

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: P638741

Luminaire Tested: GWS-SA4F-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638741
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-SA4F-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22052.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

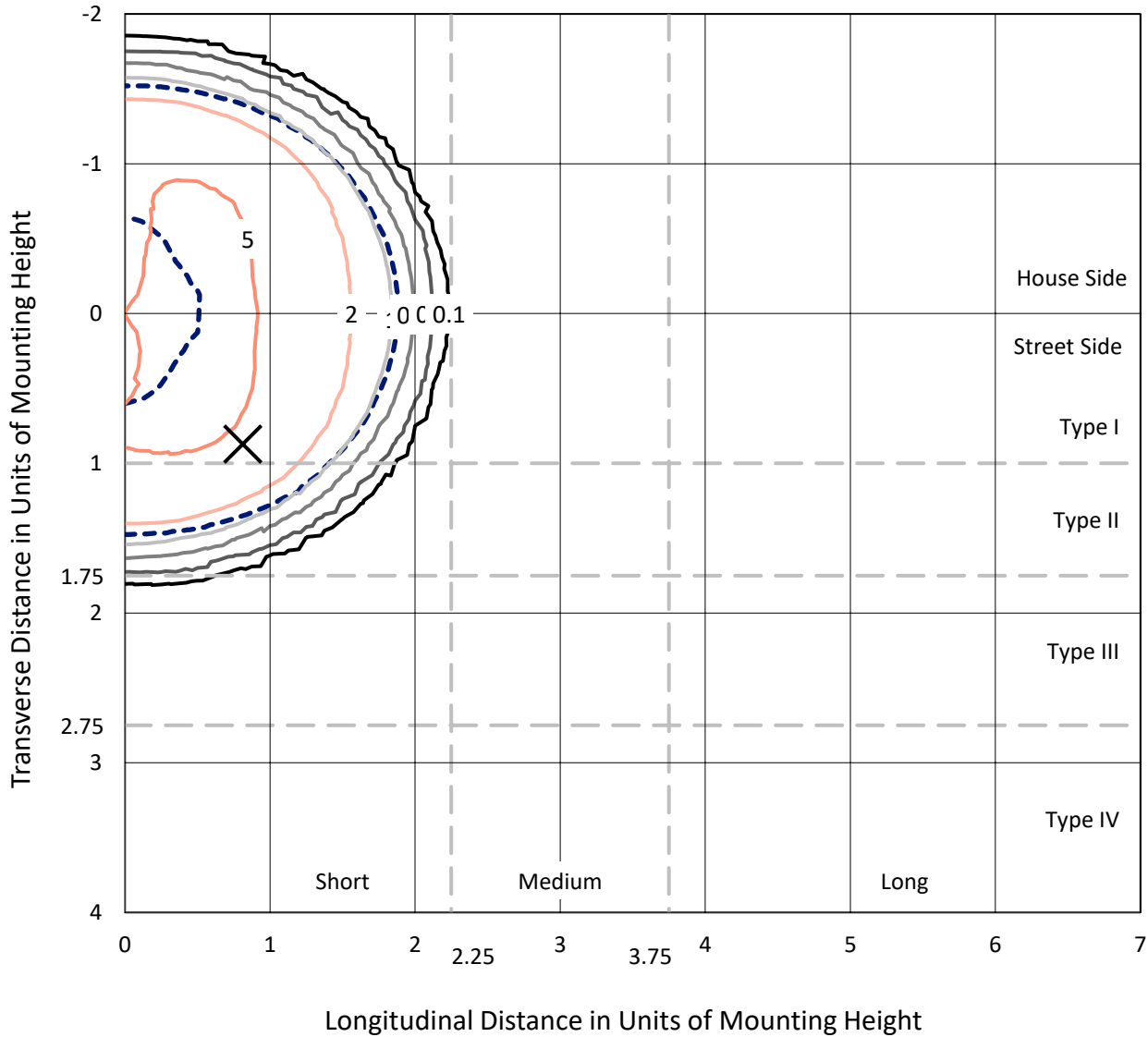
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

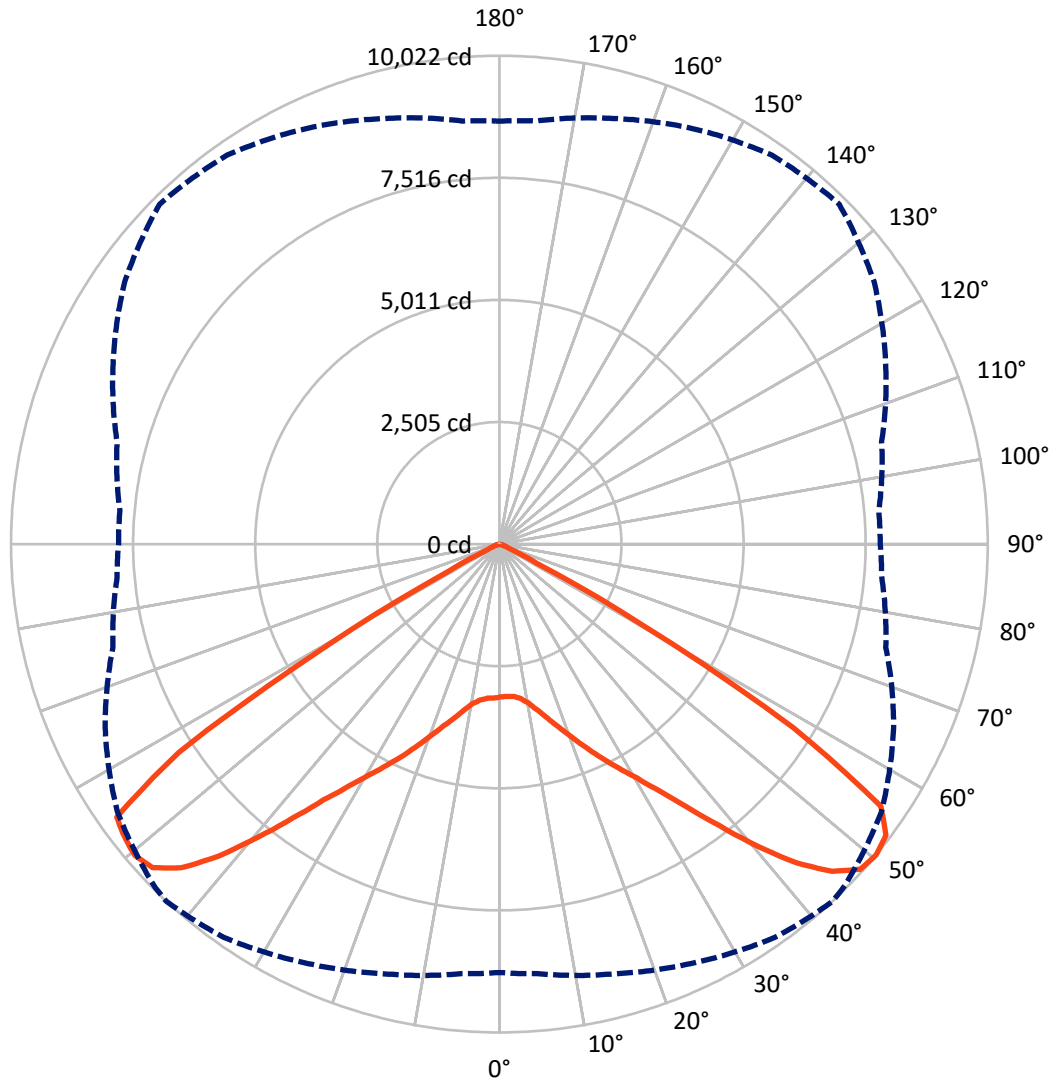
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	11025.8	0.0	11025.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11026.3	0.0	11026.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	22052.1	0.0	22052.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.4
10°-20°	1062.9	4.8
20°-30°	2150.5	9.8
30°-40°	3989.9	18.1
40°-50°	6623.1	30.0
50°-60°	6759.1	30.7
60°-70°	1108.4	5.0
70°-80°	48.5	0.2
80°-90°	0.7	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°	22052.1	100.0
0°-180°	22052.1	100.0

Coefficient of Utilization



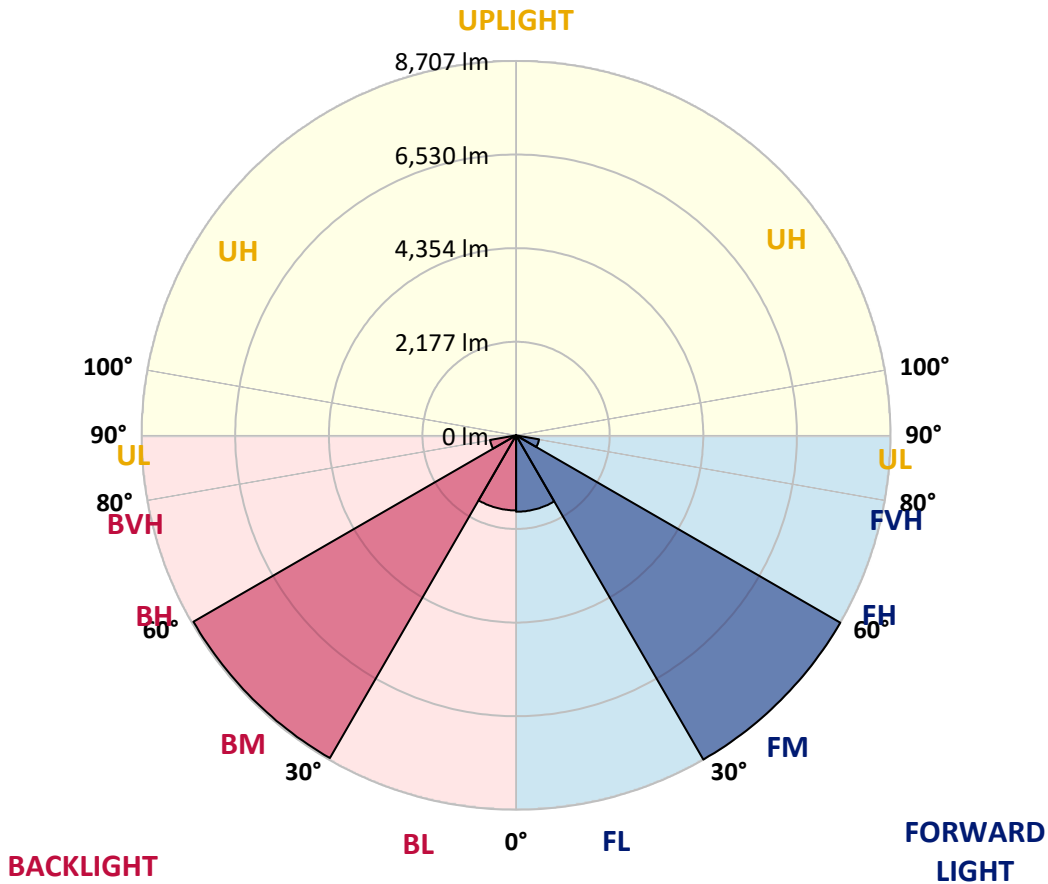
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.6	8.1			
FM (30°-60°)	8707.2	39.5			
FH (60°-80°)	542.2	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1745.7	7.9	B3/2500		
BM (30°-60°)	8664.9	39.3	B5		
BH (60°-80°)	614.7	2.8	B2/1000		G0/660
