

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: P640281

Luminaire Tested: GWS-SA5D-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640281  
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-SA5D-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**

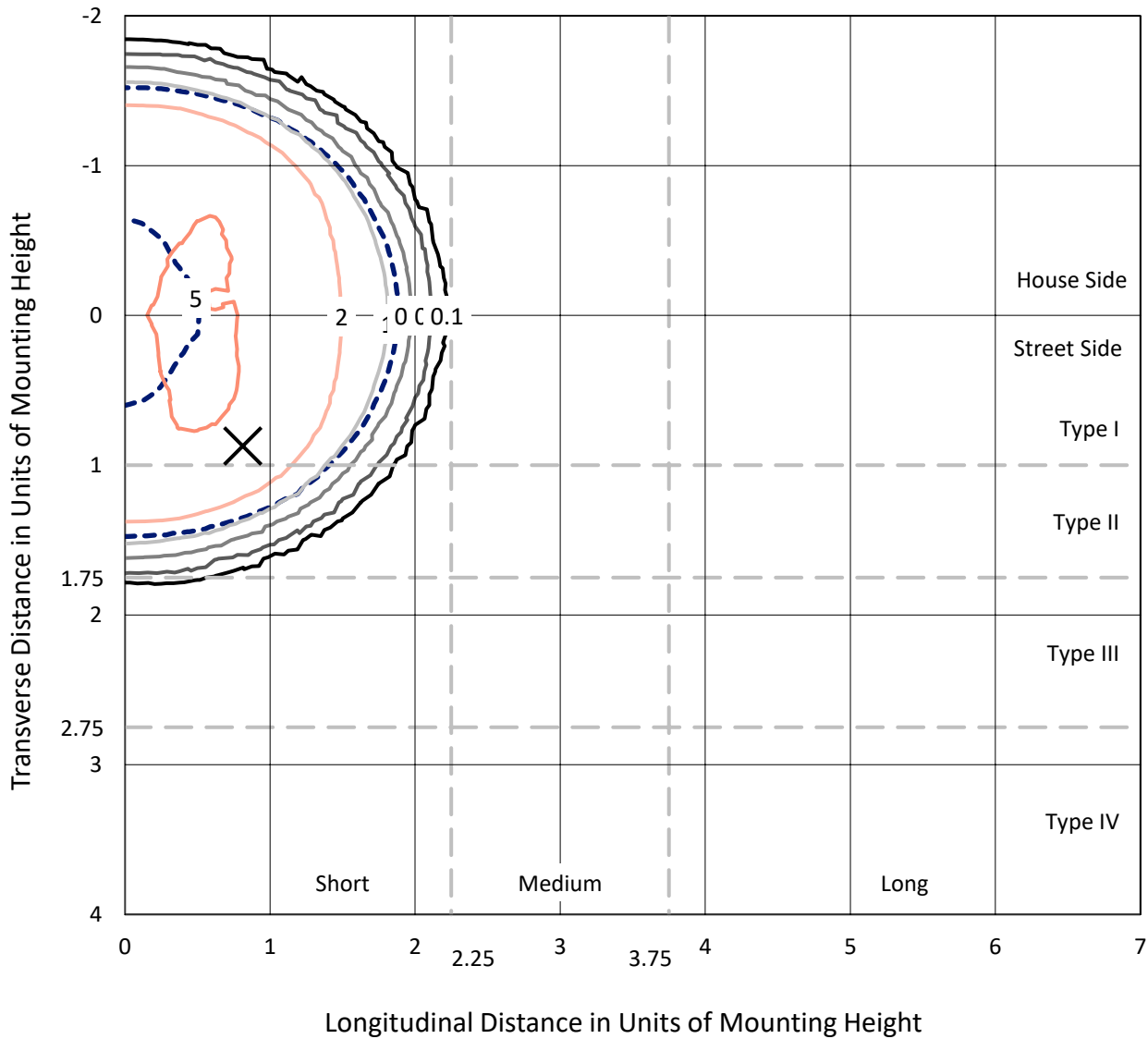
Lumens per Lamp: N/A  
Luminaire Lumens: 19916.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

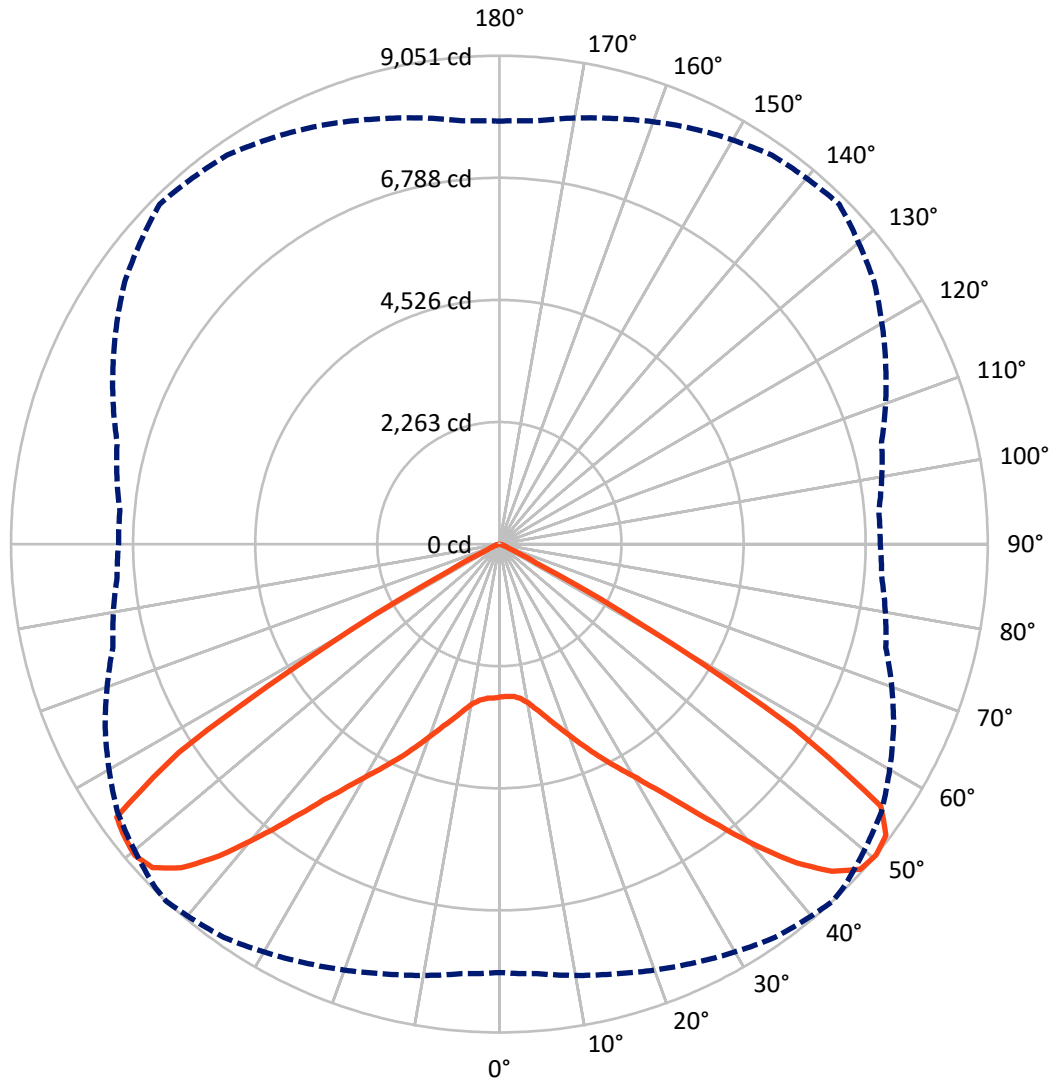
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	9957.9	0.0	9957.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9958.4	0.0	9958.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19916.4	0.0	19916.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	1.4
10°-20°	960.0	4.8
20°-30°	1942.2	9.8
30°-40°	3603.5	18.1
40°-50°	5981.7	30.0
50°-60°	6104.5	30.7
60°-70°	1001.1	5.0
70°-80°	43.8	0.2
80°-90°	0.6	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°	19916.4	100.0
0°-180°	19916.4	100.0

**Coefficient of Utilization**



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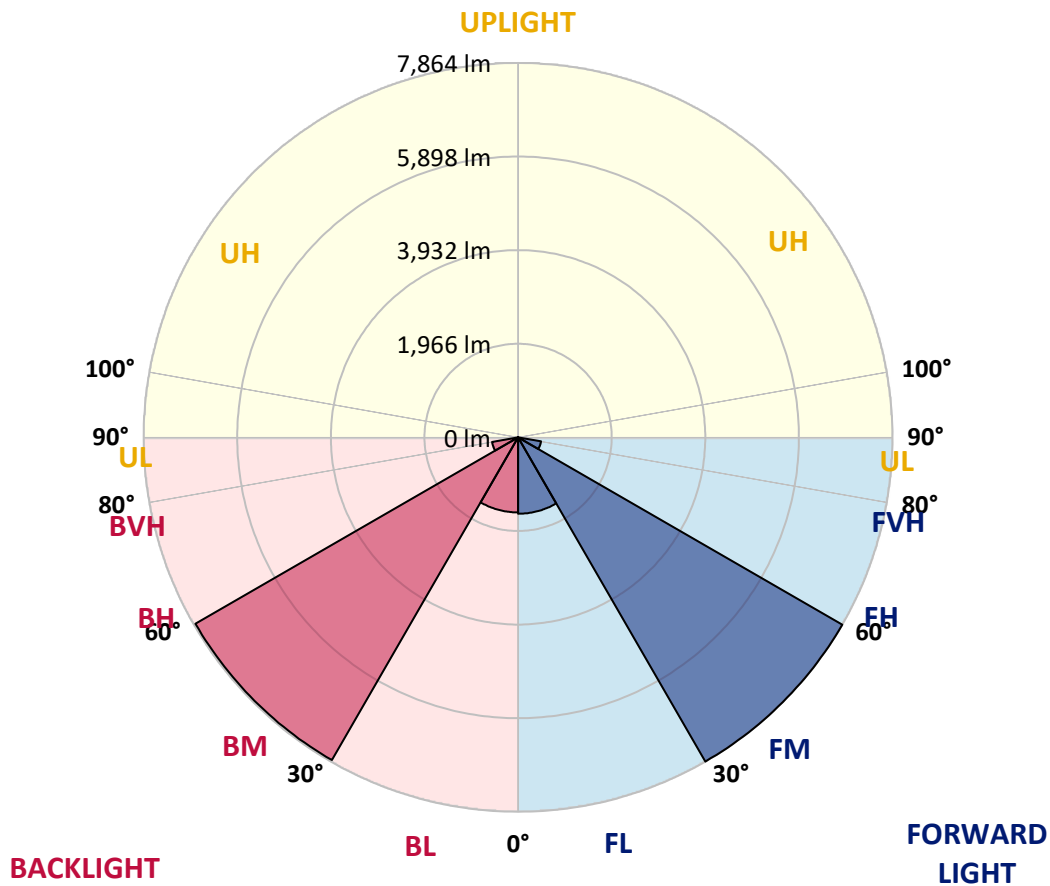
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1604.5	8.1			
FM (30°-60°)	7864.0	39.5			
FH (60°-80°)	489.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1576.7	7.9	B3/2500		
