

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: P643332

Luminaire Tested: GWS-SA6E-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30274.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

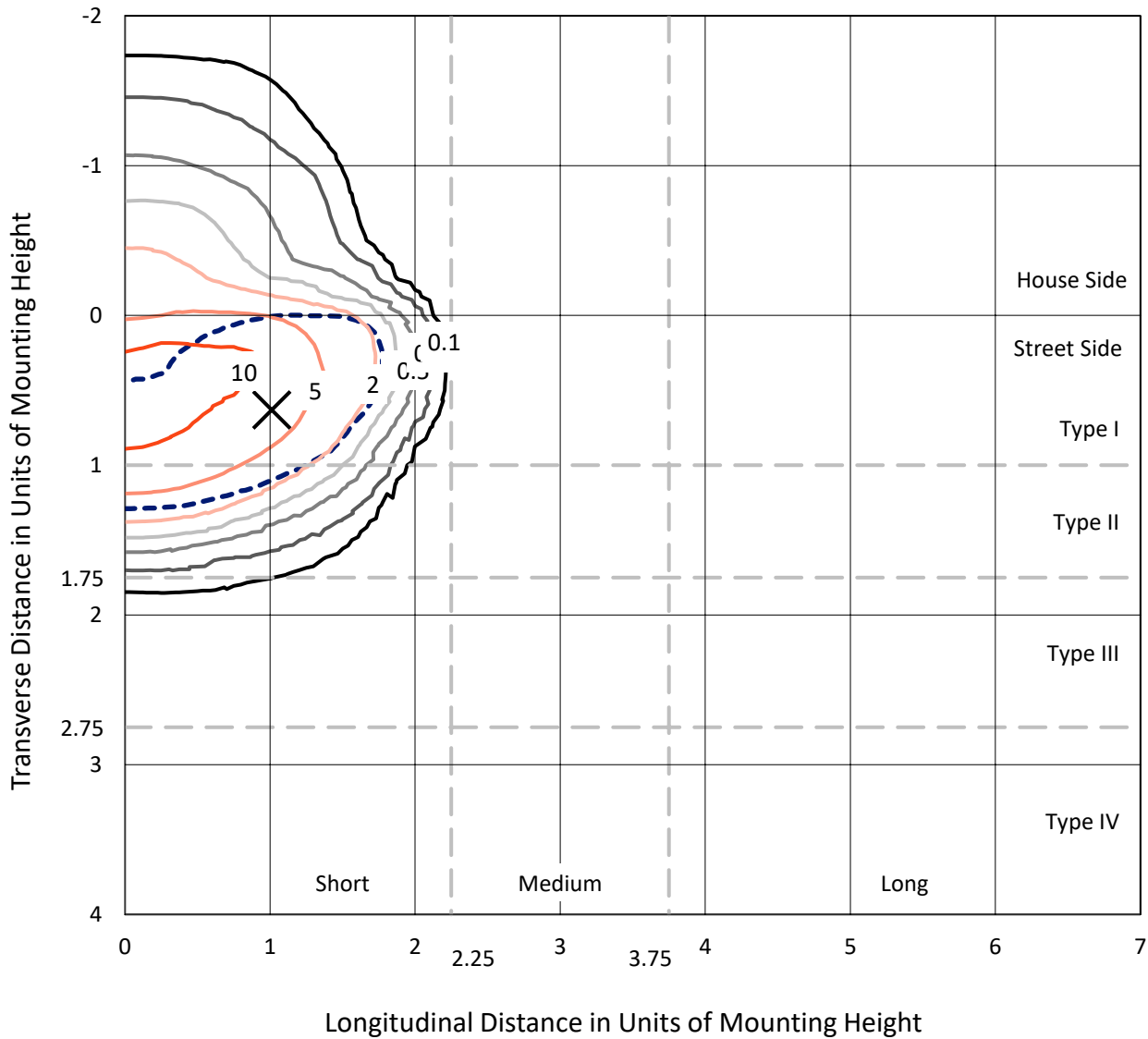
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

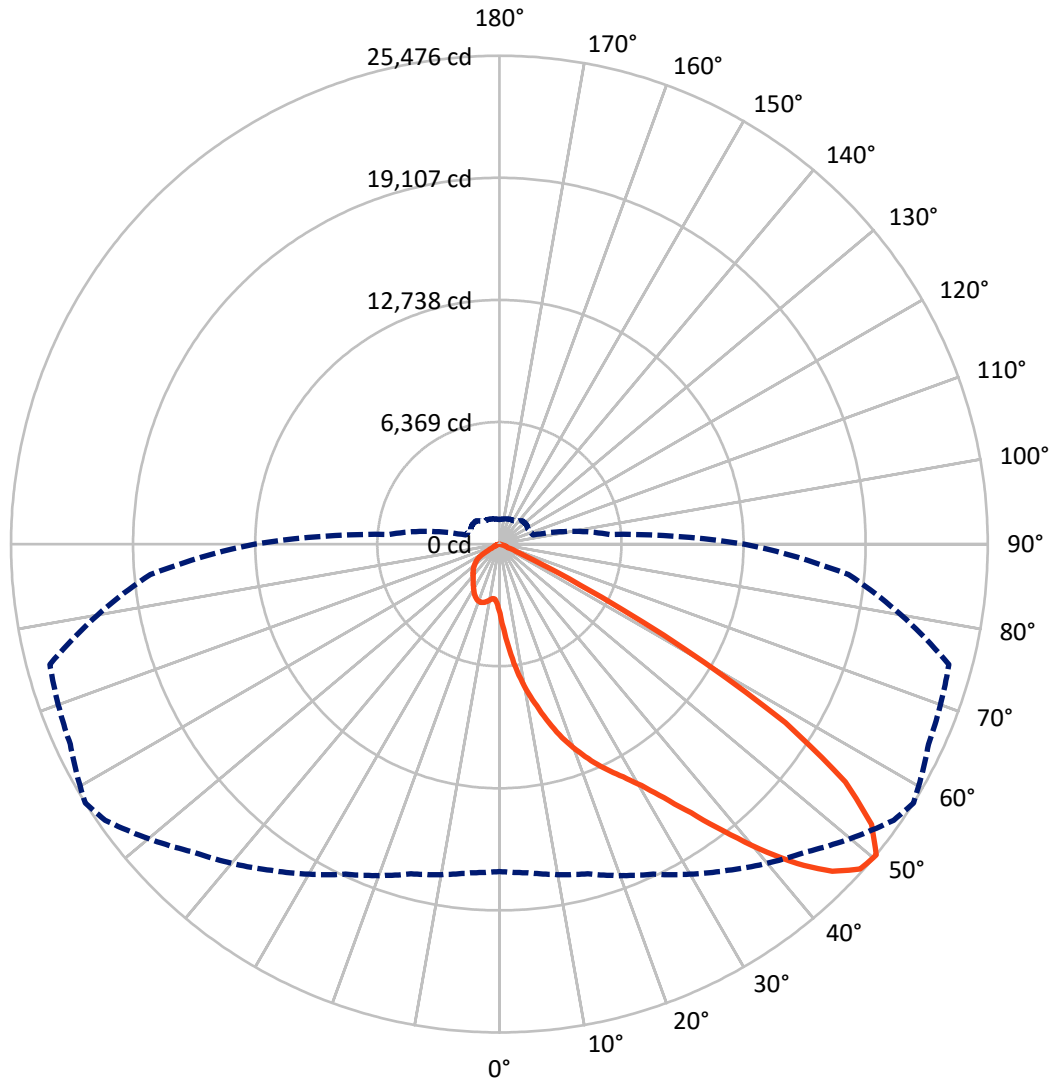
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4240.4	0.0	4240.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26034.3	0.0	26034.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	30274.7	0.0	30274.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.5
10°-20°	1773.5	5.9
20°-30°	3588.7	11.9
30°-40°	6348.9	21.0
40°-50°	9255.3	30.6
50°-60°	7418.4	24.5
60°-70°	1336.5	4.4
70°-80°	105.3	0.3
80°-90°	0.1	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°	30274.7	100.0
0°-180°	30274.7	100.0

Coefficient of Utilization



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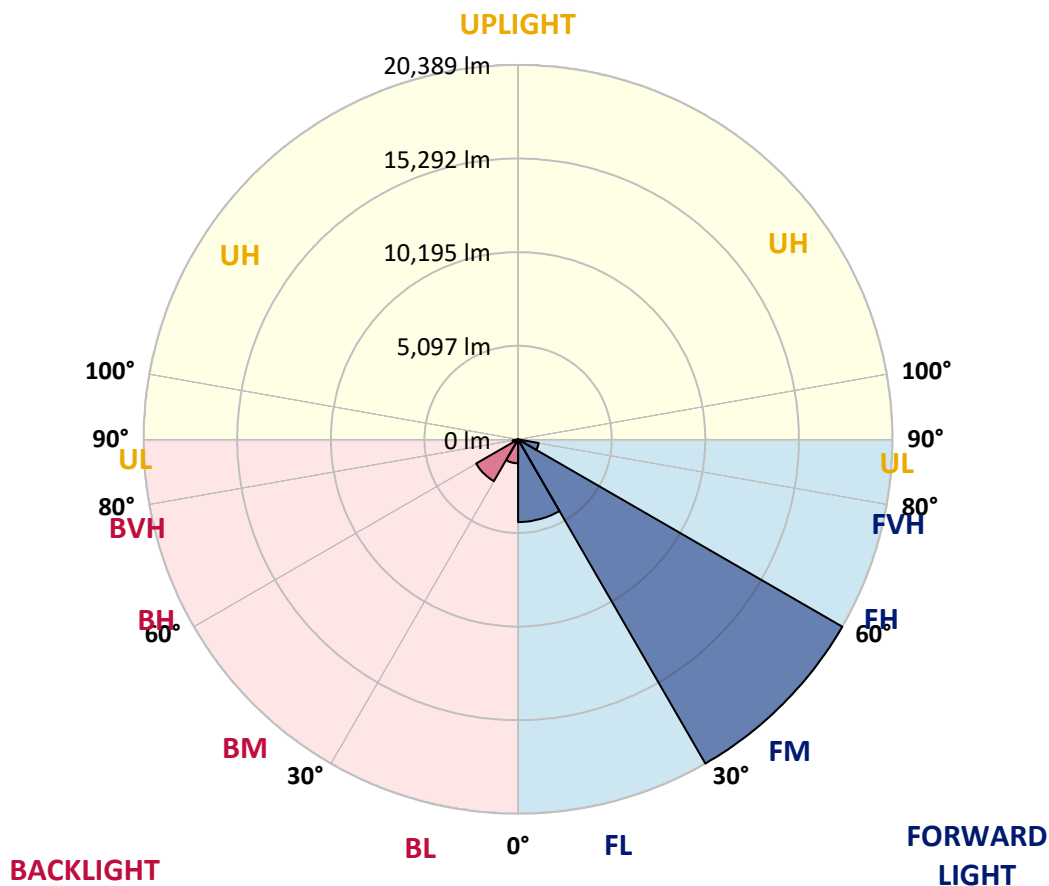
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4504.8	14.9			
FM (30°-60°)	20389.1	67.3			
FH (60°-80°)	1140.4	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1305.5	4.3	B3/2500		
BM (30°-60°)	2633.5	8.7	B3/5000		
BH (60°-80°)	301.4	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	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°	55°	58°	65°	75°	85°
