

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: P639761

Luminaire Tested: GWS-SA5C-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14704.5 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

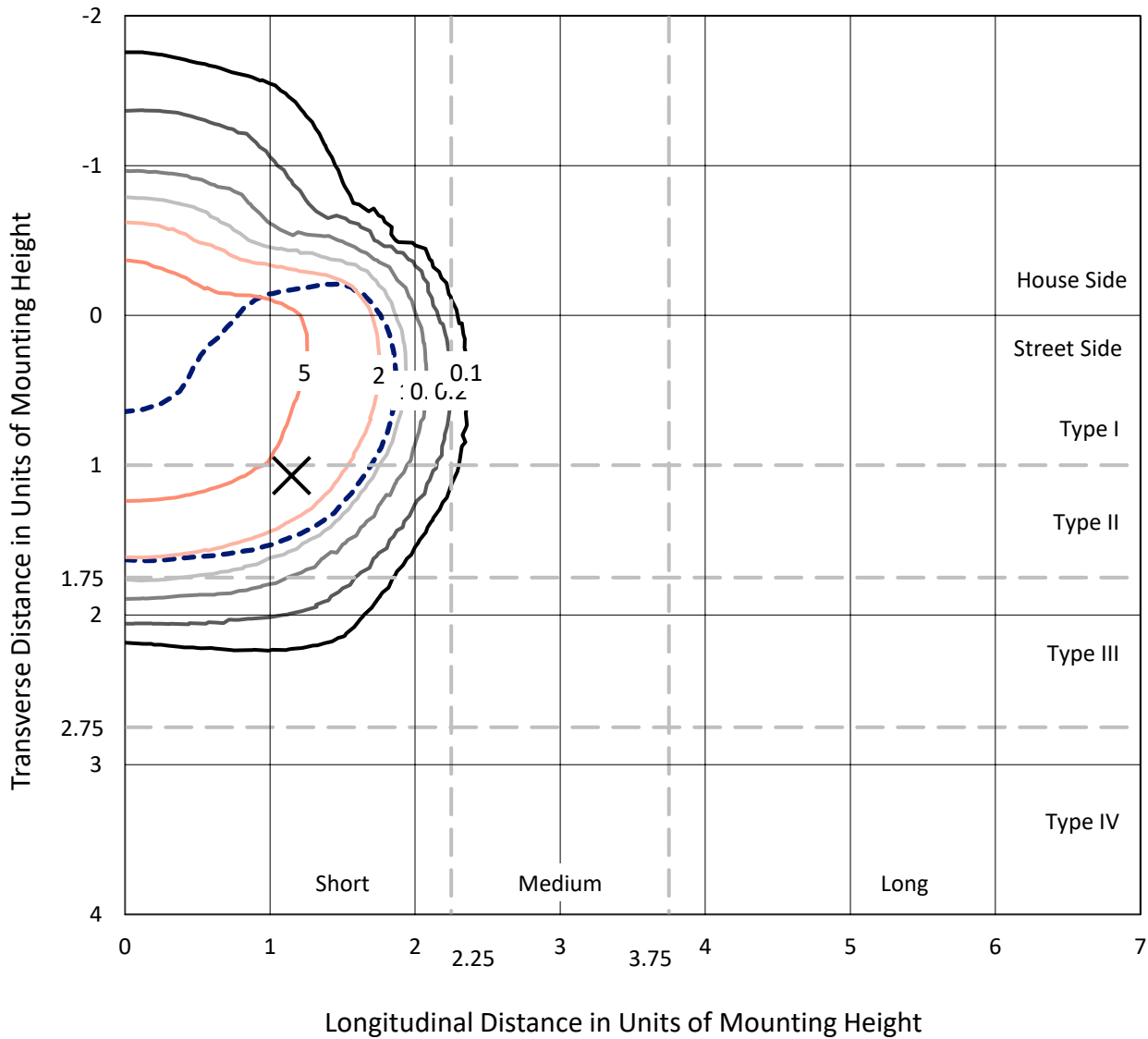
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

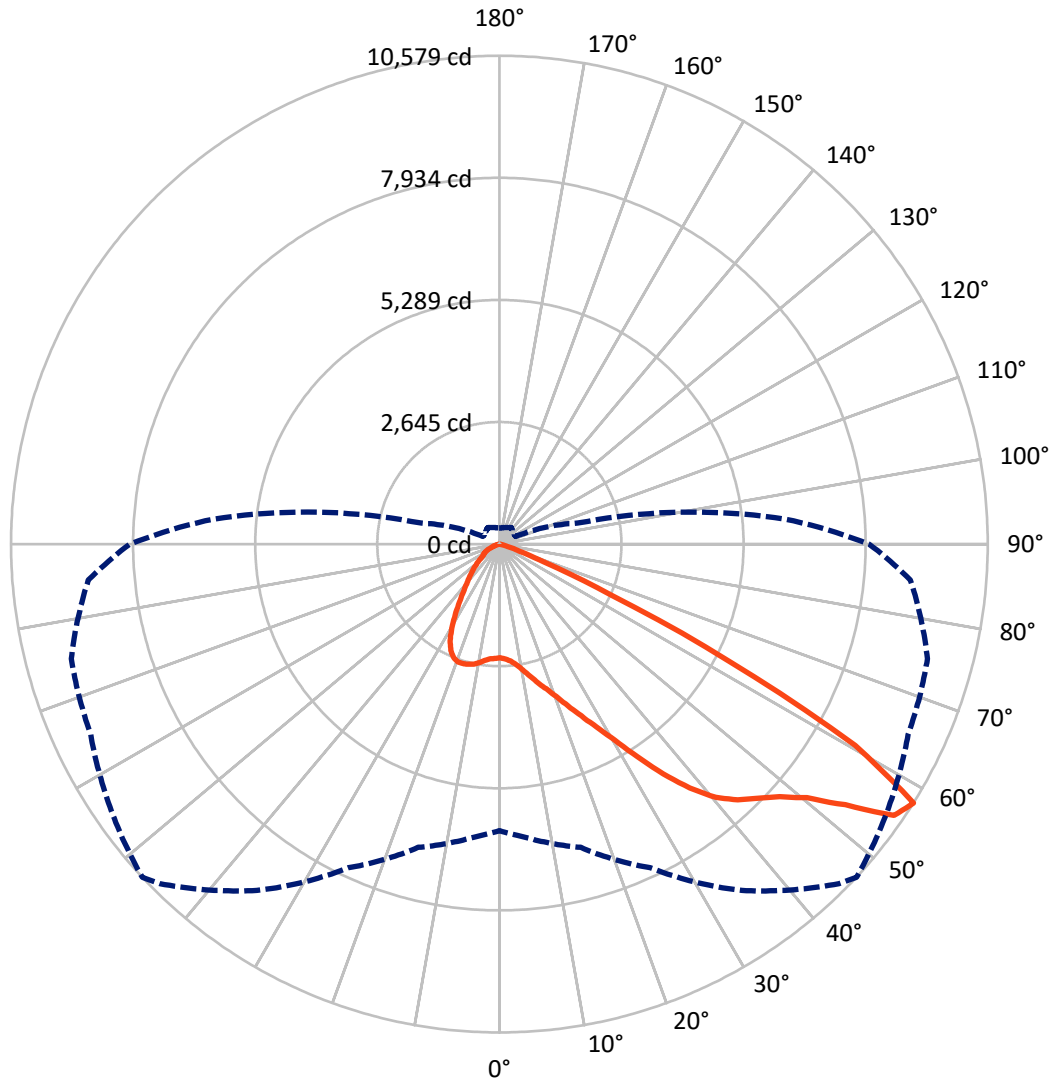
✕ Max cd
 - - - 1/2 Max cd



Based on 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 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3190.1	0.0	3190.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11514.4	0.0	11514.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	14704.5	0.0	14704.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.7
10°-20°	826.3	5.6
20°-30°	1534.3	10.4
30°-40°	2456.1	16.7
40°-50°	3590.3	24.4
50°-60°	4431.1	30.1
60°-70°	1480.6	10.1
70°-80°	138.0	0.9
80°-90°	2.9	0.0
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°	14704.5	100.0
0°-180°	14704.5	100.0

Coefficient of Utilization



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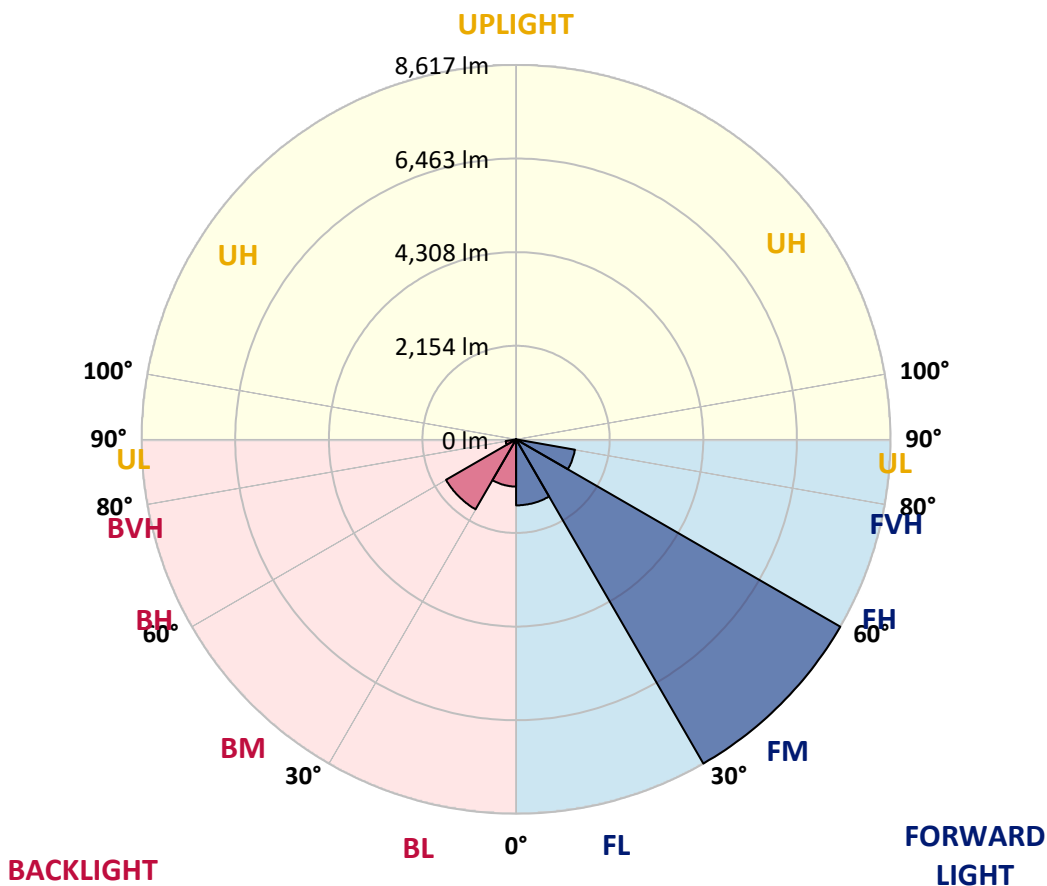
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.7	10.3			
FM (30°-60°)	8616.7	58.6			
FH (60°-80°)	1376.0	9.4			G1/1800
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	1085.9	7.4	B3/2500		
BM (30°-60°)	1860.8	12.7	B2/2500		
BH (60°-80°)	242.5	1.6	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5
