

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: P637813

Luminaire Tested: GWS-SA4D-750-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637813
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14651.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

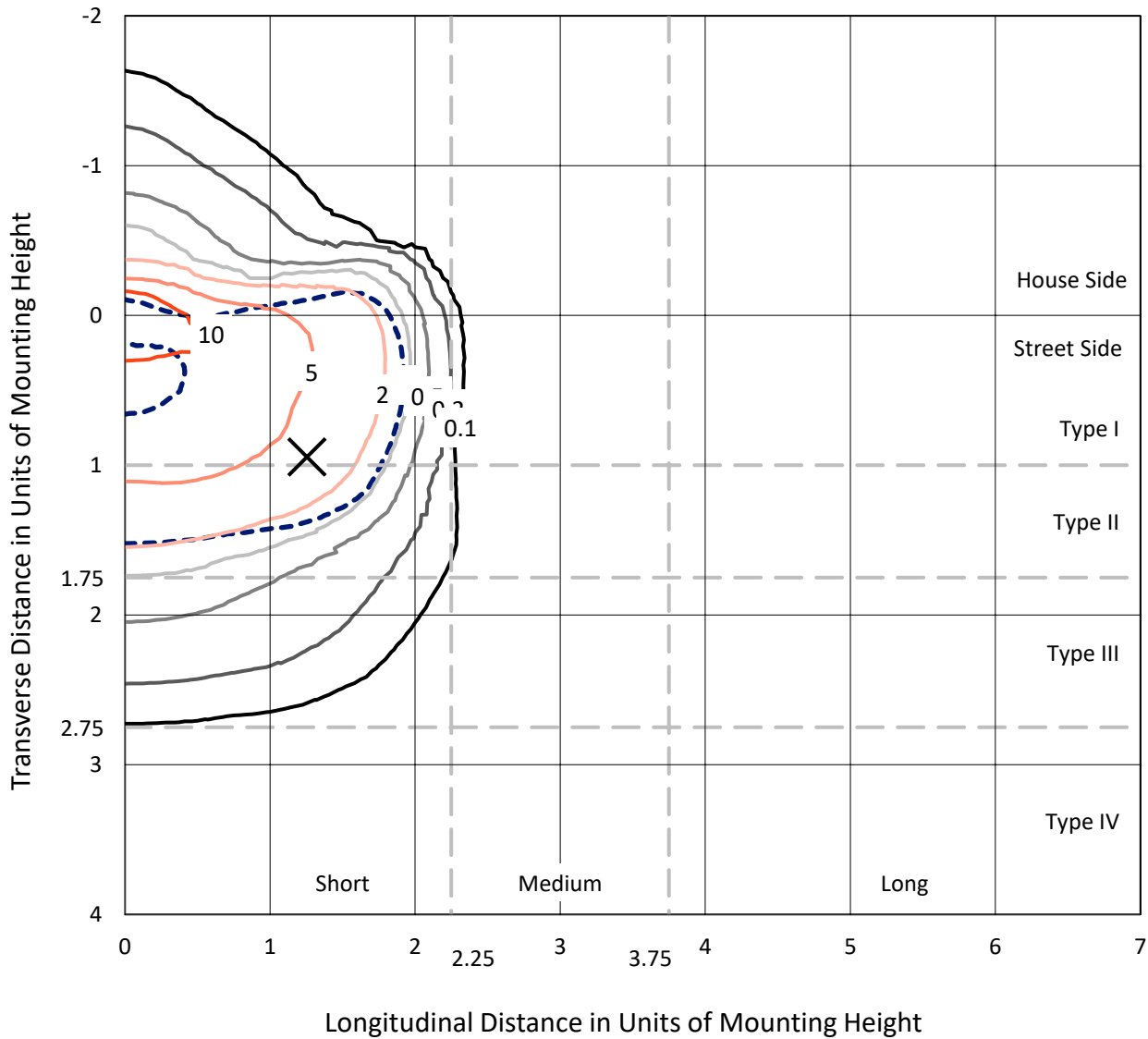
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

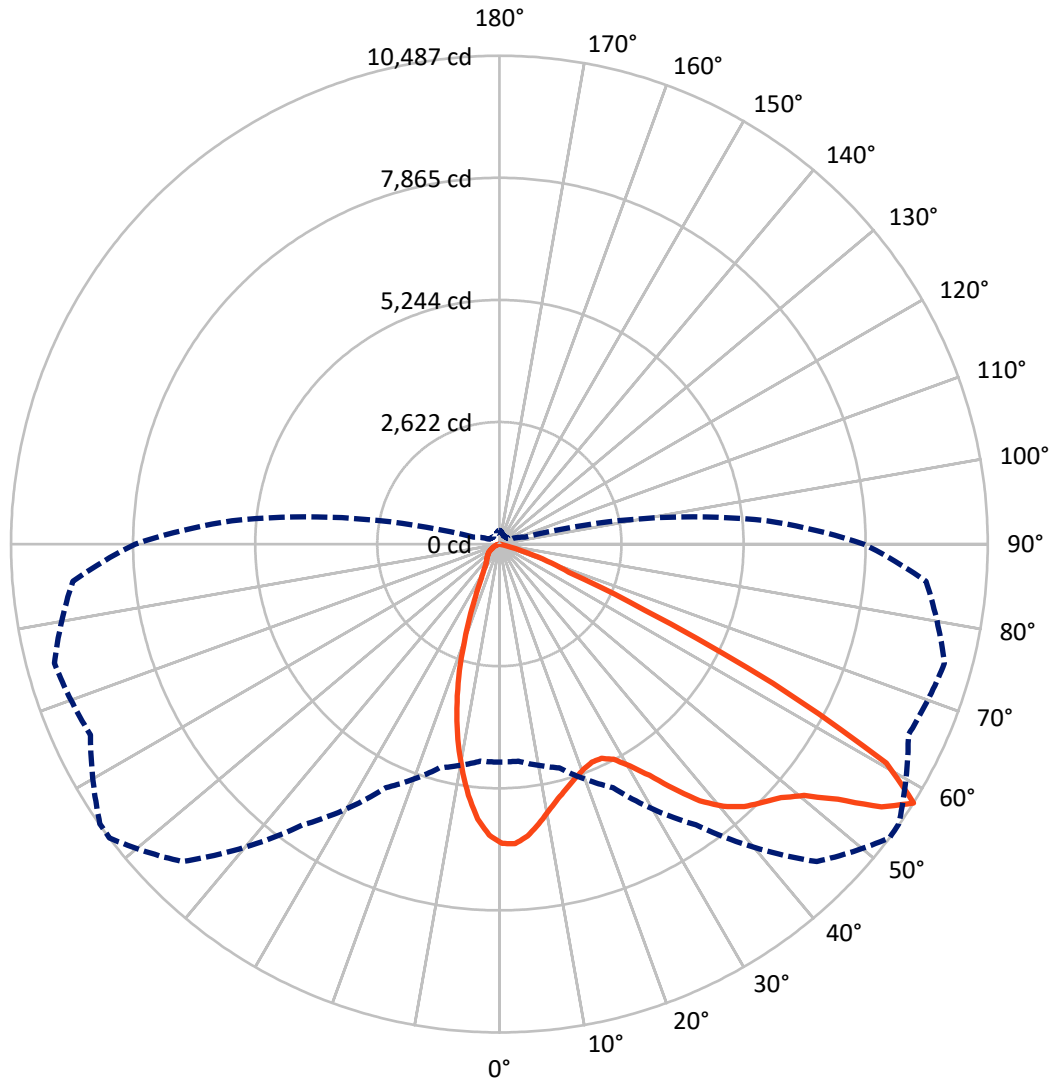
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.3	0.0	2420.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12231.4	0.0	12231.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	14651.7	0.0	14651.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.9	3.8
10°-20°	1207.2	8.2
20°-30°	1572.7	10.7
30°-40°	2281.2	15.6
40°-50°	3291.6	22.5
50°-60°	3980.9	27.2
60°-70°	1622.5	11.1
70°-80°	145.8	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°	14651.7	100.0
0°-180°	14651.7	100.0

Coefficient of Utilization



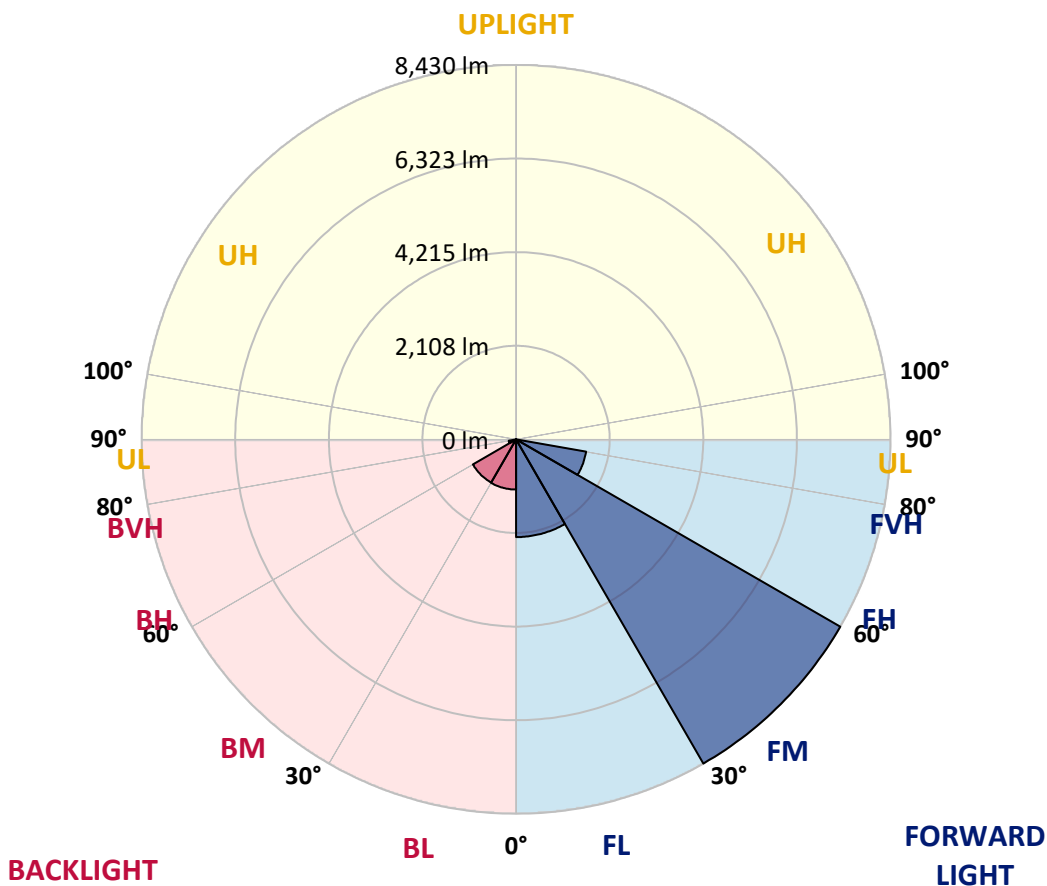
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.2	15.0			
FM (30°-60°)	8430.3	57.5			
FH (60°-80°)	1600.9	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1129.6	7.7	B3/2500		
BM (30°-60°)	1123.4	7.7	B2/2500		
