

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: P637781

Luminaire Tested: GWS-SA4D-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637781
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-SA4D-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15122.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

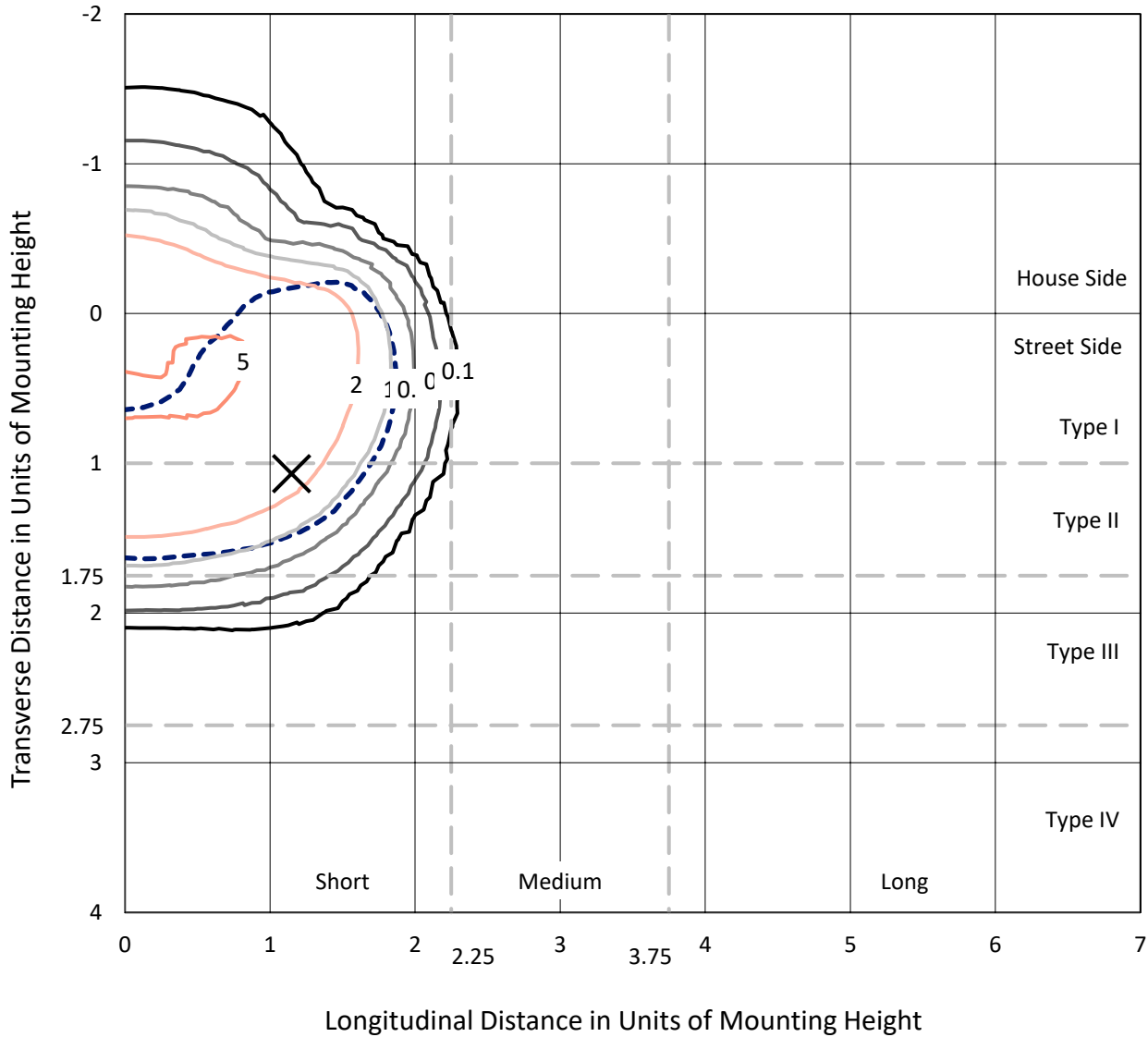
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

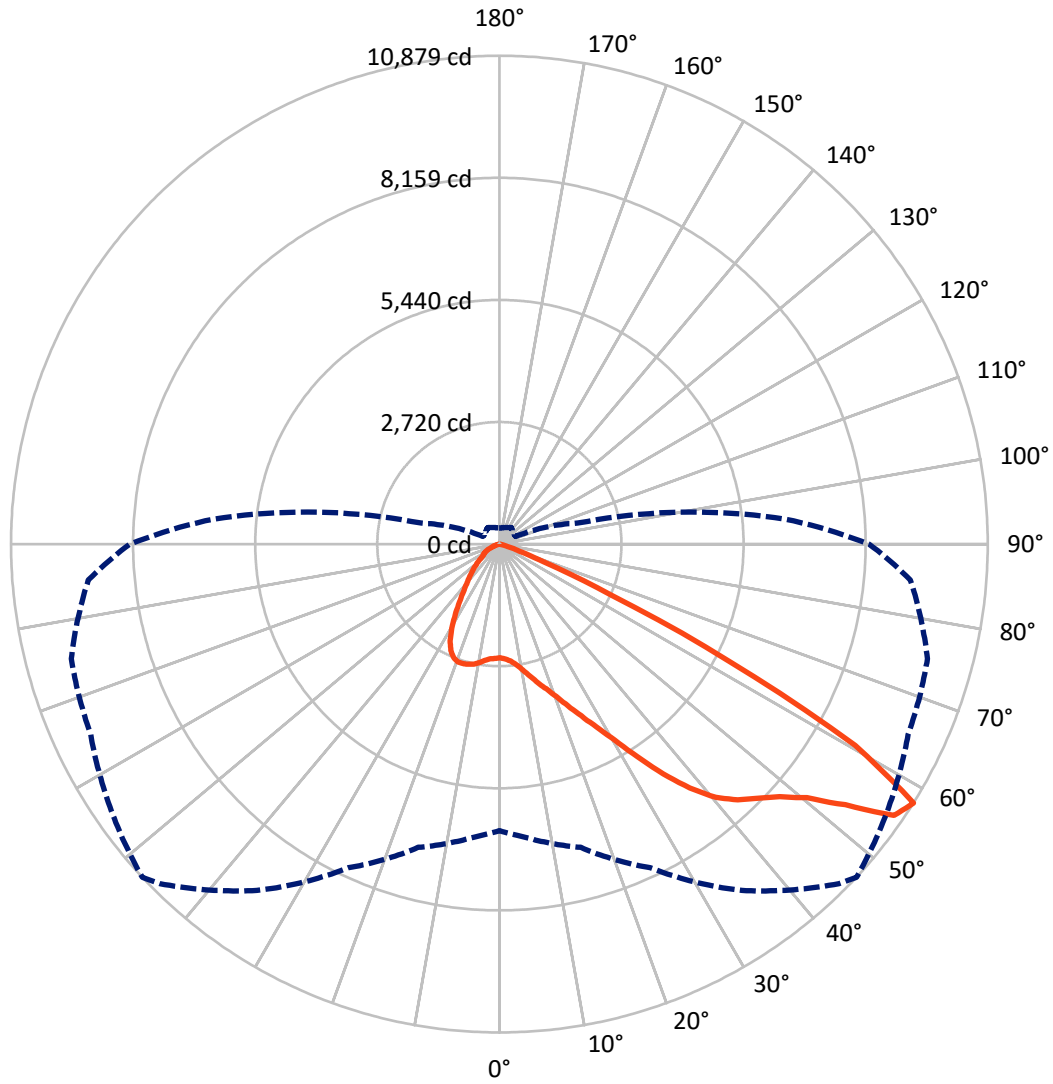
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3280.8	0.0	3280.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11841.5	0.0	11841.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	15122.2	0.0	15122.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	1.7
10°-20°	849.8	5.6
20°-30°	1577.9	10.4
30°-40°	2525.9	16.7
40°-50°	3692.3	24.4
50°-60°	4556.9	30.1
60°-70°	1522.7	10.1
70°-80°	141.9	0.9
80°-90°	3.0	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°	15122.2	100.0
0°-180°	15122.2	100.0

Coefficient of Utilization



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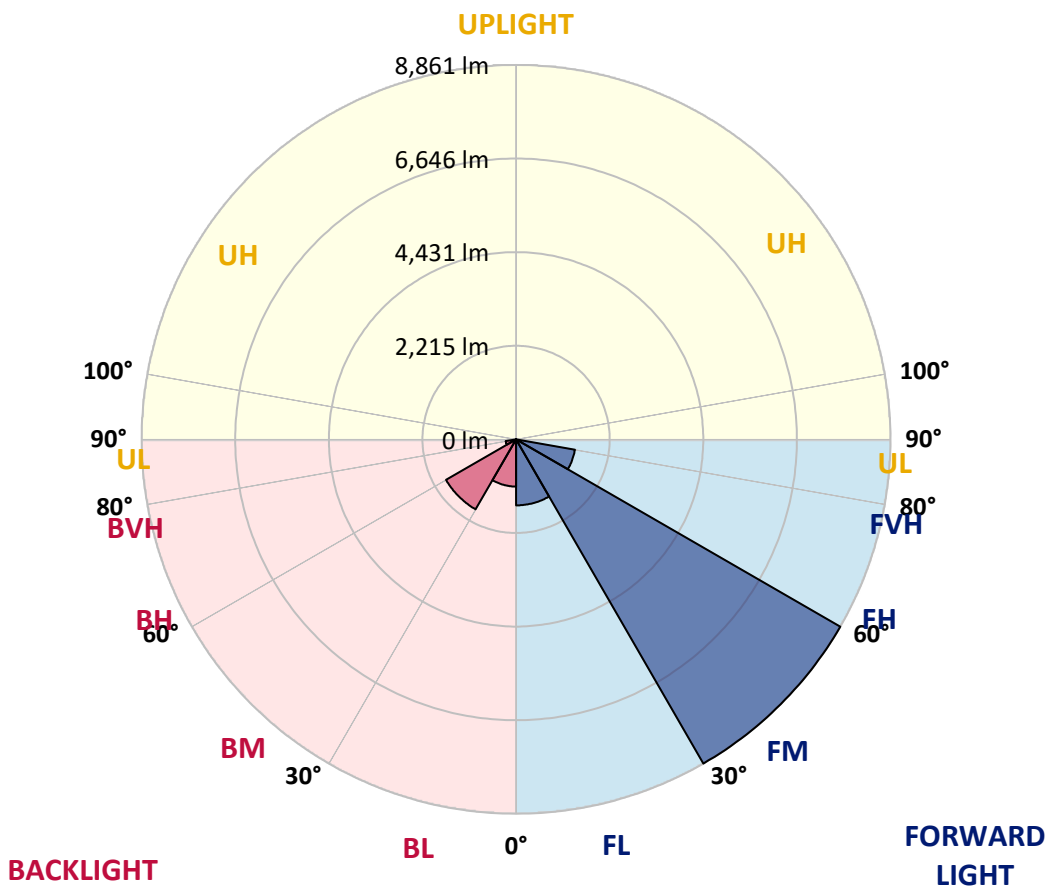
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.8	10.3			
FM (30°-60°)	8861.5	58.6			
FH (60°-80°)	1415.1	9.4			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1116.7	7.4	B3/2500		
BM (30°-60°)	1913.7	12.7	B2/2500		