2.5°	2487.2	2485.4	2483.7	2494.0	2490.6	2488.9	2492.3	2492.3	2492.3	2482.0	2461.5
5°	2546.9	2546.9	2545.2	2555.4	2546.9	2541.8	2543.5	2543.5	2536.7	2517.9	2492.3
7.5°	2640.8	2637.4	2634.0	2644.2	2635.7	2634.0	2637.4	2627.1	2615.2	2584.5	2548.6
10°	2775.6	2775.6	2770.5	2780.8	2773.9	2770.5	2770.5	2763.7	2741.5	2693.7	2640.8
12.5°	2961.7	2953.2	2941.2	2932.7	2929.3	2927.6	2929.3	2919.0	2895.1	2833.7	2760.3
15°	3164.8	3158.0	3139.2	3125.6	3106.8	3103.4	3113.6	3105.1	3081.2	2997.6	2893.4
17.5°	3420.9	3429.4	3381.6	3352.6	3298.0	3294.6	3298.0	3311.7	3294.6	3187.0	3035.1
20°	3639.4	3646.2	3610.4	3589.9	3540.4	3518.2	3525.0	3547.2	3528.4	3402.1	3190.5
22.5°	3873.3	3881.8	3844.3	3801.6	3779.4	3779.4	3805.0	3835.7	3810.1	3644.5	3368.0
25°	4153.2	4160.1	4129.3	4073.0	4033.7	4083.2	4120.8	4202.7	4160.1	3934.7	3578.0
27.5°	4474.1	4475.9	4431.5	4373.4	4352.9	4445.1	4482.7	4609.0	4591.9	4260.8	3799.9
30°	4817.3	4819.0	4808.7	4769.5	4750.7	4871.9	4923.1	5105.8	5093.8	4665.3	4102.0
32.5°	5174.0	5174.0	5192.8	5189.4	5211.6	5409.6	5491.5	5699.8	5687.9	5160.4	4477.6
35°	5532.5	5534.2	5566.7	5648.6	5740.8	6003.7	6111.2	6363.8	6336.5	5752.7	4957.2
37.5°	5940.5	5923.4	5967.8	6090.7	6295.6	6599.4	6701.8	6942.5	6911.8	6358.7	5583.7
40°	6432.1	6401.4	6401.4	6544.8	6776.9	7126.9	7213.9	7333.4	7229.3	6848.6	6198.3