BVH (80°-90°)	0.4	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-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6
2.5°	3078.0	3085.3	3095.1	3104.9	3117.1	3129.2	3136.6	3158.5	3153.6	3173.1	3173.1
5°	3043.9	3051.2	3063.4	3085.3	3112.2	3139.0	3158.5	3202.4	3226.8	3265.8	3280.5
7.5°	3061.0	3070.7	3085.3	3119.5	3161.0	3202.4	3224.4	3295.1	3343.9	3417.0	3458.5
10°	3117.1	3126.8	3151.2	3209.7	3263.4	3321.9	3348.8	3439.0	3517.0	3617.0	3675.6
12.5°	3180.5	3192.7	3241.4	3329.2	3421.9	3500.0	3536.6	3636.6	3717.0	3829.2	3921.9
15°	3246.3	3265.8	3341.4	3470.7	3602.4	3707.3	3746.3	3853.6	3934.1	4053.6	4158.5
17.5°	3400.0	3421.9	3507.3	3646.3	3826.8	3948.8	3982.9	4095.1	4156.1	4236.6	4346.3
20°	3592.7	3634.1	3739.0	3907.3	4104.8	4221.9	4246.3	4356.1	4351.2	4385.3	4480.5
22.5°	3831.7	3860.9	3975.6	4175.6	4397.5	4526.8	4582.9	4629.2	4568.3	4539.0	4600.0
25°	4080.5	4114.6	4239.0	4458.5	4707.3	4856.1	4902.4	4939.0	4841.4	4731.7	4739.0
27.5°	4402.4	4426.8	4548.7	4782.9	5031.7	5200.0	5241.4	5304.8	5175.6	5000.0	4951.2
30°	4785.3	4809.7	4939.0	5185.3	5431.7	5575.6	5639.0	5717.0	5575.6	5356.1	5300.0
32.5°	5234.1	5258.5	5424.4	5678.0	5880.4	6036.5	6097.5	6180.4	6068.2	5821.9	5758.5
35°	5770.7	5785.3	5980.4	6256.1	6470.7	6621.9	6663.4	6760.9	6636.5	6390.2	6356.1
37.5°	6392.6	6409.7	6621.9	6941.4	7160.9	7329.2	7395.1	7421.9	7270.7	6995.1	6968.2
