

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: P639523

Luminaire Tested: GWS-SA5C-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16845.5 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

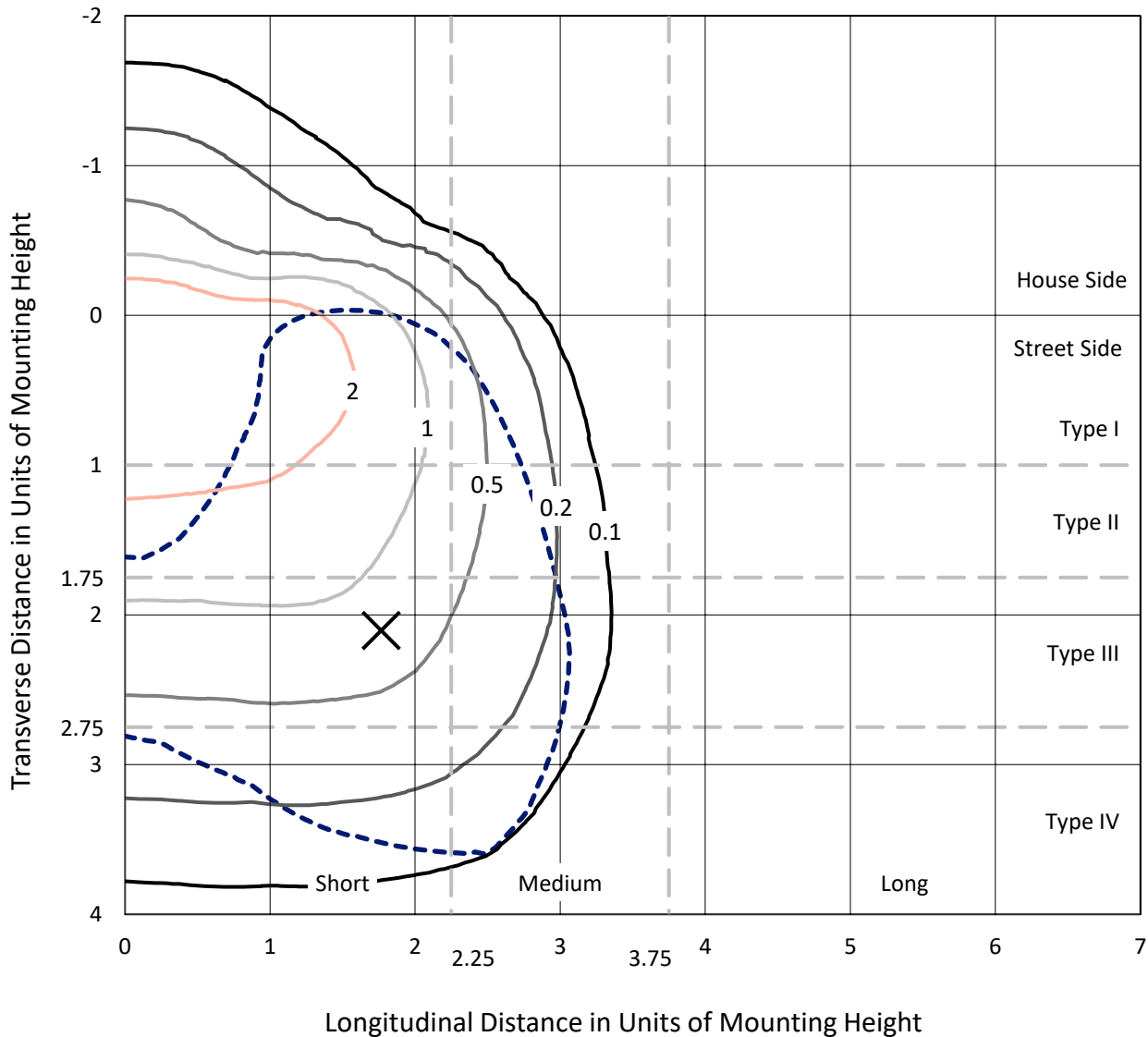
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

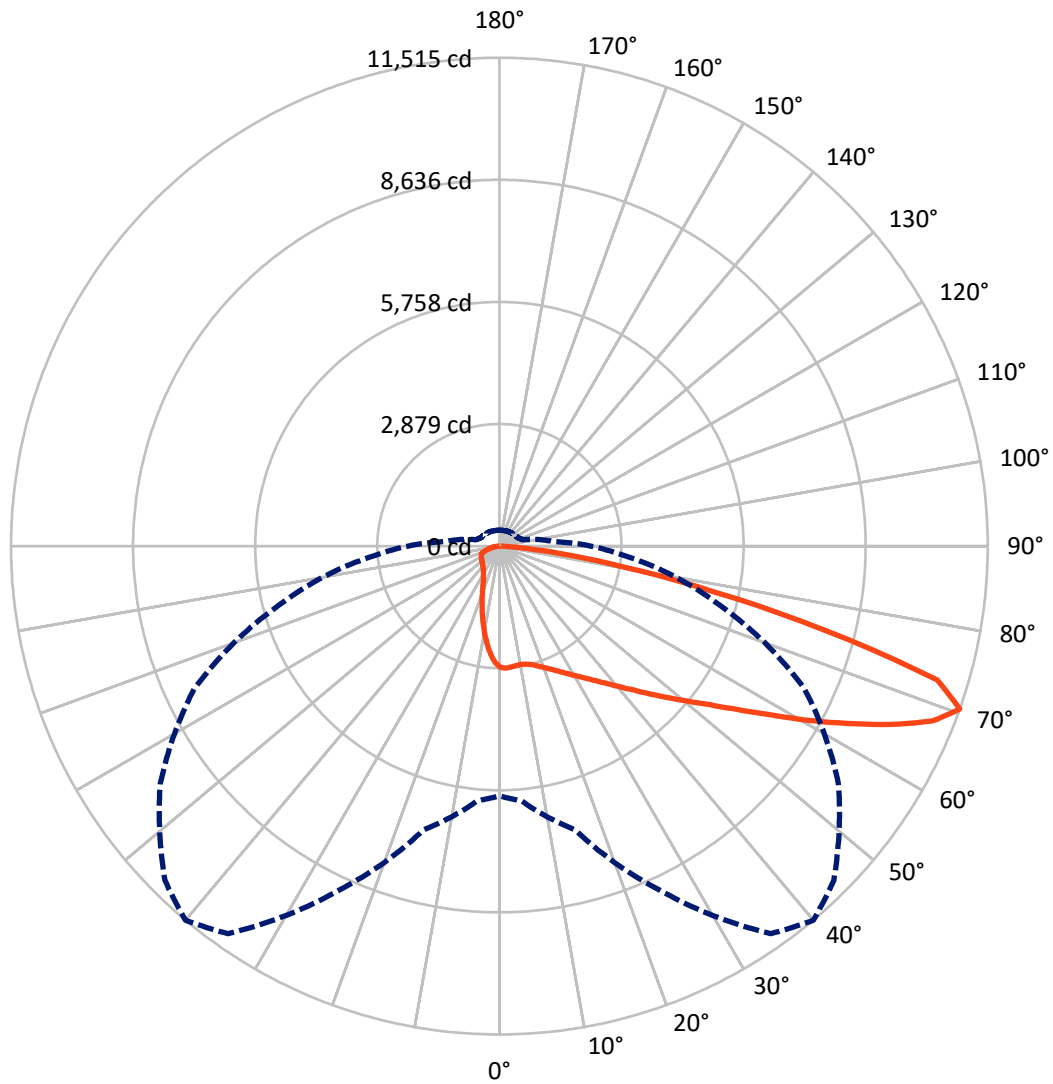
✕ Max cd
 - - - 1/2 Max cd



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	2594.6	0.0	2594.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14250.9	0.0	14250.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	16845.5	0.0	16845.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.5
10°-20°	658.7	3.9
20°-30°	1034.3	6.1
30°-40°	1555.1	9.2
40°-50°	2400.3	14.2
50°-60°	3564.6	21.2
60°-70°	4493.1	26.7
70°-80°	2598.4	15.4
80°-90°	288.4	1.7
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°	16845.5	100.0
0°-180°	16845.5	100.0

Coefficient of Utilization



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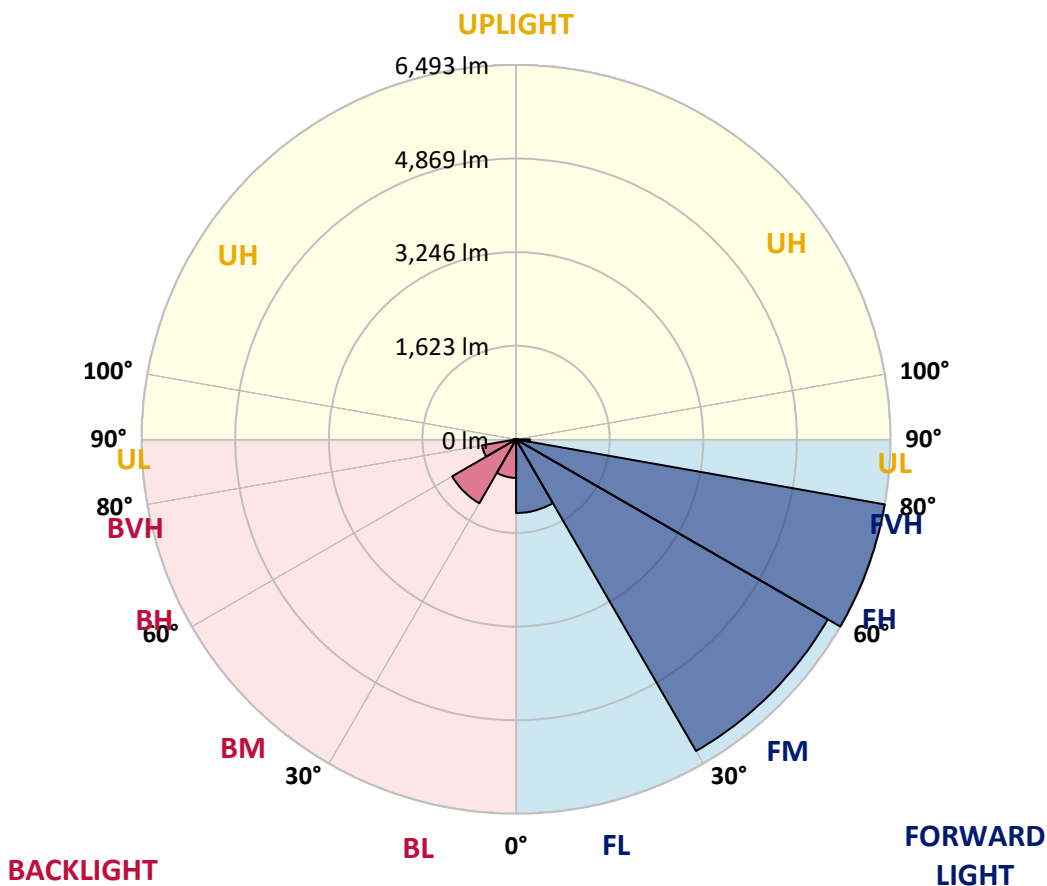
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.0	7.6			
FM (30°-60°)	6241.0	37.0			
FH (60°-80°)	6492.6	38.5			G3/7500
FVH (80°-90°)	240.2	1.4			G3/500
BL (0°-30°)	668.7	4.0	B2/1000		
BM (30°-60°)	1278.9	7.6	B2/2500		
BH (60°-80°)	598.8	3.6	B2/1000		G2/1000
BVH (80°-90°)	48.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6
2.5°	2878.2	2883.2	2887.0	2892.0	2889.5	2881.9	2888.2	2888.2	2874.4	2859.3	2845.5
