

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: P638796

Luminaire Tested: GWS-SA4F-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638796
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22557.5 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

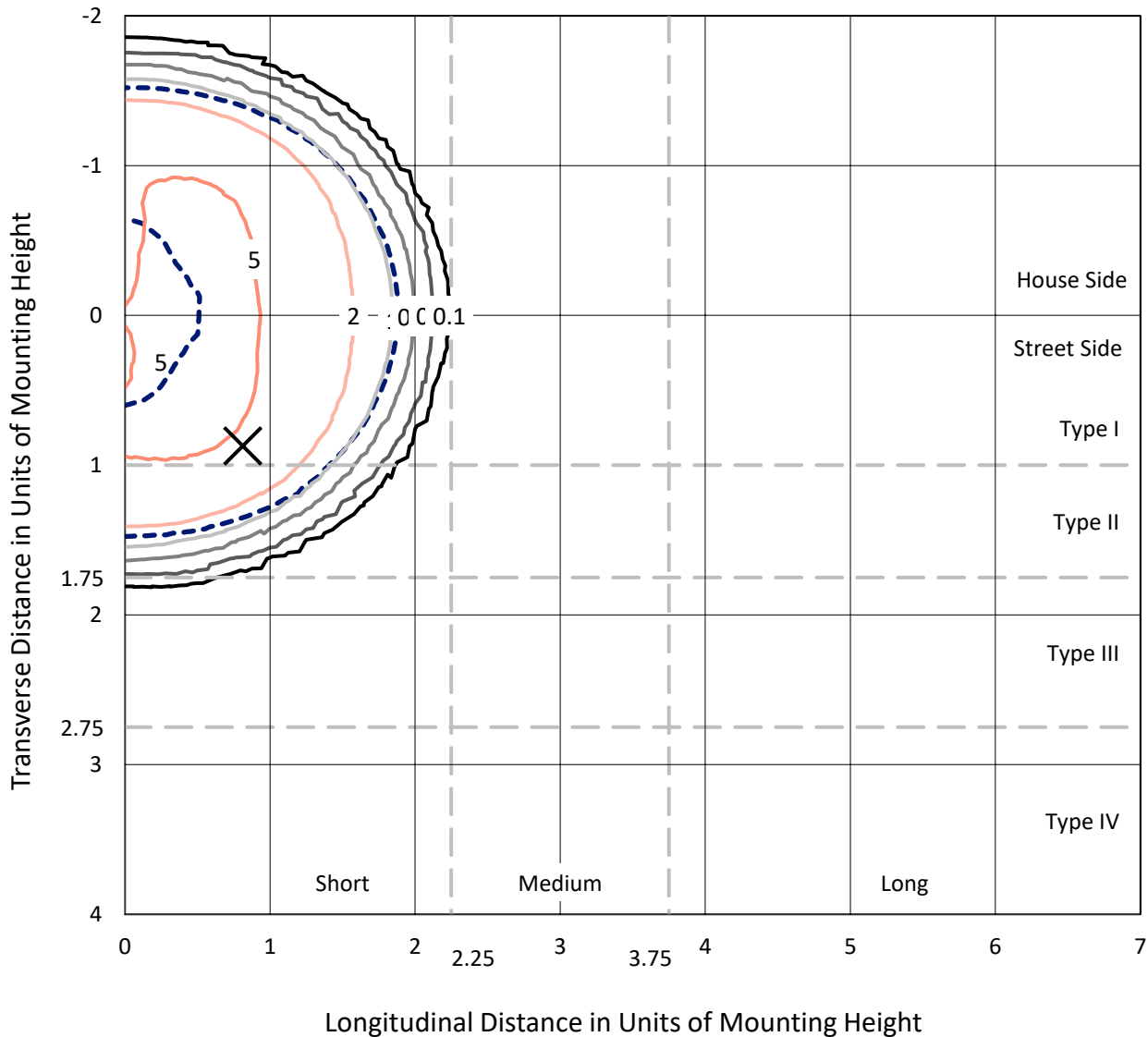
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

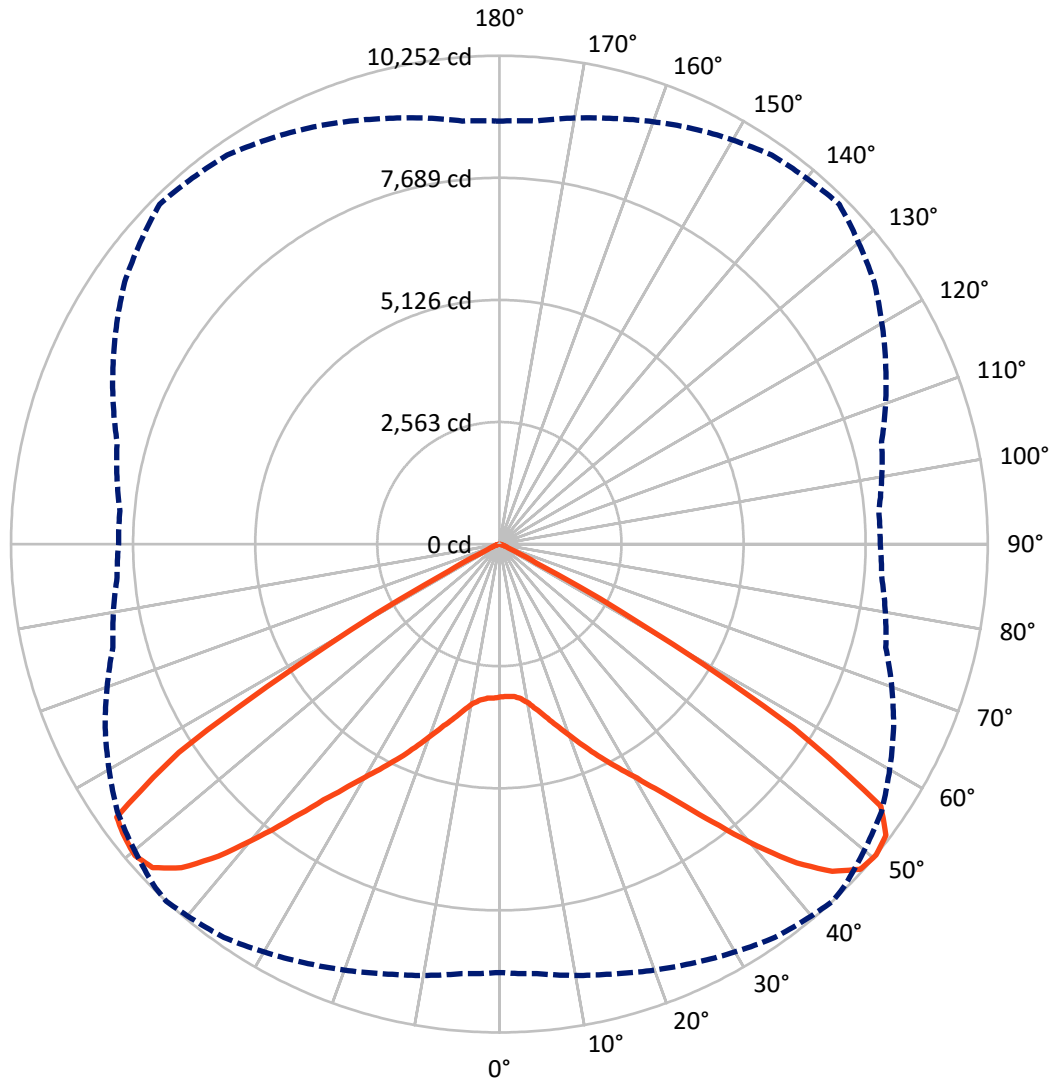
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	11278.5	0.0	11278.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11279.0	0.0	11279.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22557.5	0.0	22557.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	1.4
10°-20°	1087.3	4.8
20°-30°	2199.8	9.8
30°-40°	4081.4	18.1
40°-50°	6774.9	30.0
50°-60°	6914.0	30.7
60°-70°	1133.8	5.0
70°-80°	49.6	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°	22557.5	100.0
0°-180°	22557.5	100.0

Coefficient of Utilization



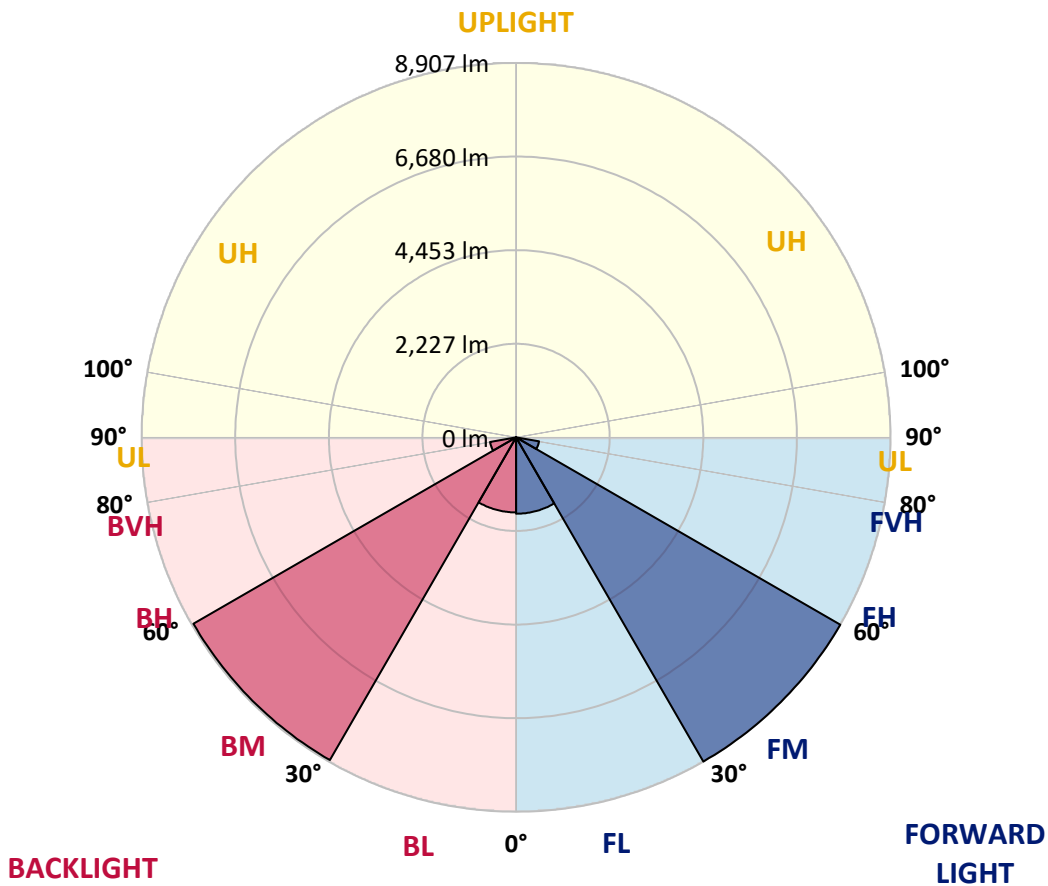
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.3	8.1			
FM (30°-60°)	8906.8	39.5			
FH (60°-80°)	554.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1785.7	7.9	B3/2500		
BM (30°-60°)	8863.5	39.3	B5		
BH (60°-80°)	628.8	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°	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4
