

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: P638473

Luminaire Tested: GWS-SA4E-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638473  
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-SA4E-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**

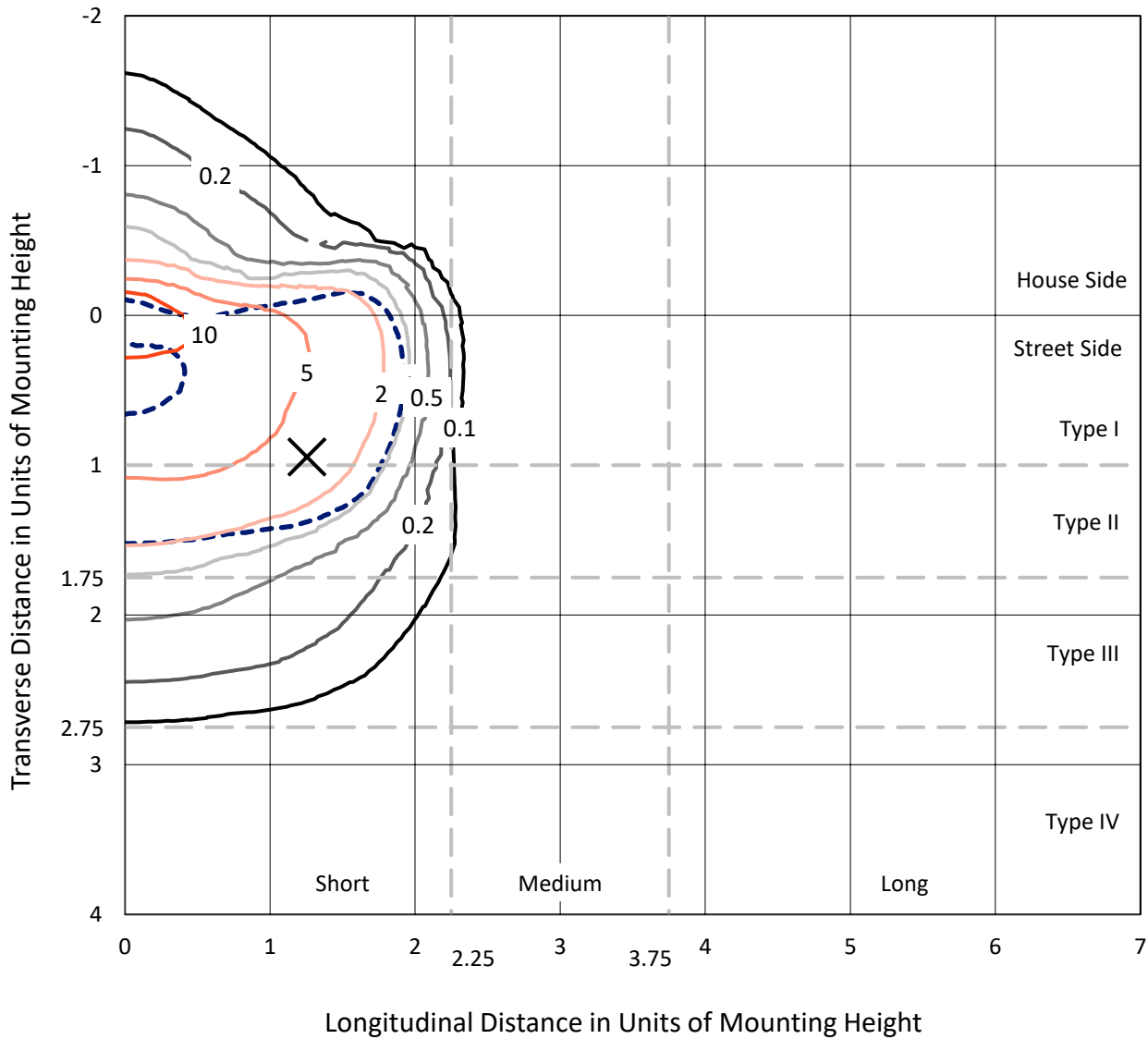
Lumens per Lamp: N/A  
Luminaire Lumens: 14219 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

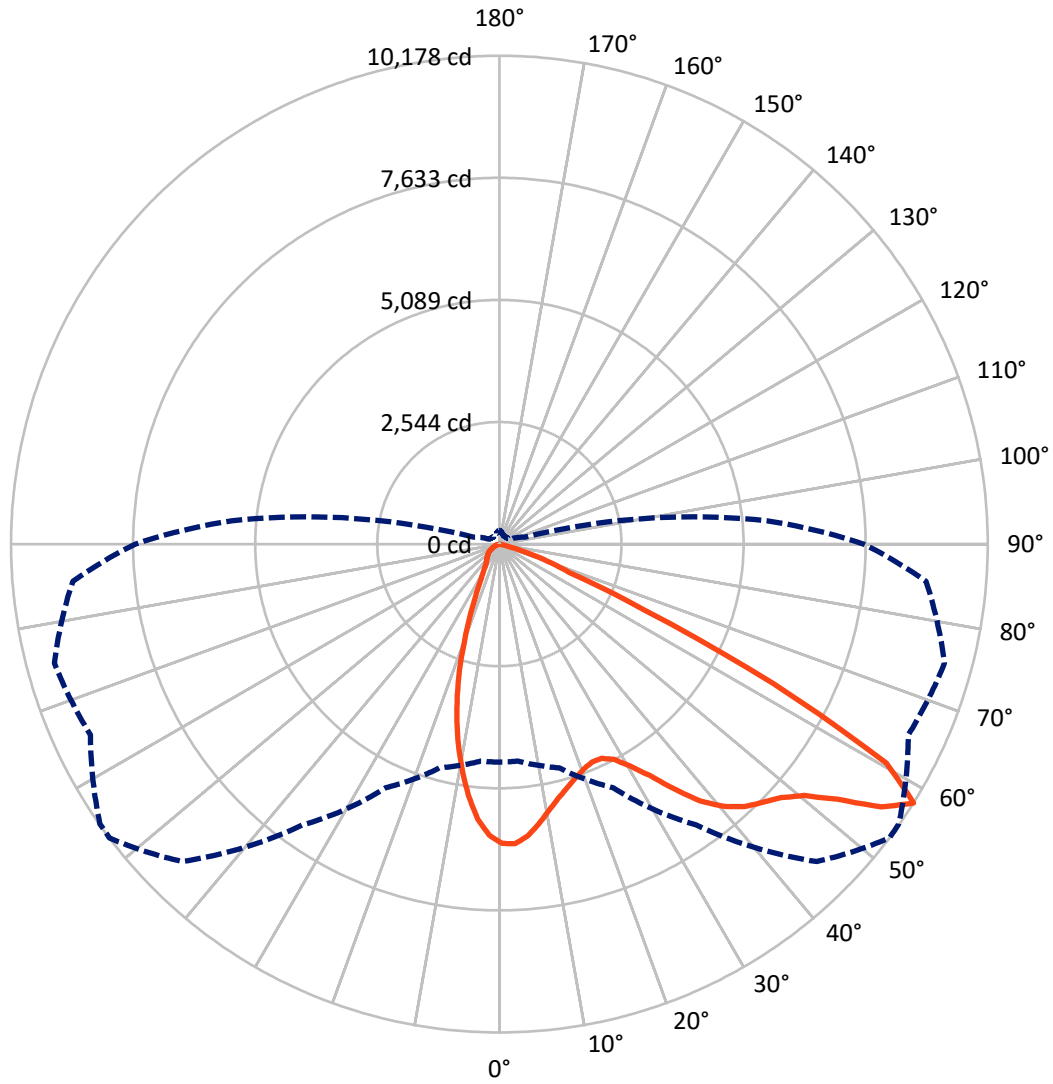
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.6 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
<b>House Side</b>	Lumens	2348.8	0.0	2348.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11870.2	0.0	11870.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14219.0	0.0	14219.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.6	3.8
10°-20°	1171.6	8.2
20°-30°	1526.2	10.7
30°-40°	2213.8	15.6
40°-50°	3194.4	22.5
50°-60°	3863.3	27.2
60°-70°	1574.5	11.1
70°-80°	141.5	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°	14219.0	100.0
0°-180°	14219.0	100.0

**Coefficient of Utilization**



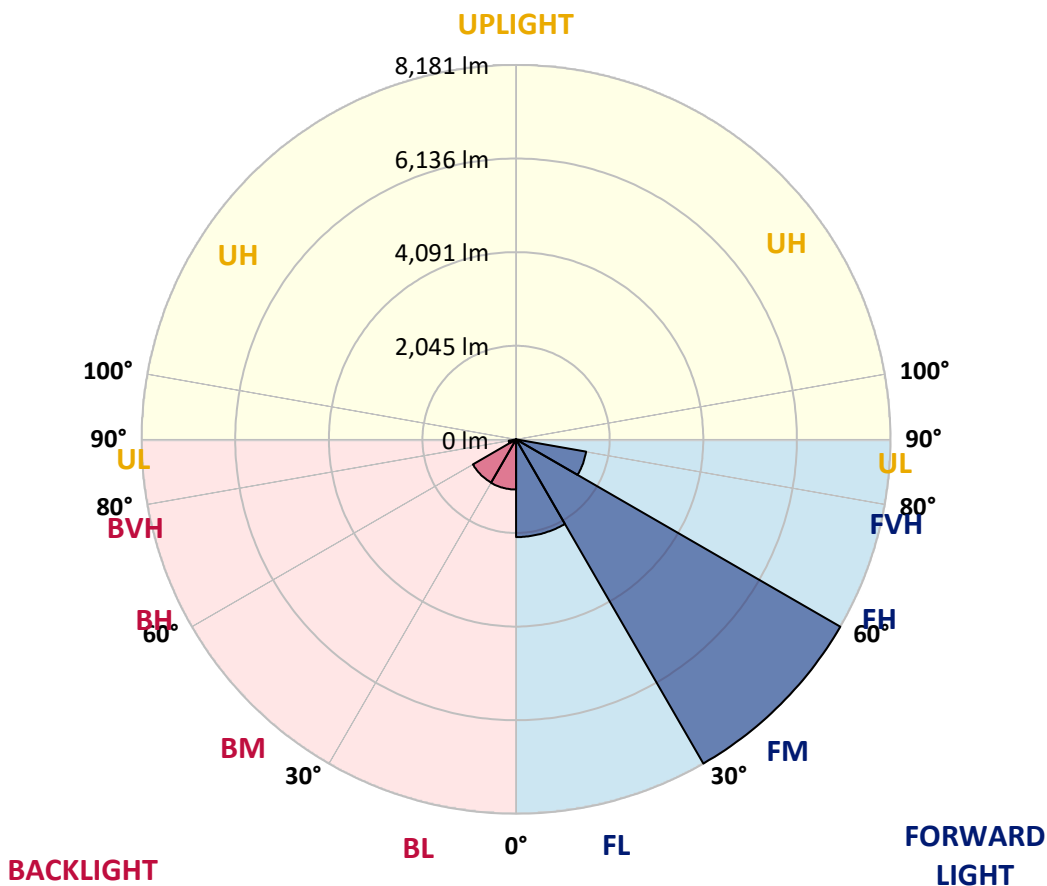
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.2	15.0			
FM (30°-60°)	8181.3	57.5			
FH (60°-80°)	1553.7	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1096.2	7.7	B3/2500		