BH (60°-80°)	249.4	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°	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5
2.5°	2557.8	2556.0	2554.3	2564.8	2561.3	2559.6	2563.1	2563.1	2563.1	2552.5	2531.5
5°	2619.2	2619.2	2617.5	2628.0	2619.2	2614.0	2615.7	2615.7	2608.7	2589.4	2563.1
7.5°	2715.8	2712.3	2708.8	2719.3	2710.5	2708.8	2712.3	2701.8	2689.5	2657.9	2621.0
10°	2854.5	2854.5	2849.2	2859.8	2852.7	2849.2	2849.2	2842.2	2819.4	2770.2	2715.8
12.5°	3045.8	3037.1	3024.8	3016.0	3012.5	3010.7	3012.5	3002.0	2977.4	2914.2	2838.7
15°	3254.8	3247.7	3228.4	3214.4	3195.1	3191.6	3202.1	3193.3	3168.7	3082.7	2975.6
17.5°	3518.1	3526.9	3477.7	3447.9	3391.7	3388.2	3391.7	3405.7	3388.2	3277.6	3121.3
20°	3742.8	3749.8	3712.9	3691.9	3641.0	3618.1	3625.2	3648.0	3628.7	3498.8	3281.1
22.5°	3983.3	3992.1	3953.5	3909.6	3886.7	3886.7	3913.1	3944.7	3918.3	3748.1	3463.7
25°	4271.2	4278.2	4246.6	4188.7	4148.3	4199.2	4237.8	4322.1	4278.2	4046.5	3679.6
27.5°	4601.2	4603.0	4557.4	4497.7	4476.6	4571.4	4610.0	4739.9	4722.4	4381.8	3907.8
30°	4954.1	4955.9	4945.3	4904.9	4885.6	5010.3	5062.9	5250.8	5238.5	4797.9	4218.5
32.5°	5321.0	5321.0	5340.3	5336.8	5359.6	5563.3	5647.5	5861.7	5849.4	5307.0	4604.8
35°	5689.7	5691.4	5724.8	5809.0	5903.8	6174.2	6284.8	6544.6	6516.5	5916.1	5098.1
37.5°	6109.2	6091.7	6137.3	6263.7	6474.4	6786.9	6892.2	7139.7	7108.1	6539.3	5742.3
40°	6614.8	6583.2	6583.2	6730.7	6969.4	7329.3	7418.9	7541.8	7434.7	7043.2	6374.3
