

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: P638060

Luminaire Tested: GWS-SA4E-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 14138 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

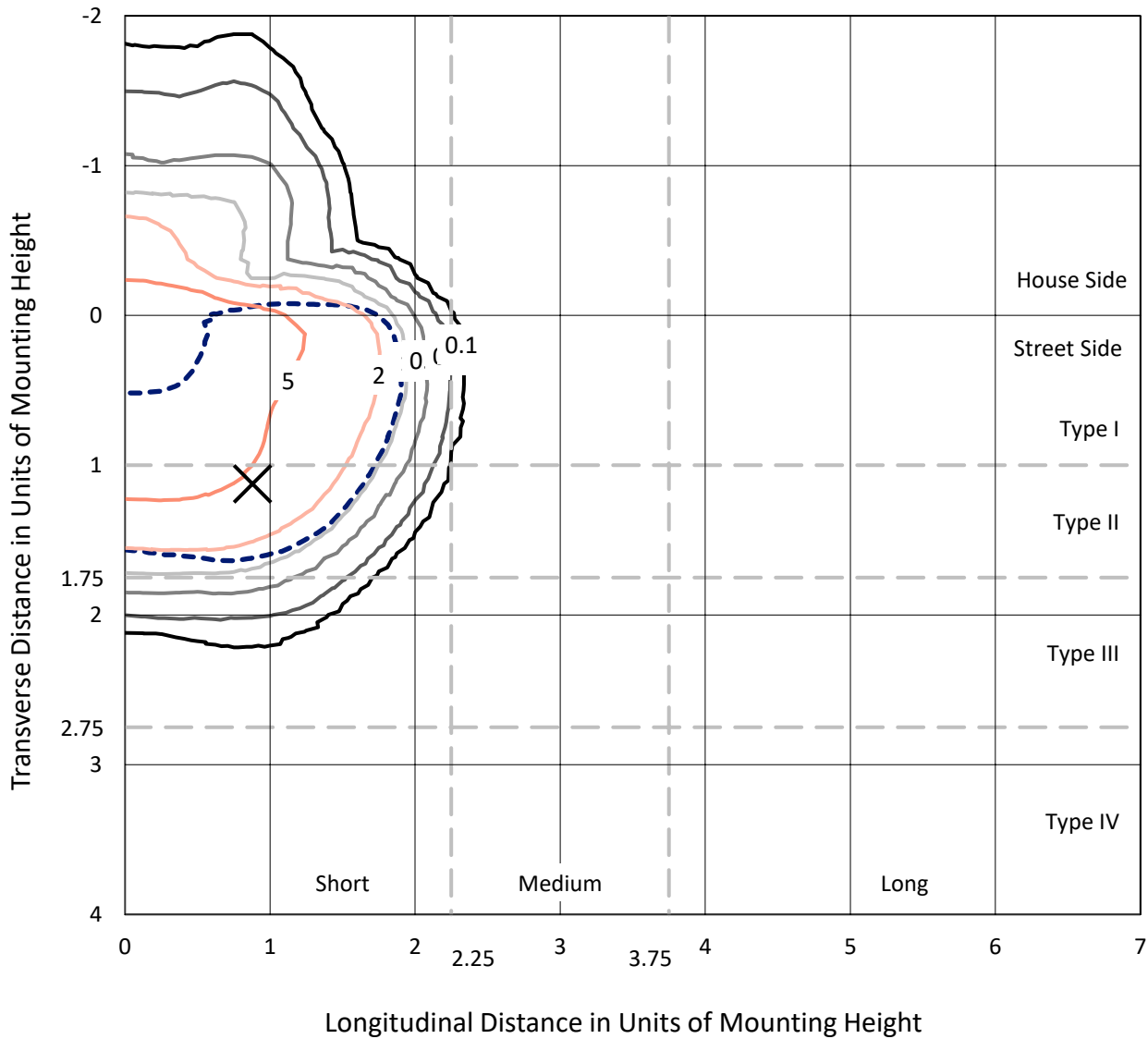
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

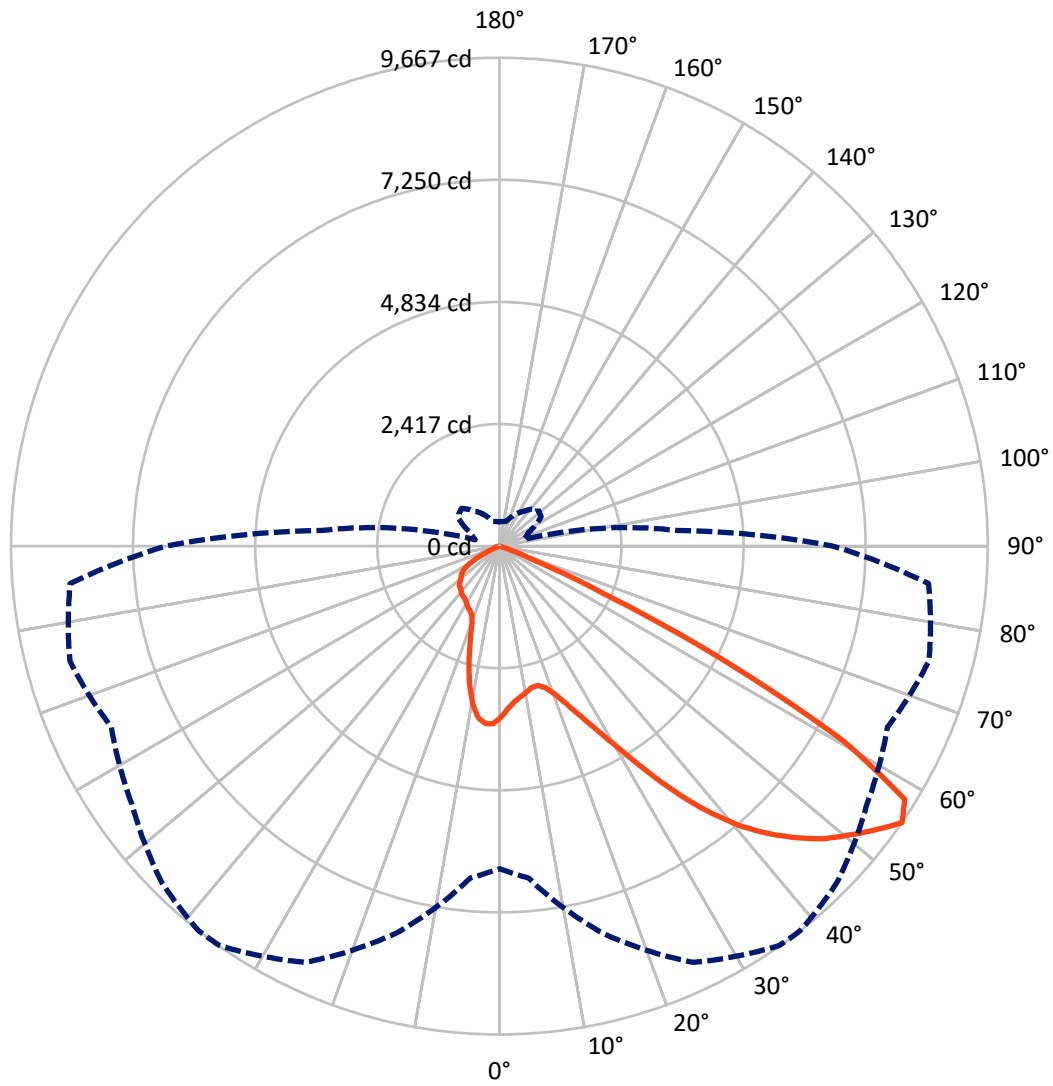
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.5	0.0	2754.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11383.5	0.0	11383.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	14138.0	0.0	14138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	2.2
10°-20°	843.9	6.0
20°-30°	1448.3	10.2
30°-40°	2402.0	17.0
40°-50°	3531.1	25.0
50°-60°	4126.2	29.2
60°-70°	1398.6	9.9
70°-80°	71.5	0.5
80°-90°	2.8	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°	14138.0	100.0
0°-180°	14138.0	100.0

Coefficient of Utilization



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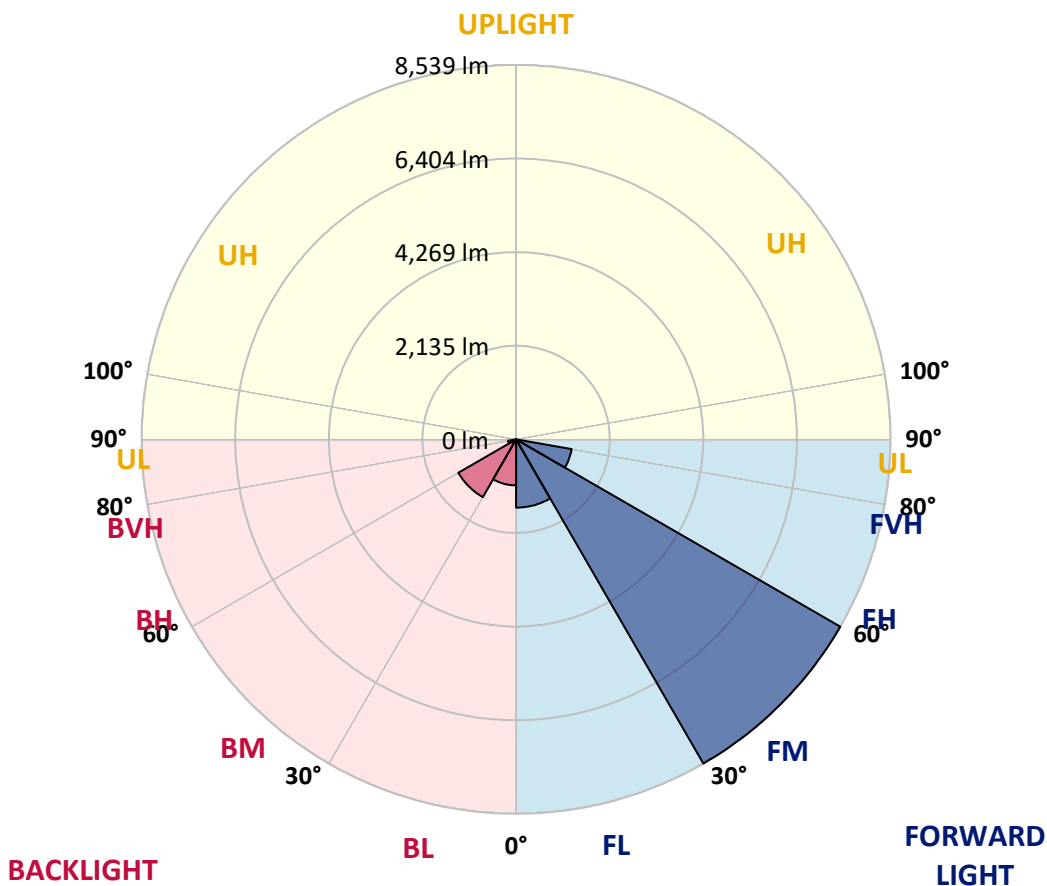
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.3	11.0			
FM (30°-60°)	8539.0	60.4			
FH (60°-80°)	1286.8	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1049.4	7.4	B3/2500		
BM (30°-60°)	1520.4	10.8	B2/2500		
BH (60°-80°)	183.4	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	38°	45°	55°	65°	75°	85°
