

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: P641487

Luminaire Tested: GWS-SA6B-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641487  
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-SA6B-722-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

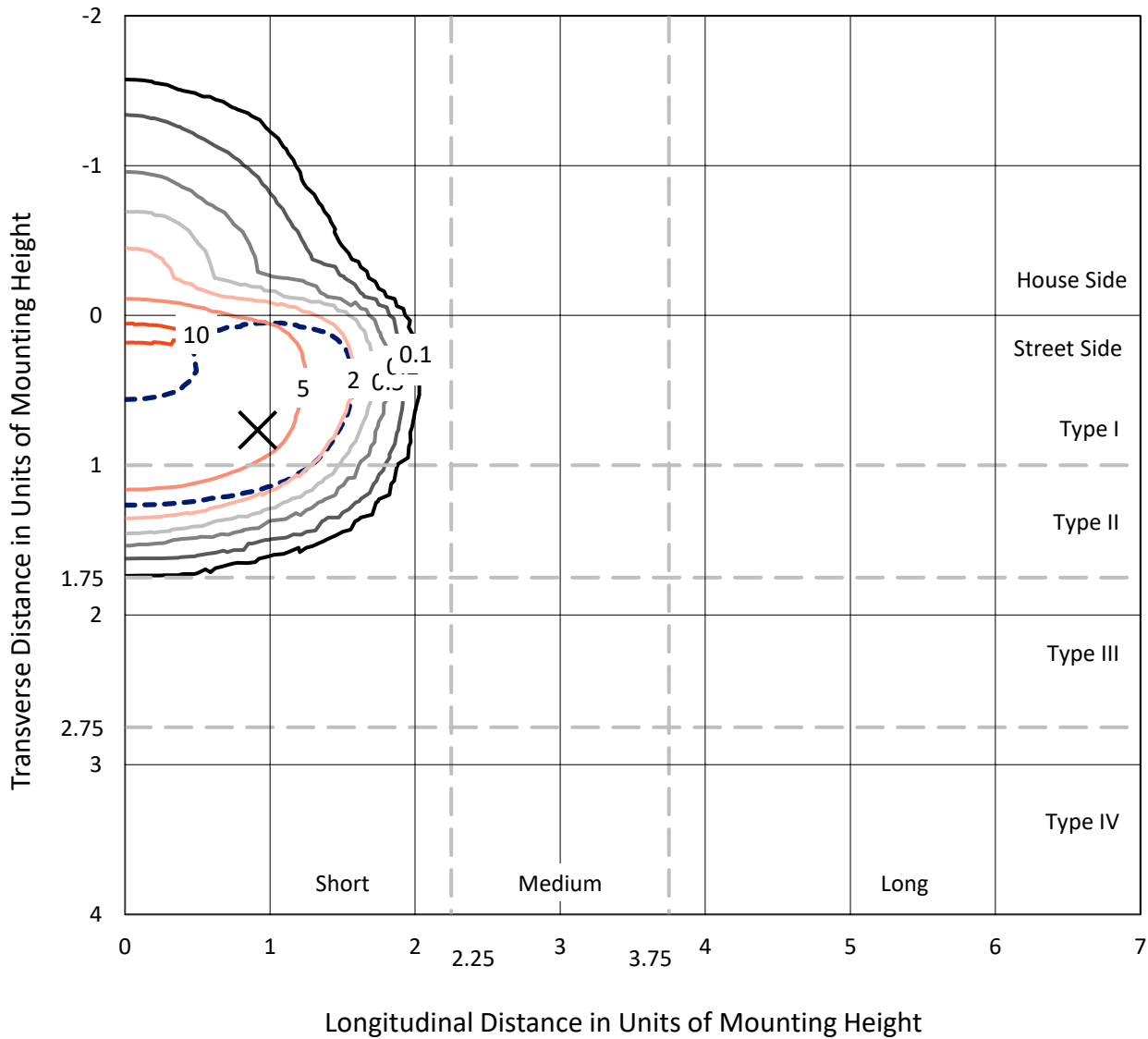
Lumens per Lamp: N/A  
Luminaire Lumens: 11745.8 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

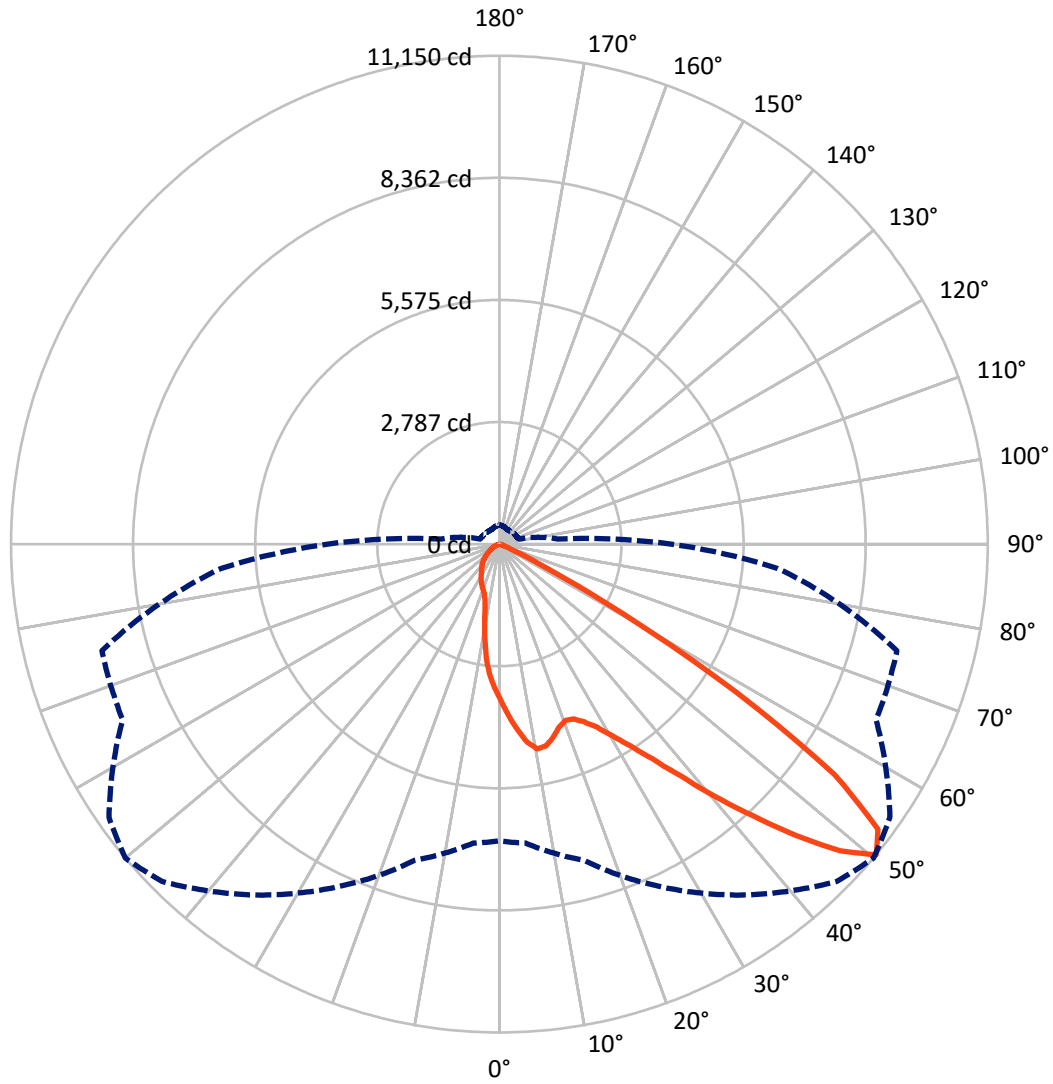
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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
<b>House Side</b>	Lumens	1509.2	0.0	1509.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	10236.7	0.0	10236.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	11745.8	0.0	11745.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	2.8
10°-20°	851.7	7.3
20°-30°	1405.6	12.0
30°-40°	2319.5	19.7
40°-50°	3670.1	31.2
50°-60°	2778.7	23.7
60°-70°	347.8	3.0
70°-80°	39.3	0.3
80°-90°	3.0	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°	11745.8	100.0
0°-180°	11745.8	100.0

**Coefficient of Utilization**



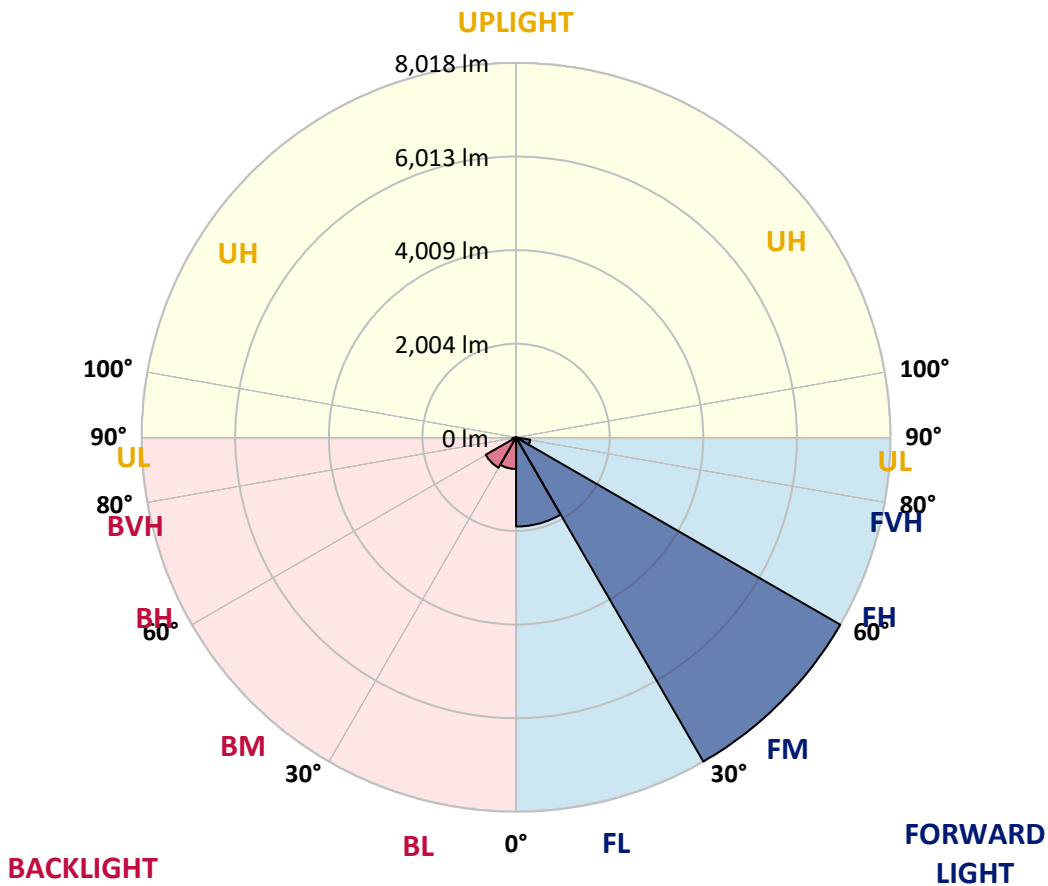
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.0	16.3			
FM (30°-60°)	8017.7	68.3			
FH (60°-80°)	307.5	2.6			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	677.4	5.8	B2/1000		
BM (30°-60°)	750.5	6.4	B1/1000		
