

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: P637978

Luminaire Tested: GWS-SA4D-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11378.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

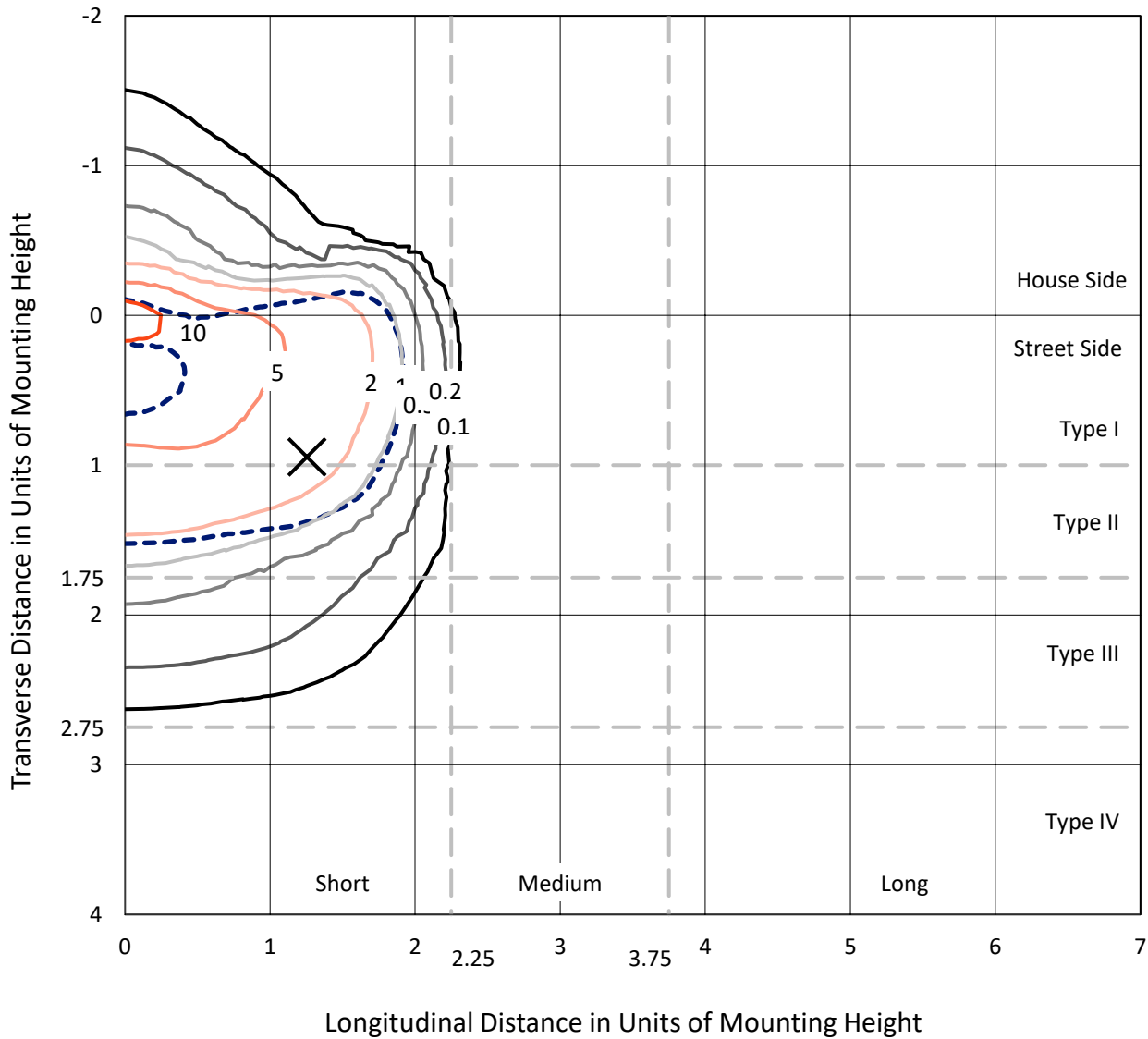
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637978
 CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

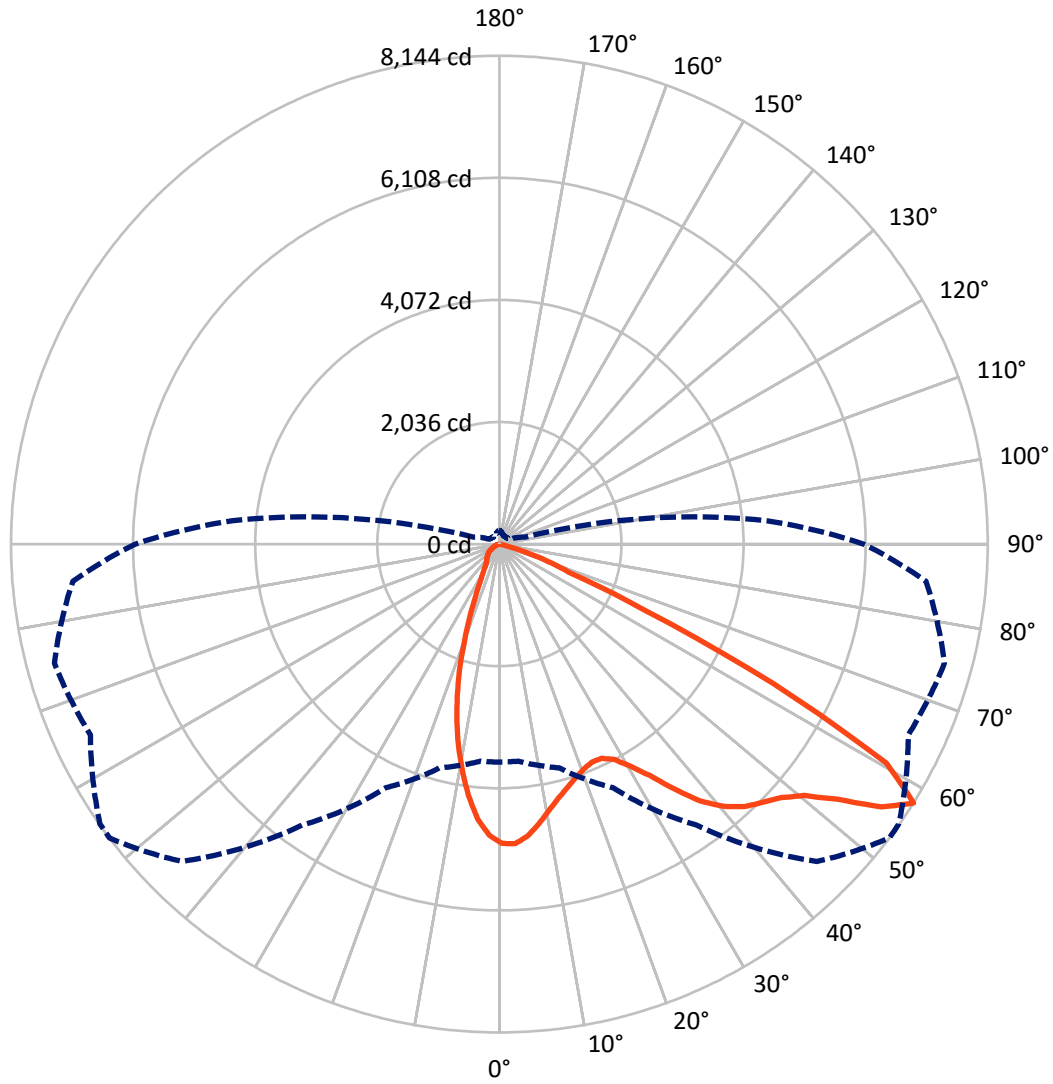
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P637978
CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637978

CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.6	0.0	1879.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9498.8	0.0	9498.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	11378.4	0.0	11378.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	3.8
10°-20°	937.5	8.2
20°-30°	1221.3	10.7
30°-40°	1771.6	15.6
40°-50°	2556.2	22.5
50°-60°	3091.5	27.2
60°-70°	1260.0	11.1
70°-80°	113.2	1.0
80°-90°	0.0	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°	11378.4	100.0
0°-180°	11378.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637978

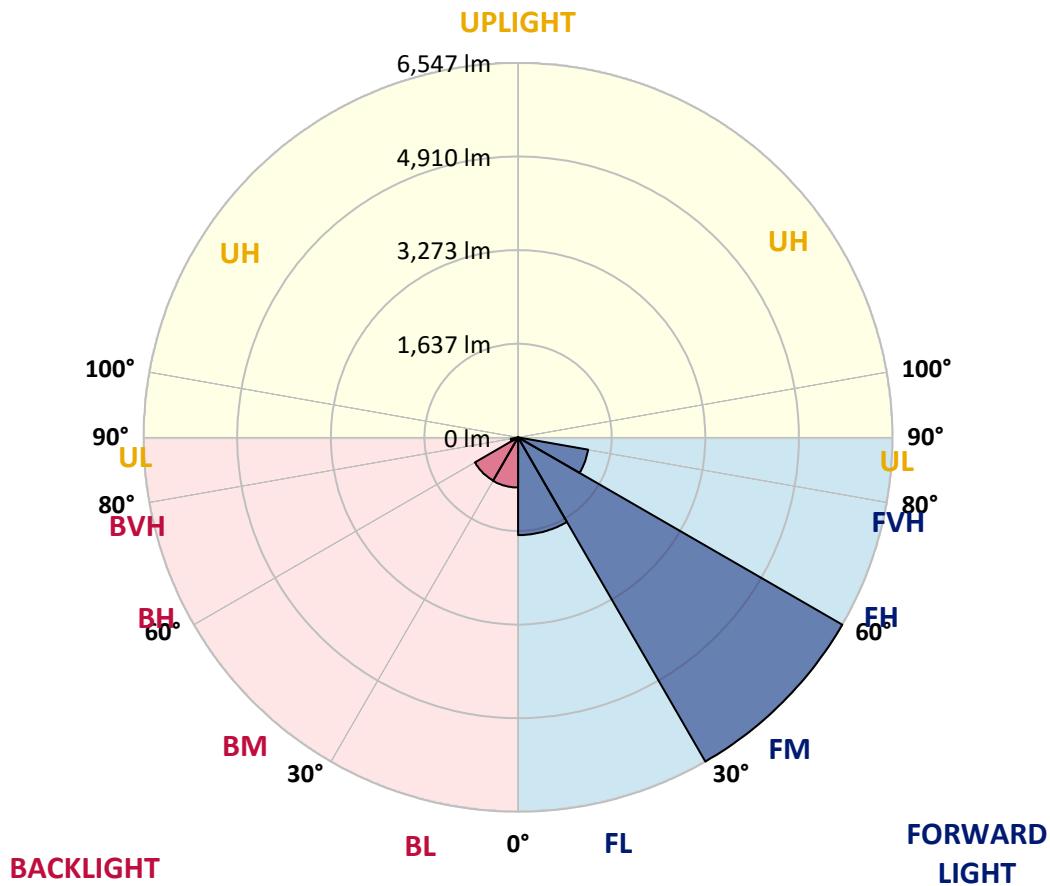
CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.7	15.0			
FM (30°-60°)	6546.9	57.5			
FH (60°-80°)	1243.3	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	877.2	7.7	B2/1000		
