

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: P637197

Luminaire Tested: GWS-SA4C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14419.4 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

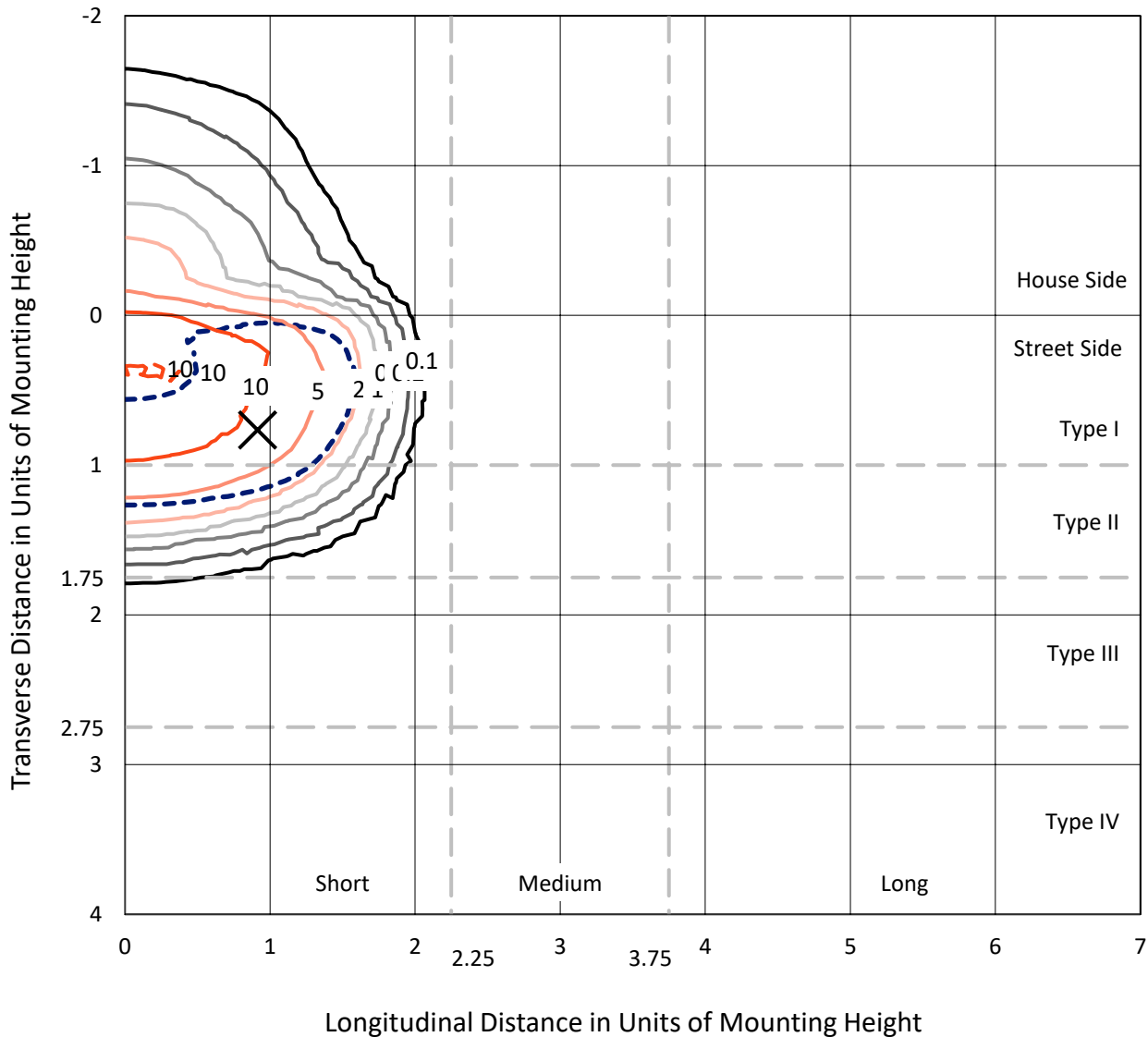
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

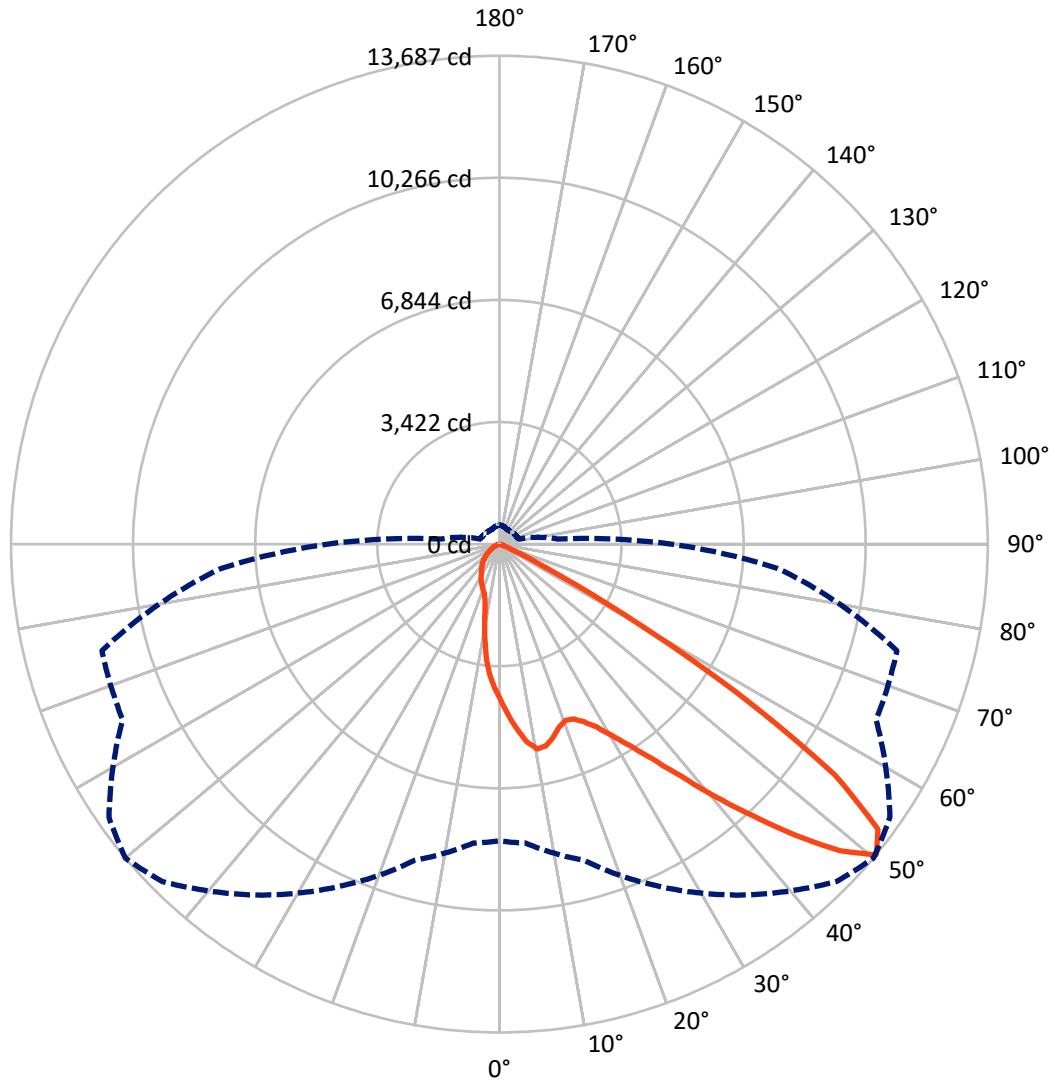
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1852.7	0.0	1852.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12566.7	0.0	12566.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	14419.4	0.0	14419.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	2.8
10°-20°	1045.6	7.3
20°-30°	1725.6	12.0
30°-40°	2847.5	19.7
40°-50°	4505.5	31.2
50°-60°	3411.2	23.7
60°-70°	426.9	3.0
70°-80°	48.3	0.3
80°-90°	3.7	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°	14419.4	100.0
0°-180°	14419.4	100.0

Coefficient of Utilization



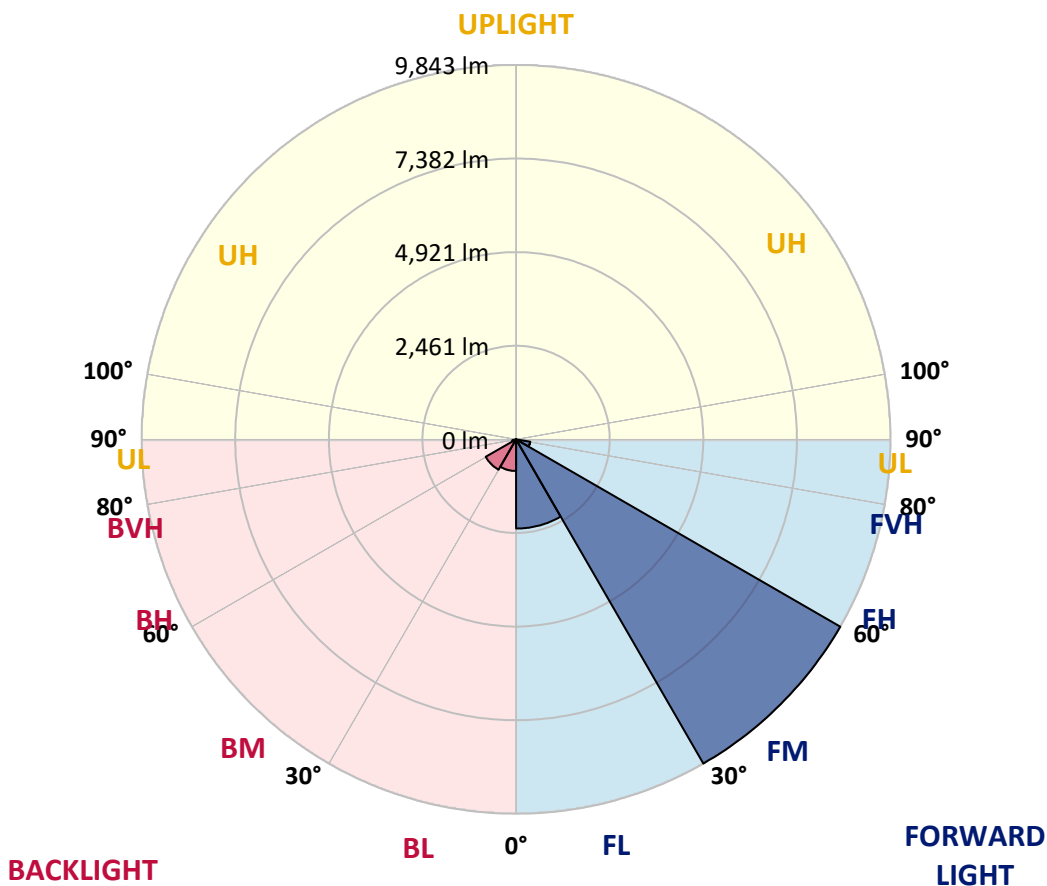
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.8	16.3			
FM (30°-60°)	9842.8	68.3			
FH (60°-80°)	377.5	2.6			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	831.6	5.8	B2/1000		
BM (30°-60°)	921.4	6.4	B1/1000		
BH (60°-80°)	97.8	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5
2.5°	4977.9	5017.7	5006.7	4954.5	4898.3	4858.5	4796.7	4777.5	4637.5	4540.1	4437.1