5°	2881.9	2888.2	2887.0	2885.7	2875.6	2863.1	2863.1	2855.5	2831.6	2807.7	2785.1
7.5°	2874.4	2873.1	2871.9	2868.1	2856.8	2843.0	2840.4	2825.4	2793.9	2761.2	2728.5
10°	2840.4	2839.2	2843.0	2851.8	2849.2	2836.7	2836.7	2822.8	2786.4	2746.1	2703.4
12.5°	2812.8	2812.8	2827.9	2851.8	2860.6	2855.5	2856.8	2846.7	2805.2	2757.5	2707.2
15°	2816.6	2817.8	2850.5	2889.5	2905.8	2902.1	2903.3	2892.0	2845.5	2797.7	2729.8
17.5°	2841.7	2848.0	2904.6	2958.6	2980.0	2975.0	2966.2	2947.3	2894.5	2840.4	2757.5
20°	2894.5	2904.6	2977.5	3045.4	3070.5	3059.2	3044.1	3006.4	2948.6	2889.5	2787.6
22.5°	2998.9	3005.2	3085.6	3152.3	3172.4	3158.6	3128.4	3074.3	3007.7	2946.1	2824.1
25°	3146.0	3153.5	3230.2	3291.8	3286.8	3270.5	3229.0	3162.3	3083.1	3017.7	2876.9
27.5°	3320.8	3333.3	3408.8	3457.8	3425.1	3401.2	3354.7	3274.2	3185.0	3125.9	2957.4
30°	3511.9	3516.9	3581.0	3630.1	3579.8	3547.1	3490.5	3403.8	3323.3	3279.3	3078.1
32.5°	3696.7	3701.8	3757.1	3784.7	3731.9	3708.0	3659.0	3567.2	3510.6	3486.7	3257.9
35°	3891.6	3890.4	3935.6	3959.5	3905.4	3895.4	3845.1	3774.7	3764.6	3796.1	3520.7
37.5°	4086.5	4075.2	4099.1	4130.5	4100.3	4110.4	4077.7	4053.8	4092.8	4174.5	3870.2
40°	4242.4	4242.4	4267.6	4306.6	4316.6	4360.6	4341.8	4373.2	4498.9	4693.8	4302.8
42.5°	4380.7	4382.0	4434.8	4495.2	4568.1	4636.0	4651.1	4732.8	4993.1	5298.6	4846.0
45°	4525.3	4526.6	4598.3	4686.3	4840.9	4970.5	5000.6	5184.2	5556.4	5928.6	5435.7