BM (30°-60°)	872.4	7.7	B1/1000		
BH (60°-80°)	129.9	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





REPORT NUMBER: P637978

CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2
2.5°	4921.5	4932.6	4952.2	4977.3	4994.0	5002.4	5002.4	5026.1	5010.7	4998.2	4984.2
5°	4710.9	4722.1	4748.6	4789.0	4829.4	4858.7	4892.2	4917.3	4927.1	4927.1	4903.4
7.5°	4413.9	4429.2	4445.9	4501.7	4589.6	4655.1	4712.3	4748.6	4801.6	4818.3	4784.8
10°	4094.5	4109.8	4147.5	4224.2	4324.6	4422.2	4519.8	4565.9	4656.5	4703.9	4666.3
12.5°	3823.9	3830.9	3881.1	3973.2	4101.5	4235.4	4353.9	4401.3	4529.6	4600.7	4556.1
15°	3600.8	3605.0	3655.2	3757.0	3904.8	4069.4	4218.6	4267.4	4425.0	4532.4	4465.5
17.5°	3432.1	3433.5	3476.7	3586.9	3741.7	3924.4	4101.5	4161.4	4365.0	4494.7	4394.3
20°	3347.0	3342.8	3373.5	3469.7	3616.2	3798.8	4008.0	4081.9	4331.6	4489.2	4339.9
22.5°	3348.4	3338.6	3351.2	3419.5	3543.6	3715.2	3949.5	4033.1	4334.4	4512.9	4293.9
25°	3427.9	3413.9	3416.7	3453.0	3540.8	3697.0	3957.8	4047.1	4390.1	4592.4	4277.2
27.5°	3561.8	3546.4	3546.4	3564.6	3612.0	3754.2	4062.4	4164.2	4539.4	4747.2	4312.1
30°	3734.7	3719.4	3713.8	3731.9	3771.0	3902.0	4295.3	4401.3	4794.6	5001.0	4423.6
32.5°	3932.7	3914.6	3924.4	3949.5	3987.1	4168.4	4595.2	4736.0	5113.9	5342.6	4624.4
