

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: P636482

Luminaire Tested: GWS-SA3F-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636482
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-SA3F-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14628.5 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

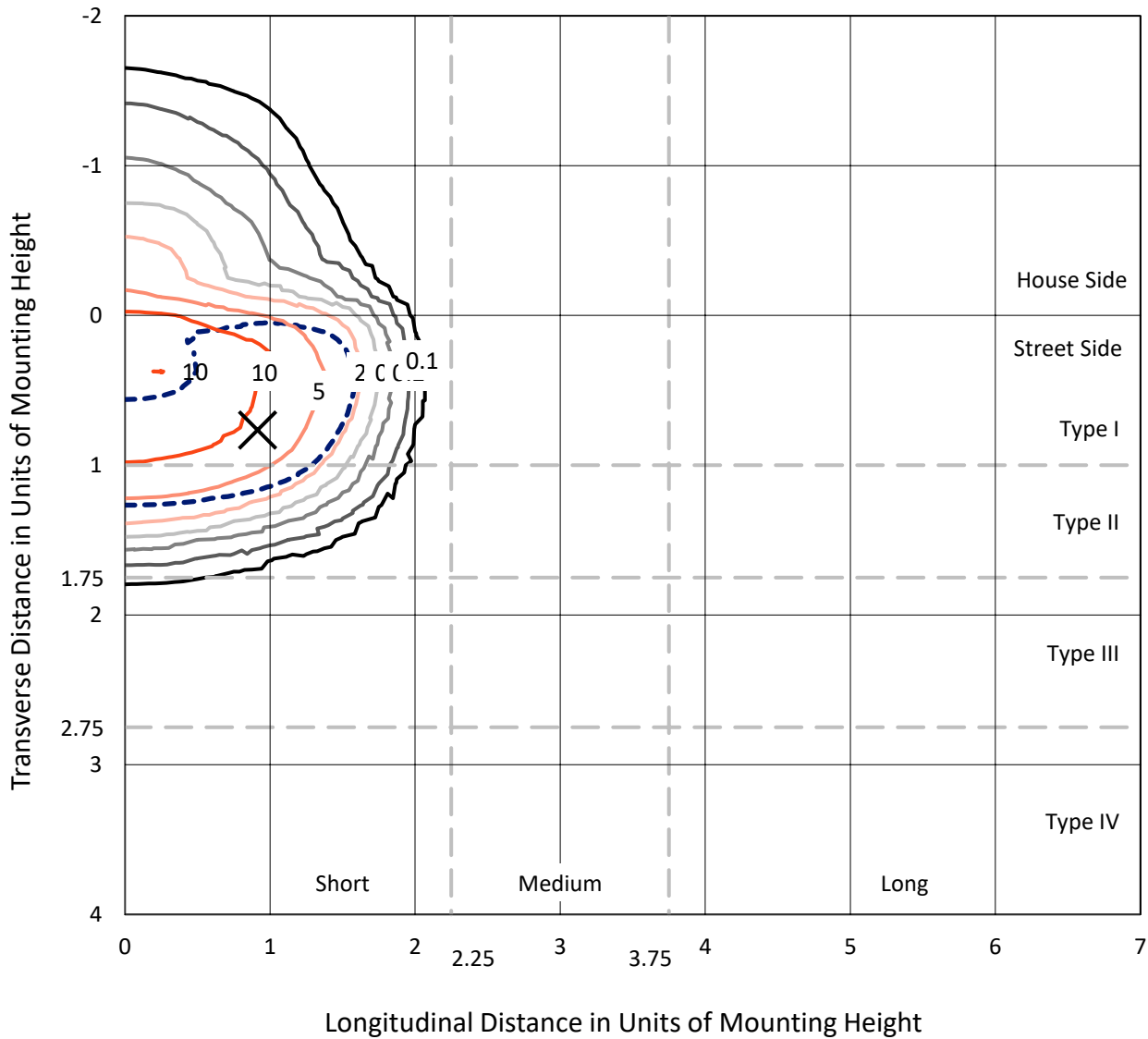
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636482
 CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