5°	5579.0	5591.4	5577.6	5514.5	5415.7	5321.0	5219.4	5160.4	4925.7	4714.4	4498.9
7.5°	5723.1	5708.0	5734.1	5765.7	5751.9	5710.8	5603.7	5539.2	5259.2	4914.7	4588.1
10°	5272.9	5238.6	5336.1	5499.4	5671.0	5864.5	5837.0	5842.5	5584.5	5167.3	4704.8
12.5°	4675.9	4662.2	4734.9	4924.3	5260.6	5699.8	5805.5	5982.5	5882.3	5440.4	4837.9
15°	4413.8	4420.7	4464.6	4584.0	4825.5	5371.8	5625.7	5945.4	6148.6	5705.3	4984.7
17.5°	4453.6	4478.3	4476.9	4516.7	4663.6	5101.4	5397.8	5828.8	6354.4	6010.0	5153.5
20°	4724.0	4748.7	4711.6	4681.4	4730.8	5032.8	5278.4	5710.8	6493.1	6317.4	5332.0
22.5°	5128.8	5157.7	5069.8	4983.4	4951.8	5145.3	5323.7	5662.7	6598.7	6598.7	5491.2
25°	5618.8	5658.6	5522.7	5369.0	5281.2	5382.7	5517.2	5771.1	6707.2	6851.3	5599.6
27.5°	6166.4	6167.8	6051.1	5878.2	5713.5	5725.9	5806.8	6015.4	6826.6	7123.0	5684.7
30°	6782.6	6786.8	6631.7	6424.4	6217.2	6160.9	6229.5	6387.4	7075.0	7464.7	5802.7
32.5°	7578.7	7597.9	7375.5	7070.9	6801.9	6696.2	6736.0	6902.0	7470.2	7893.0	5979.8
35°	8654.7	8675.2	8347.2	7945.1	7516.9	7357.7	7397.5	7564.9	8042.6	8500.9	6262.5
37.5°	9716.9	9744.4	9412.3	9037.6	8450.2	8186.7	8227.8	8387.0	8901.7	9340.9	6715.4
40°	10451.2	10488.3	10385.3	10132.8	9587.9	9242.1	9291.5	9349.1	9847.3	10345.5	7302.8
42.5°	10838.2	10890.4	10934.3	11063.3	10776.5	10486.9	10403.2	10407.3	10809.4	11369.4	7913.5