BM (30°-60°)	1090.2	7.7	B2/2500		
BH (60°-80°)	162.4	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°	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3
2.5°	6150.1	6164.1	6188.5	6219.8	6240.7	6251.2	6251.2	6280.8	6261.7	6246.0	6228.6
5°	5887.0	5900.9	5934.0	5984.6	6035.1	6071.7	6113.5	6144.9	6157.1	6157.1	6127.5
7.5°	5515.8	5534.9	5555.9	5625.6	5735.4	5817.3	5888.7	5934.0	6000.3	6021.2	5979.3
10°	5116.7	5135.9	5182.9	5278.8	5404.2	5526.2	5648.2	5705.7	5819.0	5878.3	5831.2
12.5°	4778.6	4787.3	4850.0	4965.1	5125.4	5292.7	5440.8	5500.1	5660.4	5749.3	5693.5
15°	4499.8	4505.0	4567.7	4694.9	4879.7	5085.3	5271.8	5332.8	5529.7	5663.9	5580.3
17.5°	4288.9	4290.6	4344.6	4482.3	4675.8	4904.1	5125.4	5200.3	5454.8	5616.8	5491.4
20°	4182.6	4177.3	4215.7	4335.9	4518.9	4747.2	5008.6	5101.0	5412.9	5609.9	5423.4
22.5°	4184.3	4172.1	4187.8	4273.2	4428.3	4642.7	4935.4	5040.0	5416.4	5639.5	5365.9
25°	4283.7	4266.2	4269.7	4315.0	4424.8	4620.0	4945.9	5057.4	5486.1	5738.8	5345.0
27.5°	4451.0	4431.8	4431.8	4454.4	4513.7	4691.5	5076.6	5203.8	5672.6	5932.3	5388.5
30°	4667.1	4647.9	4640.9	4663.6	4712.4	4876.2	5367.6	5500.1	5991.5	6249.5	5528.0
32.5°	4914.5	4891.9	4904.1	4935.4	4982.5	5209.0	5742.3	5918.3	6390.6	6676.4	5778.9