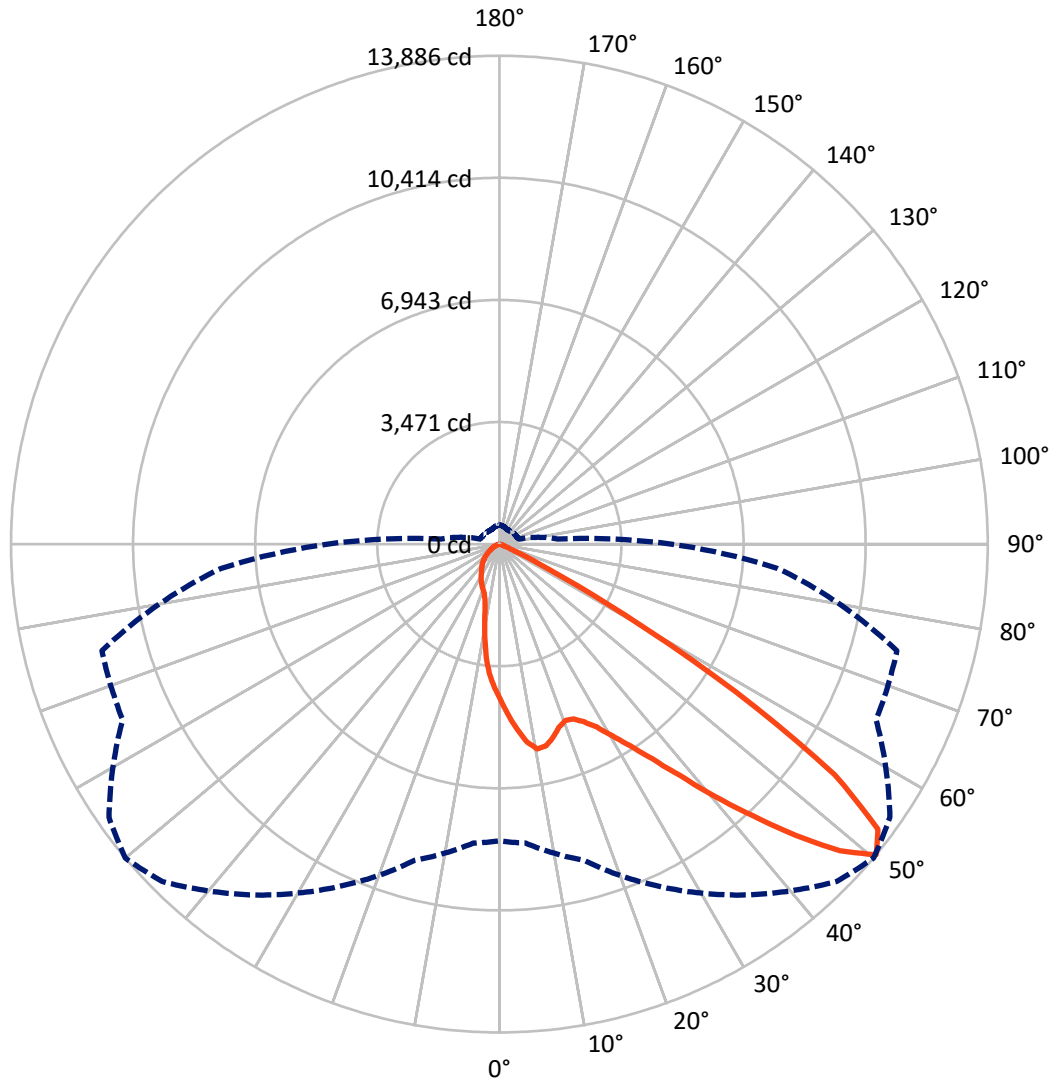
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

REPORT NUMBER: P636482
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636482
 CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.5	0.0	1879.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12749.0	0.0	12749.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	14628.5	0.0	14628.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	2.8
10°-20°	1060.7	7.3
20°-30°	1750.6	12.0
30°-40°	2888.8	19.7
40°-50°	4570.8	31.2
50°-60°	3460.6	23.7
60°-70°	433.1	3.0
70°-80°	49.0	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°	14628.5	100.0
0°-180°	14628.5	100.0

