

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: P640036

Luminaire Tested: GWS-SA5D-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640036
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-SA5D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13664.3 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

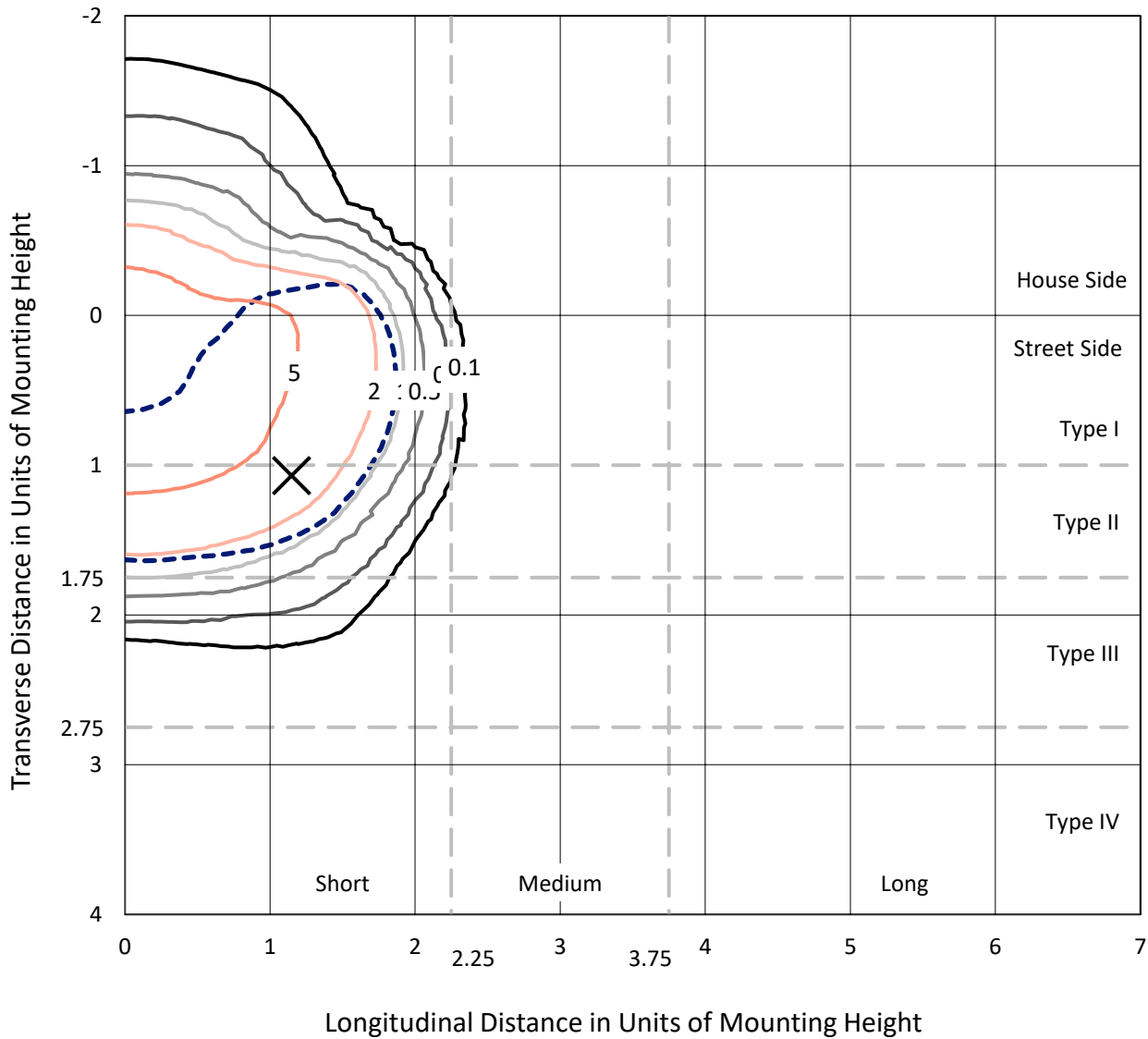
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

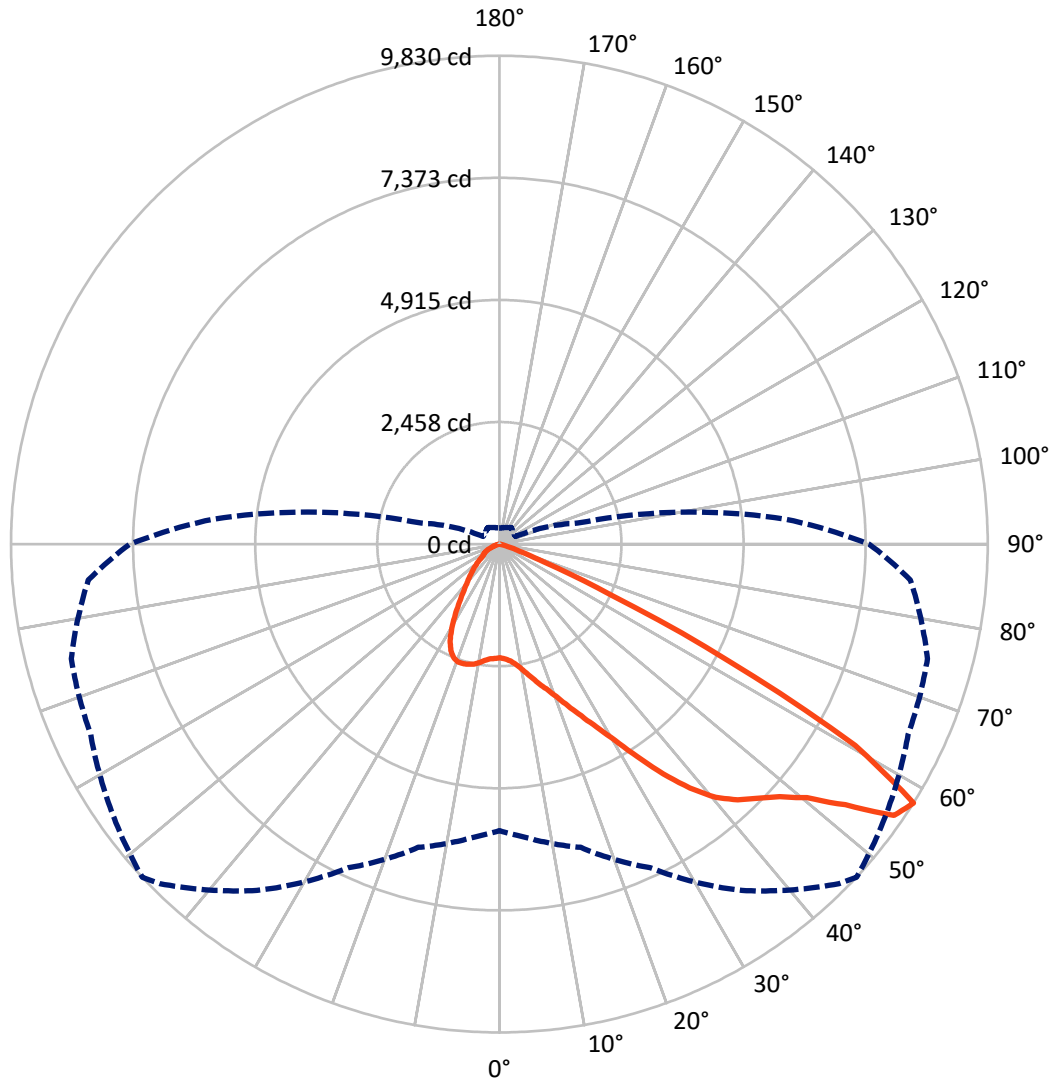
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	2964.5	0.0	2964.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10699.8	0.0	10699.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	13664.3	0.0	13664.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.7
10°-20°	767.9	5.6
20°-30°	1425.8	10.4
30°-40°	2282.4	16.7
40°-50°	3336.3	24.4
50°-60°	4117.6	30.1
60°-70°	1375.9	10.1
70°-80°	128.2	0.9
80°-90°	2.7	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°	13664.3	100.0
0°-180°	13664.3	100.0

Coefficient of Utilization



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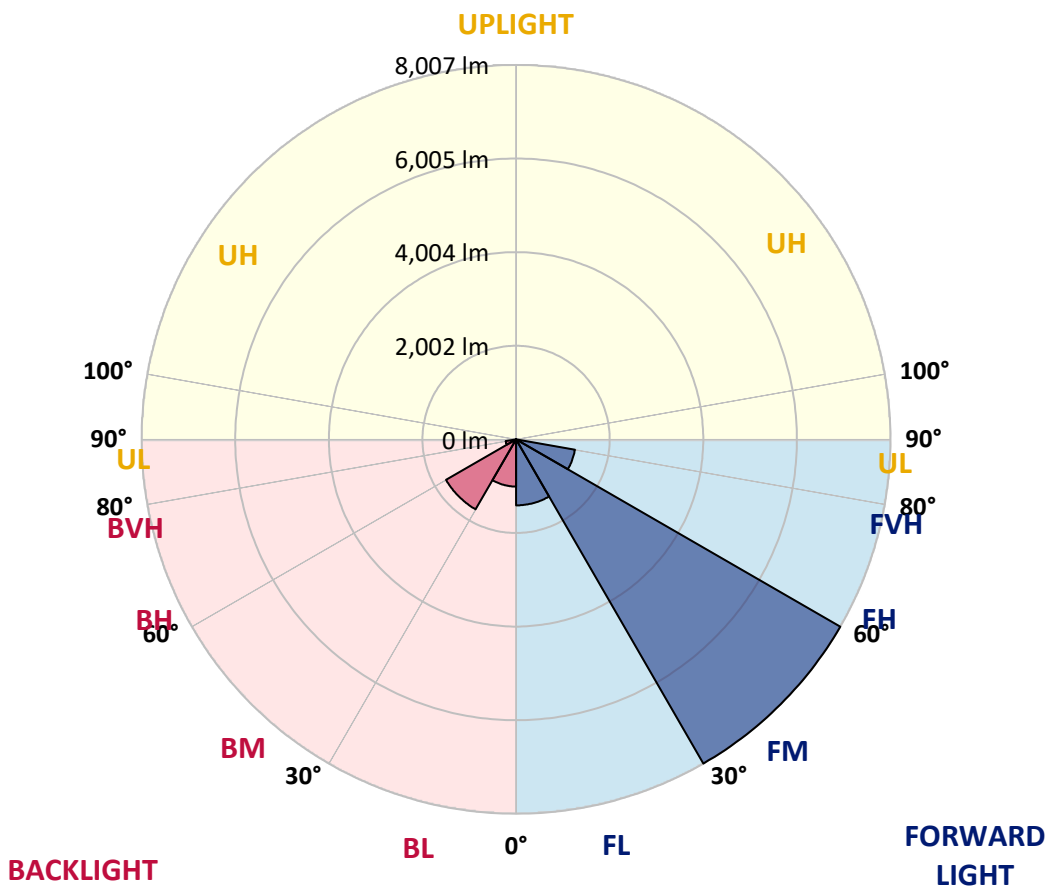
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.2	10.3			
FM (30°-60°)	8007.2	58.6			
FH (60°-80°)	1278.7	9.4			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1009.1	7.4	B3/2500		
BM (30°-60°)	1729.2	12.7	B2/2500		
