

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: P638056

Luminaire Tested: GWS-SA4E-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638056
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13919.8 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

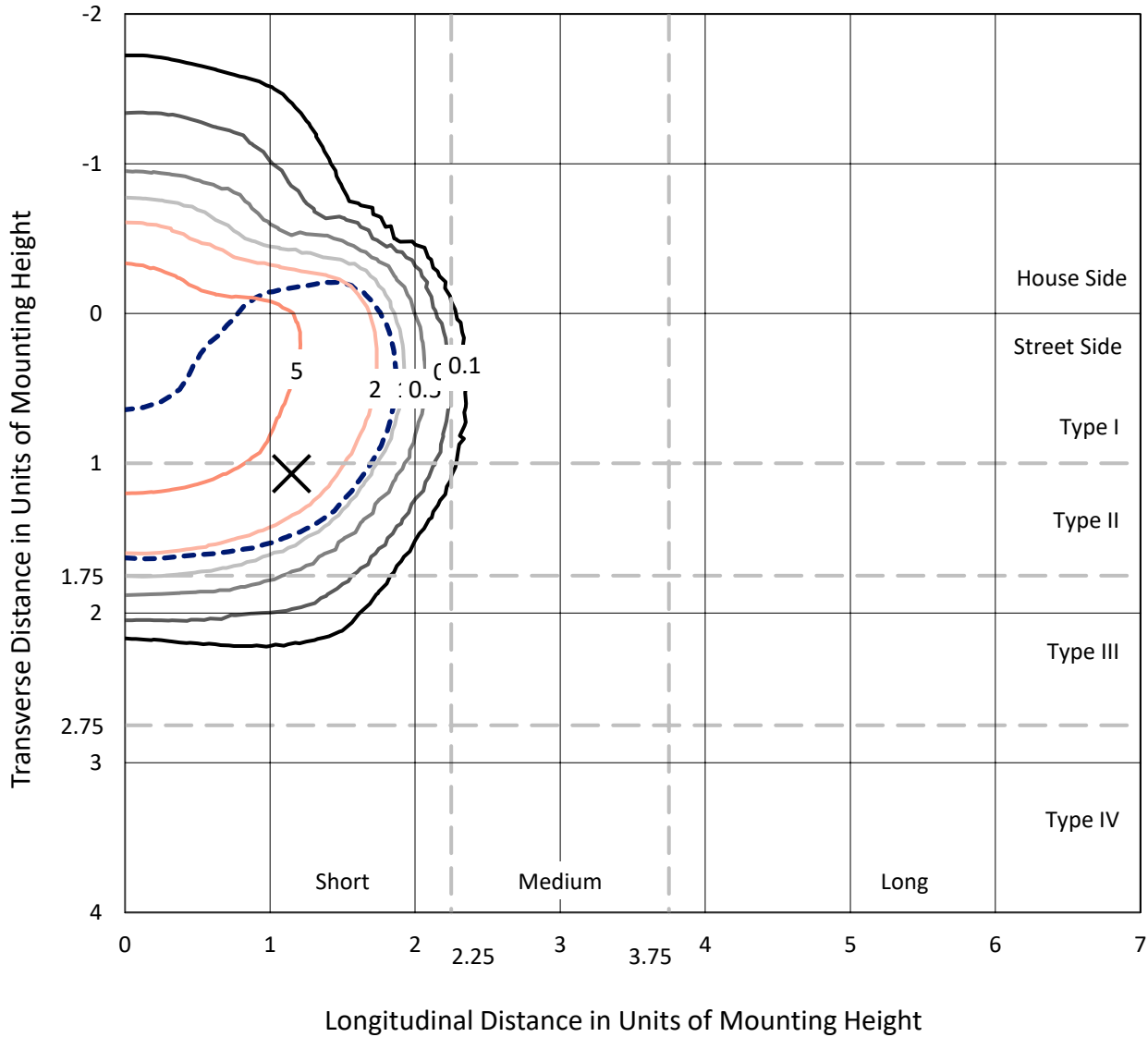
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

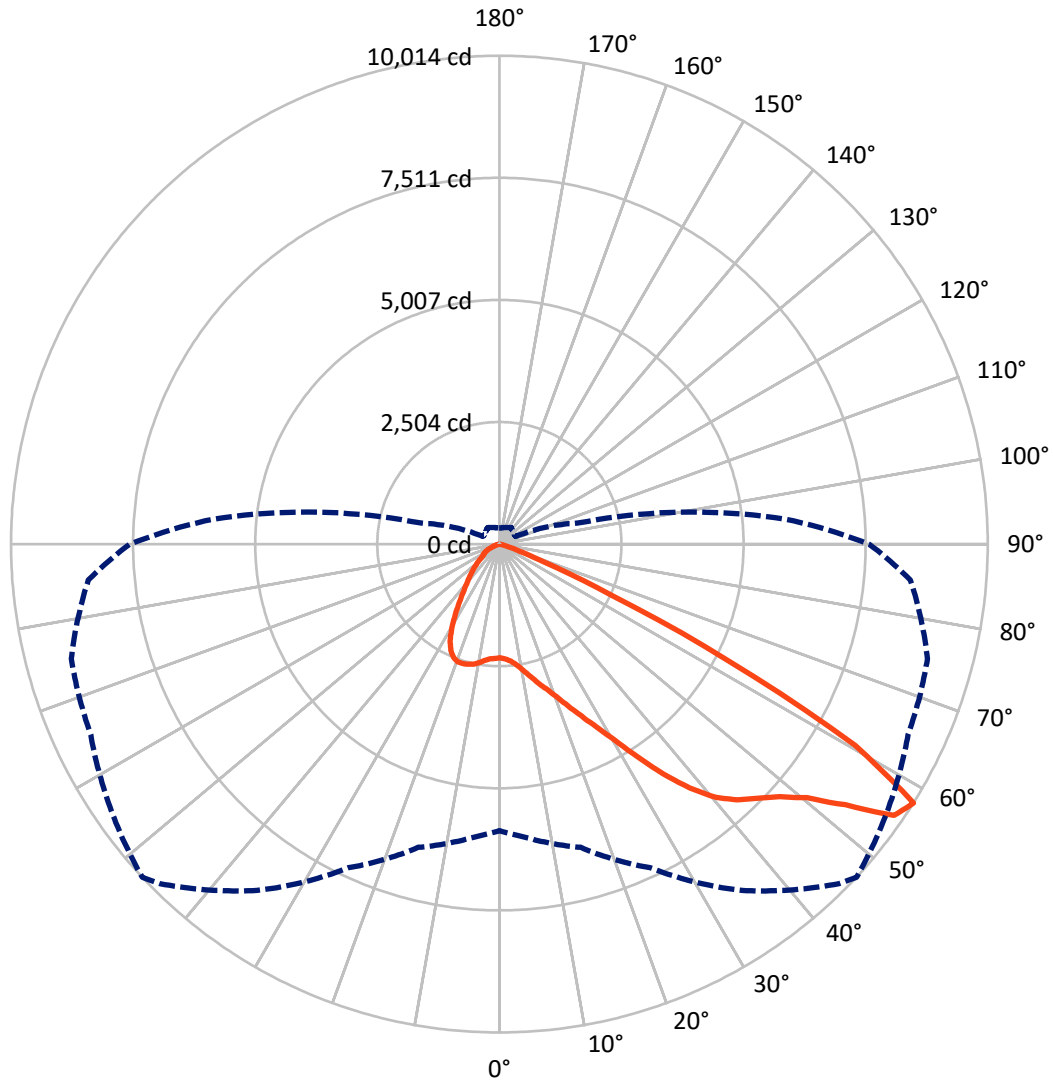
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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	3019.9	0.0	3019.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10899.9	0.0	10899.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	13919.8	0.0	13919.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	1.7
10°-20°	782.2	5.6
20°-30°	1452.4	10.4
30°-40°	2325.1	16.7
40°-50°	3398.7	24.4
50°-60°	4194.6	30.1
60°-70°	1401.6	10.1
70°-80°	130.6	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°	13919.8	100.0
0°-180°	13919.8	100.0

Coefficient of Utilization



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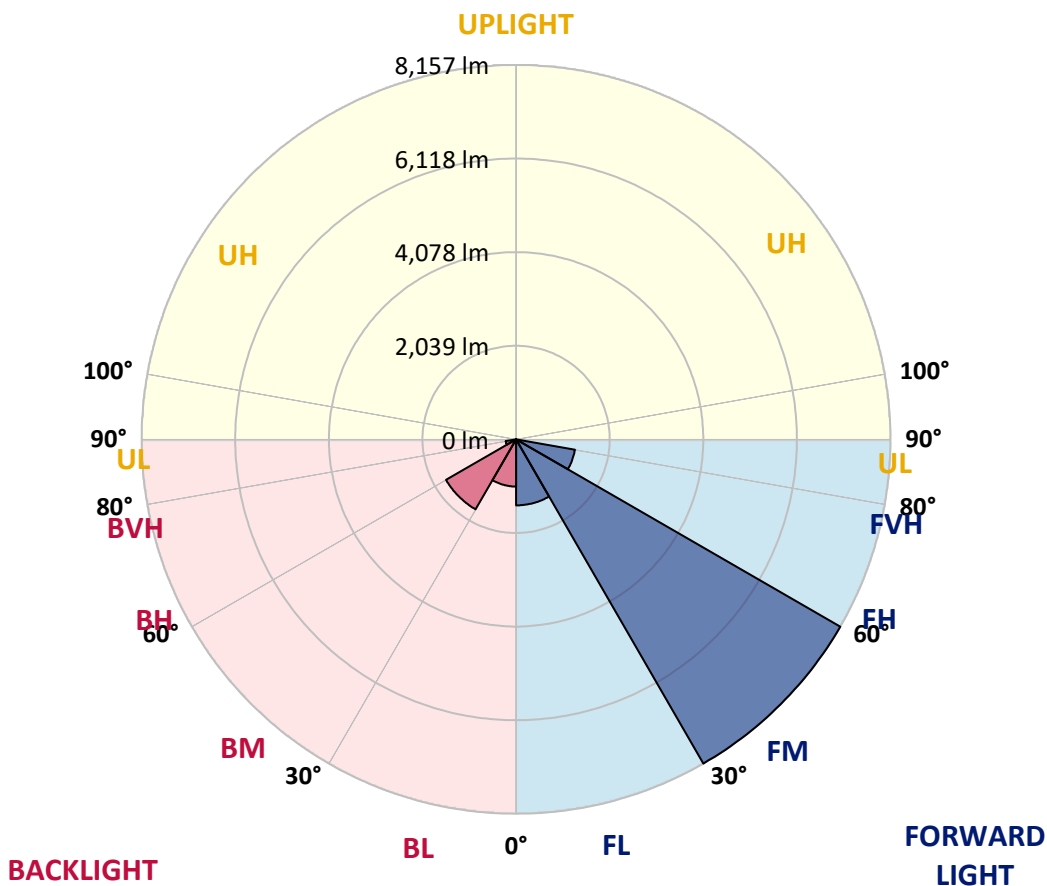
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.6	10.3			
FM (30°-60°)	8156.9	58.6			
FH (60°-80°)	1302.6	9.4			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1027.9	7.4	B3/2500		
BM (30°-60°)	1761.5	12.7	B2/2500		