0°	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4
2.5°	3157.7	3151.2	3164.2	3190.0	3214.3	3222.3	3246.6	3280.5	3301.5	3351.6	3392.0
5°	3015.5	3012.3	3025.2	3047.8	3080.1	3091.4	3128.6	3185.2	3241.7	3329.0	3414.6
7.5°	2886.2	2884.6	2904.0	2954.1	3000.9	3015.5	3060.7	3130.2	3206.2	3340.3	3466.4
10°	2716.5	2718.1	2755.3	2826.4	2912.1	2941.1	3013.9	3114.1	3212.6	3385.6	3560.1
12.5°	2661.6	2664.8	2684.2	2739.1	2832.9	2870.0	2971.9	3123.8	3249.8	3450.2	3681.3
15°	2795.7	2795.7	2779.5	2786.0	2828.0	2862.0	2968.6	3156.1	3312.8	3527.8	3800.9
17.5°	3055.9	3046.2	3005.8	2950.8	2936.3	2947.6	3033.3	3225.6	3401.7	3618.3	3936.6
20°	3408.2	3411.4	3332.2	3217.5	3125.4	3123.8	3175.5	3348.4	3529.4	3726.5	4083.7
22.5°	3834.8	3821.9	3716.8	3560.1	3400.1	3387.2	3408.2	3535.8	3713.6	3897.8	4264.7
25°	4329.3	4322.8	4174.2	3964.1	3752.4	3721.7	3721.7	3847.7	3977.0	4141.8	4481.2
27.5°	4846.4	4846.4	4702.6	4460.2	4179.0	4124.1	4116.0	4264.7	4350.3	4382.6	4663.8
30°	5378.1	5371.6	5229.4	4980.6	4680.0	4623.4	4600.8	4710.7	4772.1	4675.1	4891.7
32.5°	5917.8	5929.2	5785.3	5554.2	5286.0	5248.8	5179.3	5179.3	5229.4	5093.7	5250.4
35°	6498.0	6494.8	6381.6	6224.9	5995.4	5953.4	5838.7	5659.3	5735.2	5675.4	5746.6
37.5°	7010.3	7034.5	6979.6	6863.2	6677.4	6635.4	6446.3	6121.5	6179.6	6273.4	6336.4