BH (60°-80°)	79.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.6	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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	4054.9	4087.3	4078.4	4035.9	3990.0	3957.6	3907.3	3891.7	3777.6	3698.3	3614.4
5°	4544.6	4554.6	4543.4	4492.0	4411.5	4334.4	4251.7	4203.6	4012.4	3840.2	3664.7
7.5°	4662.0	4649.7	4670.9	4696.6	4685.4	4651.9	4564.7	4512.1	4284.1	4003.5	3737.4
10°	4295.3	4267.3	4346.7	4479.7	4619.5	4777.1	4754.7	4759.2	4549.0	4209.2	3832.4
12.5°	3808.9	3797.8	3857.0	4011.3	4285.2	4642.9	4729.0	4873.2	4791.6	4431.6	3940.9
15°	3595.4	3601.0	3636.8	3734.0	3930.8	4375.7	4582.6	4843.1	5008.5	4647.4	4060.5
17.5°	3627.8	3647.9	3646.8	3679.3	3798.9	4155.5	4397.0	4748.0	5176.2	4895.6	4198.0
20°	3848.1	3868.2	3838.0	3813.4	3853.7	4099.6	4299.7	4651.9	5289.1	5146.0	4343.3
22.5°	4177.9	4201.3	4129.8	4059.4	4033.6	4191.3	4336.6	4612.8	5375.2	5375.2	4473.0
25°	4577.0	4609.4	4498.7	4373.5	4302.0	4384.7	4494.3	4701.1	5463.5	5580.9	4561.3
27.5°	5023.1	5024.2	4929.1	4788.3	4654.1	4664.2	4730.1	4900.1	5560.8	5802.3	4630.6
30°	5525.0	5528.4	5402.0	5233.2	5064.4	5018.6	5074.5	5203.0	5763.2	6080.7	4726.8
32.5°	6173.5	6189.1	6008.0	5759.8	5540.7	5454.6	5487.0	5622.3	6085.1	6429.5	4871.0
35°	7049.9	7066.7	6799.5	6472.0	6123.1	5993.5	6025.9	6162.3	6551.3	6924.7	5101.3
37.5°	7915.3	7937.6	7667.1	7361.9	6883.4	6668.7	6702.3	6831.9	7251.2	7608.9	5470.2