BH (60°-80°)	229.6	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°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2354.4	2352.8	2351.2	2360.9	2357.7	2356.0	2359.3	2359.3	2359.3	2349.6	2330.2
5°	2411.0	2411.0	2409.4	2419.1	2411.0	2406.1	2407.8	2407.8	2401.3	2383.5	2359.3
7.5°	2499.9	2496.6	2493.4	2503.1	2495.0	2493.4	2496.6	2486.9	2475.6	2446.5	2412.6
10°	2627.5	2627.5	2622.7	2632.4	2625.9	2622.7	2622.7	2616.2	2595.2	2550.0	2499.9
12.5°	2803.7	2795.6	2784.3	2776.2	2773.0	2771.3	2773.0	2763.3	2740.6	2682.5	2613.0
15°	2996.0	2989.5	2971.7	2958.8	2941.0	2937.8	2947.5	2939.4	2916.8	2837.6	2739.0
17.5°	3238.3	3246.4	3201.2	3173.7	3122.0	3118.8	3122.0	3134.9	3118.8	3017.0	2873.1
20°	3445.2	3451.7	3417.7	3398.3	3351.5	3330.5	3336.9	3357.9	3340.2	3220.6	3020.2
22.5°	3666.6	3674.7	3639.1	3598.7	3577.7	3577.7	3601.9	3631.0	3606.8	3450.0	3188.3
25°	3931.6	3938.1	3909.0	3855.6	3818.5	3865.3	3900.9	3978.5	3938.1	3724.7	3387.0
27.5°	4235.4	4237.0	4195.0	4140.0	4120.7	4207.9	4243.5	4363.0	4346.9	4033.4	3597.1
30°	4560.2	4561.8	4552.1	4514.9	4497.2	4611.9	4660.4	4833.3	4822.0	4416.4	3883.1
32.5°	4897.9	4897.9	4915.7	4912.5	4933.5	5120.9	5198.5	5395.6	5384.3	4885.0	4238.6
35°	5237.3	5238.9	5269.6	5347.2	5434.4	5683.3	5785.1	6024.2	5998.4	5445.7	4692.7
