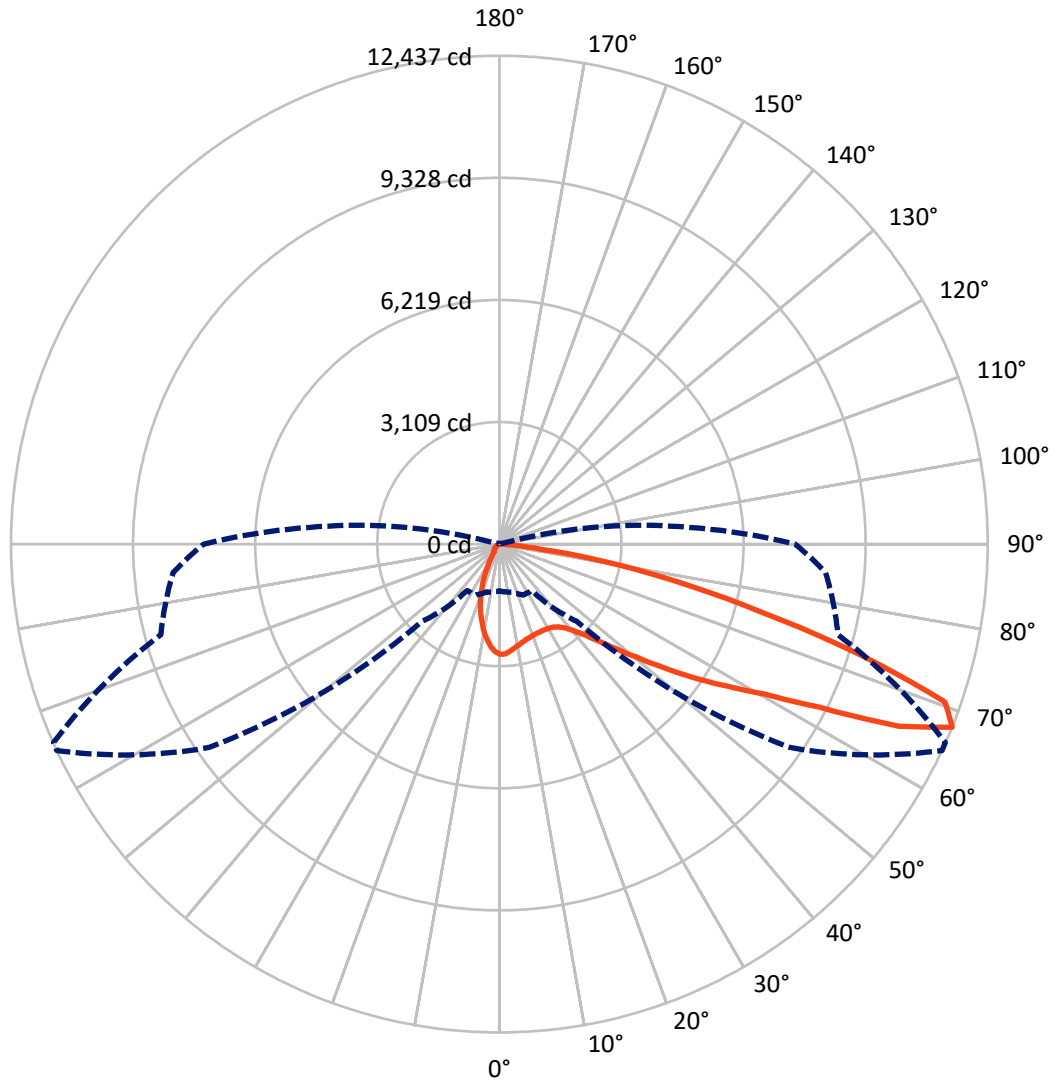
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	1445.5	0.0	1445.5
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	10130.6	0.0	10130.6
	% Fixture	87.5	0.0	87.5
Total	Lumens	11576.1	0.0	11576.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.0
10°-20°	524.2	4.5
20°-30°	749.0	6.5
30°-40°	1089.7	9.4
40°-50°	1706.7	14.7
50°-60°	2662.5	23.0
60°-70°	2924.7	25.3
70°-80°	1556.5	13.4
80°-90°	129.6	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°	11576.1	100.0
0°-180°	11576.1	100.0

Coefficient of Utilization



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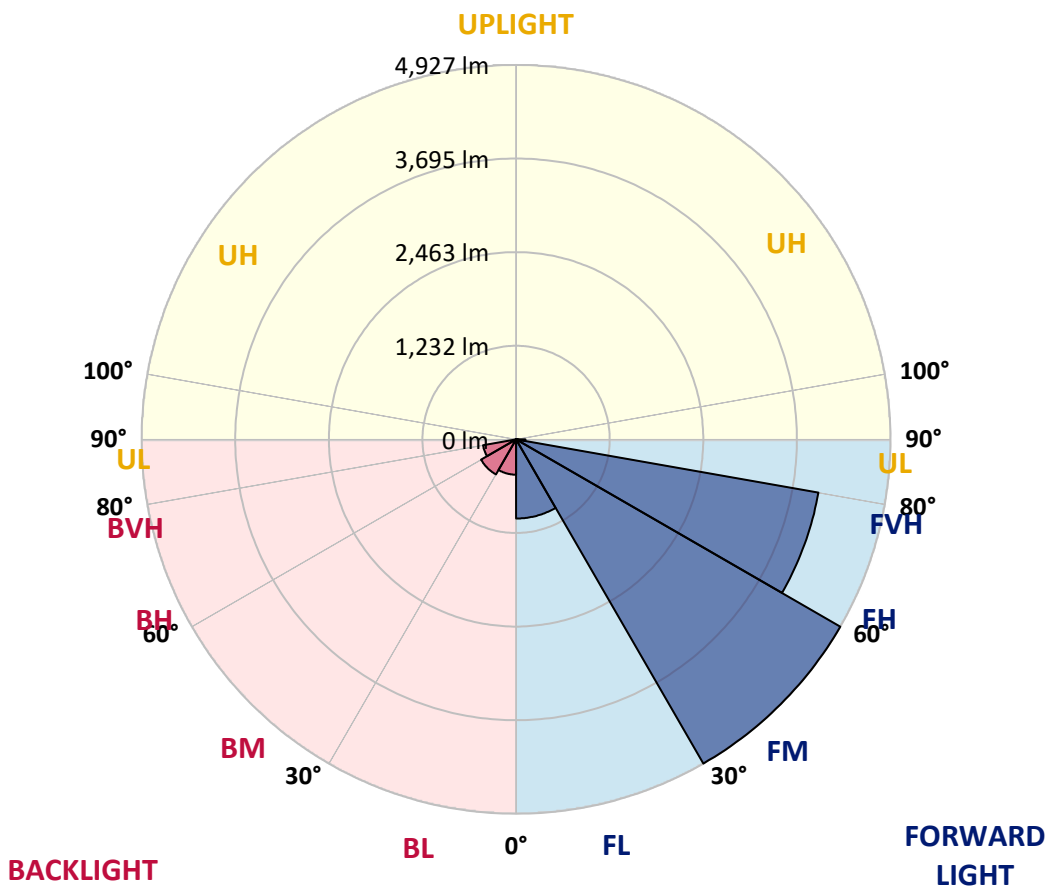
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.8	9.0			
FM (30°-60°)	4926.5	42.6			
FH (60°-80°)	4039.6	34.9			G2/5000
FVH (80°-90°)	122.7	1.1			G2/225
BL (0°-30°)	464.6	4.0	B1/500		
BM (30°-60°)	532.4	4.6	B1/1000		
BH (60°-80°)	441.5	3.8	B1/500		G1/500
BVH (80°-90°)	6.9	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°	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6
2.5°	2710.2	2718.6	2707.1	2735.3	2740.6	2772.0	2789.8	2802.3	2801.3	2817.0	2817.0
5°	2551.1	2559.5	2553.2	2583.5	2607.6	2656.8	2697.7	2744.8	2746.9	2795.0	2812.8
7.5°	2416.1	2417.1	2417.1	2454.8	2486.2	2546.9	2607.6	2679.9	2688.2	2762.6	2809.7
10°	2305.1	2308.2	2309.3	2352.2	2386.7	2460.0	2537.5	2624.4	2633.8	2734.3	2807.6
12.5°	2228.7	2229.7	2233.9	2278.9	2316.6	2393.0	2471.5	2571.0	2583.5	2701.8	2798.1
15°	2192.0	2189.9	2192.0	2229.7	2267.4	2340.7	2421.3	2528.1	2541.7	2674.6	2799.2
17.5°	2189.9	2186.8	2184.7	2213.0	2237.1	2302.0	2383.6	2499.8	2514.5	2662.1	2810.7