35°	5175.9	5156.8	5212.5	5280.5	5353.7	5670.9	6259.9	6413.3	6880.3	7208.0	6162.3
37.5°	5425.1	5416.4	5533.2	5676.1	5827.7	6225.1	6786.2	6904.7	7300.3	7786.6	6631.1
40°	5674.4	5672.6	5873.0	6124.0	6366.2	6777.5	7185.3	7282.9	7556.5	8236.2	7080.7
42.5°	5953.2	5953.2	6230.3	6564.9	6887.3	7244.6	7478.1	7521.7	7671.5	8495.9	7418.8
45°	6219.8	6235.5	6556.2	6944.8	7326.5	7608.8	7680.3	7683.7	7718.6	8649.2	7699.4
47.5°	6430.7	6444.6	6828.1	7275.9	7687.2	7885.9	7896.4	7880.7	7842.3	8795.6	7915.5
50°	6601.5	6622.4	7023.2	7497.3	7934.7	8152.5	8232.7	8217.0	8119.4	8952.5	8067.1
52.5°	6685.1	6714.8	7091.2	7607.1	8210.0	8609.1	8832.2	8868.8	8534.2	9039.6	8211.8
55°	6015.9	6059.5	6406.3	7112.1	8363.4	9314.9	9665.2	9658.3	8983.8	9299.3	8563.8
57.5°	4543.3	4539.8	4827.4	5599.4	7143.5	9355.0	10177.6	10163.7	9403.8	9600.8	8924.6
60°	3093.4	3072.4	3149.1	3522.1	4994.7	7621.0	9262.7	9450.9	9105.8	8868.8	7577.4
62.5°	2546.1	2527.0	2502.6	2399.8	2868.5	4747.2	6399.3	6685.1	6639.8	6164.1	4752.5
65°	2084.3	2100.0	2168.0	2124.4	1995.4	2434.6	3321.7	3490.7	3191.0	2685.6	1660.8
67.5°	1537.1	1544.1	1632.9	1863.0	1793.3	1620.7	1563.2	1591.1	932.4	428.7	277.1
70°	908.0	913.2	995.1	1303.6	1455.2	1244.3	1056.1	1040.4	369.5	115.0	125.5
72.5°	514.1	503.7	519.3	620.4	792.9	660.5	543.7	494.9	111.5	64.5	64.5
