

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: P638686

Luminaire Tested: GWS-SA4F-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638686
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21749.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

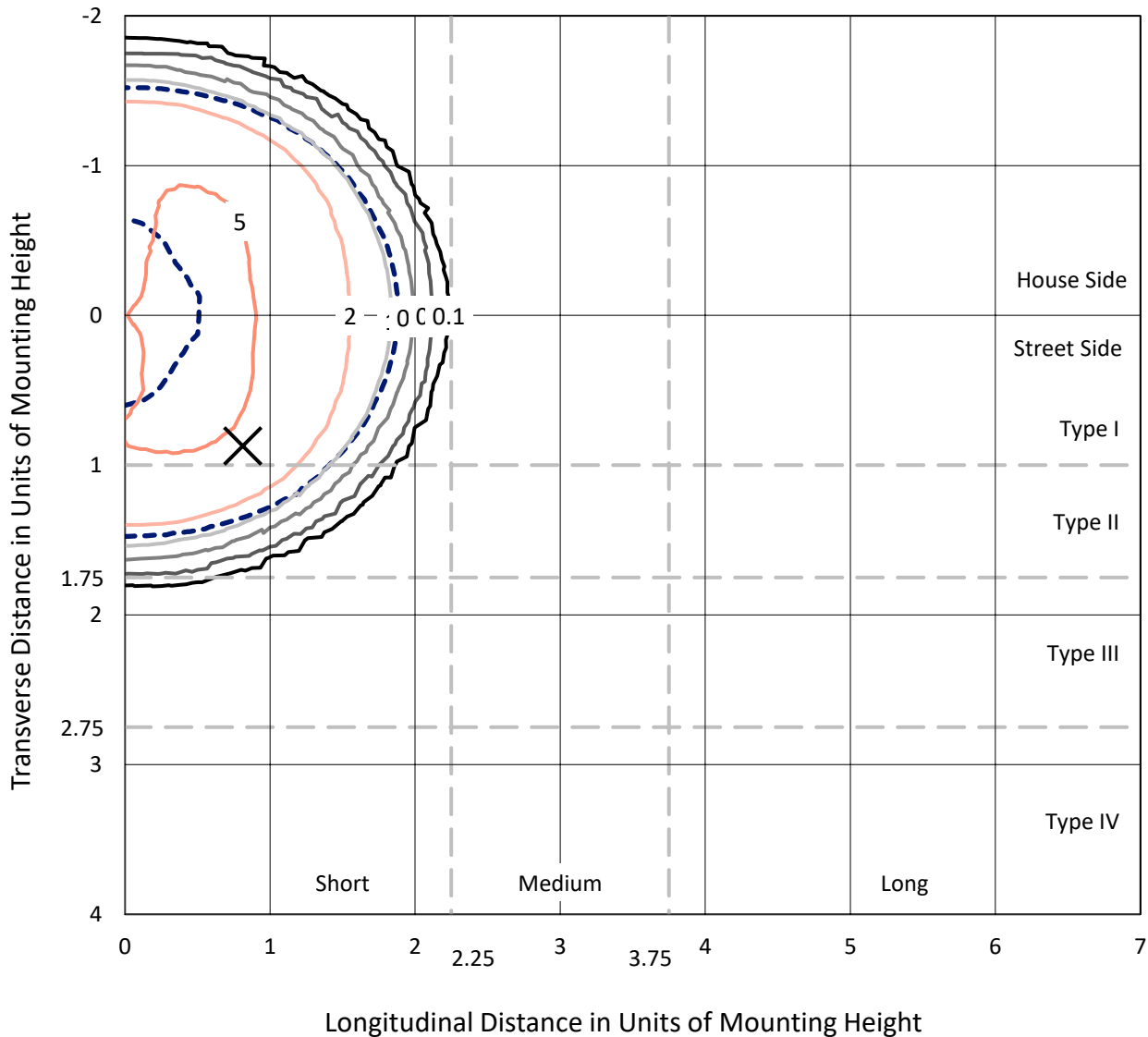
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638686
 CATALOG NUMBER: GWS-SA4F-735-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