42.5°	7173.1	7143.2	7104.6	7234.5	7434.7	7715.5	7789.3	7755.9	7668.1	7518.9	7094.1
45°	7738.4	7692.7	7719.1	7798.1	7913.9	8047.3	8075.4	7920.9	7880.6	7922.7	7689.2
47.5°	8168.5	8136.9	8201.8	8312.4	8407.2	8426.5	8407.2	8193.1	8189.5	8338.8	8101.8
50°	8312.4	8315.9	8495.0	8737.3	8890.0	8905.8	8879.5	8633.7	8600.3	8644.2	8324.7
52.5°	8326.5	8340.5	8602.1	9063.8	9479.9	9669.5	9648.4	9383.3	9056.8	9009.4	8661.8
55°	7987.7	8070.2	8435.3	9109.4	9994.2	10599.9	10670.1	10162.8	9678.2	9637.9	9386.8
57.5°	6384.9	6553.4	6994.0	7954.3	9420.2	10696.4	10879.0	10513.9	10045.1	9873.1	9191.9
60°	3816.5	4025.4	4448.5	5626.5	7169.6	8791.7	9105.9	9156.8	8940.9	8444.1	7052.0
62.5°	1637.9	1620.4	2141.7	3044.1	4264.2	5587.8	5730.0	5951.2	6139.1	5619.4	4280.0
65°	561.8	610.9	849.7	1372.8	2134.7	2594.7	2721.1	2919.4	3186.3	2629.8	1567.7
67.5°	347.6	368.7	489.8	811.1	1151.6	1134.1	1077.9	1046.3	1018.2	696.9	430.1
70°	252.8	270.4	344.1	558.3	774.2	544.2	472.2	382.7	424.8	391.5	305.5
72.5°	170.3	184.3	237.0	338.8	396.7	265.1	245.8	279.1	337.1	321.3	249.3
75°	101.8	110.6	135.2	165.0	161.5	136.9	138.7	196.6	258.1	240.5	177.3
77.5°	70.2	73.7	89.5	107.1	79.0	42.1	38.6	54.4	87.8	87.8	59.7
80°	17.6	22.8	22.8	14.0	12.3	10.5	10.5	15.8	24.6	17.6	8.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5	3.5
85°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5