Coefficient of Utilization



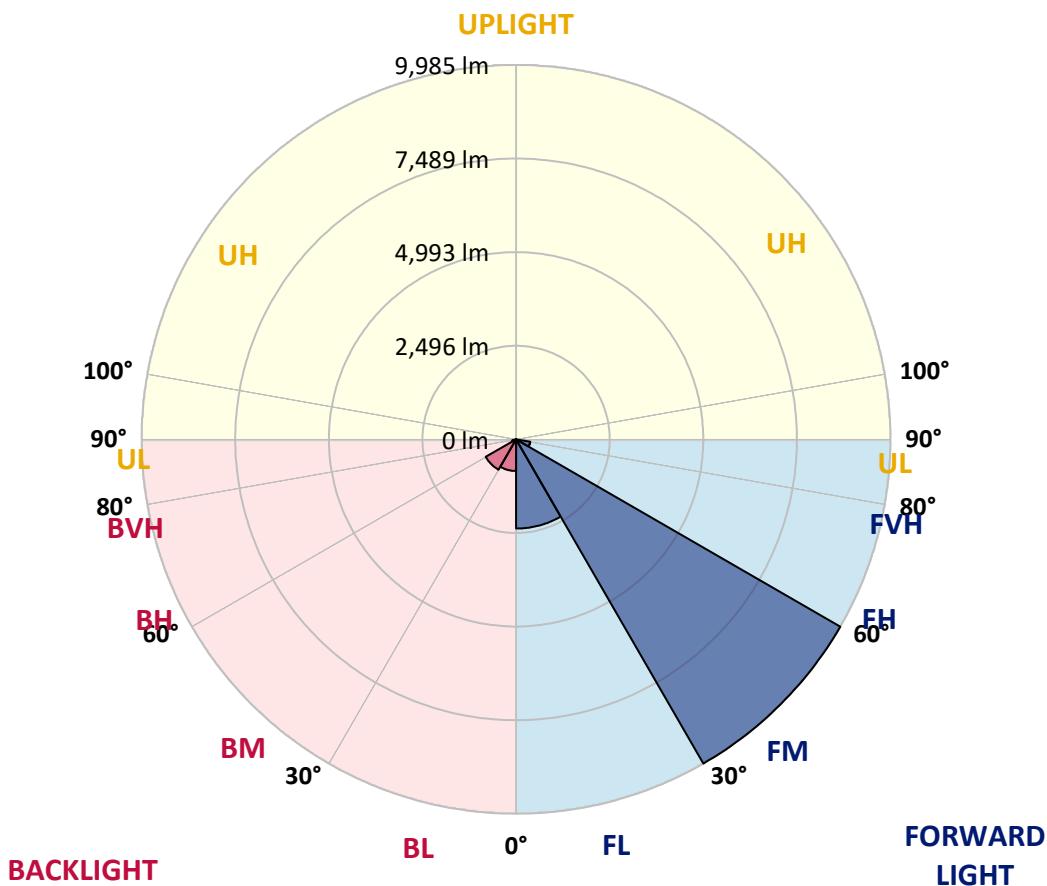
REPORT NUMBER: P636482

CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2378.8	16.3			
FM (30°-60°)	9985.5	68.3			
FH (60°-80°)	382.9	2.6			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	843.6	5.8	B2/1000		
BM (30°-60°)	934.7	6.4	B1/1000		
BH (60°-80°)	99.2	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