BH (60°-80°)	225.4	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°	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2311.2	2309.6	2308.0	2317.6	2314.4	2312.8	2316.0	2316.0	2316.0	2306.5	2287.4
5°	2366.7	2366.7	2365.1	2374.7	2366.7	2362.0	2363.6	2363.6	2357.2	2339.8	2316.0
7.5°	2454.0	2450.8	2447.6	2457.2	2449.2	2447.6	2450.8	2441.3	2430.2	2401.6	2368.3
10°	2579.3	2579.3	2574.5	2584.1	2577.7	2574.5	2574.5	2568.2	2547.6	2503.2	2454.0
12.5°	2752.2	2744.3	2733.2	2725.2	2722.1	2720.5	2722.1	2712.5	2690.3	2633.2	2565.0
15°	2941.0	2934.6	2917.2	2904.5	2887.0	2883.9	2893.4	2885.4	2863.2	2785.5	2688.7
17.5°	3178.9	3186.8	3142.4	3115.5	3064.7	3061.5	3064.7	3077.4	3061.5	2961.6	2820.4
20°	3382.0	3388.3	3355.0	3336.0	3289.9	3269.3	3275.7	3296.3	3278.8	3161.5	2964.8
22.5°	3599.3	3607.2	3572.3	3532.6	3512.0	3512.0	3535.8	3564.4	3540.6	3386.7	3129.7
25°	3859.4	3865.8	3837.2	3784.9	3748.4	3794.4	3829.3	3905.4	3865.8	3656.4	3324.8
27.5°	4157.6	4159.2	4118.0	4064.1	4045.0	4130.7	4165.6	4283.0	4267.1	3959.4	3531.1
30°	4476.5	4478.1	4468.6	4432.1	4414.6	4527.2	4574.8	4744.6	4733.5	4335.3	3811.8
32.5°	4808.0	4808.0	4825.5	4822.3	4842.9	5026.9	5103.1	5296.6	5285.5	4795.3	4160.8
35°	5141.1	5142.7	5172.9	5249.0	5334.7	5579.0	5678.9	5913.7	5888.3	5345.8	4606.6
37.5°	5520.3	5504.4	5545.6	5659.9	5850.2	6132.6	6227.7	6451.4	6422.9	5908.9	5188.7