37.5°	5623.5	5607.3	5649.3	5765.7	5959.6	6247.2	6344.2	6572.0	6543.0	6019.4	5285.7
40°	6088.9	6059.8	6059.8	6195.5	6415.3	6746.6	6829.0	6942.1	6843.5	6483.2	5867.5
42.5°	6602.7	6575.3	6539.7	6659.3	6843.5	7102.1	7169.9	7139.2	7058.4	6921.1	6530.0
45°	7123.1	7081.1	7105.3	7178.0	7284.7	7407.5	7433.3	7291.1	7254.0	7292.7	7077.8
47.5°	7519.0	7489.9	7549.7	7651.5	7738.7	7756.5	7738.7	7541.6	7538.4	7675.7	7457.6
50°	7651.5	7654.7	7819.5	8042.5	8183.1	8197.7	8173.4	7947.2	7916.5	7956.9	7662.8
52.5°	7664.4	7677.3	7918.1	8343.1	8726.1	8900.6	8881.2	8637.2	8336.6	8293.0	7973.1
55°	7352.5	7428.5	7764.6	8385.1	9199.6	9757.1	9821.7	9354.7	8908.7	8871.5	8640.4
57.5°	5877.2	6032.3	6437.9	7321.8	8671.1	9845.9	10014.0	9677.9	9246.4	9088.1	8461.1
60°	3513.1	3705.4	4094.8	5179.1	6599.5	8092.6	8381.9	8428.8	8230.0	7772.7	6491.2
62.5°	1507.7	1491.5	1971.5	2802.0	3925.1	5143.5	5274.4	5478.0	5651.0	5172.6	3939.7
65°	517.1	562.3	782.1	1263.7	1965.0	2388.4	2504.7	2687.3	2932.9	2420.7	1443.0
67.5°	320.0	339.3	450.8	746.6	1060.1	1043.9	992.2	963.1	937.2	641.5	395.9
70°	232.7	248.9	316.7	513.9	712.6	500.9	434.7	352.3	391.1	360.4	281.2
72.5°	156.7	169.7	218.2	311.9	365.2	244.0	226.2	256.9	310.3	295.7	229.5
75°	93.7	101.8	124.4	151.9	148.7	126.0	127.7	181.0	237.5	221.4	163.2
77.5°	64.6	67.9	82.4	98.6	72.7	38.8	35.6	50.1	80.8	80.8	54.9