REPORT NUMBER: P636482

CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9
2.5°	5050.1	5090.4	5079.3	5026.4	4969.3	4928.9	4866.3	4846.8	4704.8	4605.9	4501.5
5°	5659.9	5672.4	5658.5	5594.5	5494.2	5398.1	5295.1	5235.2	4997.1	4782.7	4564.1
7.5°	5806.1	5790.8	5817.2	5849.3	5835.3	5793.6	5685.0	5619.5	5335.5	4986.0	4654.6
10°	5349.4	5314.6	5413.5	5579.2	5753.2	5949.5	5921.7	5927.2	5665.5	5242.2	4773.0
12.5°	4743.7	4729.8	4803.6	4995.8	5336.9	5782.4	5889.6	6069.3	5967.6	5519.3	4908.0
15°	4477.8	4484.8	4529.3	4650.5	4895.5	5449.7	5707.2	6031.7	6237.7	5788.0	5057.0
17.5°	4518.2	4543.2	4541.8	4582.2	4731.2	5175.4	5476.1	5913.3	6446.6	6097.1	5228.3
20°	4792.5	4817.5	4779.9	4749.3	4799.4	5105.8	5355.0	5793.6	6587.2	6409.0	5409.3
22.5°	5203.2	5232.5	5143.3	5055.6	5023.6	5219.9	5400.9	5744.8	6694.4	6694.4	5570.8
25°	5700.3	5740.7	5602.8	5446.9	5357.8	5460.8	5597.3	5854.8	6804.4	6950.6	5680.8
27.5°	6255.8	6257.2	6138.9	5963.4	5796.4	5808.9	5891.0	6102.7	6925.6	7226.3	5767.1
30°	6881.0	6885.2	6727.8	6517.6	6307.4	6250.3	6319.9	6480.0	7177.6	7573.0	5886.9
32.5°	7688.6	7708.1	7482.5	7173.4	6900.5	6793.3	6833.7	7002.1	7578.6	8007.4	6066.5
35°	8780.2	8801.1	8468.3	8060.3	7625.9	7464.4	7504.8	7674.6	8159.2	8624.2	6353.3
37.5°	9857.8	9885.7	9548.7	9168.6	8572.7	8305.4	8347.1	8508.7	9030.8	9476.3	6812.8
40°	10602.8	10640.3	10535.9	10279.7	9727.0	9376.1	9426.2	9484.7	9990.1	10495.5	7408.7
42.5°	10995.4	11048.3	11092.9	11223.7	10932.7	10639.0	10554.0	10558.2	10966.2	11534.2	8028.3
45°	11019.1	11070.6	11298.9	11804.4	12025.7	11964.5	11809.9	11705.5	11711.1	12226.2	8415.4
47.5°	10253.3	10349.3	10776.8	11766.8	12599.4	13107.6	13029.6	12781.8	12024.3	12272.2	8373.6
50°	8439.0	8533.7	9310.7	10735.0	12181.7	13564.3	13885.9	13553.1	11819.7	11699.9	7943.4
52.5°	6129.1	6138.9	6642.9	8306.8	10488.6	12721.9	13479.4	13447.3	11507.8	11006.5	7355.8
55°	2911.4	2876.6	3443.3	4688.0	7254.1	10289.5	11566.3	11928.3	11065.0	10505.3	6900.5
57.5°	847.9	864.7	1116.7	1829.5	3628.5	6576.1	7921.1	8595.0	9082.3	8636.8	5352.2
60°	380.1	381.5	424.7	556.9	1208.6	3059.0	4094.9	4928.9	5430.2	5032.0	2655.2
62.5°	275.7	277.1	293.8	314.7	410.7	1035.9	1535.8	2046.8	2084.3	1364.5	672.5
65°	229.7	229.7	232.5	232.5	246.4	370.4	466.4	601.5	506.8	375.9	263.2
67.5°	185.2	186.6	189.4	189.4	185.2	185.2	200.5	220.0	235.3	291.0	242.3
70°	144.8	143.4	143.4	144.8	140.6	119.7	129.5	147.6	161.5	227.0	210.2
72.5°	112.8	114.2	112.8	107.2	97.5	71.0	76.6	96.1	103.0	142.0	142.0
75°	84.9	86.3	80.8	61.3	40.4	22.3	29.2	47.3	59.9	69.6	51.5
77.5°	11.1	11.1	8.4	8.4	7.0	8.4	8.4	11.1	16.7	16.7	12.5
80°	1.4	1.4	1.4	2.8	4.2	5.6	5.6	5.6	5.6	7.0	7.0
82.5°	1.4	1.4	1.4	1.4	4.2	4.2	5.6	5.6	5.6	5.6	5.6
85°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	5.6	5.6	5.6	5.6