47.5°	4692.6	4678.7	4778.1	4925.2	5145.2	5331.3	5409.3	5669.6	6139.8	6597.5	5991.5
50°	4881.2	4852.3	4962.9	5216.9	5488.5	5743.8	5874.5	6172.5	6766.0	7214.9	6514.5
52.5°	5093.7	5077.3	5193.0	5502.3	5917.3	6211.5	6388.8	6779.8	7374.6	7829.8	6929.5
55°	5357.7	5318.8	5486.0	5879.5	6420.2	6794.9	7004.9	7380.9	8039.7	8388.0	7246.3
57.5°	5646.9	5604.2	5828.0	6351.1	7074.1	7485.2	7748.0	8057.3	8665.9	8815.6	7432.4
60°	5958.8	5944.9	6210.2	6904.3	7853.6	8331.5	8521.3	8801.7	9210.4	9063.3	7385.9
62.5°	6244.2	6239.2	6625.2	7504.1	8679.8	9205.3	9356.2	9430.4	9602.7	9046.9	7016.2
65°	6544.7	6587.5	7109.3	8199.4	9626.6	10142.1	10205.0	10016.4	9734.7	8618.1	6259.3
67.5°	6582.4	6665.4	7413.6	8850.8	10524.3	11011.0	10960.7	10238.9	9344.9	7424.9	4906.3
70°	5887.1	6031.7	6928.2	8950.1	11156.8	11515.2	11151.8	9759.9	7930.3	5379.1	3085.6
72.5°	4918.9	5043.4	5835.5	7632.3	10340.8	10797.2	10305.6	8261.0	5604.2	3085.6	1571.7
75°	3828.7	3973.3	4703.9	6066.9	7741.7	7924.1	7677.6	5761.4	3080.6	1272.5	714.2
77.5°	2336.2	2440.6	3008.9	4110.4	5416.8	5144.0	4359.4	3230.2	1351.7	609.8	441.3
80°	1033.6	1097.7	1482.5	2208.0	3129.6	2958.6	2332.5	1379.4	739.3	387.3	308.1
82.5°	554.5	596.0	730.5	873.9	1374.3	1437.2	1165.6	794.7	397.3	221.3	176.0
85°	243.9	267.8	332.0	316.9	451.4	443.9	447.6	545.7	189.9	101.8	114.4
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	13.8	72.9	18.9	30.2	26.4
