

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: P637307

Luminaire Tested: GWS-SA4C-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637307
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14954.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

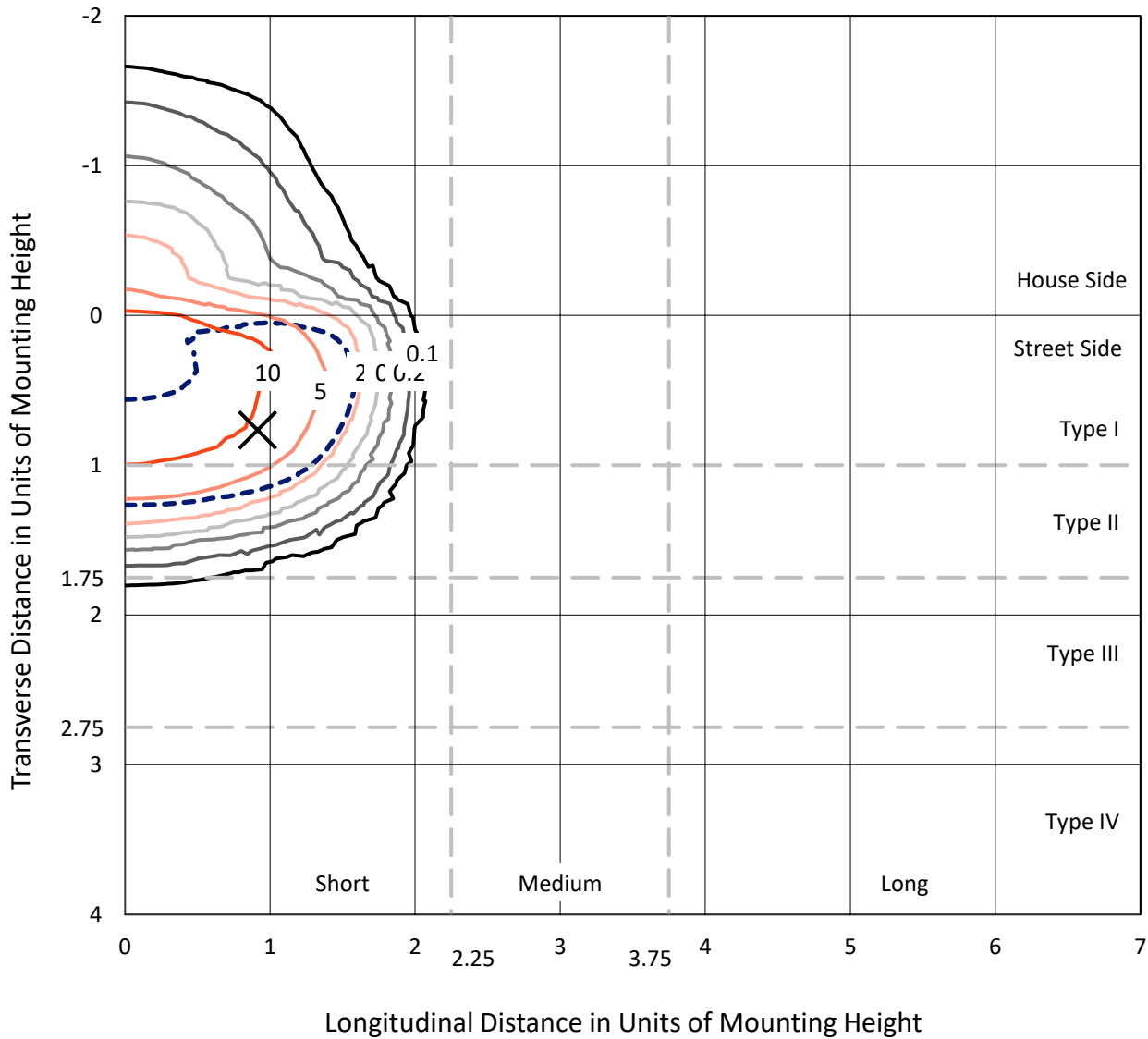
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

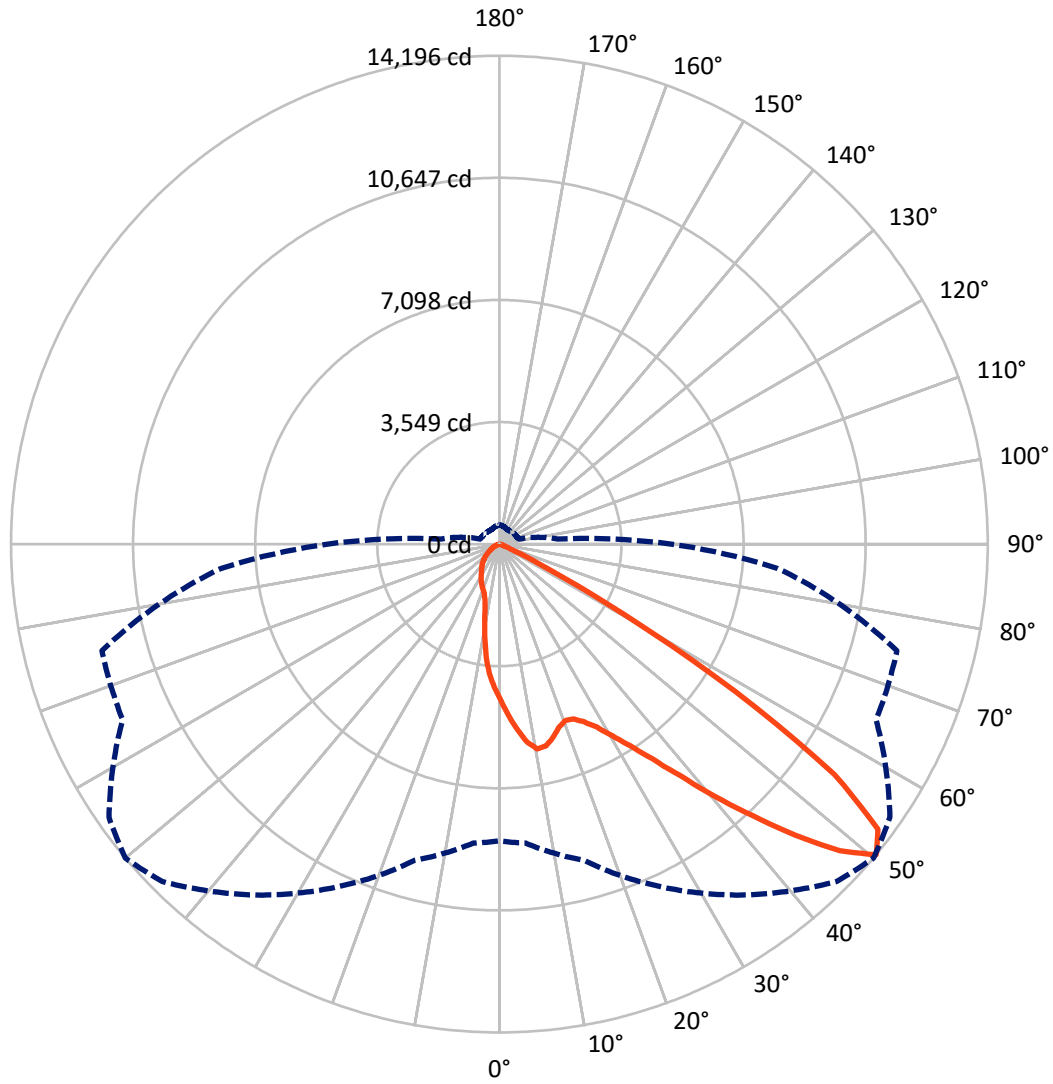
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 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	1921.5	0.0	1921.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13033.3	0.0	13033.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	14954.8	0.0	14954.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	2.8
10°-20°	1084.4	7.3
20°-30°	1789.6	12.0
30°-40°	2953.3	19.7
40°-50°	4672.7	31.2
50°-60°	3537.8	23.7
60°-70°	442.8	3.0
70°-80°	50.1	0.3
80°-90°	3.8	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°	14954.8	100.0
0°-180°	14954.8	100.0

Coefficient of Utilization



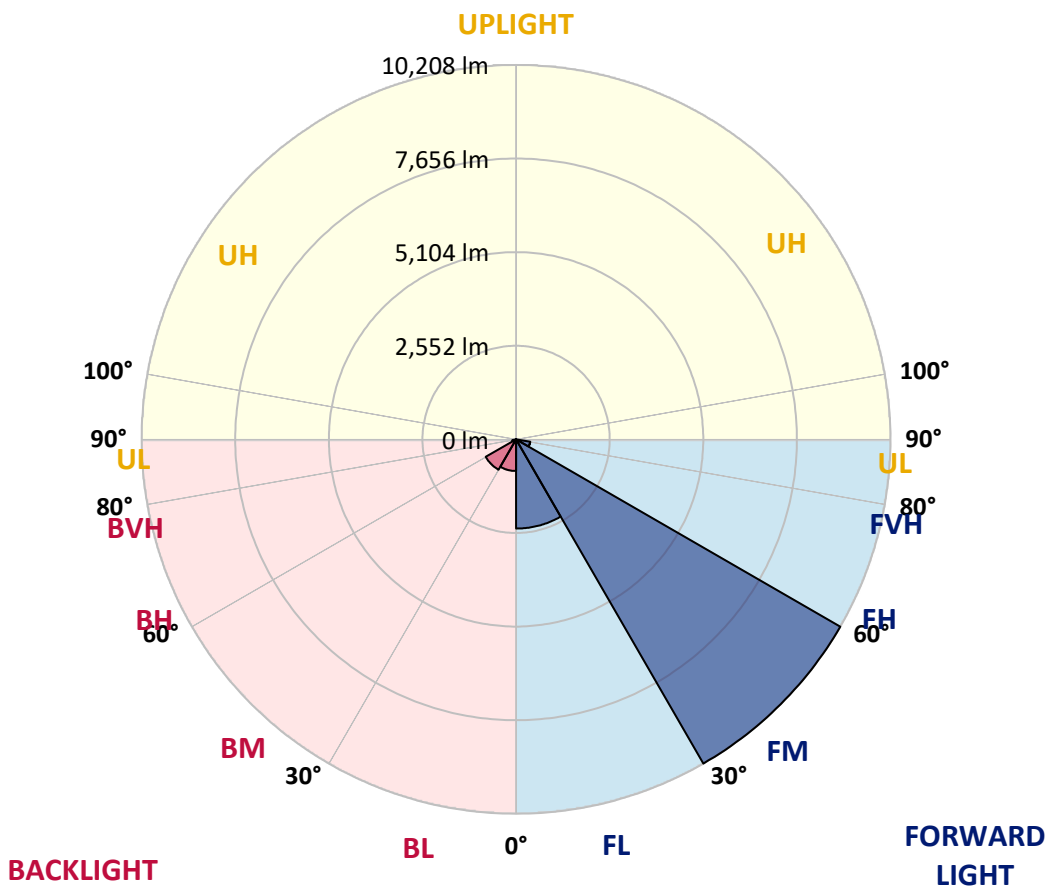
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.9	16.3			
FM (30°-60°)	10208.2	68.3			
FH (60°-80°)	391.5	2.6			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	862.4	5.8	B2/1000		
BM (30°-60°)	955.6	6.4	B1/1000		
BH (60°-80°)	101.4	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°	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7