87.5°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	4.2	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636482
 CATALOG NUMBER: GWS-SA3F-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9	4431.9
2.5°	4438.8	4358.1	4260.6	4193.8	4099.1	4036.4	3947.3	3887.4	3835.9	3795.5	3817.8
5°	4440.2	4312.1	4113.0	3943.1	3758.0	3588.1	3405.7	3262.3	3132.8	3074.3	3106.3
7.5°	4468.1	4284.3	3979.3	3677.2	3322.2	2971.3	2642.7	2375.4	2243.1	2180.4	2199.9
10°	4522.4	4271.7	3830.4	3329.1	2752.7	2273.7	1954.9	1773.9	1700.1	1661.1	1668.0
12.5°	4572.5	4263.4	3636.8	2871.0	2172.1	1764.1	1598.4	1573.4	1588.7	1590.1	1588.7
15°	4640.7	4248.1	3397.3	2400.4	1737.7	1524.6	1528.8	1565.0	1601.2	1612.3	1609.6
17.5°	4713.1	4224.4	3088.2	1949.3	1474.5	1455.0	1503.7	1552.5	1588.7	1594.2	1595.6
20°	4788.3	4175.7	2736.0	1591.5	1352.0	1402.1	1456.4	1492.6	1519.1	1527.4	1530.2
22.5°	4823.1	4072.6	2329.4	1335.3	1269.8	1336.7	1377.0	1424.4	1432.7	1402.1	1407.7
25°	4805.0	3898.6	1932.6	1162.6	1187.7	1254.5	1314.4	1290.7	1255.9	1233.6	1240.6
27.5°	4747.9	3667.5	1544.1	1035.9	1100.0	1184.9	1191.9	1165.4	1159.8	1141.7	1147.3
30°	4686.7	3401.5	1242.0	934.3	1010.8	1100.0	1079.1	1088.8	1090.2	1069.3	1076.3
32.5°	4649.1	3123.0	988.6	866.0	953.8	970.5	1012.2	1031.7	1033.1	984.4	992.7
35°	4661.6	2848.8	836.8	810.3	900.9	896.7	955.2	966.3	885.5	818.7	825.7
37.5°	4763.2	2595.3	750.5	767.2	809.0	841.0	885.5	811.7	793.6	763.0	767.2
40°	4952.6	2379.5	699.0	740.7	746.3	797.8	729.6	739.3	740.7	721.2	725.4
42.5°	5174.0	2199.9	668.3	725.4	711.5	719.8	651.6	671.1	692.0	683.6	685.0
45°	5285.4	2024.5	641.9	672.5	676.7	597.3	582.0	602.9	629.3	633.5	634.9
47.5°	5186.5	1857.4	614.0	595.9	623.8	544.4	526.3	533.3	563.9	580.6	583.4
50°	4884.4	1665.3	572.3	527.7	512.4	488.7	472.0	473.4	508.2	537.4	543.0
52.5°	4459.7	1464.8	504.0	446.9	412.1	430.2	434.4	426.1	458.1	487.3	492.9
55°	4047.6	1214.1	399.6	363.4	331.4	370.4	381.5	370.4	380.1	399.6	401.0
57.5°	2850.1	686.4	306.3	300.7	274.3	317.5	335.6	318.8	302.1	314.7	317.5
60°	1321.3	359.2	235.3	235.3	228.3	272.9	303.5	279.9	247.8	253.4	257.6
62.5°	413.5	227.0	172.7	162.9	186.6	232.5	257.6	233.9	196.3	196.3	201.9
65°	233.9	194.9	136.5	125.3	151.8	186.6	201.9	176.8	143.4	140.6	140.6
67.5°	217.2	185.2	121.1	101.6	107.2	119.7	125.3	108.6	98.9	97.5	98.9
70°	179.6	154.6	97.5	69.6	65.4	64.0	66.8	62.7	59.9	61.3	65.4
72.5°	111.4	93.3	61.3	41.8	36.2	34.8	34.8	34.8	33.4	33.4	33.4
75°	40.4	34.8	27.8	20.9	18.1	16.7	16.7	18.1	16.7	15.3	13.9
77.5°	12.5	11.1	11.1	11.1	9.7	8.4	7.0	7.0	5.6	4.2	4.2
80°	7.0	7.0	7.0	7.0	5.6	5.6	4.2	2.8	1.4	1.4	0.0
82.5°	7.0	7.0	7.0	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	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)