75°	244.0	237.0	203.9	191.7	174.3	111.5	69.7	59.3	27.9	26.1	26.1
77.5°	1.7	5.2	3.5	5.2	5.2	3.5	1.7	1.7	5.2	5.2	7.0
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°	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3	6237.3
2.5°	6197.2	6144.9	6132.7	6129.2	6080.4	6028.1	5974.1	5953.2	5921.8	5902.7	5918.3
5°	6080.4	6005.5	5939.3	5878.3	5770.2	5651.7	5548.9	5482.7	5419.9	5378.1	5388.5
7.5°	5914.9	5817.3	5665.6	5510.5	5311.9	5134.1	4935.4	4813.4	4700.2	4637.4	4667.1
10°	5738.8	5609.9	5367.6	5104.5	4792.5	4513.7	4229.6	3997.8	3863.7	3736.4	3750.4
12.5°	5566.3	5395.5	5033.0	4633.9	4240.1	3828.8	3400.1	3079.4	2859.8	2701.2	2676.8
15°	5406.0	5186.4	4707.1	4180.8	3644.1	3096.8	2549.6	2091.3	1836.8	1680.0	1669.5
17.5°	5263.1	4991.2	4369.0	3706.8	3034.1	2333.5	1704.4	1361.1	1214.7	1146.7	1139.8
20°	5125.4	4794.3	4024.0	3225.8	2368.4	1638.2	1176.3	1017.8	970.7	942.8	946.3
22.5°	4992.9	4579.9	3661.5	2692.5	1775.9	1150.2	911.5	850.5	845.2	848.7	850.5
25°	4881.4	4383.0	3288.5	2178.4	1267.0	876.6	761.6	744.1	759.8	782.5	786.0
27.5°	4823.9	4222.7	2924.3	1660.8	916.7	712.8	660.5	667.5	695.4	719.8	723.2
30°	4839.6	4102.4	2547.9	1204.2	705.8	601.2	583.8	597.8	625.6	648.3	651.8
32.5°	4951.1	4041.4	2162.7	876.6	580.3	524.6	517.6	528.1	552.4	569.9	571.6
35°	5172.5	4055.4	1796.8	671.0	498.4	467.1	465.3	472.3	484.5	496.7	498.4