2.5°	5162.7	5204.0	5192.6	5138.5	5080.1	5038.9	4974.8	4954.9	4809.7	4708.6	4601.9
5°	5786.2	5799.0	5784.7	5719.3	5616.8	5518.6	5413.2	5352.0	5108.6	4889.4	4665.9
7.5°	5935.6	5920.0	5947.0	5979.7	5965.5	5922.8	5811.8	5744.9	5454.5	5097.2	4758.5
10°	5468.7	5433.2	5534.2	5703.6	5881.5	6082.2	6053.8	6059.5	5791.8	5359.1	4879.4
12.5°	4849.6	4835.3	4910.8	5107.2	5455.9	5911.4	6021.0	6204.6	6100.7	5642.4	5017.5
15°	4577.7	4584.8	4630.3	4754.2	5004.7	5571.2	5834.6	6166.2	6376.9	5917.1	5169.8
17.5°	4619.0	4644.6	4643.2	4684.4	4836.7	5290.8	5598.3	6045.2	6590.4	6233.1	5344.9
20°	4899.4	4925.0	4886.6	4855.2	4906.5	5219.6	5474.4	5922.8	6734.1	6552.0	5529.9
22.5°	5319.3	5349.2	5258.1	5168.4	5135.7	5336.4	5521.4	5873.0	6843.7	6843.7	5695.1
25°	5827.4	5868.7	5727.8	5568.4	5477.3	5582.6	5722.1	5985.4	6956.2	7105.7	5807.5
27.5°	6395.4	6396.8	6275.8	6096.5	5925.7	5938.5	6022.4	6238.8	7080.0	7387.5	5895.8
30°	7034.5	7038.8	6877.9	6663.0	6448.0	6389.7	6460.9	6624.5	7337.7	7741.9	6018.2
32.5°	7860.1	7880.0	7649.4	7333.4	7054.4	6944.8	6986.1	7158.3	7747.6	8186.0	6201.8
35°	8976.0	8997.4	8657.2	8240.1	7796.0	7630.9	7672.2	7845.8	8341.2	8816.6	6495.0
37.5°	10077.7	10106.2	9761.7	9373.1	8763.9	8490.6	8533.3	8698.5	9232.2	9687.7	6964.7
40°	10839.3	10877.7	10770.9	10509.0	9943.9	9585.2	9636.5	9696.3	10213.0	10729.7	7574.0