40°	8513.4	8543.6	8459.7	8254.0	7810.2	7528.4	7568.7	7615.6	8021.5	8427.3	5948.7
42.5°	8828.6	8871.1	8906.9	9012.0	8778.3	8542.4	8474.2	8477.6	8805.2	9261.3	6446.2
45°	8847.6	8889.0	9072.4	9478.2	9655.9	9606.7	9482.7	9398.8	9403.3	9816.9	6757.0
47.5°	8232.8	8309.9	8653.1	9448.0	10116.5	10524.6	10462.0	10263.0	9654.8	9853.8	6723.5
50°	6776.0	6852.1	7475.9	8619.6	9781.2	10891.3	11149.6	10882.4	9490.5	9394.3	6378.0
52.5°	4921.3	4929.1	5333.9	6669.8	8421.7	10214.9	10823.1	10797.4	9240.1	8837.6	5906.3
55°	2337.7	2309.7	2764.7	3764.2	5824.6	8261.8	9287.0	9577.7	8884.5	8435.1	5540.7
57.5°	680.8	694.3	896.6	1469.0	2913.4	5280.2	6360.2	6901.3	7292.5	6934.8	4297.5
60°	305.2	306.3	341.0	447.2	970.4	2456.2	3288.0	3957.6	4360.1	4040.4	2132.0
62.5°	221.4	222.5	235.9	252.7	329.8	831.8	1233.1	1643.4	1673.6	1095.6	540.0
65°	184.5	184.5	186.7	186.7	197.9	297.4	374.5	483.0	406.9	301.9	211.3
67.5°	148.7	149.8	152.0	152.0	148.7	148.7	161.0	176.6	188.9	233.7	194.5
70°	116.3	115.2	115.2	116.3	112.9	96.1	104.0	118.5	129.7	182.2	168.8
72.5°	90.6	91.7	90.6	86.1	78.3	57.0	61.5	77.1	82.7	114.0	114.0
75°	68.2	69.3	64.8	49.2	32.4	17.9	23.5	38.0	48.1	55.9	41.4
77.5°	8.9	8.9	6.7	6.7	5.6	6.7	6.7	8.9	13.4	13.4	10.1
80°	1.1	1.1	1.1	2.2	3.4	4.5	4.5	4.5	4.5	5.6	5.6
82.5°	1.1	1.1	1.1	1.1	3.4	3.4	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	1.1	2.2	3.4	3.4	4.5	4.5	4.5	4.5