BM (30°-60°)	7825.7	39.3	B4/8500		
BH (60°-80°)	555.2	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: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8
2.5°	2779.9	2786.5	2795.3	2804.2	2815.2	2826.2	2832.8	2852.6	2848.2	2865.8	2865.8
5°	2749.1	2755.7	2766.7	2786.5	2810.8	2835.0	2852.6	2892.3	2914.3	2949.5	2962.8
7.5°	2764.5	2773.3	2786.5	2817.4	2854.8	2892.3	2912.1	2976.0	3020.0	3086.1	3123.6
10°	2815.2	2824.0	2846.0	2898.9	2947.3	3000.2	3024.4	3105.9	3176.4	3266.7	3319.6
12.5°	2872.4	2883.5	2927.5	3006.8	3090.5	3161.0	3194.1	3284.4	3357.1	3458.4	3542.1
15°	2931.9	2949.5	3017.8	3134.6	3253.5	3348.2	3383.5	3480.4	3553.1	3661.0	3755.8
17.5°	3070.7	3090.5	3167.6	3293.2	3456.2	3566.3	3597.2	3698.5	3753.6	3826.3	3925.4
20°	3244.7	3282.2	3376.9	3528.9	3707.3	3813.0	3835.1	3934.2	3929.8	3960.6	4046.5
22.5°	3460.6	3487.0	3590.6	3771.2	3971.6	4088.4	4139.0	4180.9	4125.8	4099.4	4154.5
25°	3685.3	3716.1	3828.5	4026.7	4251.4	4385.8	4427.6	4460.7	4372.5	4273.4	4280.0
27.5°	3976.0	3998.1	4108.2	4319.7	4544.4	4696.4	4733.8	4791.1	4674.3	4515.7	4471.7
30°	4321.9	4343.9	4460.7	4683.1	4905.6	5035.6	5092.9	5163.3	5035.6	4837.3	4786.7
32.5°	4727.2	4749.2	4899.0	5128.1	5310.9	5451.9	5507.0	5581.9	5480.6	5258.1	5200.8