40°	7530.6	7550.0	7605.0	7567.8	7333.5	7255.9	6919.8	6386.5	6451.1	6772.7	6953.7
42.5°	8041.3	8051.0	8162.5	8223.9	7910.4	7774.7	7278.5	6548.1	6616.0	7163.8	7480.5
45°	8366.1	8387.1	8571.3	8758.8	8419.4	8233.6	7590.4	6754.9	6784.0	7435.3	7870.0
47.5°	8353.2	8401.7	8747.5	9088.5	8857.4	8657.0	7965.3	7086.2	7037.7	7690.6	8126.9
50°	8093.0	8151.2	8647.3	9188.7	9172.5	8986.7	8382.3	7566.2	7414.3	7916.9	8159.3
52.5°	7553.3	7721.3	8471.2	9201.6	9426.2	9332.5	8897.8	8212.6	7923.3	8241.7	8211.0
55°	6386.5	6593.3	7936.3	9091.7	9655.7	9667.0	9439.1	8886.5	8476.0	8800.8	8529.3
57.5°	4848.0	5012.9	6108.5	8093.0	9275.9	9461.8	9649.2	9242.0	8817.0	9182.2	8603.7
60°	2921.8	3112.4	3825.1	5938.9	7491.8	7808.6	8543.9	8464.7	7952.4	8109.2	7055.5
62.5°	1184.5	1284.7	1766.3	3272.4	4715.5	5011.3	5715.8	5835.4	5709.4	5549.4	4279.2
65°	433.1	473.5	707.8	1352.6	2168.7	2277.0	2648.6	2860.3	3034.9	2584.0	1591.8
67.5°	268.3	294.1	460.6	694.9	788.6	733.7	746.6	890.4	850.0	525.2	284.4
70°	198.8	219.8	360.4	481.6	318.4	245.6	166.4	177.8	160.0	140.6	139.0
72.5°	137.4	156.8	269.9	284.4	122.8	87.3	61.4	85.6	97.0	95.3	98.6
75°	90.5	105.0	169.7	111.5	30.7	24.2	21.0	45.2	58.2	58.2	59.8
77.5°	53.3	61.4	59.8	22.6	6.5	6.5	4.8	8.1	12.9	14.5	17.8
80°	6.5	4.8	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