40°	7075.6	7131.7	7339.0	7682.9	7929.2	8141.4	8199.9	8109.7	7897.5	7521.9	7473.1
42.5°	7787.7	7836.5	8068.2	8441.4	8726.8	8943.8	8946.3	8751.2	8390.2	7870.7	7797.5
45°	8380.4	8399.9	8699.9	9075.5	9426.8	9580.4	9595.1	9241.4	8697.5	8073.1	7917.0
47.5°	8787.7	8819.4	9080.4	9441.4	9829.2	9968.2	9939.0	9497.5	8843.8	8204.8	7946.3
50°	8792.6	8846.3	9129.2	9478.0	9853.6	10021.9	9980.4	9570.7	8926.8	8209.7	7875.6
52.5°	8014.6	8102.4	8563.4	9068.2	9643.8	9931.6	9941.4	9665.8	8895.1	8131.6	7812.1
55°	6046.3	6141.4	6721.9	7582.9	8695.1	9497.5	9636.5	9553.6	8858.5	8165.8	7924.3
57.5°	3200.0	3126.8	3448.8	4302.4	5700.0	7119.5	7526.8	8190.2	8451.2	8207.3	8131.6
60°	697.6	743.9	990.2	1334.1	2224.4	3348.8	3746.3	4882.9	6234.1	6834.1	7268.2
62.5°	300.0	295.1	307.3	348.8	509.8	848.8	1036.6	1692.7	2670.7	3668.3	4343.9
65°	246.3	248.8	258.5	258.5	241.5	243.9	256.1	387.8	624.4	875.6	1175.6
67.5°	185.4	187.8	204.9	209.8	197.6	175.6	173.2	146.3	153.7	192.7	200.0
70°	117.1	117.1	126.8	131.7	131.7	122.0	119.5	104.9	102.4	117.1	131.7
72.5°	63.4	63.4	68.3	70.7	68.3	65.9	65.9	63.4	61.0	70.7	90.2
75°	26.8	26.8	29.3	29.3	26.8	26.8	26.8	26.8	26.8	31.7	48.8
77.5°	4.9	7.3	9.8	7.3	4.9	4.9	4.9	7.3	7.3	9.8	14.6
80°	2.4	2.4	4.9	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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°	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6	3136.6