80°	16.2	21.0	21.0	12.9	11.3	9.7	9.7	14.5	22.6	16.2	8.1
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°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2341.5	2322.1	2335.0	2331.8	2341.5	2344.7	2330.2	2327.0	2328.6	2309.2	2302.7
5°	2364.1	2341.5	2348.0	2341.5	2352.8	2362.5	2357.7	2364.1	2372.2	2357.7	2351.2
7.5°	2412.6	2390.0	2388.4	2378.7	2394.8	2401.3	2399.7	2417.5	2433.6	2423.9	2414.2
10°	2496.6	2465.9	2462.7	2454.6	2459.5	2464.3	2446.5	2449.8	2464.3	2453.0	2448.2
12.5°	2600.1	2562.9	2554.8	2535.4	2535.4	2511.2	2472.4	2464.3	2475.6	2467.5	2459.5
15°	2711.6	2661.5	2648.5	2614.6	2582.3	2537.0	2496.6	2486.9	2495.0	2485.3	2478.9
17.5°	2836.0	2779.4	2737.4	2677.6	2606.5	2553.2	2507.9	2486.9	2474.0	2454.6	2453.0
20°	2958.8	2884.5	2813.4	2718.0	2624.3	2543.5	2469.2	2414.2	2367.4	2338.3	2327.0
22.5°	3101.0	2991.1	2876.4	2742.3	2608.1	2485.3	2354.4	2260.7	2179.9	2152.4	2139.5
25°	3252.9	3110.7	2939.4	2764.9	2553.2	2356.0	2178.3	2039.3	1932.7	1897.1	1882.6
27.5°	3421.0	3225.4	3004.0	2760.0	2440.1	2171.8	1935.9	1763.0	1658.0	1625.6	1637.0
30°	3634.3	3374.1	3084.8	2709.9	2270.4	1913.3	1637.0	1491.5	1412.3	1381.6	1383.2
32.5°	3918.7	3587.4	3202.8	2603.3	2052.2	1619.2	1376.8	1270.1	1216.8	1176.4	1173.2
35°	4325.9	3912.2	3312.7	2432.0	1787.2	1357.4	1181.3	1097.2	1022.9	976.0	984.1