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°	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4	3390.4
2.5°	3422.7	3411.4	3458.3	3492.2	3519.7	3532.6	3514.8	3513.2	3513.2	3477.7	3468.0
5°	3463.1	3468.0	3534.2	3563.3	3568.2	3552.0	3511.6	3484.1	3468.0	3430.8	3409.8
7.5°	3540.7	3556.9	3619.9	3615.0	3571.4	3497.1	3390.4	3308.0	3254.7	3196.5	3160.9
10°	3652.2	3682.9	3721.7	3653.8	3514.8	3325.8	3106.0	2949.2	2855.5	2789.2	2748.8
12.5°	3787.9	3818.6	3805.7	3645.7	3356.5	3018.7	2735.9	2509.7	2401.4	2341.6	2299.6
15°	3925.3	3944.7	3860.7	3548.8	3076.9	2622.8	2307.7	2083.0	1950.5	1902.1	1866.5
17.5°	4065.9	4061.0	3870.4	3358.1	2703.6	2176.8	1866.5	1713.0	1675.8	1667.7	1664.5
20°	4213.0	4169.3	3831.6	3085.0	2254.3	1735.6	1559.5	1569.2	1637.0	1669.3	1675.8
22.5°	4381.0	4271.1	3734.6	2714.9	1795.4	1446.3	1464.1	1559.5	1651.6	1695.2	1701.7
25°	4560.4	4364.9	3573.0	2239.8	1415.6	1330.0	1435.0	1544.9	1643.5	1696.8	1703.3
27.5°	4678.4	4387.5	3308.0	1761.5	1215.2	1284.7	1396.2	1501.3	1603.1	1661.3	1669.3
30°	4806.0	4377.8	2947.6	1357.5	1147.4	1245.9	1342.9	1438.3	1532.0	1596.6	1603.1
32.5°	4993.5	4371.3	2508.1	1102.1	1119.9	1215.2	1286.3	1365.5	1430.2	1467.3	1462.5
35°	5239.1	4363.2	1995.8	993.8	1103.7	1191.0	1247.6	1284.7	1213.6	1191.0	1195.9