42.5°	11240.7	11294.7	11340.3	11474.1	11176.6	10876.3	10789.4	10793.7	11210.8	11791.5	8207.4
45°	11264.9	11317.5	11551.0	12067.7	12294.0	12231.4	12073.4	11966.6	11972.3	12499.0	8603.1
47.5°	10482.0	10580.2	11017.2	12029.2	12880.4	13400.0	13320.3	13066.9	12292.6	12545.9	8560.4
50°	8627.3	8724.1	9518.3	10974.5	12453.4	13866.8	14195.7	13855.5	12083.3	11960.9	8120.5
52.5°	6265.8	6275.8	6791.1	8492.1	10722.5	13005.7	13780.0	13747.3	11764.5	11252.0	7519.9
55°	2976.3	2940.8	3520.1	4792.6	7416.0	10519.0	11824.3	12194.3	11311.8	10739.6	7054.4
57.5°	866.9	883.9	1141.6	1870.4	3709.4	6722.8	8097.8	8786.7	9284.9	8829.4	5471.6
60°	388.6	390.0	434.1	569.4	1235.5	3127.2	4186.2	5038.9	5551.3	5144.2	2714.4
62.5°	281.8	283.3	300.3	321.7	419.9	1059.0	1570.0	2092.4	2130.8	1394.9	687.5
65°	234.9	234.9	237.7	237.7	251.9	378.6	476.8	614.9	518.1	384.3	269.0
67.5°	189.3	190.7	193.6	193.6	189.3	189.3	205.0	224.9	240.6	297.5	247.7
70°	148.0	146.6	146.6	148.0	143.8	122.4	132.4	150.9	165.1	232.0	214.9
72.5°	115.3	116.7	115.3	109.6	99.6	72.6	78.3	98.2	105.3	145.2	145.2
75°	86.8	88.3	82.6	62.6	41.3	22.8	29.9	48.4	61.2	71.2	52.7
77.5°	11.4	11.4	8.5	8.5	7.1	8.5	8.5	11.4	17.1	17.1	12.8
80°	1.4	1.4	1.4	2.8	4.3	5.7	5.7	5.7	5.7	7.1	7.1
82.5°	1.4	1.4	1.4	1.4	4.3	4.3	5.7	5.7	5.7	5.7	5.7
85°	0.0	0.0	0.0	1.4	2.8	4.3	4.3	5.7	5.7	5.7	5.7