45°	10861.6	10912.3	11137.4	11635.6	11853.8	11793.5	11641.1	11538.2	11543.7	12051.5	8295.1
47.5°	10106.7	10201.4	10622.8	11598.6	12419.3	12920.2	12843.4	12599.1	11852.5	12096.8	8253.9
50°	8318.4	8411.7	9177.6	10581.6	12007.6	13370.4	13687.4	13359.4	11650.7	11532.7	7829.8
52.5°	6041.5	6051.1	6548.0	8188.0	10338.7	12540.1	13286.7	13255.1	11343.3	10849.2	7250.6
55°	2869.8	2835.5	3394.1	4621.0	7150.5	10142.4	11400.9	11757.8	10906.9	10355.1	6801.9
57.5°	835.8	852.3	1100.7	1803.4	3576.6	6482.1	7807.9	8472.1	8952.5	8513.3	5275.7
60°	374.7	376.1	418.6	549.0	1191.3	3015.3	4036.4	4858.5	5352.6	4960.0	2617.3
62.5°	271.7	273.1	289.6	310.2	404.9	1021.1	1513.8	2017.5	2054.6	1345.0	662.9
65°	226.5	226.5	229.2	229.2	242.9	365.1	459.8	592.9	499.6	370.6	259.4
67.5°	182.5	183.9	186.7	186.7	182.5	182.5	197.6	216.8	231.9	286.8	238.8
70°	142.7	141.4	141.4	142.7	138.6	118.0	127.6	145.5	159.2	223.7	207.2
72.5°	111.2	112.5	111.2	105.7	96.1	70.0	75.5	94.7	101.6	140.0	140.0
75°	83.7	85.1	79.6	60.4	39.8	22.0	28.8	46.7	59.0	68.6	50.8
77.5°	11.0	11.0	8.2	8.2	6.9	8.2	8.2	11.0	16.5	16.5	12.4
80°	1.4	1.4	1.4	2.7	4.1	5.5	5.5	5.5	5.5	6.9	6.9
82.5°	1.4	1.4	1.4	1.4	4.1	4.1	5.5	5.5	5.5	5.5	5.5
85°	0.0	0.0	0.0	1.4	2.7	4.1	4.1	5.5	5.5	5.5	5.5
87.5°	0.0	0.0	0.0	1.4	2.7	4.1	4.1	4.1	5.5	5.5	5.5