42.5°	6975.0	6945.9	6908.4	7034.7	7229.3	7502.4	7574.1	7541.7	7456.3	7311.2	6898.1
45°	7524.6	7480.2	7505.8	7582.7	7695.3	7825.1	7852.4	7702.2	7662.9	7703.9	7476.8
47.5°	7942.8	7912.1	7975.3	8082.8	8175.0	8193.8	8175.0	7966.7	7963.3	8108.4	7878.0
50°	8082.8	8086.2	8260.4	8495.9	8644.4	8659.8	8634.2	8395.2	8362.8	8405.5	8094.8
52.5°	8096.5	8110.1	8364.5	8813.4	9218.0	9402.4	9381.9	9124.1	8806.6	8760.5	8422.5
55°	7767.0	7847.3	8202.3	8857.8	9718.2	10307.1	10375.4	9882.0	9410.9	9371.6	9127.5
57.5°	6208.5	6372.4	6800.8	7734.6	9160.0	10401.0	10578.5	10223.5	9767.7	9600.4	8938.1
60°	3711.1	3914.2	4325.6	5471.1	6971.5	8548.8	8854.4	8903.9	8693.9	8210.9	6857.2
62.5°	1592.7	1575.6	2082.6	2960.0	4146.4	5433.5	5571.8	5786.9	5969.5	5464.2	4161.8
65°	546.3	594.0	826.2	1334.9	2075.8	2523.0	2645.9	2838.8	3098.3	2557.1	1524.4
67.5°	338.0	358.5	476.3	788.7	1119.8	1102.7	1048.1	1017.4	990.1	677.7	418.2
70°	245.8	262.9	334.6	542.8	752.8	529.2	459.2	372.1	413.1	380.7	297.0
72.5°	165.6	179.2	230.5	329.5	385.8	257.8	239.0	271.4	327.8	312.4	242.4
75°	99.0	107.5	131.4	160.5	157.0	133.1	134.9	191.2	250.9	233.9	172.4
77.5°	68.3	71.7	87.1	104.1	76.8	41.0	37.6	52.9	85.4	85.4	58.0
80°	17.1	22.2	22.2	13.7	11.9	10.2	10.2	15.4	23.9	17.1	8.5
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
85°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