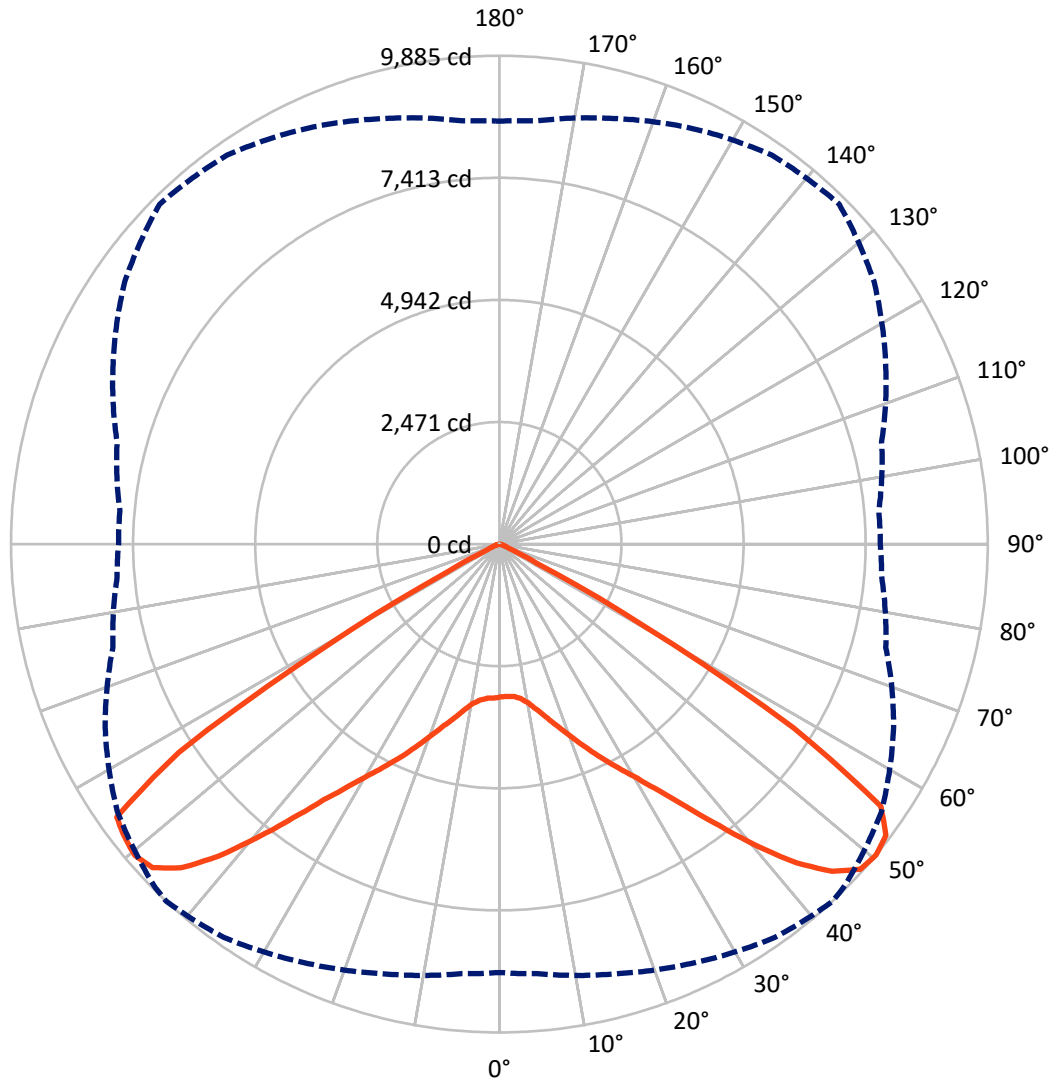
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P638686
CATALOG NUMBER: GWS-SA4F-735-U-RW-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638686

CATALOG NUMBER: GWS-SA4F-735-U-RW-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10874.7	0.0	10874.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10875.2	0.0	10875.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21749.9	0.0	21749.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.7	1.4
10°-20°	1048.4	4.8
20°-30°	2121.0	9.8
30°-40°	3935.3	18.1
40°-50°	6532.3	30.0
50°-60°	6666.5	30.7
60°-70°	1093.2	5.0
70°-80°	47.9	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°	21749.9	100.0
0°-180°	21749.9	100.0