87.5°	0.0	0.0	0.0	1.4	2.8	4.3	4.3	4.3	5.7	5.7	5.7
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°	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7
2.5°	4537.8	4455.3	4355.6	4287.3	4190.5	4126.5	4035.4	3974.2	3921.5	3880.2	3903.0
5°	4539.3	4408.3	4204.7	4031.1	3841.8	3668.1	3481.7	3335.0	3202.7	3142.9	3175.6
7.5°	4567.7	4379.8	4068.1	3759.2	3396.3	3037.6	2701.6	2428.3	2293.1	2229.1	2249.0
10°	4623.2	4367.0	3915.8	3403.4	2814.1	2324.4	1998.5	1813.4	1738.0	1698.1	1705.2
12.5°	4674.5	4358.5	3717.9	2935.1	2220.5	1803.5	1634.1	1608.5	1624.1	1625.5	1624.1
15°	4744.2	4342.8	3473.1	2454.0	1776.4	1558.6	1562.9	1599.9	1636.9	1648.3	1645.5
17.5°	4818.2	4318.6	3157.1	1992.8	1507.4	1487.5	1537.3	1587.1	1624.1	1629.8	1631.2
20°	4895.1	4268.8	2797.0	1627.0	1382.1	1433.4	1488.9	1525.9	1552.9	1561.5	1564.3
22.5°	4930.7	4163.5	2381.4	1365.0	1298.1	1366.5	1407.8	1456.1	1464.7	1433.4	1439.1
25°	4912.2	3985.5	1975.7	1188.5	1214.2	1282.5	1343.7	1319.5	1283.9	1261.1	1268.3
27.5°	4853.8	3749.3	1578.6	1059.0	1124.5	1211.3	1218.4	1191.4	1185.7	1167.2	1172.9
30°	4791.2	3477.4	1269.7	955.1	1033.4	1124.5	1103.1	1113.1	1114.5	1093.2	1100.3
32.5°	4752.8	3192.7	1010.6	885.4	975.0	992.1	1034.8	1054.7	1056.2	1006.3	1014.9
35°	4765.6	2912.3	855.5	828.4	920.9	916.7	976.5	987.8	905.3	837.0	844.1
37.5°	4869.5	2653.2	767.2	784.3	827.0	859.7	905.3	829.8	811.3	780.0	784.3