35°	4141.9	4126.6	4171.2	4225.6	4284.2	4538.0	5009.3	5132.1	5505.8	5768.0	4931.2
37.5°	4341.3	4334.4	4427.8	4542.2	4663.5	4981.5	5430.5	5525.3	5841.9	6231.0	5306.4
40°	4540.8	4539.4	4699.7	4900.6	5094.4	5423.5	5749.9	5828.0	6046.9	6590.8	5666.2
42.5°	4763.9	4763.9	4985.6	5253.4	5511.4	5797.3	5984.2	6019.0	6139.0	6798.6	5936.7
45°	4977.3	4989.8	5246.4	5557.4	5862.8	6088.8	6145.9	6148.7	6176.6	6921.3	6161.3
47.5°	5146.0	5157.2	5464.0	5822.4	6151.5	6310.5	6318.9	6306.3	6275.6	7038.5	6334.2
50°	5282.7	5299.4	5620.2	5999.5	6349.5	6523.9	6588.0	6575.5	6497.4	7164.0	6455.5
52.5°	5349.6	5373.3	5674.6	6087.4	6569.9	6889.2	7067.7	7097.0	6829.3	7233.7	6571.3
55°	4814.1	4849.0	5126.5	5691.3	6692.6	7454.0	7734.4	7728.8	7189.1	7441.5	6853.0
57.5°	3635.7	3632.9	3863.0	4480.8	5716.4	7486.1	8144.4	8133.2	7525.2	7682.8	7141.7
60°	2475.4	2458.7	2520.0	2818.5	3996.9	6098.5	7412.2	7562.8	7286.7	7097.0	6063.6
62.5°	2037.5	2022.1	2002.6	1920.3	2295.5	3798.8	5120.9	5349.6	5313.4	4932.6	3803.0
65°	1667.9	1680.5	1734.9	1700.0	1596.8	1948.2	2658.1	2793.4	2553.5	2149.1	1329.0
67.5°	1230.0	1235.6	1306.7	1490.8	1435.0	1297.0	1250.9	1273.3	746.1	343.1	221.7
70°	726.6	730.8	796.3	1043.1	1164.5	995.7	845.1	832.6	295.7	92.0	100.4
72.5°	411.4	403.0	415.6	496.5	634.5	528.5	435.1	396.1	89.3	51.6	51.6