BH (60°-80°)	167.3	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: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1
2.5°	6337.3	6351.6	6376.8	6409.1	6430.7	6441.4	6441.4	6472.0	6452.2	6436.0	6418.1
5°	6066.1	6080.5	6114.6	6166.7	6218.8	6256.5	6299.6	6331.9	6344.5	6344.5	6313.9
7.5°	5683.6	5703.4	5724.9	5796.8	5909.9	5994.3	6067.9	6114.6	6182.8	6204.4	6161.3
10°	5272.4	5292.1	5340.6	5439.4	5568.7	5694.4	5820.1	5879.4	5996.1	6057.1	6008.7
12.5°	4924.0	4933.0	4997.6	5116.2	5281.4	5453.8	5606.4	5667.5	5832.7	5924.3	5866.8
15°	4636.7	4642.1	4706.7	4837.8	5028.2	5240.1	5432.2	5495.1	5698.0	5836.3	5750.1
17.5°	4419.4	4421.2	4476.9	4618.7	4818.1	5053.3	5281.4	5358.6	5620.8	5787.8	5658.5
20°	4309.9	4304.5	4344.0	4467.9	4656.4	4891.7	5161.1	5256.2	5577.7	5780.6	5588.4
22.5°	4311.7	4299.1	4315.2	4403.2	4563.1	4783.9	5085.6	5193.4	5581.3	5811.1	5529.2
25°	4414.0	4396.1	4399.6	4446.3	4559.5	4760.6	5096.4	5211.3	5653.1	5913.5	5507.6
27.5°	4586.4	4566.7	4566.7	4590.0	4651.1	4834.2	5231.1	5362.2	5845.2	6112.8	5552.5
30°	4809.1	4789.3	4782.1	4805.5	4855.8	5024.6	5531.0	5667.5	6173.9	6439.6	5696.2
32.5°	5064.1	5040.7	5053.3	5085.6	5134.1	5367.6	5917.1	6098.4	6585.1	6879.6	5954.8
35°	5333.4	5313.7	5371.2	5441.2	5516.6	5843.4	6450.4	6608.4	7089.7	7427.3	6349.9