20°	2220.3	2218.2	2207.7	2220.3	2225.5	2278.9	2359.5	2477.8	2492.5	2660.0	2835.8
22.5°	2299.9	2294.6	2278.9	2267.4	2239.1	2270.6	2342.8	2462.1	2478.9	2665.2	2868.3
25°	2418.2	2416.1	2396.2	2367.9	2295.7	2283.1	2343.8	2462.1	2477.8	2671.5	2902.8
27.5°	2596.1	2583.5	2558.4	2509.2	2405.6	2332.3	2364.8	2468.4	2484.1	2679.9	2931.1
30°	2777.2	2776.2	2767.8	2717.5	2563.7	2426.5	2408.7	2485.1	2499.8	2687.2	2957.3
32.5°	2964.6	2967.7	2988.7	2949.9	2781.4	2566.8	2488.3	2519.7	2530.2	2701.8	2980.3
35°	3142.6	3148.8	3204.3	3217.9	3046.2	2779.3	2618.1	2588.8	2589.8	2734.3	3010.7
37.5°	3313.2	3334.1	3423.1	3489.0	3376.0	3036.8	2805.5	2706.0	2697.7	2799.2	3056.7
40°	3506.8	3546.6	3658.6	3770.6	3735.1	3377.0	3060.9	2886.1	2868.3	2918.5	3139.4
42.5°	3721.4	3764.4	3913.0	4070.0	4086.8	3788.4	3380.2	3148.8	3118.5	3119.5	3294.3
45°	3951.7	4009.3	4182.0	4408.2	4509.7	4246.9	3773.8	3503.7	3473.3	3428.3	3543.5
47.5°	4254.3	4304.5	4471.0	4731.6	4926.3	4739.0	4289.9	3960.1	3904.6	3838.7	3930.8
50°	4514.9	4558.9	4702.3	5028.9	5434.0	5373.3	4875.0	4530.6	4477.2	4365.2	4441.7
52.5°	4572.5	4607.1	4739.0	5106.4	5822.4	6174.1	5592.1	5220.5	5182.8	4975.5	5004.8
55°	4313.9	4366.3	4484.6	4892.8	5923.9	6957.2	6522.7	5998.3	5919.8	5589.0	5641.3
57.5°	3660.7	3753.9	3864.9	4395.6	5648.6	7373.8	7822.9	6822.1	6750.9	6179.4	6180.4
60°	2683.0	2758.4	2832.7	3318.4	4995.4	7345.5	9002.6	7747.5	7617.7	6662.0	6644.2
62.5°	1951.3	1990.0	1989.0	2161.7	3430.4	6861.9	9622.4	9141.9	8839.3	7178.0	7076.5
65°	1534.6	1533.6	1578.6	1635.1	1915.7	5296.9	9698.8	11177.9	10851.3	7870.0	7658.5