0°	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3
2.5°	5351.5	5267.4	5218.8	5180.0	5008.4	4736.4	4558.4	4464.5	4309.1	4046.8	3820.2
5°	6983.2	6921.7	6808.4	6730.7	6510.6	6125.3	5727.1	5568.5	5215.6	4623.1	4092.2
7.5°	8064.6	8019.2	7977.1	7873.5	7666.3	7316.7	6876.4	6711.3	6167.4	5325.6	4454.8
10°	8896.6	8861.0	8812.4	8809.2	8647.3	8333.3	7902.7	7731.1	7141.9	6089.7	4882.1
12.5°	9628.3	9599.1	9589.4	9680.1	9576.5	9343.4	8877.2	8663.5	8038.7	6869.9	5354.8
15°	10130.1	10123.6	10165.7	10343.7	10402.0	10295.2	9903.4	9673.6	8954.9	7653.4	5876.0
17.5°	10359.9	10379.3	10460.3	10767.8	11026.8	11117.5	10816.4	10622.2	9864.6	8446.6	6432.9
20°	10751.7	10745.2	10793.7	11085.1	11402.4	11726.1	11635.5	11470.4	10784.0	9285.1	7051.2
22.5°	11855.6	11761.8	11658.2	11703.5	11816.8	12195.6	12363.9	12279.7	11732.6	10146.3	7689.0
25°	13552.1	13455.0	13121.5	12797.7	12584.1	12755.7	12985.5	13027.6	12674.7	11030.1	8355.9
27.5°	15352.1	15264.7	14889.2	14403.5	13791.6	13493.8	13665.4	13749.6	13600.6	12082.3	9064.9
30°	17038.8	16922.3	16511.1	15909.0	15200.0	14743.5	14549.2	14607.5	14694.9	13328.7	9897.0
32.5°	18502.2	18414.8	17922.7	17288.1	16605.0	16129.1	15675.9	15773.0	15986.7	14853.5	10962.1
35°	19742.1	19696.8	19175.6	18544.3	17822.3	17579.5	17191.0	17210.4	17424.1	16695.7	12260.3