37.5°	5554.2	4382.6	1564.3	948.6	1098.9	1184.5	1233.0	1126.4	1016.5	974.5	968.0
40°	5903.3	4432.7	1192.6	930.8	1115.1	1200.7	1178.1	1001.9	866.2	783.8	766.0
42.5°	6254.0	4487.7	943.8	924.4	1142.5	1245.9	1087.6	911.4	707.8	661.0	654.5
45°	6514.2	4478.0	816.1	913.0	1166.8	1271.8	1063.3	782.2	631.9	610.9	612.5
47.5°	6645.1	4371.3	746.6	887.2	1176.5	1245.9	1003.5	728.8	580.1	602.8	622.2
50°	6575.6	4095.0	682.0	837.1	1155.5	1212.0	908.2	688.4	554.3	648.0	691.7
52.5°	6491.5	3755.6	610.9	759.5	1105.4	1165.1	871.0	677.1	538.1	625.4	657.7
55°	6603.0	3540.7	494.5	639.9	1006.8	1055.3	841.9	675.5	501.0	486.4	481.6
57.5°	6446.3	3112.4	353.9	460.6	772.5	835.5	820.9	664.2	444.4	442.8	449.3
60°	4982.2	1898.8	242.4	292.5	473.5	533.3	745.0	635.1	383.0	352.3	353.9
62.5°	2831.3	808.0	166.4	181.0	242.4	287.7	568.8	576.9	353.9	336.1	353.9
65°	985.8	289.3	129.3	121.2	134.1	153.5	326.4	446.0	321.6	290.9	294.1
67.5°	203.6	143.8	114.7	100.2	100.2	100.2	166.4	278.0	265.0	231.1	234.3
70°	129.3	122.8	100.2	85.6	82.4	76.0	95.3	153.5	182.6	168.1	169.7
72.5°	95.3	93.7	79.2	69.5	61.4	54.9	59.8	76.0	93.7	97.0	98.6
75°	58.2	59.8	51.7	43.6	38.8	33.9	35.6	35.6	35.6	32.3	35.6
77.5°	17.8	19.4	16.2	12.9	11.3	11.3	11.3	9.7	8.1	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	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)