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°	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5	4368.5
2.5°	4375.4	4295.8	4199.7	4133.8	4040.5	3978.7	3890.9	3831.9	3781.1	3741.3	3763.3
5°	4376.7	4250.5	4054.2	3886.8	3704.2	3536.8	3357.0	3215.6	3088.0	3030.4	3061.9
7.5°	4404.2	4223.0	3922.5	3624.6	3274.7	2928.8	2604.9	2341.4	2211.0	2149.3	2168.5
10°	4457.7	4210.7	3775.6	3281.5	2713.3	2241.2	1926.9	1748.5	1675.8	1637.3	1644.2
12.5°	4507.1	4202.4	3584.8	2830.0	2141.0	1738.9	1575.6	1550.9	1566.0	1567.3	1566.0
15°	4574.4	4187.3	3348.8	2366.1	1712.8	1502.8	1506.9	1542.6	1578.3	1589.3	1586.6
17.5°	4645.7	4164.0	3044.1	1921.4	1453.4	1434.2	1482.2	1530.3	1566.0	1571.5	1572.8
20°	4719.9	4116.0	2696.9	1568.7	1332.6	1382.1	1435.6	1471.3	1497.3	1505.6	1508.3
22.5°	4754.2	4014.4	2296.1	1316.2	1251.7	1317.6	1357.4	1404.0	1412.2	1382.1	1387.5
25°	4736.3	3842.9	1905.0	1146.0	1170.7	1236.6	1295.6	1272.3	1237.9	1216.0	1222.9
27.5°	4680.1	3615.0	1522.0	1021.1	1084.2	1168.0	1174.8	1148.7	1143.2	1125.4	1130.9
30°	4619.7	3352.9	1224.2	920.9	996.4	1084.2	1063.6	1073.3	1074.6	1054.0	1060.9
32.5°	4582.6	3078.4	974.4	853.7	940.1	956.6	997.8	1017.0	1018.4	970.3	978.6
35°	4595.0	2808.0	824.8	798.8	888.0	883.9	941.5	952.5	872.9	807.0	813.9
37.5°	4695.1	2558.2	739.7	756.2	797.4	829.0	872.9	800.1	782.3	752.1	756.2
40°	4881.8	2345.5	689.0	730.1	735.6	786.4	719.2	728.8	730.1	710.9	715.0
