

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: P641271

Luminaire Tested: GWS-SA5F-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27671.5 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

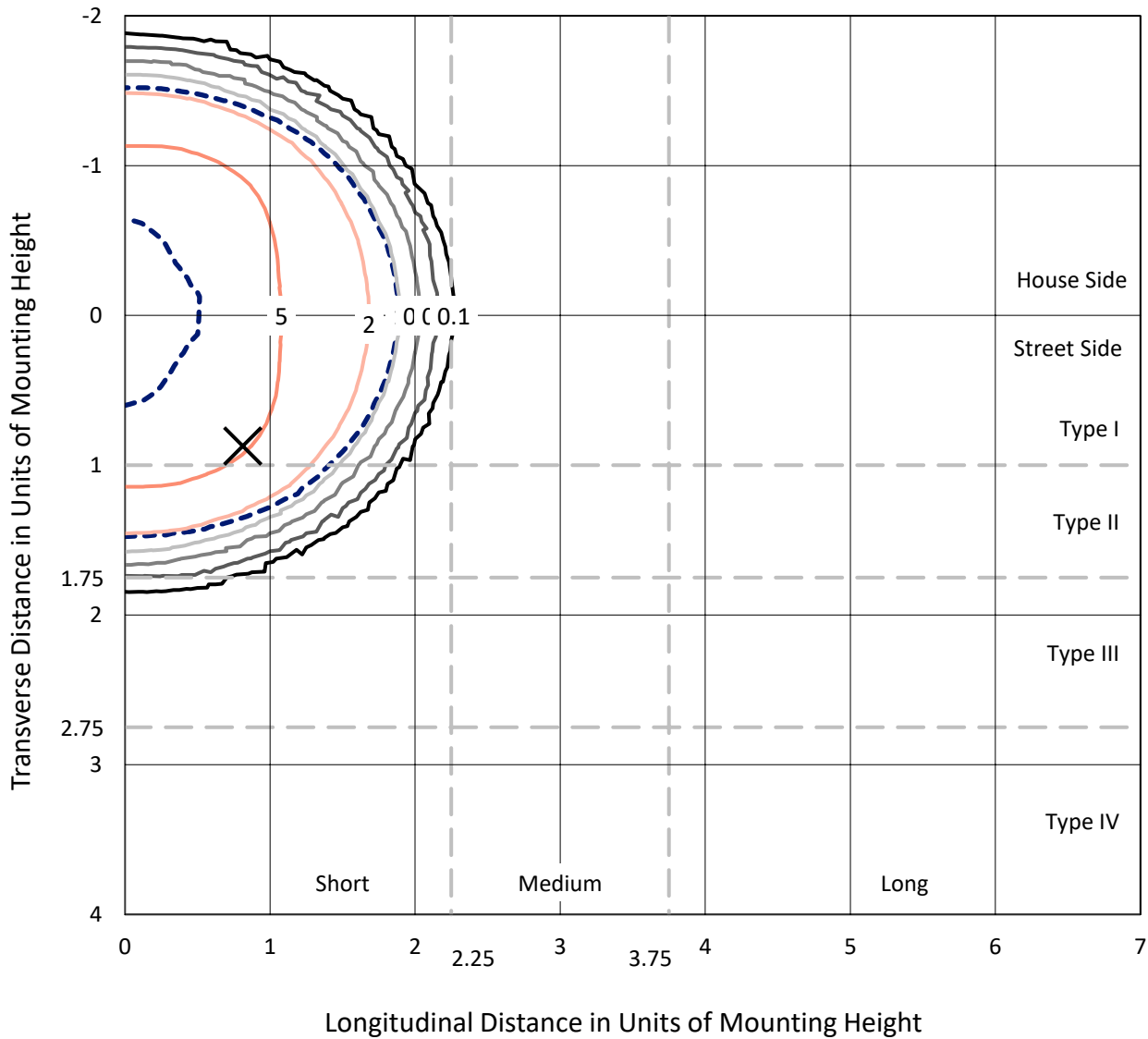
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

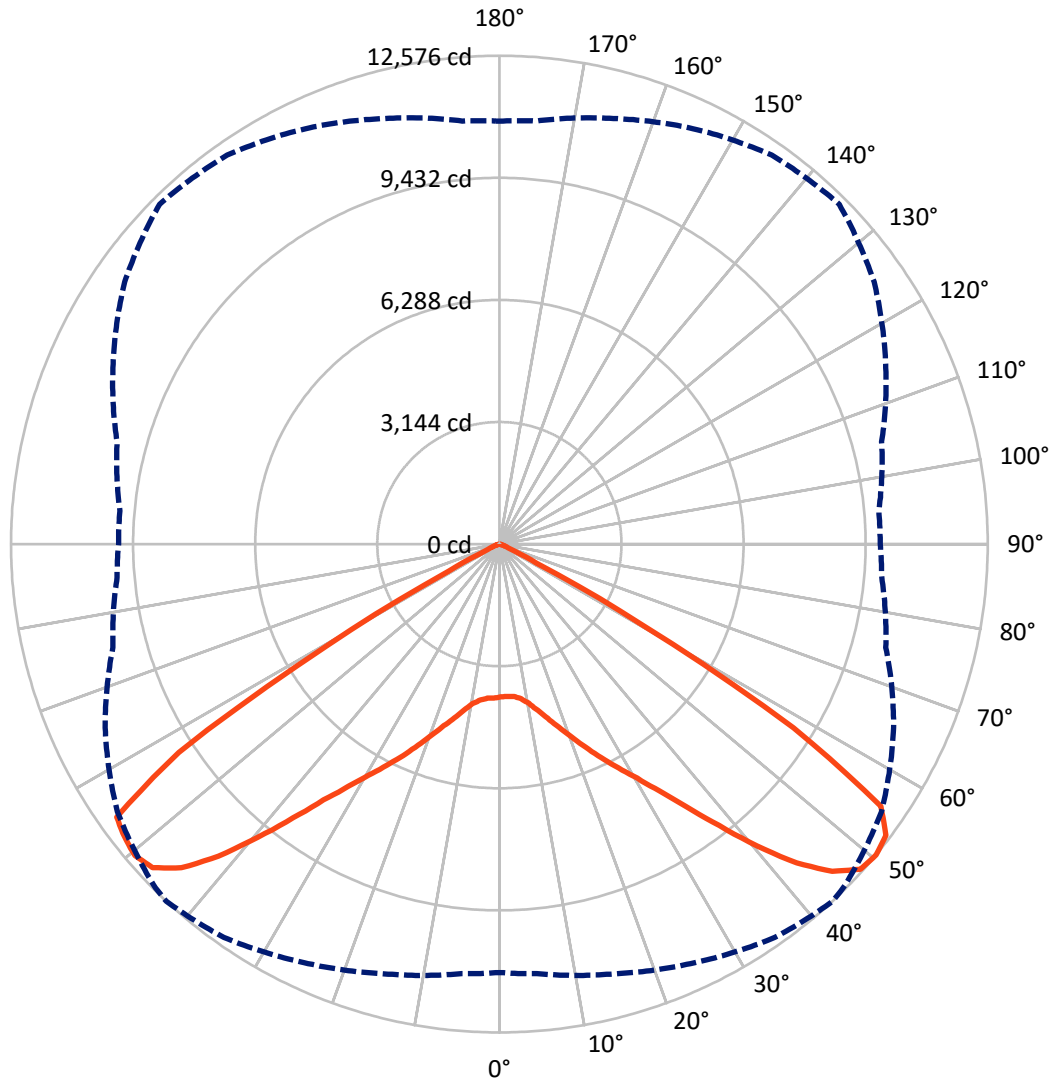
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13835.4	0.0	13835.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13836.1	0.0	13836.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	27671.5	0.0	27671.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	1.4
10°-20°	1333.8	4.8
20°-30°	2698.5	9.8
30°-40°	5006.7	18.1
40°-50°	8310.8	30.0
50°-60°	8481.5	30.7
60°-70°	1390.9	5.0
70°-80°	60.9	0.2
80°-90°	0.9	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°	27671.5	100.0
0°-180°	27671.5	100.0

Coefficient of Utilization



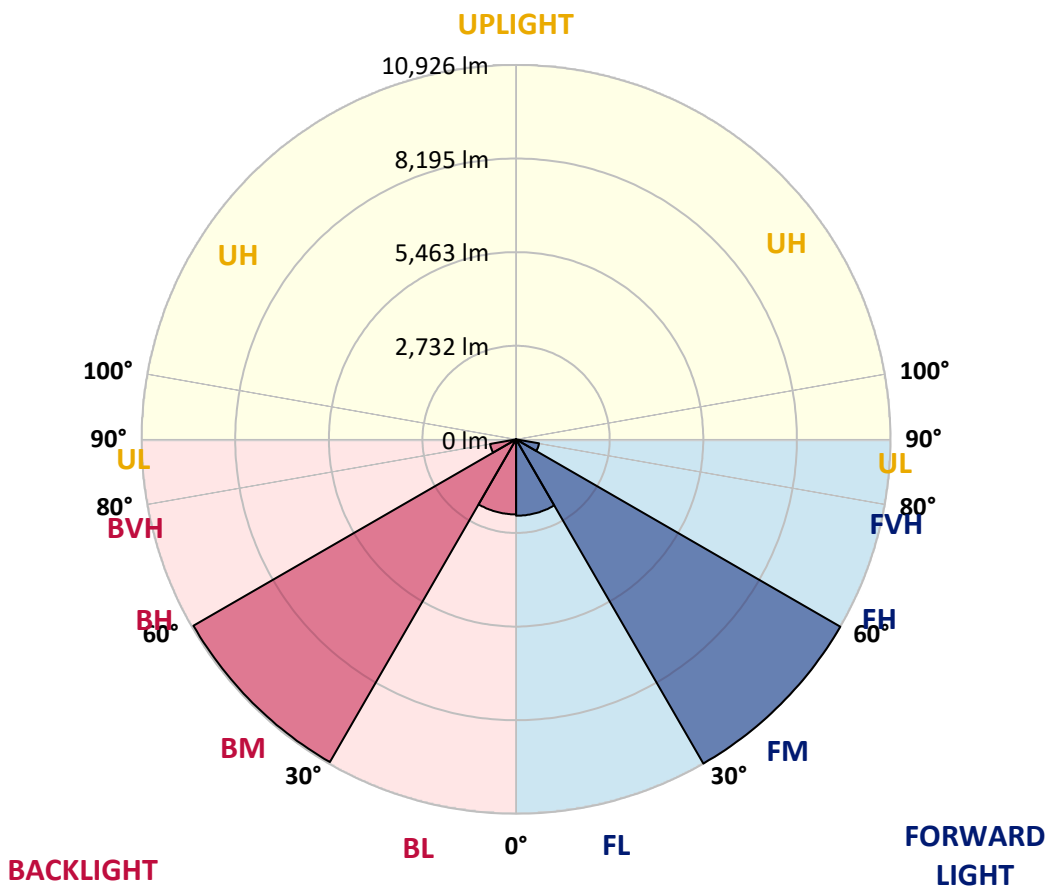
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.3	8.1			
FM (30°-60°)	10926.0	39.5			
FH (60°-80°)	680.4	2.5			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	2190.6	7.9	B3/2500		
BM (30°-60°)	10872.9	39.3	B5		
BH (60°-80°)	771.3	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
2.5°	3862.4	3871.6	3883.8	3896.0	3911.3	3926.7	3935.8	3963.4	3957.3	3981.7	3981.7