35°	5211.8	5225.0	5401.3	5650.2	5844.0	5980.6	6018.0	6106.1	5993.8	5771.3	5740.5
37.5°	5773.5	5788.9	5980.6	6269.2	6467.4	6619.4	6678.9	6703.1	6566.5	6317.6	6293.4
40°	6390.3	6441.0	6628.2	6938.8	7161.3	7352.9	7405.8	7324.3	7132.6	6793.4	6749.4
42.5°	7033.5	7077.6	7286.8	7623.9	7881.6	8077.6	8079.8	7903.6	7577.6	7108.4	7042.3
45°	7568.8	7586.4	7857.4	8196.6	8513.8	8652.6	8665.8	8346.4	7855.2	7291.2	7150.3
47.5°	7936.7	7965.3	8201.0	8527.0	8877.3	9002.8	8976.4	8577.7	7987.3	7410.2	7176.7
50°	7941.1	7989.5	8245.1	8560.1	8899.3	9051.3	9013.8	8643.8	8062.2	7414.6	7112.8
52.5°	7238.4	7317.7	7734.0	8190.0	8709.8	8969.8	8978.6	8729.7	8033.6	7344.1	7055.5
55°	5460.7	5546.6	6070.9	6848.5	7853.0	8577.7	8703.2	8628.3	8000.5	7375.0	7156.9
57.5°	2890.1	2824.0	3114.8	3885.7	5147.9	6430.0	6797.8	7397.0	7632.7	7412.4	7344.1
60°	630.0	671.9	894.3	1204.9	2008.9	3024.4	3383.5	4410.0	5630.3	6172.2	6564.3
62.5°	270.9	266.5	277.6	315.0	460.4	766.6	936.2	1528.7	2412.1	3313.0	3923.2
65°	222.5	224.7	233.5	233.5	218.1	220.3	231.3	350.2	563.9	790.8	1061.7
67.5°	167.4	169.6	185.0	189.4	178.4	158.6	156.4	132.2	138.8	174.0	180.6
70°	105.7	105.7	114.5	119.0	119.0	110.1	107.9	94.7	92.5	105.7	119.0
72.5°	57.3	57.3	61.7	63.9	61.7	59.5	59.5	57.3	55.1	63.9	81.5