75°	195.2	189.7	163.2	153.4	139.5	89.3	55.8	47.4	22.3	20.9	20.9
77.5°	1.4	4.2	2.8	4.2	4.2	2.8	1.4	1.4	4.2	4.2	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P637978
 CATALOG NUMBER: GWS-SA4D-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2	4991.2
2.5°	4959.1	4917.3	4907.5	4904.8	4865.7	4823.9	4780.6	4763.9	4738.8	4723.5	4736.0
5°	4865.7	4805.7	4752.7	4703.9	4617.5	4522.6	4440.4	4387.4	4337.2	4303.7	4312.1
7.5°	4733.2	4655.1	4533.8	4409.7	4250.7	4108.4	3949.5	3851.8	3761.2	3711.0	3734.7
10°	4592.4	4489.2	4295.3	4084.7	3835.1	3612.0	3384.7	3199.2	3091.8	2990.0	3001.1
12.5°	4454.3	4317.6	4027.6	3708.2	3393.0	3063.9	2720.8	2464.2	2288.5	2161.6	2142.1
15°	4326.0	4150.3	3766.8	3345.6	2916.1	2478.2	2040.3	1673.5	1469.9	1344.4	1336.0
17.5°	4211.6	3994.1	3496.2	2966.3	2428.0	1867.3	1363.9	1089.2	972.0	917.6	912.1
20°	4101.5	3836.5	3220.1	2581.4	1895.2	1310.9	941.3	814.4	776.8	754.5	757.3
22.5°	3995.5	3665.0	2930.0	2154.6	1421.1	920.4	729.4	680.6	676.4	679.2	680.6
25°	3906.2	3507.4	2631.6	1743.2	1013.9	701.5	609.4	595.5	608.0	626.2	629.0
27.5°	3860.2	3379.1	2340.1	1329.0	733.6	570.4	528.5	534.1	556.4	576.0	578.8
30°	3872.8	3282.8	2038.9	963.7	564.8	481.1	467.2	478.3	500.7	518.8	521.6
32.5°	3962.0	3234.0	1730.7	701.5	464.4	419.8	414.2	422.6	442.1	456.0	457.4