Coefficient of Utilization



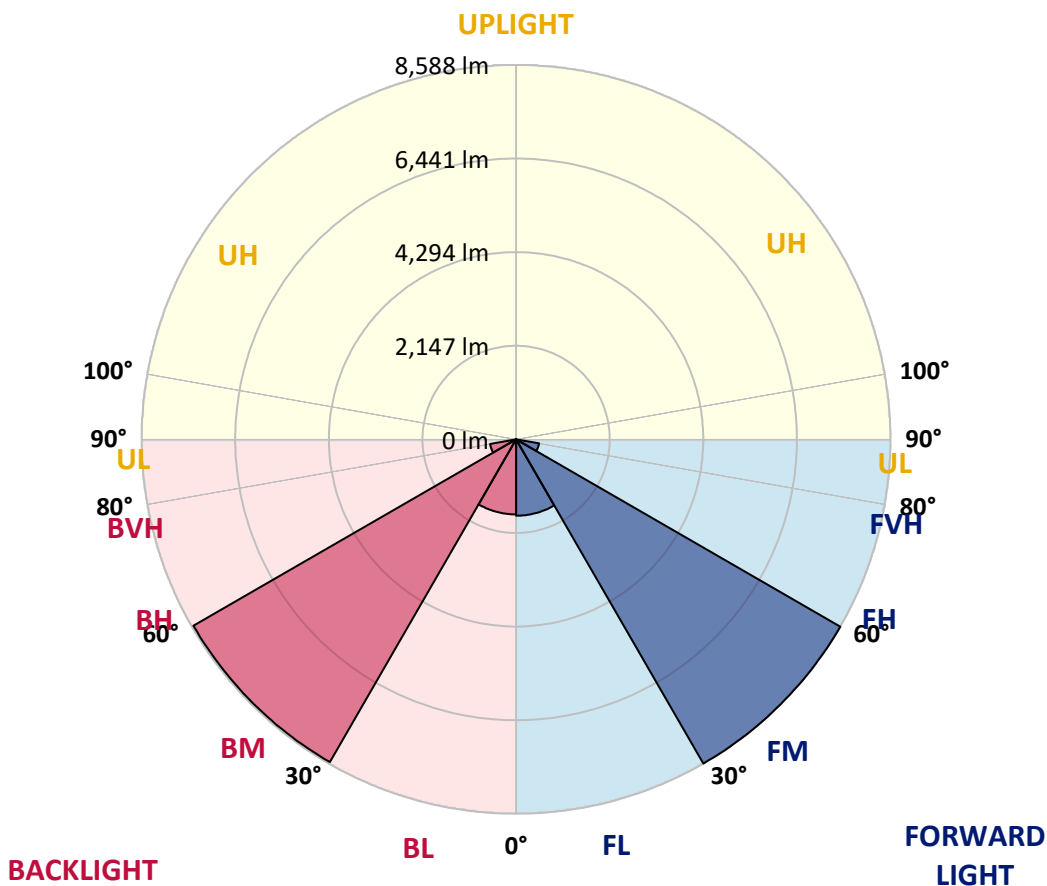
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.3	8.1			
FM (30°-60°)	8587.9	39.5			
FH (60°-80°)	534.8	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1721.8	7.9	B3/2500		
BM (30°-60°)	8546.2	39.3	B5		
BH (60°-80°)	606.3	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