37.5°	5590.2	5581.3	5701.6	5848.8	6005.1	6414.5	6992.7	7114.9	7522.5	8023.5	6832.9
40°	5847.0	5845.2	6051.8	6310.3	6560.0	6983.8	7404.0	7504.5	7786.5	8486.8	7296.2
42.5°	6134.4	6134.4	6419.9	6764.7	7096.9	7465.0	7705.7	7750.6	7905.0	8754.4	7644.6
45°	6409.1	6425.3	6755.7	7156.2	7549.4	7840.3	7914.0	7917.6	7953.5	8912.4	7933.7
47.5°	6626.4	6640.8	7035.8	7497.4	7921.2	8125.9	8136.6	8120.5	8081.0	9063.3	8156.4
50°	6802.4	6823.9	7237.0	7725.4	8176.2	8400.6	8483.2	8467.1	8366.5	9224.9	8312.6
52.5°	6888.6	6919.1	7307.0	7838.5	8459.9	8871.1	9101.0	9138.7	8793.9	9314.7	8461.7
55°	6199.0	6243.9	6601.3	7328.5	8617.9	9598.4	9959.4	9952.2	9257.2	9582.2	8824.4
57.5°	4681.6	4678.0	4974.3	5769.8	7360.9	9639.7	10487.3	10472.9	9690.0	9892.9	9196.2
60°	3187.5	3165.9	3245.0	3629.3	5146.7	7852.9	9544.5	9738.5	9382.9	9138.7	7808.0
62.5°	2623.6	2603.9	2578.7	2472.8	2955.8	4891.7	6594.1	6888.6	6841.9	6351.6	4897.1
65°	2147.7	2163.9	2233.9	2189.0	2056.2	2508.7	3422.7	3596.9	3288.1	2767.3	1711.4
67.5°	1583.9	1591.1	1682.6	1919.7	1847.9	1670.1	1610.8	1639.5	960.7	441.8	285.5
70°	935.6	941.0	1025.4	1343.2	1499.5	1282.2	1088.2	1072.1	380.7	118.5	129.3
72.5°	529.8	519.0	535.1	639.3	817.1	680.6	560.3	510.0	114.9	66.4	66.4
75°	251.4	244.2	210.1	197.5	179.6	114.9	71.8	61.1	28.7	26.9	26.9