2.5°	3148.6	3156.1	3166.0	3176.0	3188.5	3201.0	3208.4	3230.9	3225.9	3245.9	3245.9
5°	3113.6	3121.1	3133.6	3156.1	3183.5	3210.9	3230.9	3275.8	3300.8	3340.7	3355.6
7.5°	3131.1	3141.1	3156.1	3191.0	3233.4	3275.8	3298.3	3370.6	3420.5	3495.4	3537.8
10°	3188.5	3198.5	3223.4	3283.3	3338.2	3398.1	3425.5	3517.8	3597.7	3699.9	3759.8
12.5°	3253.4	3265.8	3315.7	3405.5	3500.4	3580.2	3617.6	3719.9	3802.2	3917.0	4011.8
15°	3320.7	3340.7	3418.0	3550.2	3685.0	3792.3	3832.2	3941.9	4024.3	4146.5	4253.8
17.5°	3477.9	3500.4	3587.7	3729.9	3914.5	4039.3	4074.2	4188.9	4251.3	4333.6	4445.9
20°	3675.0	3717.4	3824.7	3996.8	4198.9	4318.7	4343.6	4455.9	4450.9	4485.8	4583.1
22.5°	3919.5	3949.4	4066.7	4271.3	4498.3	4630.5	4687.9	4735.3	4673.0	4643.0	4705.4
25°	4174.0	4208.9	4336.1	4560.7	4815.2	4967.4	5014.8	5052.2	4952.4	4840.1	4847.6
27.5°	4503.3	4528.3	4653.0	4892.5	5147.0	5319.1	5361.6	5426.4	5294.2	5114.6	5064.7
30°	4895.0	4920.0	5052.2	5304.2	5556.2	5703.4	5768.2	5848.1	5703.4	5478.8	5421.4
32.5°	5354.1	5379.0	5548.7	5808.1	6015.2	6174.9	6237.3	6322.1	6207.3	5955.3	5890.5
35°	5902.9	5917.9	6117.5	6399.4	6619.0	6773.7	6816.1	6915.9	6788.6	6536.7	6501.7
37.5°	6539.1	6556.6	6773.7	7100.5	7325.0	7497.2	7564.6	7592.0	7437.3	7155.4	7127.9