37.5°	4813.9	4321.0	3372.5	2200.9	1489.9	1153.8	1034.2	948.6	864.5	795.0	803.1
40°	5392.4	4855.9	3367.6	1897.1	1218.4	1014.8	911.4	811.2	706.2	643.1	649.6
42.5°	6037.2	5361.7	3262.6	1575.5	1010.0	901.7	793.4	667.4	565.6	526.8	528.4
45°	6596.3	5772.1	3078.4	1242.7	850.0	791.8	670.6	541.3	496.1	468.6	467.0
47.5°	7010.0	6072.7	2815.0	977.6	720.7	691.6	551.0	484.8	449.2	426.6	423.4
50°	7241.0	6177.7	2524.1	766.0	609.2	586.6	492.9	439.5	415.3	400.8	397.5
52.5°	7551.3	6303.8	2315.6	604.4	510.6	479.9	454.1	408.8	392.7	381.4	376.5
55°	8042.5	6547.8	2134.7	479.9	425.0	418.5	428.2	391.1	381.4	363.6	357.1
57.5°	7580.4	5882.0	1658.0	371.7	358.7	383.0	413.7	373.3	349.0	332.9	326.4
60°	5334.2	3910.6	833.8	298.9	320.0	358.7	389.4	337.7	313.5	316.7	313.5
62.5°	2941.0	1956.9	374.9	250.5	277.9	316.7	332.9	292.5	276.3	303.8	308.6
65°	961.5	665.8	216.5	193.9	219.8	258.6	287.6	277.9	274.7	307.0	316.7
67.5°	295.7	219.8	147.1	139.0	151.9	190.7	242.4	300.6	323.2	332.9	337.7
70°	221.4	172.9	126.0	118.0	124.4	145.4	205.2	250.5	235.9	237.5	234.3
72.5°	177.8	137.4	108.3	103.4	103.4	100.2	108.3	135.7	153.5	161.6	161.6
75°	124.4	97.0	82.4	75.9	59.8	48.5	43.6	43.6	38.8	37.2	35.6
77.5°	42.0	35.6	32.3	25.9	17.8	14.5	12.9	11.3	8.1	4.8	3.2
80°	6.5	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)