67.5°	1194.4	1217.5	1262.5	1428.9	1439.4	2772.0	9026.7	12437.3	12431.0	8926.2	8340.0
70°	921.2	952.6	1016.5	1259.3	1329.5	1551.4	6754.1	12038.4	12140.0	9398.3	7857.4
72.5°	591.5	589.4	683.6	1017.5	1277.1	1292.8	3735.1	9562.7	9677.8	8512.7	6353.1
75°	330.8	332.9	386.3	622.9	1190.2	1216.4	1849.7	6819.0	6910.1	6636.8	4881.3
77.5°	129.8	134.0	181.1	327.7	785.1	1086.6	1099.2	4650.0	4663.6	4113.0	2993.9
80°	52.3	55.5	92.1	203.1	478.4	731.7	785.1	2739.5	2684.0	1592.2	871.0
82.5°	15.7	16.7	36.6	115.2	250.2	520.3	529.7	1051.0	992.4	342.3	221.9
85°	1.0	1.0	8.4	35.6	89.0	130.9	352.8	342.3	303.6	85.8	98.4
87.5°	0.0	0.0	1.0	1.0	2.1	4.2	37.7	62.8	63.9	15.7	44.0
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°	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6	2807.6
2.5°	2817.0	2779.3	2776.2	2746.9	2717.5	2680.9	2638.0	2606.6	2584.6	2545.9	2538.5
5°	2812.8	2762.6	2715.4	2631.7	2538.5	2438.0	2350.1	2268.5	2217.2	2182.6	2168.0
7.5°	2804.4	2740.6	2631.7	2473.6	2317.7	2141.8	2004.7	1879.0	1793.2	1743.0	1721.0
10°	2798.1	2712.3	2535.4	2295.7	2053.9	1811.0	1602.7	1416.3	1312.7	1231.1	1217.5
12.5°	2785.6	2671.5	2411.9	2087.4	1775.4	1453.0	1187.1	958.9	800.8	729.6	704.5
15°	2773.0	2628.6	2288.3	1867.5	1471.8	1074.0	751.6	531.8	422.9	389.4	387.3
17.5°	2770.9	2589.8	2154.4	1659.2	1153.6	703.5	428.1	344.4	321.4	313.0	313.0
20°	2777.2	2557.4	2022.5	1419.5	840.6	428.1	319.3	298.3	284.7	277.4	277.4
22.5°	2783.5	2523.9	1895.8	1177.7	558.0	313.0	281.6	263.8	248.1	239.7	235.5
25°	2787.7	2487.2	1755.5	934.8	364.3	272.2	247.0	224.0	205.2	194.7	194.7
27.5°	2786.6	2443.3	1614.2	697.2	282.6	241.8	211.5	187.4	168.5	157.0	158.1