2.5°	3190.2	3163.4	3173.1	3178.0	3170.7	3165.8	3139.0	3131.7	3119.5	3100.0	3095.1
5°	3297.5	3275.6	3273.1	3258.5	3224.4	3182.9	3131.7	3109.7	3085.3	3061.0	3056.1
7.5°	3478.0	3451.2	3434.1	3385.3	3307.3	3241.4	3156.1	3109.7	3078.0	3046.3	3039.0
10°	3709.7	3678.0	3629.2	3539.0	3434.1	3339.0	3239.0	3178.0	3129.2	3085.3	3082.9
12.5°	3956.1	3921.9	3834.1	3719.5	3592.7	3504.9	3378.0	3292.7	3219.5	3153.6	3146.3
15°	4214.6	4173.1	4053.6	3917.0	3800.0	3709.7	3570.7	3434.1	3321.9	3226.8	3217.0
17.5°	4412.2	4360.9	4219.5	4117.0	4021.9	3929.2	3773.1	3592.7	3443.9	3329.2	3302.4
20°	4536.6	4487.8	4353.6	4297.5	4253.6	4187.8	4002.4	3814.6	3648.8	3507.3	3482.9
22.5°	4656.1	4597.5	4480.5	4480.5	4514.6	4487.8	4287.8	4073.1	3878.0	3714.6	3678.0
25°	4790.2	4743.9	4660.9	4729.2	4814.6	4812.2	4607.3	4339.0	4114.6	3931.7	3895.1
27.5°	4985.3	4939.0	4909.7	5039.0	5146.3	5139.0	4914.6	4624.4	4387.8	4207.3	4173.1
30°	5329.2	5285.3	5253.6	5409.7	5546.3	5495.1	5248.7	4968.3	4729.2	4524.4	4500.0
32.5°	5787.8	5741.4	5700.0	5856.1	5978.0	5912.2	5678.0	5414.6	5139.0	4939.0	4890.2
35°	6390.2	6292.6	6251.2	6436.5	6487.8	6414.6	6190.2	5958.5	5665.8	5436.5	5404.8
37.5°	7012.1	6897.5	6868.2	7029.2	7112.1	7085.3	6821.9	6580.4	6263.4	6009.7	5973.1
40°	7543.8	7439.0	7387.8	7639.0	7826.8	7843.8	7607.3	7312.1	6939.0	6675.6	6609.7