87.5°	0.0	0.0	0.0	1.1	2.2	3.4	3.4	3.4	4.5	4.5	4.5
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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3564.1	3499.3	3421.0	3367.3	3291.3	3241.0	3169.5	3121.4	3080.0	3047.6	3065.5
5°	3565.2	3462.4	3302.5	3166.1	3017.4	2881.0	2734.6	2619.4	2515.4	2468.5	2494.2
7.5°	3587.6	3440.0	3195.2	2952.6	2667.5	2385.8	2121.9	1907.3	1801.1	1750.7	1766.4
10°	3631.2	3429.9	3075.5	2673.1	2210.2	1825.7	1569.6	1424.3	1365.0	1333.7	1339.3
12.5°	3671.4	3423.2	2920.1	2305.3	1744.0	1416.5	1283.4	1263.3	1275.6	1276.7	1275.6
15°	3726.2	3410.9	2727.9	1927.4	1395.2	1224.2	1227.5	1256.6	1285.7	1294.6	1292.4
17.5°	3784.3	3391.9	2479.7	1565.2	1183.9	1168.3	1207.4	1246.5	1275.6	1280.1	1281.2
20°	3844.7	3352.8	2196.8	1277.8	1085.6	1125.8	1169.4	1198.5	1219.7	1226.4	1228.7
22.5°	3872.7	3270.1	1870.4	1072.1	1019.6	1073.3	1105.7	1143.7	1150.4	1125.8	1130.3
25°	3858.1	3130.3	1551.7	933.5	953.6	1007.3	1055.4	1036.4	1008.4	990.5	996.1
27.5°	3812.3	2944.7	1239.8	831.8	883.2	951.4	957.0	935.7	931.3	916.7	921.2
30°	3763.1	2731.2	997.2	750.2	811.6	883.2	866.4	874.3	875.4	858.6	864.2
32.5°	3732.9	2507.6	793.8	695.4	765.8	779.2	812.8	828.4	829.5	790.4	797.1
35°	3743.0	2287.4	671.9	650.7	723.3	720.0	766.9	775.9	711.0	657.4	663.0
37.5°	3824.6	2083.9	602.6	616.0	649.5	675.3	711.0	651.8	637.2	612.6	616.0