37.5°	20820.2	20742.5	20269.8	19683.9	19110.8	19072.0	18965.1	18974.8	19084.9	18842.1	13752.8
40°	21500.1	21428.9	21092.2	20729.6	20321.6	20328.1	20881.7	20923.8	20797.5	20949.7	15329.4
42.5°	21755.8	21704.0	21522.7	21526.0	21483.9	21674.9	22714.1	22791.8	22338.6	22604.1	16676.2
45°	21312.3	21289.6	21302.6	21768.8	22273.8	22863.1	24213.1	24349.1	23708.0	23701.6	17728.4
47.5°	19881.3	19836.0	20214.8	21008.0	22176.7	23322.8	25119.6	25330.0	24666.3	24329.6	18388.9
50°	17077.7	17207.2	17806.1	18997.5	20774.9	22691.5	25109.9	25475.7	24701.9	24274.6	18278.8
52.5°	12370.4	12344.5	13655.7	15293.8	17456.5	20671.3	23776.0	24310.2	23837.5	23733.9	18032.7
55°	6730.7	6967.0	7850.9	10020.0	12720.0	16847.8	20729.6	21895.1	22442.2	23536.5	18476.3
57.5°	2473.4	2577.0	3130.6	4665.2	6734.0	10476.5	15834.5	17592.4	19282.4	22986.1	18401.8
60°	997.1	1016.6	1236.7	1715.9	2829.6	5332.1	9498.8	11059.2	12652.1	17595.7	14121.9
62.5°	725.2	751.1	838.5	1003.6	1431.0	2331.0	4095.4	4762.3	5205.9	8715.3	6957.3
65°	586.0	605.4	676.6	751.1	945.3	1252.9	1320.9	1272.3	1265.9	2253.3	1596.1
67.5°	485.6	505.0	556.8	608.6	679.9	624.8	453.2	475.9	388.5	385.3	314.0
70°	356.1	378.8	430.6	485.6	407.9	168.3	262.2	388.5	294.6	246.0	239.6
72.5°	268.7	284.9	333.5	317.3	119.8	64.7	174.8	281.7	226.6	181.3	178.1