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°	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6	2860.6
2.5°	2830.4	2807.7	2801.5	2793.9	2780.1	2756.2	2738.6	2718.5	2709.7	2699.6	2700.9
5°	2760.0	2732.3	2705.9	2672.0	2629.2	2581.4	2548.7	2511.0	2490.9	2472.0	2477.1
7.5°	2699.6	2656.9	2602.8	2531.1	2454.4	2368.9	2299.8	2245.7	2209.2	2184.1	2196.7
10°	2661.9	2611.6	2517.3	2400.4	2270.8	2140.1	2040.7	1947.7	1889.9	1844.6	1842.1
12.5°	2654.3	2589.0	2451.9	2282.2	2094.8	1920.0	1774.2	1648.4	1571.7	1515.2	1536.5
15°	2661.9	2578.9	2395.3	2172.8	1936.4	1700.0	1518.9	1374.3	1282.5	1231.0	1227.2
17.5°	2670.7	2568.8	2331.2	2054.6	1770.4	1500.1	1290.1	1136.7	1042.4	990.8	992.1
20°	2678.2	2553.8	2255.8	1925.1	1601.9	1314.0	1096.4	950.6	866.3	828.6	834.9
22.5°	2690.8	2538.7	2175.3	1786.7	1429.7	1134.2	943.0	824.8	774.6	749.4	750.7
25°	2714.7	2529.9	2092.3	1635.9	1259.9	990.8	837.4	758.2	726.8	711.7	710.4
27.5°	2763.7	2537.4	2005.5	1490.0	1106.5	881.4	769.5	718.0	696.6	686.5	685.3
30°	2845.5	2567.6	1930.1	1341.6	974.5	795.9	723.0	691.6	679.0	670.2	668.9
32.5°	2970.0	2624.2	1848.4	1203.3	867.6	733.1	686.5	670.2	661.4	656.4	656.4
35°	3158.6	2727.3	1767.9	1082.6	784.6	684.0	657.6	651.3	643.8	641.3	643.8
37.5°	3430.2	2892.0	1695.0	977.0	725.5	646.3	626.2	628.7	622.4	626.2	630.0
40°	3774.7	3112.0	1633.3	890.2	681.5	618.6	598.5	607.3	603.5	607.3	613.6