40°	7237.7	7295.1	7507.2	7859.0	8110.9	8328.0	8387.9	8295.6	8078.5	7694.3	7644.4
42.5°	7966.2	8016.1	8253.1	8634.9	8926.8	9148.8	9151.3	8951.7	8582.5	8051.1	7976.2
45°	8572.5	8592.5	8899.3	9283.5	9642.8	9800.0	9815.0	9453.2	8896.8	8258.1	8098.5
47.5°	8989.1	9021.6	9288.5	9657.8	10054.5	10196.7	10166.7	9715.2	9046.5	8392.9	8128.4
50°	8994.1	9049.0	9338.4	9695.2	10079.4	10251.6	10209.2	9790.0	9131.4	8397.8	8056.0
52.5°	8198.3	8288.1	8759.6	9276.1	9864.9	10159.3	10169.2	9887.3	9098.9	8318.0	7991.2
55°	6184.9	6282.2	6876.0	7756.7	8894.3	9715.2	9857.4	9772.5	9061.5	8352.9	8105.9
57.5°	3273.3	3198.5	3527.8	4401.0	5830.6	7282.6	7699.3	8377.9	8644.8	8395.4	8318.0
60°	713.5	760.9	1012.9	1364.7	2275.4	3425.5	3832.2	4994.8	6377.0	6990.7	7434.8
62.5°	306.9	301.9	314.4	356.8	521.4	868.2	1060.3	1731.5	2731.9	3752.3	4443.4
65°	252.0	254.5	264.5	264.5	247.0	249.5	262.0	396.7	638.7	895.7	1202.5
67.5°	189.6	192.1	209.6	214.6	202.1	179.6	177.1	149.7	157.2	197.1	204.6
70°	119.8	119.8	129.7	134.7	134.7	124.7	122.3	107.3	104.8	119.8	134.7
72.5°	64.9	64.9	69.9	72.4	69.9	67.4	67.4	64.9	62.4	72.4	92.3
75°	27.4	27.4	29.9	29.9	27.4	27.4	27.4	27.4	27.4	32.4	49.9
77.5°	5.0	7.5	10.0	7.5	5.0	5.0	5.0	7.5	7.5	10.0	15.0
80°	2.5	2.5	5.0	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4	3208.4