REPORT NUMBER: P638686

CATALOG NUMBER: GWS-SA4F-735-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6
2.5°	3035.8	3043.1	3052.7	3062.3	3074.3	3086.4	3093.6	3115.2	3110.4	3129.7	3129.7
5°	3002.2	3009.4	3021.4	3043.1	3069.5	3096.0	3115.2	3158.5	3182.6	3221.1	3235.5
7.5°	3019.0	3028.6	3043.1	3076.7	3117.6	3158.5	3180.2	3249.9	3298.1	3370.2	3411.1
10°	3074.3	3084.0	3108.0	3165.7	3218.7	3276.4	3302.9	3391.9	3468.9	3567.5	3625.2
12.5°	3136.9	3148.9	3197.0	3283.6	3375.0	3452.0	3488.1	3586.7	3666.1	3776.8	3868.2
15°	3201.8	3221.1	3295.6	3423.1	3553.0	3656.5	3695.0	3800.8	3880.2	3998.1	4101.5
17.5°	3353.4	3375.0	3459.2	3596.3	3774.4	3894.6	3928.3	4039.0	4099.1	4178.5	4286.7
20°	3543.4	3584.3	3687.8	3853.7	4048.6	4164.1	4188.1	4296.4	4291.6	4325.2	4419.1
22.5°	3779.2	3808.0	3921.1	4118.4	4337.3	4464.8	4520.1	4565.8	4505.7	4476.8	4536.9
25°	4024.5	4058.2	4180.9	4397.4	4642.8	4789.5	4835.2	4871.3	4775.1	4666.8	4674.0
27.5°	4342.1	4366.1	4486.4	4717.3	4962.7	5128.7	5169.6	5232.1	5104.6	4931.4	4883.3
30°	4719.8	4743.8	4871.3	5114.3	5357.2	5499.2	5561.7	5638.7	5499.2	5282.7	5227.3
32.5°	5162.4	5186.4	5350.0	5600.2	5799.9	5953.8	6014.0	6095.7	5985.1	5742.1	5679.6
35°	5691.6	5706.0	5898.5	6170.3	6382.0	6531.2	6572.1	6668.3	6545.6	6302.6	6268.9
37.5°	6305.0	6321.9	6531.2	6846.3	7062.8	7228.8	7293.7	7320.2	7171.0	6899.2	6872.7
40°	6978.6	7033.9	7238.4	7577.6	7820.5	8029.8	8087.6	7998.6	7789.3	7418.8	7370.7
42.5°	7681.0	7729.1	7957.7	8325.7	8607.2	8821.3	8823.7	8631.2	8275.2	7762.8	7690.6
45°	8265.6	8284.8	8580.7	8951.2	9297.6	9449.1	9463.6	9114.8	8578.3	7962.5	7808.5
47.5°	8667.3	8698.6	8956.0	9312.0	9694.5	9831.6	9802.7	9367.3	8722.6	8092.4	7837.4
50°	8672.1	8725.0	9004.1	9348.1	9718.6	9884.5	9843.6	9439.5	8804.4	8097.2	7767.6
52.5°	7904.7	7991.3	8446.0	8944.0	9511.7	9795.5	9805.2	9533.3	8773.2	8020.2	7705.1
55°	5963.4	6057.3	6629.8	7479.0	8575.9	9367.3	9504.5	9422.7	8737.1	8053.9	7815.7
57.5°	3156.1	3084.0	3401.5	4243.4	5621.8	7021.9	7423.6	8077.9	8335.3	8094.8	8020.2
60°	688.0	733.7	976.7	1315.9	2193.9	3302.9	3695.0	4816.0	6148.7	6740.4	7168.6
62.5°	295.9	291.1	303.1	344.0	502.8	837.1	1022.4	1669.5	2634.1	3618.0	4284.3
65°	243.0	245.4	255.0	255.0	238.2	240.6	252.6	382.5	615.8	863.6	1159.5
67.5°	182.8	185.2	202.1	206.9	194.9	173.2	170.8	144.3	151.6	190.0	197.3
70°	115.5	115.5	125.1	129.9	129.9	120.3	117.9	103.4	101.0	115.5	129.9
72.5°	62.5	62.5	67.4	69.8	67.4	65.0	65.0	62.5	60.1	69.8	89.0
75°	26.5	26.5	28.9	28.9	26.5	26.5	26.5	26.5	26.5	31.3	48.1
77.5°	4.8	7.2	9.6	7.2	4.8	4.8	4.8	7.2	7.2	9.6	14.4
80°	2.4	2.4	4.8	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