5°	3819.5	3828.7	3844.0	3871.6	3905.2	3938.9	3963.4	4018.5	4049.1	4098.0	4116.4
7.5°	3841.0	3853.2	3871.6	3914.4	3966.4	4018.5	4046.0	4134.8	4196.0	4287.8	4339.8
10°	3911.3	3923.6	3954.2	4027.6	4095.0	4168.4	4202.1	4315.3	4413.3	4538.8	4612.2
12.5°	3990.9	4006.2	4067.4	4177.6	4293.9	4391.9	4437.8	4563.2	4664.2	4805.0	4921.3
15°	4073.6	4098.0	4192.9	4355.1	4520.4	4652.0	4701.0	4835.6	4936.6	5086.6	5218.2
17.5°	4266.4	4293.9	4401.0	4575.5	4802.0	4955.0	4997.8	5138.6	5215.1	5316.1	5453.9
20°	4508.2	4560.2	4691.8	4903.0	5150.9	5297.8	5328.4	5466.1	5460.0	5502.8	5622.2
22.5°	4808.1	4844.8	4988.7	5239.6	5518.1	5680.3	5750.7	5808.9	5732.4	5695.6	5772.1
25°	5120.3	5163.1	5319.2	5594.6	5906.8	6093.5	6151.7	6197.6	6075.1	5937.4	5946.6
27.5°	5524.2	5554.9	5707.9	6001.7	6313.9	6525.0	6577.1	6656.6	6494.4	6274.1	6212.9
30°	6004.7	6035.4	6197.6	6506.7	6815.8	6996.4	7075.9	7173.9	6996.4	6720.9	6650.5
32.5°	6567.9	6598.5	6806.6	7124.9	7378.9	7574.8	7651.3	7755.4	7614.6	7305.5	7225.9
35°	7241.2	7259.6	7504.4	7850.2	8119.6	8309.3	8361.4	8483.8	8327.7	8018.6	7975.7
37.5°	8021.6	8043.1	8309.3	8710.2	8985.7	9196.9	9279.5	9313.2	9123.4	8777.6	8743.9
40°	8878.6	8949.0	9209.1	9640.6	9949.8	10216.0	10289.5	10176.2	9910.0	9438.7	9377.4
42.5°	9772.3	9833.5	10124.2	10592.5	10950.6	11222.9	11226.0	10981.2	10528.2	9876.3	9784.5