42.5°	5100.0	2168.5	658.8	715.0	701.3	709.6	642.3	661.5	682.1	673.9	675.2
45°	5209.8	1995.5	632.7	662.9	667.0	588.8	573.7	594.3	620.3	624.5	625.8
47.5°	5112.4	1830.8	605.2	587.4	614.9	536.6	518.8	525.6	555.8	572.3	575.1
50°	4814.6	1641.4	564.1	520.2	505.1	481.7	465.3	466.6	500.9	529.8	535.3
52.5°	4396.0	1443.8	496.8	440.6	406.2	424.1	428.2	420.0	451.5	480.4	485.8
55°	3989.7	1196.8	393.9	358.2	326.6	365.1	376.1	365.1	374.7	393.9	395.3
57.5°	2809.4	676.6	301.9	296.4	270.4	312.9	330.8	314.3	297.8	310.2	312.9
60°	1302.5	354.1	231.9	231.9	225.1	269.0	299.2	275.9	244.3	249.8	253.9
62.5°	407.6	223.7	170.2	160.6	183.9	229.2	253.9	230.6	193.5	193.5	199.0
65°	230.6	192.1	134.5	123.5	149.6	183.9	199.0	174.3	141.4	138.6	138.6
67.5°	214.1	182.5	119.4	100.2	105.7	118.0	123.5	107.1	97.4	96.1	97.4
70°	177.0	152.3	96.1	68.6	64.5	63.1	65.9	61.8	59.0	60.4	64.5
72.5°	109.8	92.0	60.4	41.2	35.7	34.3	34.3	34.3	32.9	32.9	32.9
75°	39.8	34.3	27.4	20.6	17.8	16.5	16.5	17.8	16.5	15.1	13.7
77.5°	12.4	11.0	11.0	11.0	9.6	8.2	6.9	6.9	5.5	4.1	4.1
80°	6.9	6.9	6.9	6.9	5.5	5.5	4.1	2.7	1.4	1.4	0.0
82.5°	6.9	6.9	6.9	5.5	5.5	5.5	4.1	2.7	1.4	0.0	0.0
85°	5.5	5.5	5.5	5.5	5.5	5.5	4.1	2.7	1.4	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	4.1	2.7	1.4	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)