77.5°	1.8	5.4	3.6	5.4	5.4	3.6	1.8	1.8	5.4	5.4	7.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1	6427.1
2.5°	6385.8	6331.9	6319.3	6315.7	6265.5	6211.6	6155.9	6134.4	6102.0	6082.3	6098.4
5°	6265.5	6188.2	6120.0	6057.1	5945.8	5823.7	5717.7	5649.5	5584.9	5541.8	5552.5
7.5°	6094.9	5994.3	5838.1	5678.2	5473.5	5290.3	5085.6	4959.9	4843.2	4778.6	4809.1
10°	5913.5	5780.6	5531.0	5259.8	4938.4	4651.1	4358.3	4119.5	3981.2	3850.1	3864.5
12.5°	5735.7	5559.7	5186.2	4775.0	4369.1	3945.3	3503.6	3173.1	2946.9	2783.4	2758.3
15°	5570.5	5344.2	4850.4	4308.1	3755.0	3191.1	2627.2	2154.9	1892.7	1731.1	1720.4
17.5°	5423.2	5143.1	4502.0	3819.6	3126.4	2404.5	1756.3	1402.5	1251.7	1181.6	1174.4
20°	5281.4	4940.2	4146.4	3324.0	2440.5	1688.0	1212.1	1048.7	1000.2	971.5	975.1
22.5°	5144.9	4719.3	3772.9	2774.5	1829.9	1185.2	939.2	876.3	870.9	874.5	876.3
25°	5030.0	4516.4	3388.6	2244.7	1305.5	903.3	784.8	766.8	783.0	806.3	809.9
27.5°	4970.7	4351.2	3013.3	1711.4	944.6	734.5	680.6	687.8	716.5	741.7	745.2
30°	4986.9	4227.2	2625.4	1240.9	727.3	619.5	601.6	616.0	644.7	668.0	671.6
32.5°	5101.8	4164.4	2228.6	903.3	598.0	540.5	533.3	544.1	569.3	587.2	589.0
35°	5329.9	4178.8	1851.4	691.4	513.6	481.3	479.5	486.7	499.2	511.8	513.6