45°	10516.0	10540.4	10916.9	11388.2	11828.9	12021.7	12040.1	11596.3	10913.8	10130.3	9934.5
47.5°	11027.1	11066.9	11394.3	11847.3	12333.9	12508.4	12471.6	11917.7	11097.5	10295.6	9971.2
50°	11033.2	11100.5	11455.5	11893.2	12364.5	12575.7	12523.7	12009.5	11201.5	10301.7	9882.4
52.5°	10056.9	10167.1	10745.5	11379.0	12101.3	12462.5	12474.7	12128.9	11161.7	10203.8	9802.9
55°	7587.0	7706.4	8434.8	9515.2	10910.8	11917.7	12092.1	11988.1	11115.8	10246.6	9943.6
57.5°	4015.4	3923.6	4327.6	5398.8	7152.4	8933.7	9444.8	10277.2	10604.7	10298.7	10203.8
60°	875.3	933.5	1242.6	1674.1	2791.2	4202.1	4701.0	6127.2	7822.7	8575.6	9120.4
62.5°	376.4	370.3	385.6	437.7	639.6	1065.1	1300.7	2124.0	3351.3	4603.0	5450.8
65°	309.1	312.2	324.4	324.4	303.0	306.1	321.4	486.6	783.5	1098.7	1475.2
67.5°	232.6	235.7	257.1	263.2	247.9	220.4	217.3	183.6	192.8	241.8	251.0
70°	146.9	146.9	159.1	165.3	165.3	153.0	150.0	131.6	128.5	146.9	165.3
72.5°	79.6	79.6	85.7	88.8	85.7	82.6	82.6	79.6	76.5	88.8	113.2
75°	33.7	33.7	36.7	36.7	33.7	33.7	33.7	33.7	33.7	39.8	61.2
77.5°	6.1	9.2	12.2	9.2	6.1	6.1	6.1	9.2	9.2	12.2	18.4
80°	3.1	3.1	6.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8	3935.8
2.5°	4003.2	3969.5	3981.7	3987.9	3978.7	3972.6	3938.9	3929.7	3914.4	3889.9	3883.8