2.5°	3263.3	3235.9	3245.9	3250.9	3243.4	3238.4	3210.9	3203.5	3191.0	3171.0	3166.0
5°	3373.1	3350.7	3348.2	3333.2	3298.3	3255.9	3203.5	3181.0	3156.1	3131.1	3126.1
7.5°	3557.7	3530.3	3512.8	3462.9	3383.1	3315.7	3228.4	3181.0	3148.6	3116.1	3108.7
10°	3794.8	3762.3	3712.4	3620.1	3512.8	3415.5	3313.2	3250.9	3201.0	3156.1	3153.6
12.5°	4046.7	4011.8	3922.0	3804.7	3675.0	3585.2	3455.4	3368.1	3293.3	3225.9	3218.4
15°	4311.2	4268.8	4146.5	4006.8	3887.1	3794.8	3652.5	3512.8	3398.1	3300.8	3290.8
17.5°	4513.3	4460.9	4316.2	4211.4	4114.1	4019.3	3859.6	3675.0	3522.8	3405.5	3378.1
20°	4640.5	4590.6	4453.4	4396.0	4351.1	4283.8	4094.1	3902.0	3732.4	3587.7	3562.7
22.5°	4762.8	4702.9	4583.1	4583.1	4618.1	4590.6	4386.0	4166.5	3966.9	3799.7	3762.3
25°	4900.0	4852.6	4767.8	4837.6	4924.9	4922.4	4712.9	4438.4	4208.9	4021.8	3984.4
27.5°	5099.6	5052.2	5022.2	5154.5	5264.2	5256.8	5027.2	4730.3	4488.3	4303.7	4268.8
30°	5451.4	5406.5	5374.0	5533.7	5673.4	5621.0	5369.0	5082.1	4837.6	4628.0	4603.1
32.5°	5920.4	5873.0	5830.6	5990.3	6115.0	6047.6	5808.1	5538.7	5256.8	5052.2	5002.3
35°	6536.7	6436.9	6394.4	6584.1	6636.4	6561.6	6332.1	6095.1	5795.7	5561.1	5528.7
37.5°	7172.9	7055.6	7025.7	7190.3	7275.1	7247.7	6978.2	6731.3	6406.9	6147.4	6110.0
40°	7716.7	7609.5	7557.1	7814.0	8006.1	8023.6	7781.6	7479.7	7098.0	6828.6	6761.2