42.5°	4211.0	3384.9	1586.8	822.3	650.1	596.0	577.1	585.9	583.4	588.5	594.7
45°	4697.6	3744.5	1565.4	774.6	627.4	579.7	559.5	565.8	563.3	567.1	573.4
47.5°	5164.1	4071.4	1584.3	746.9	608.6	565.8	544.4	547.0	545.7	544.4	548.2
50°	5566.5	4331.7	1638.4	738.1	596.0	552.0	531.9	533.1	529.4	521.8	524.3
52.5°	5894.6	4540.4	1671.1	738.1	589.7	536.9	518.0	519.3	511.8	501.7	503.0
55°	6110.9	4624.7	1644.7	736.8	587.2	524.3	504.2	505.5	497.9	485.4	486.6
57.5°	6172.5	4542.9	1534.0	723.0	584.7	514.3	490.4	492.9	487.9	474.0	474.0
60°	6000.3	4243.7	1331.6	691.6	578.4	508.0	480.3	484.1	481.6	467.7	467.7
62.5°	5548.9	3711.8	1090.2	643.8	560.8	500.4	471.5	479.1	485.4	477.8	476.6
65°	4703.9	2973.7	886.5	591.0	538.2	487.9	458.9	477.8	491.6	501.7	501.7
67.5°	3529.5	2128.8	723.0	535.6	504.2	462.7	442.6	460.2	470.3	476.6	480.3
70°	2151.4	1252.4	569.6	471.5	455.2	425.0	409.9	392.3	378.5	376.0	377.2
72.5°	1052.4	716.7	462.7	401.1	388.5	360.9	326.9	319.4	313.1	309.3	308.1
75°	579.7	499.2	382.2	333.2	310.6	276.6	269.1	256.5	254.0	249.0	250.2
77.5°	409.9	393.6	315.6	270.3	236.4	218.8	222.6	213.8	213.8	210.0	208.7
80°	308.1	309.3	242.7	197.4	174.8	168.5	172.3	172.3	169.7	168.5	167.2
82.5°	194.9	220.0	163.5	127.0	124.5	125.7	124.5	123.2	125.7	122.0	120.7
85°	134.5	158.4	99.3	75.4	75.4	74.2	76.7	75.4	78.0	74.2	74.2
87.5°	30.2	70.4	36.5	22.6	23.9	22.6	23.9	25.1	27.7	28.9	28.9
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)