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°	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5	2461.5
2.5°	2473.5	2453.0	2466.7	2463.3	2473.5	2476.9	2461.5	2458.1	2459.8	2439.4	2432.5
5°	2497.4	2473.5	2480.3	2473.5	2485.4	2495.7	2490.6	2497.4	2505.9	2490.6	2483.7
7.5°	2548.6	2524.7	2523.0	2512.8	2529.8	2536.7	2535.0	2553.7	2570.8	2560.6	2550.3
10°	2637.4	2604.9	2601.5	2593.0	2598.1	2603.2	2584.5	2587.9	2603.2	2591.3	2586.2
12.5°	2746.6	2707.4	2698.8	2678.3	2678.3	2652.7	2611.8	2603.2	2615.2	2606.6	2598.1
15°	2864.4	2811.5	2797.8	2762.0	2727.8	2680.0	2637.4	2627.1	2635.7	2625.4	2618.6
17.5°	2995.9	2936.1	2891.7	2828.6	2753.5	2697.1	2649.3	2627.1	2613.5	2593.0	2591.3
20°	3125.6	3047.1	2972.0	2871.2	2772.2	2686.9	2608.4	2550.3	2500.8	2470.1	2458.1
22.5°	3275.8	3159.7	3038.5	2896.8	2755.2	2625.4	2487.2	2388.1	2302.8	2273.8	2260.1
25°	3436.3	3286.0	3105.1	2920.7	2697.1	2488.9	2301.1	2154.3	2041.6	2004.1	1988.7
27.5°	3613.8	3407.2	3173.4	2915.6	2577.6	2294.3	2045.0	1862.4	1751.4	1717.3	1729.2
30°	3839.1	3564.3	3258.7	2862.7	2398.4	2021.1	1729.2	1575.6	1492.0	1459.5	1461.2
32.5°	4139.6	3789.6	3383.3	2750.0	2167.9	1710.5	1454.4	1341.7	1285.4	1242.7	1239.3
35°	4569.7	4132.7	3499.4	2569.1	1888.0	1433.9	1247.8	1159.1	1080.6	1031.1	1039.6
37.5°	5085.3	4564.6	3562.6	2325.0	1573.9	1218.8	1092.5	1002.0	913.3	839.9	848.4