5°	4137.8	4110.3	4107.2	4088.9	4046.0	3994.0	3929.7	3902.2	3871.6	3841.0	3834.8
7.5°	4364.3	4330.6	4309.2	4248.0	4150.1	4067.4	3960.3	3902.2	3862.4	3822.6	3813.4
10°	4655.1	4615.3	4554.1	4440.8	4309.2	4189.9	4064.4	3987.9	3926.7	3871.6	3868.5
12.5°	4964.2	4921.3	4811.1	4667.3	4508.2	4398.0	4238.8	4131.7	4039.9	3957.3	3948.1
15°	5288.6	5236.6	5086.6	4915.2	4768.3	4655.1	4480.6	4309.2	4168.4	4049.1	4036.8
17.5°	5536.5	5472.2	5294.7	5166.2	5046.8	4930.5	4734.6	4508.2	4321.5	4177.6	4143.9
20°	5692.6	5631.4	5463.0	5392.6	5337.6	5254.9	5022.3	4786.7	4578.5	4401.0	4370.4
22.5°	5842.5	5769.1	5622.2	5622.2	5665.0	5631.4	5380.4	5111.1	4866.2	4661.2	4615.3
25°	6010.9	5952.7	5848.7	5934.4	6041.5	6038.4	5781.3	5444.7	5163.1	4933.6	4887.7
27.5°	6255.7	6197.6	6160.8	6323.0	6457.7	6448.5	6167.0	5802.8	5505.9	5279.4	5236.6
30°	6687.2	6632.2	6592.4	6788.2	6959.6	6895.4	6586.2	6234.3	5934.4	5677.3	5646.7
32.5°	7262.6	7204.5	7152.4	7348.3	7501.3	7418.7	7124.9	6794.4	6448.5	6197.6	6136.3
35°	8018.6	7896.2	7844.1	8076.7	8141.0	8049.2	7767.6	7476.9	7109.6	6821.9	6782.1
37.5°	8799.0	8655.2	8618.4	8820.4	8924.5	8890.8	8560.3	8257.3	7859.4	7541.1	7495.2
40°	9466.2	9334.6	9270.3	9585.6	9821.2	9842.6	9545.8	9175.4	8707.2	8376.7	8294.0
42.5°	9857.9	9744.7	9729.4	10219.1	10604.7	10880.2	10525.1	10142.6	9649.8	9276.4	9209.1