40°	5977.1	5948.6	5948.6	6081.8	6297.5	6622.7	6703.6	6814.7	6717.9	6364.2	5759.8
42.5°	6481.5	6454.6	6419.7	6537.1	6717.9	6971.7	7038.3	7008.2	6928.9	6794.0	6410.2
45°	6992.3	6951.1	6974.9	7046.3	7151.0	7271.5	7296.9	7157.3	7120.8	7158.9	6947.9
47.5°	7381.0	7352.4	7411.1	7511.0	7596.7	7614.2	7596.7	7403.2	7400.0	7534.8	7320.7
50°	7511.0	7514.2	7676.0	7894.9	8032.9	8047.2	8023.4	7801.3	7771.2	7810.9	7522.1
52.5°	7523.7	7536.4	7772.8	8190.0	8565.9	8737.2	8718.2	8478.7	8183.6	8140.8	7826.7
55°	7217.6	7292.1	7622.1	8231.2	9030.7	9578.0	9641.4	9183.0	8745.2	8708.7	8481.8
57.5°	5769.3	5921.6	6319.7	7187.4	8512.0	9665.2	9830.2	9500.2	9076.7	8921.2	8305.8
60°	3448.6	3637.3	4019.6	5084.0	6478.4	7944.1	8228.0	8274.0	8078.9	7630.0	6372.1
62.5°	1480.0	1464.1	1935.3	2750.6	3853.1	5049.1	5177.6	5377.5	5547.2	5077.7	3867.4
65°	507.6	552.0	767.8	1240.5	1928.9	2344.5	2458.7	2638.0	2879.1	2376.3	1416.5
67.5°	314.1	333.1	442.6	732.9	1040.6	1024.7	974.0	945.4	920.0	629.8	388.6
70°	228.4	244.3	310.9	504.4	699.6	491.7	426.7	345.8	383.9	353.7	276.0
72.5°	153.9	166.6	214.1	306.2	358.5	239.5	222.1	252.2	304.6	290.3	225.3
75°	92.0	99.9	122.1	149.1	145.9	123.7	125.3	177.7	233.2	217.3	160.2
77.5°	63.5	66.6	80.9	96.8	71.4	38.1	34.9	49.2	79.3	79.3	53.9
80°	15.9	20.6	20.6	12.7	11.1	9.5	9.5	14.3	22.2	15.9	7.9
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
85°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