42.5°	7856.0	7765.8	7753.6	8143.8	8451.2	8670.7	8387.7	8082.9	7690.2	7392.6	7339.0
45°	7926.8	7868.2	7970.7	8482.9	8960.9	9360.9	9119.4	8797.5	8373.1	8058.5	8007.3
47.5°	7919.5	7899.9	8082.9	8658.5	9263.3	9756.0	9636.5	9273.1	8863.3	8534.1	8485.3
50°	7814.6	7817.0	8121.9	8746.3	9385.3	9863.3	9743.8	9407.2	9041.4	8717.0	8678.0
52.5°	7773.1	7758.5	8048.7	8719.4	9509.7	9814.6	9546.3	9168.2	8760.9	8360.9	8302.4
55°	7919.5	7882.9	8058.5	8697.5	9524.3	9787.7	9080.4	8260.9	7426.8	6953.6	6914.6
57.5°	8139.0	8099.9	8182.9	8536.5	8760.9	8139.0	6682.9	5360.9	4502.4	4139.0	3980.5
60°	7268.2	7241.4	7178.0	6751.2	5790.2	4368.3	2975.6	1897.5	1363.4	1102.4	1102.4
62.5°	4509.7	4473.1	4129.2	3068.3	2229.3	1290.2	709.8	443.9	336.6	314.6	312.2
65°	1265.8	1258.5	1041.5	736.6	468.3	290.2	256.1	261.0	256.1	248.8	246.3
67.5°	190.2	209.8	209.8	170.7	163.4	182.9	214.6	229.3	217.1	204.9	200.0
70°	122.0	131.7	126.8	109.8	117.1	136.6	153.7	156.1	148.8	136.6	134.1
72.5°	85.4	95.1	78.0	70.7	73.2	80.5	87.8	87.8	85.4	80.5	75.6
75°	51.2	51.2	36.6	34.1	34.1	36.6	36.6	41.5	41.5	39.0	36.6
77.5°	17.1	19.5	12.2	9.8	9.8	9.8	12.2	14.6	14.6	12.2	9.8
80°	2.4	4.9	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9	2.4
82.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
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)