42.5°	8036.1	7943.8	7931.3	8330.5	8644.8	8869.4	8580.0	8268.1	7866.4	7562.1	7507.2
45°	8108.4	8048.6	8153.3	8677.3	9166.3	9575.4	9328.4	8999.1	8565.0	8243.2	8190.8
47.5°	8101.0	8081.0	8268.1	8856.9	9475.6	9979.6	9857.4	9485.6	9066.5	8729.7	8679.8
50°	7993.7	7996.2	8308.0	8946.7	9600.4	10089.4	9967.1	9622.8	9248.6	8916.8	8876.9
52.5°	7951.3	7936.3	8233.2	8919.3	9727.6	10039.5	9765.1	9378.3	8961.7	8552.5	8492.7
55°	8101.0	8063.5	8243.2	8896.8	9742.6	10012.1	9288.5	8450.2	7597.0	7113.0	7073.1
57.5°	8325.5	8285.6	8370.4	8732.2	8961.7	8325.5	6836.0	5483.8	4605.6	4233.9	4071.7
60°	7434.8	7407.4	7342.5	6905.9	5922.9	4468.4	3043.8	1941.0	1394.7	1127.7	1127.7
62.5°	4613.1	4575.7	4223.9	3138.6	2280.3	1319.8	726.0	454.1	344.3	321.8	319.3
65°	1294.9	1287.4	1065.3	753.5	479.0	296.9	262.0	267.0	262.0	254.5	252.0
67.5°	194.6	214.6	214.6	174.6	167.2	187.1	219.6	234.5	222.0	209.6	204.6
70°	124.7	134.7	129.7	112.3	119.8	139.7	157.2	159.7	152.2	139.7	137.2
72.5°	87.3	97.3	79.8	72.4	74.8	82.3	89.8	89.8	87.3	82.3	77.3
75°	52.4	52.4	37.4	34.9	34.9	37.4	37.4	42.4	42.4	39.9	37.4
77.5°	17.5	20.0	12.5	10.0	10.0	10.0	12.5	15.0	15.0	12.5	10.0
80°	2.5	5.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
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)