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°	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5	2531.5
2.5°	2543.8	2522.7	2536.7	2533.2	2543.8	2547.3	2531.5	2528.0	2529.7	2508.7	2501.6
5°	2568.3	2543.8	2550.8	2543.8	2556.0	2566.6	2561.3	2568.3	2577.1	2561.3	2554.3
7.5°	2621.0	2596.4	2594.7	2584.1	2601.7	2608.7	2607.0	2626.3	2643.8	2633.3	2622.8
10°	2712.3	2678.9	2675.4	2666.6	2671.9	2677.2	2657.9	2661.4	2677.2	2664.9	2659.6
12.5°	2824.6	2784.3	2775.5	2754.4	2754.4	2728.1	2686.0	2677.2	2689.5	2680.7	2671.9
15°	2945.8	2891.4	2877.3	2840.4	2805.3	2756.2	2712.3	2701.8	2710.5	2700.0	2693.0
17.5°	3081.0	3019.5	2973.9	2908.9	2831.7	2773.7	2724.6	2701.8	2687.7	2666.6	2664.9
20°	3214.4	3133.6	3056.4	2952.8	2851.0	2763.2	2682.4	2622.8	2571.8	2540.3	2528.0
22.5°	3368.9	3249.5	3124.8	2979.1	2833.4	2700.0	2557.8	2456.0	2368.2	2338.4	2324.3
25°	3533.9	3379.4	3193.3	3003.7	2773.7	2559.6	2366.5	2215.5	2099.6	2061.0	2045.2
27.5°	3716.5	3504.0	3263.5	2998.4	2650.8	2359.4	2103.1	1915.3	1801.2	1766.1	1778.4
30°	3948.2	3665.5	3351.3	2944.0	2466.5	2078.5	1778.4	1620.4	1534.3	1501.0	1502.7
32.5°	4257.2	3897.3	3479.5	2828.2	2229.5	1759.0	1495.7	1379.8	1321.9	1278.0	1274.5
35°	4699.6	4250.1	3598.8	2642.1	1941.6	1474.6	1283.3	1192.0	1111.2	1060.3	1069.1
37.5°	5229.7	4694.3	3663.8	2391.0	1618.6	1253.4	1123.5	1030.5	939.2	863.7	872.5
40°	5858.2	5275.4	3658.5	2061.0	1323.7	1102.5	990.1	881.3	767.2	698.7	705.7