45°	9946.7	9873.2	10001.8	10644.5	11244.4	11746.3	11443.3	11039.3	10506.8	10112.0	10047.7
47.5°	9937.5	9913.0	10142.6	10864.9	11623.9	12242.1	12092.1	11636.1	11121.9	10708.8	10647.6
50°	9805.9	9809.0	10191.5	10975.0	11776.9	12376.8	12226.8	11804.4	11345.4	10938.3	10889.3
52.5°	9753.9	9735.5	10099.7	10941.4	11933.0	12315.5	11978.9	11504.5	10993.4	10491.5	10418.0
55°	9937.5	9891.6	10112.0	10913.8	11951.3	12281.9	11394.3	10366.0	9319.3	8725.6	8676.6
57.5°	10213.0	10164.0	10268.1	10711.8	10993.4	10213.0	8385.8	6727.0	5649.7	5193.7	4994.8
60°	9120.4	9086.7	9007.1	8471.5	7265.7	5481.4	3733.8	2381.1	1710.8	1383.4	1383.4
62.5°	5658.9	5613.0	5181.5	3850.1	2797.3	1619.0	890.6	557.0	422.4	394.8	391.7
65°	1588.4	1579.2	1306.8	924.3	587.6	364.2	321.4	327.5	321.4	312.2	309.1
67.5°	238.7	263.2	263.2	214.2	205.1	229.5	269.3	287.7	272.4	257.1	251.0
70°	153.0	165.3	159.1	137.7	146.9	171.4	192.8	195.9	186.7	171.4	168.3
72.5°	107.1	119.4	97.9	88.8	91.8	101.0	110.2	110.2	107.1	101.0	94.9
75°	64.3	64.3	45.9	42.8	42.8	45.9	45.9	52.0	52.0	49.0	45.9
77.5°	21.4	24.5	15.3	12.2	12.2	12.2	15.3	18.4	18.4	15.3	12.2
80°	3.1	6.1	3.1	3.1	3.1	3.1	3.1	3.1	6.1	6.1	3.1
82.5°	3.1	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
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)