30°	2778.3	2395.1	1467.6	486.8	247.0	211.5	181.1	156.0	137.1	127.7	126.7
32.5°	2772.0	2343.8	1298.1	342.3	221.9	185.3	153.9	129.8	114.1	106.8	105.7
35°	2764.6	2293.6	1136.8	260.7	199.9	160.2	129.8	109.9	97.4	91.1	91.1
37.5°	2766.7	2241.2	962.0	224.0	178.0	139.2	111.0	94.2	83.7	77.5	76.4
40°	2799.2	2209.8	790.3	203.1	158.1	120.4	96.3	81.7	71.2	64.9	63.9
42.5°	2879.8	2210.9	626.0	187.4	140.3	102.6	83.7	70.1	60.7	53.4	52.3
45°	3041.0	2254.8	480.5	170.6	121.4	89.0	72.2	59.7	50.2	44.0	42.9
47.5°	3304.8	2385.7	364.3	156.0	105.7	77.5	61.8	50.2	41.9	36.6	35.6
50°	3724.6	2622.3	286.8	138.2	89.0	67.0	52.3	41.9	34.5	29.3	28.3
52.5°	4229.1	2977.2	246.0	122.5	76.4	58.6	45.0	34.5	28.3	24.1	23.0
55°	4809.1	3401.1	227.2	106.8	64.9	50.2	36.6	28.3	23.0	19.9	17.8
57.5°	5340.9	3783.2	226.1	91.1	55.5	42.9	30.4	24.1	19.9	15.7	14.7
60°	5859.0	4102.5	212.5	75.4	48.2	35.6	26.2	19.9	16.7	13.6	12.6
62.5°	6329.1	4362.1	178.0	60.7	40.8	29.3	22.0	17.8	14.7	11.5	11.5
65°	6919.5	4692.9	136.1	49.2	33.5	24.1	18.8	15.7	13.6	10.5	10.5
67.5°	7529.8	4867.7	97.4	40.8	27.2	20.9	16.7	14.7	11.5	9.4	9.4
70°	6820.0	4113.0	70.1	33.5	23.0	17.8	14.7	13.6	11.5	9.4	8.4
72.5°	5326.2	2965.6	52.3	26.2	19.9	16.7	13.6	12.6	10.5	8.4	8.4
75°	3949.6	1729.3	39.8	20.9	15.7	13.6	13.6	12.6	10.5	8.4	7.3
77.5°	2147.0	603.0	30.4	16.7	12.6	10.5	11.5	11.5	9.4	7.3	6.3
80°	568.4	165.4	20.9	12.6	10.5	8.4	8.4	10.5	8.4	6.3	6.3
82.5°	165.4	48.2	14.7	10.5	8.4	7.3	7.3	7.3	6.3	5.2	4.2
85°	80.6	17.8	10.5	8.4	7.3	6.3	5.2	5.2	4.2	3.1	3.1
87.5°	35.6	7.3	8.4	7.3	7.3	5.2	4.2	3.1	3.1	2.1	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)