42.5°	6558.7	5824.8	3544.4	1711.6	1097.2	979.6	862.0	725.0	614.4	572.3	574.1
45°	7166.1	6270.7	3344.3	1350.0	923.4	860.2	728.5	588.1	538.9	509.1	507.3
47.5°	7615.5	6597.3	3058.1	1062.1	783.0	751.4	598.6	526.7	488.0	463.5	459.9
50°	7866.5	6711.4	2742.1	832.1	661.8	637.3	535.4	477.5	451.2	435.4	431.9
52.5°	8203.6	6848.3	2515.7	656.6	554.7	521.4	493.3	444.1	426.6	414.3	409.0
55°	8737.3	7113.4	2319.1	521.4	461.7	454.7	465.2	424.8	414.3	395.0	388.0
57.5°	8235.2	6390.1	1801.2	403.8	389.7	416.1	449.4	405.5	379.2	361.6	354.6
60°	5795.0	4248.4	905.9	324.8	347.6	389.7	423.1	366.9	340.6	344.1	340.6
62.5°	3195.1	2125.9	407.3	272.1	302.0	344.1	361.6	317.8	300.2	330.0	335.3
65°	1044.5	723.3	235.2	210.7	238.8	280.9	312.5	302.0	298.4	333.6	344.1
67.5°	321.3	238.8	159.8	151.0	165.0	207.2	263.3	326.5	351.1	361.6	366.9
70°	240.5	187.8	136.9	128.2	135.2	158.0	223.0	272.1	256.3	258.1	254.6
72.5°	193.1	149.2	117.6	112.4	112.4	108.8	117.6	147.5	166.8	175.6	175.6
75°	135.2	105.3	89.5	82.5	65.0	52.7	47.4	47.4	42.1	40.4	38.6
77.5°	45.6	38.6	35.1	28.1	19.3	15.8	14.0	12.3	8.8	5.3	3.5
80°	7.0	5.3	3.5	3.5	3.5	1.8	1.8	1.8	0.0	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	3.5	1.8	1.8	0.0	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	3.5	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	1.8	1.8	1.8	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)