40°	5696.4	5129.6	3557.5	2004.1	1287.1	1072.0	962.8	856.9	746.0	679.4	686.2
42.5°	6377.5	5664.0	3446.5	1664.4	1066.9	952.5	838.2	705.0	597.5	556.5	558.2
45°	6968.1	6097.5	3251.9	1312.7	897.9	836.4	708.4	571.9	524.1	495.0	493.3
47.5°	7405.1	6415.0	2973.7	1032.8	761.3	730.6	582.1	512.1	474.6	450.7	447.2
50°	7649.2	6526.0	2666.4	809.1	643.6	619.7	520.6	464.3	438.7	423.3	419.9
52.5°	7977.0	6659.2	2446.2	638.4	539.4	507.0	479.7	431.9	414.8	402.9	397.7
55°	8495.9	6916.9	2255.0	507.0	449.0	442.1	452.4	413.1	402.9	384.1	377.3
57.5°	8007.7	6213.6	1751.4	392.6	379.0	404.6	437.0	394.3	368.7	351.6	344.8
60°	5634.9	4131.0	880.8	315.8	338.0	379.0	411.4	356.8	331.2	334.6	331.2
62.5°	3106.8	2067.2	396.0	264.6	293.6	334.6	351.6	309.0	291.9	320.9	326.0
65°	1015.7	703.3	228.7	204.8	232.2	273.1	303.9	293.6	290.2	324.3	334.6
67.5°	312.4	232.2	155.3	146.8	160.5	201.4	256.1	317.5	341.4	351.6	356.8
70°	233.9	182.7	133.1	124.6	131.4	153.6	216.8	264.6	249.2	250.9	247.5
72.5°	187.8	145.1	114.4	109.3	109.3	105.8	114.4	143.4	162.2	170.7	170.7
75°	131.4	102.4	87.1	80.2	63.2	51.2	46.1	46.1	41.0	39.3	37.6
77.5°	44.4	37.6	34.1	27.3	18.8	15.4	13.7	11.9	8.5	5.1	3.4
80°	6.8	5.1	3.4	3.4	3.4	1.7	1.7	1.7	0.0	0.0	0.0
82.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0
85°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	0.0	0.0	0.0	0.0
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)