75°	200.7	210.4	168.3	51.8	12.9	16.2	64.7	116.5	126.3	103.6	103.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	9.7	12.9	16.2	19.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3	3616.3
2.5°	3690.7	3554.7	3360.5	3198.6	3075.6	2955.8	2865.2	2774.5	2771.3	2726.0	2716.2
5°	3846.1	3600.1	3244.0	2988.2	2832.8	2738.9	2674.2	2641.8	2625.6	2609.4	2602.9
7.5°	4069.5	3716.6	3224.5	2952.6	2823.1	2761.6	2716.2	2696.8	2687.1	2674.2	2670.9
10°	4344.7	3885.0	3295.8	3020.6	2907.3	2849.0	2800.4	2771.3	2755.1	2732.4	2726.0
12.5°	4674.9	4092.2	3409.1	3133.9	3014.1	2936.4	2871.6	2829.6	2806.9	2777.8	2771.3
15°	5031.0	4315.6	3535.3	3237.5	3095.0	2994.7	2913.7	2849.0	2806.9	2771.3	2761.6
17.5°	5400.1	4542.2	3648.6	3308.7	3133.9	3014.1	2897.5	2810.1	2758.3	2713.0	2700.1
20°	5814.5	4775.3	3723.1	3321.7	3120.9	2962.3	2826.3	2716.2	2664.4	2602.9	2590.0
22.5°	6248.3	4992.2	3755.5	3292.5	3049.7	2865.2	2719.5	2606.2	2531.7	2467.0	2447.5
25°	6669.2	5186.4	3739.3	3211.6	2942.9	2729.2	2580.3	2463.7	2382.8	2318.0	2301.8
27.5°	7116.0	5348.3	3681.0	3091.8	2797.2	2580.3	2437.8	2337.5	2263.0	2191.8	2175.6
30°	7617.8	5497.2	3587.1	2946.1	2625.6	2428.1	2318.0	2250.0	2169.1	2094.6	2072.0
32.5°	8223.2	5630.0	3451.1	2771.3	2473.4	2295.4	2233.9	2182.1	2088.2	2010.5	1994.3
35°	8916.0	5740.0	3279.6	2590.0	2324.5	2211.2	2198.2	2130.3	2007.2	1916.6	1897.2