REPORT NUMBER: P638686

CATALOG NUMBER: GWS-SA4F-735-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6	3093.6
2.5°	3146.5	3120.0	3129.7	3134.5	3127.3	3122.4	3096.0	3088.8	3076.7	3057.5	3052.7
5°	3252.3	3230.7	3228.3	3213.9	3180.2	3139.3	3088.8	3067.1	3043.1	3019.0	3014.2
7.5°	3430.4	3403.9	3387.1	3338.9	3262.0	3197.0	3112.8	3067.1	3035.8	3004.6	2997.4
10°	3658.9	3627.6	3579.5	3490.5	3387.1	3293.2	3194.6	3134.5	3086.4	3043.1	3040.7
12.5°	3901.9	3868.2	3781.6	3668.5	3543.4	3456.8	3331.7	3247.5	3175.4	3110.4	3103.2
15°	4156.8	4116.0	3998.1	3863.4	3747.9	3658.9	3521.8	3387.1	3276.4	3182.6	3173.0
17.5°	4351.7	4301.2	4161.7	4060.6	3966.8	3875.4	3721.4	3543.4	3396.7	3283.6	3257.2
20°	4474.4	4426.3	4294.0	4238.6	4195.3	4130.4	3947.6	3762.3	3598.8	3459.2	3435.2
22.5°	4592.3	4534.5	4419.1	4419.1	4452.7	4426.3	4229.0	4017.3	3824.9	3663.7	3627.6
25°	4724.6	4678.9	4597.1	4664.4	4748.6	4746.2	4544.1	4279.5	4058.2	3877.8	3841.7
27.5°	4917.0	4871.3	4842.4	4969.9	5075.8	5068.6	4847.2	4561.0	4327.6	4149.6	4116.0
30°	5256.2	5212.9	5181.6	5335.6	5470.3	5419.8	5176.8	4900.2	4664.4	4462.4	4438.3
32.5°	5708.4	5662.7	5621.8	5775.8	5896.1	5831.1	5600.2	5340.4	5068.6	4871.3	4823.2
35°	6302.6	6206.4	6165.5	6348.3	6398.8	6326.7	6105.4	5876.8	5588.2	5362.0	5330.8
37.5°	6916.1	6803.0	6774.1	6932.9	7014.7	6988.2	6728.4	6490.3	6177.5	5927.4	5891.3
40°	7440.5	7337.0	7286.5	7534.3	7719.5	7736.4	7503.0	7211.9	6843.9	6584.1	6519.1
42.5°	7748.4	7659.4	7647.3	8032.2	8335.3	8551.8	8272.8	7972.1	7584.8	7291.3	7238.4
45°	7818.1	7760.4	7861.4	8366.6	8838.1	9232.6	8994.5	8676.9	8258.4	7948.0	7897.5
47.5°	7810.9	7791.7	7972.1	8539.8	9136.4	9622.3	9504.5	9146.0	8741.9	8417.1	8369.0
50°	7707.5	7709.9	8010.6	8626.4	9256.7	9728.2	9610.3	9278.3	8917.5	8597.6	8559.1
52.5°	7666.6	7652.2	7938.4	8600.0	9379.4	9680.1	9415.5	9042.6	8640.9	8246.3	8188.6
55°	7810.9	7774.8	7948.0	8578.3	9393.8	9653.6	8956.0	8147.7	7325.0	6858.3	6819.8
57.5°	8027.4	7988.9	8070.7	8419.5	8640.9	8027.4	6591.3	5287.5	4440.7	4082.3	3925.9
60°	7168.6	7142.2	7079.6	6658.7	5710.9	4308.4	2934.8	1871.5	1344.7	1087.3	1087.3
62.5°	4447.9	4411.8	4072.7	3026.2	2198.7	1272.6	700.0	437.8	332.0	310.3	307.9
65°	1248.5	1241.3	1027.2	726.5	461.9	286.3	252.6	257.4	252.6	245.4	243.0
67.5°	187.6	206.9	206.9	168.4	161.2	180.4	211.7	226.1	214.1	202.1	197.3
70°	120.3	129.9	125.1	108.3	115.5	134.7	151.6	154.0	146.7	134.7	132.3
72.5°	84.2	93.8	77.0	69.8	72.2	79.4	86.6	86.6	84.2	79.4	74.6
75°	50.5	50.5	36.1	33.7	33.7	36.1	36.1	40.9	40.9	38.5	36.1
77.5°	16.8	19.2	12.0	9.6	9.6	9.6	12.0	14.4	14.4	12.0	9.6
80°	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8	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)