35°	4139.1	3245.2	1437.8	536.9	398.9	373.7	372.4	377.9	387.7	397.5	398.9
37.5°	4399.9	3335.8	1149.1	446.3	361.2	343.1	337.5	337.5	344.5	348.6	351.4
40°	4680.2	3472.5	920.4	394.7	334.7	315.2	304.0	299.8	305.4	311.0	312.4
42.5°	4911.7	3609.2	747.5	358.4	313.8	287.3	273.3	270.5	277.5	287.3	290.1
45°	5088.8	3715.2	623.4	329.1	290.1	260.8	245.4	245.4	258.0	274.7	277.5
47.5°	5250.6	3800.2	531.3	302.6	267.8	237.1	221.7	224.5	245.4	267.8	271.9
50°	5360.8	3868.6	463.0	278.9	249.6	217.6	203.6	209.2	234.3	260.8	265.0
52.5°	5479.3	3952.3	418.4	258.0	232.9	202.2	189.7	193.8	221.7	251.0	256.6
55°	5807.0	4232.6	417.0	230.1	203.6	181.3	175.7	177.1	205.0	238.5	245.4
57.5°	6074.8	4479.4	444.9	193.8	170.1	159.0	156.2	157.6	182.7	220.3	228.7
60°	5026.1	3480.9	368.2	160.4	142.2	139.5	135.3	138.1	161.8	195.2	202.2
62.5°	2974.6	1990.1	175.7	122.7	121.3	118.5	114.4	119.9	142.2	171.5	175.7
65°	1016.7	589.9	111.6	100.4	103.2	99.0	94.8	100.4	119.9	136.7	138.1
67.5°	195.2	156.2	89.3	83.7	85.1	76.7	75.3	80.9	92.0	94.8	93.4
70°	101.8	90.6	68.3	68.3	65.5	54.4	54.4	60.0	60.0	55.8	54.4
72.5°	53.0	50.2	44.6	50.2	41.8	33.5	33.5	36.3	33.5	27.9	27.9
75°	20.9	20.9	19.5	25.1	18.1	15.3	13.9	16.7	12.6	9.8	9.8
77.5°	5.6	5.6	5.6	7.0	4.2	4.2	2.8	2.8	1.4	0.0	0.0
80°	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)