37.5°	5665.7	4295.5	1479.7	574.6	465.1	441.8	434.6	434.6	443.6	448.9	452.5
40°	6026.6	4471.5	1185.2	508.2	431.0	405.8	391.5	386.1	393.3	400.5	402.3
42.5°	6324.7	4647.5	962.5	461.5	404.0	369.9	352.0	348.4	357.4	369.9	373.5
45°	6552.8	4783.9	802.7	423.8	373.5	335.8	316.1	316.1	332.2	353.8	357.4
47.5°	6761.1	4893.5	684.2	389.7	344.8	305.3	285.5	289.1	316.1	344.8	350.2
50°	6903.0	4981.5	596.2	359.2	321.4	280.1	262.2	269.4	301.7	335.8	341.2
52.5°	7055.6	5089.2	538.7	332.2	299.9	260.4	244.2	249.6	285.5	323.2	330.4
55°	7477.6	5450.2	536.9	296.3	262.2	233.5	226.3	228.1	264.0	307.1	316.1
57.5°	7822.4	5768.0	572.9	249.6	219.1	204.7	201.1	202.9	235.2	283.7	294.5
60°	6472.0	4482.2	474.1	206.5	183.2	179.6	174.2	177.8	208.3	251.4	260.4
62.5°	3830.4	2562.6	226.3	158.0	156.2	152.6	147.3	154.4	183.2	220.9	226.3
65°	1309.1	759.6	143.7	129.3	132.9	127.5	122.1	129.3	154.4	176.0	177.8
67.5°	251.4	201.1	114.9	107.7	109.5	98.8	97.0	104.2	118.5	122.1	120.3
70°	131.1	116.7	88.0	88.0	84.4	70.0	70.0	77.2	77.2	71.8	70.0
72.5°	68.2	64.6	57.5	64.6	53.9	43.1	43.1	46.7	43.1	35.9	35.9
75°	26.9	26.9	25.1	32.3	23.3	19.8	18.0	21.5	16.2	12.6	12.6
77.5°	7.2	7.2	7.2	9.0	5.4	5.4	3.6	3.6	1.8	0.0	0.0
80°	0.0	1.8	0.0	1.8	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)