40°	5063.1	2432.6	714.6	757.3	762.9	815.6	745.9	755.8	757.3	737.3	741.6
42.5°	5289.4	2249.0	683.2	741.6	727.4	735.9	666.2	686.1	707.4	698.9	700.3
45°	5403.3	2069.6	656.2	687.5	691.8	610.6	595.0	616.3	643.4	647.7	649.1
47.5°	5302.2	1898.8	627.7	609.2	637.7	556.6	538.0	545.2	576.5	593.6	596.4
50°	4993.3	1702.4	585.0	539.5	523.8	499.6	482.5	484.0	519.5	549.4	555.1
52.5°	4559.2	1497.4	515.3	456.9	421.3	439.8	444.1	435.6	468.3	498.2	503.9
55°	4137.8	1241.2	408.5	371.5	338.8	378.6	390.0	378.6	388.6	408.5	409.9
57.5°	2913.7	701.7	313.1	307.5	280.4	324.5	343.0	326.0	308.9	321.7	324.5
60°	1350.8	367.2	240.6	240.6	233.4	279.0	310.3	286.1	253.4	259.1	263.3
62.5°	422.8	232.0	176.5	166.5	190.7	237.7	263.3	239.1	200.7	200.7	206.4
65°	239.1	199.3	139.5	128.1	155.2	190.7	206.4	180.8	146.6	143.8	143.8
67.5°	222.1	189.3	123.8	103.9	109.6	122.4	128.1	111.0	101.1	99.6	101.1
70°	183.6	158.0	99.6	71.2	66.9	65.5	68.3	64.1	61.2	62.6	66.9
72.5°	113.9	95.4	62.6	42.7	37.0	35.6	35.6	35.6	34.2	34.2	34.2
75°	41.3	35.6	28.5	21.4	18.5	17.1	17.1	18.5	17.1	15.7	14.2
77.5°	12.8	11.4	11.4	11.4	10.0	8.5	7.1	7.1	5.7	4.3	4.3
80°	7.1	7.1	7.1	7.1	5.7	5.7	4.3	2.8	1.4	1.4	0.0
82.5°	7.1	7.1	7.1	5.7	5.7	5.7	4.3	2.8	1.4	0.0	0.0
85°	5.7	5.7	5.7	5.7	5.7	5.7	4.3	2.8	1.4	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	4.3	2.8	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)