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°	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2298.5	2279.5	2292.2	2289.0	2298.5	2301.7	2287.4	2284.2	2285.8	2266.8	2260.5
5°	2320.7	2298.5	2304.9	2298.5	2309.6	2319.1	2314.4	2320.7	2328.7	2314.4	2308.0
7.5°	2368.3	2346.1	2344.5	2335.0	2350.9	2357.2	2355.6	2373.1	2388.9	2379.4	2369.9
10°	2450.8	2420.7	2417.5	2409.6	2414.3	2419.1	2401.6	2404.8	2419.1	2408.0	2403.2
12.5°	2552.3	2515.8	2507.9	2488.9	2488.9	2465.1	2427.0	2419.1	2430.2	2422.3	2414.3
15°	2661.8	2612.6	2599.9	2566.6	2534.9	2490.5	2450.8	2441.3	2449.2	2439.7	2433.4
17.5°	2783.9	2728.4	2687.2	2628.5	2558.7	2506.3	2461.9	2441.3	2428.6	2409.6	2408.0
20°	2904.5	2831.5	2761.7	2668.1	2576.1	2496.8	2423.8	2369.9	2323.9	2295.3	2284.2
22.5°	3044.1	2936.2	2823.6	2691.9	2560.3	2439.7	2311.2	2219.2	2139.9	2112.9	2100.2
25°	3193.2	3053.6	2885.4	2714.1	2506.3	2312.8	2138.3	2001.9	1897.2	1862.3	1848.0
27.5°	3358.2	3166.2	2948.9	2709.4	2395.3	2132.0	1900.4	1730.6	1627.5	1595.8	1606.9
30°	3567.5	3312.2	3028.2	2660.2	2228.7	1878.2	1606.9	1464.1	1386.4	1356.3	1357.9
32.5°	3846.7	3521.5	3144.0	2555.5	2014.6	1589.5	1351.5	1246.8	1194.5	1154.8	1151.6
35°	4246.5	3840.4	3251.9	2387.4	1754.4	1332.5	1159.6	1077.1	1004.1	958.1	966.0
37.5°	4725.5	4241.7	3310.6	2160.5	1462.6	1132.6	1015.2	931.1	848.7	780.5	788.4