37.5°	9718.9	5846.9	3075.6	2411.9	2214.4	2172.3	2175.6	2059.0	1910.1	1800.0	1787.1
40°	10583.3	5953.7	2849.0	2256.5	2114.1	2149.7	2120.5	1955.4	1712.6	1605.8	1592.8
42.5°	11483.3	6070.3	2619.1	2110.8	2029.9	2062.3	2020.2	1748.2	1573.4	1518.4	1511.9
45°	12295.9	6209.5	2369.8	1965.1	1945.7	1936.0	1864.8	1583.1	1508.7	1469.8	1466.6
47.5°	12881.9	6186.8	2104.4	1825.9	1855.1	1822.7	1605.8	1505.4	1443.9	1392.1	1379.2
50°	12775.1	5791.8	1829.2	1670.5	1738.5	1709.4	1443.9	1414.8	1359.7	1304.7	1285.3
52.5°	12503.1	5254.4	1589.6	1505.4	1612.3	1544.3	1333.8	1304.7	1256.1	1184.9	1162.3
55°	12648.8	4749.4	1401.8	1372.7	1482.8	1278.8	1210.8	1165.5	1113.7	1036.0	1026.3
57.5°	12179.4	3875.3	1126.6	1146.1	1311.2	1091.0	1061.9	990.7	903.3	851.5	845.0
60°	8430.4	2081.7	705.8	728.4	948.6	916.2	951.8	887.1	780.2	731.7	722.0
62.5°	3872.0	835.3	385.3	369.1	498.6	621.6	815.8	809.4	676.6	598.9	592.5
65°	938.9	382.0	275.2	259.0	281.7	372.3	530.9	637.8	547.1	456.5	446.8
67.5°	304.3	310.8	252.5	236.3	249.3	278.4	317.3	352.9	349.6	320.5	314.0
70°	242.8	281.7	233.1	213.7	213.7	223.4	213.7	171.6	148.9	161.9	168.3
72.5°	181.3	213.7	184.5	165.1	158.6	155.4	132.7	97.1	68.0	61.5	58.3
75°	106.8	119.8	113.3	97.1	90.6	80.9	64.7	42.1	22.7	16.2	9.7
77.5°	19.4	22.7	25.9	19.4	16.2	12.9	9.7	3.2	0.0	0.0	0.0
80°	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)