37.5°	5498.3	4168.6	1436.0	557.7	451.4	428.7	421.7	421.7	430.5	435.7	439.2
40°	5848.6	4339.4	1150.2	493.2	418.3	393.9	379.9	374.7	381.7	388.6	390.4
42.5°	6137.9	4510.2	934.1	447.9	392.1	359.0	341.6	338.1	346.8	359.0	362.5
45°	6359.3	4642.7	779.0	411.3	362.5	325.9	306.7	306.7	322.4	343.3	346.8
47.5°	6561.4	4749.0	664.0	378.2	334.6	296.3	277.1	280.6	306.7	334.6	339.8
50°	6699.1	4834.4	578.6	348.5	312.0	271.9	254.4	261.4	292.8	325.9	331.1
52.5°	6847.2	4938.9	522.8	322.4	291.0	252.7	237.0	242.2	277.1	313.7	320.7
55°	7256.8	5289.2	521.1	287.6	254.4	226.6	219.6	221.3	256.2	298.0	306.7
57.5°	7591.4	5597.7	555.9	242.2	212.6	198.7	195.2	196.9	228.3	275.4	285.8
60°	6280.8	4349.9	460.1	200.4	177.8	174.3	169.0	172.5	202.2	244.0	252.7
62.5°	3717.3	2486.9	219.6	153.4	151.6	148.1	142.9	149.9	177.8	214.4	219.6
65°	1270.5	737.2	139.4	125.5	129.0	123.7	118.5	125.5	149.9	170.8	172.5
67.5°	244.0	195.2	111.5	104.6	106.3	95.9	94.1	101.1	115.0	118.5	116.8
70°	127.2	113.3	85.4	85.4	81.9	68.0	68.0	74.9	74.9	69.7	68.0
72.5°	66.2	62.7	55.8	62.7	52.3	41.8	41.8	45.3	41.8	34.9	34.9
75°	26.1	26.1	24.4	31.4	22.7	19.2	17.4	20.9	15.7	12.2	12.2
77.5°	7.0	7.0	7.0	8.7	5.2	5.2	3.5	3.5	1.7	0.0	0.0
80°	0.0	1.7	0.0	1.7	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)