40°	5293.4	4766.8	3305.8	1862.3	1196.1	996.2	894.7	796.3	693.2	631.3	637.7
42.5°	5926.3	5263.3	3202.7	1546.6	991.4	885.1	778.9	655.1	555.2	517.1	518.7
45°	6475.2	5666.2	3021.9	1219.9	834.4	777.3	658.3	531.4	487.0	460.0	458.4
47.5°	6881.3	5961.2	2763.3	959.7	707.5	678.9	540.9	475.9	441.0	418.8	415.6
50°	7108.1	6064.4	2477.8	751.9	598.0	575.8	483.8	431.5	407.7	393.4	390.2
52.5°	7412.7	6188.1	2273.1	593.3	501.3	471.1	445.7	401.3	385.5	374.4	369.6
55°	7894.9	6427.6	2095.5	471.1	417.2	410.8	420.4	383.9	374.4	356.9	350.6
57.5°	7441.2	5774.1	1627.5	364.8	352.2	375.9	406.1	366.4	342.6	326.8	320.4
60°	5236.3	3838.8	818.5	293.5	314.1	352.2	382.3	331.5	307.7	310.9	307.7
62.5°	2887.0	1921.0	368.0	245.9	272.8	310.9	326.8	287.1	271.3	298.2	303.0
65°	943.8	653.5	212.6	190.4	215.7	253.8	282.4	272.8	269.7	301.4	310.9
67.5°	290.3	215.7	144.4	136.4	149.1	187.2	237.9	295.0	317.3	326.8	331.5
70°	217.3	169.7	123.7	115.8	122.1	142.8	201.5	245.9	231.6	233.2	230.0
72.5°	174.5	134.8	106.3	101.5	101.5	98.3	106.3	133.2	150.7	158.6	158.6
75°	122.1	95.2	80.9	74.6	58.7	47.6	42.8	42.8	38.1	36.5	34.9
77.5°	41.2	34.9	31.7	25.4	17.4	14.3	12.7	11.1	7.9	4.8	3.2
80°	6.3	4.8	3.2	3.2	3.2	1.6	1.6	1.6	0.0	0.0	0.0
82.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
85°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	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)