40°	3976.6	1910.6	561.2	594.8	599.2	640.6	585.8	593.6	594.8	579.1	582.5
42.5°	4154.4	1766.4	536.6	582.5	571.3	578.0	523.2	538.9	555.6	548.9	550.0
45°	4243.8	1625.5	515.4	540.0	543.3	479.6	467.3	484.1	505.3	508.7	509.8
47.5°	4164.5	1491.4	493.0	478.5	500.9	437.1	422.6	428.2	452.8	466.2	468.4
50°	3921.9	1337.1	459.5	423.7	411.4	392.4	379.0	380.1	408.1	431.5	436.0
52.5°	3580.9	1176.1	404.7	358.9	330.9	345.5	348.8	342.1	367.8	391.3	395.8
55°	3249.9	974.9	320.9	291.8	266.1	297.4	306.3	297.4	305.2	320.9	322.0
57.5°	2288.5	551.2	246.0	241.5	220.2	254.9	269.4	256.0	242.6	252.7	254.9
60°	1061.0	288.4	188.9	188.9	183.3	219.1	243.7	224.7	199.0	203.5	206.8
62.5°	332.0	182.2	138.6	130.8	149.8	186.7	206.8	187.8	157.6	157.6	162.1
65°	187.8	156.5	109.6	100.6	121.9	149.8	162.1	142.0	115.2	112.9	112.9
67.5°	174.4	148.7	97.3	81.6	86.1	96.1	100.6	87.2	79.4	78.3	79.4
70°	144.2	124.1	78.3	55.9	52.5	51.4	53.7	50.3	48.1	49.2	52.5
72.5°	89.4	74.9	49.2	33.5	29.1	27.9	27.9	27.9	26.8	26.8	26.8
75°	32.4	27.9	22.4	16.8	14.5	13.4	13.4	14.5	13.4	12.3	11.2
77.5°	10.1	8.9	8.9	8.9	7.8	6.7	5.6	5.6	4.5	3.4	3.4
80°	5.6	5.6	5.6	5.6	4.5	4.5	3.4	2.2	1.1	1.1	0.0
82.5°	5.6	5.6	5.6	4.5	4.5	4.5	3.4	2.2	1.1	0.0	0.0
85°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	2.2	1.1	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	2.2	1.1	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)