75°	24.2	24.2	26.4	26.4	24.2	24.2	24.2	24.2	24.2	28.6	44.1
77.5°	4.4	6.6	8.8	6.6	4.4	4.4	4.4	6.6	6.6	8.8	13.2
80°	2.2	2.2	4.4	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8	2832.8
2.5°	2881.3	2857.0	2865.8	2870.2	2863.6	2859.2	2835.0	2828.4	2817.4	2799.8	2795.3
5°	2978.2	2958.4	2956.1	2942.9	2912.1	2874.6	2828.4	2808.6	2786.5	2764.5	2760.1
7.5°	3141.2	3117.0	3101.5	3057.5	2987.0	2927.5	2850.4	2808.6	2779.9	2751.3	2744.7
10°	3350.4	3321.8	3277.8	3196.3	3101.5	3015.6	2925.3	2870.2	2826.2	2786.5	2784.3
12.5°	3572.9	3542.1	3462.8	3359.3	3244.7	3165.4	3050.9	2973.8	2907.7	2848.2	2841.6
15°	3806.4	3769.0	3661.0	3537.7	3432.0	3350.4	3224.9	3101.5	3000.2	2914.3	2905.5
17.5°	3984.9	3938.6	3810.8	3718.3	3632.4	3548.7	3407.7	3244.7	3110.3	3006.8	2982.6
20°	4097.2	4053.1	3932.0	3881.3	3841.7	3782.2	3614.8	3445.2	3295.4	3167.6	3145.6
22.5°	4205.1	4152.3	4046.5	4046.5	4077.4	4053.1	3872.5	3678.7	3502.4	3354.9	3321.8
25°	4326.3	4284.4	4209.5	4271.2	4348.3	4346.1	4161.1	3918.8	3716.1	3550.9	3517.9
27.5°	4502.5	4460.7	4434.2	4551.0	4647.9	4641.3	4438.6	4176.5	3962.8	3799.8	3769.0
30°	4813.1	4773.5	4744.8	4885.8	5009.2	4962.9	4740.4	4487.1	4271.2	4086.2	4064.2
32.5°	5227.2	5185.4	5147.9	5288.9	5399.0	5339.6	5128.1	4890.2	4641.3	4460.7	4416.6
35°	5771.3	5683.2	5645.8	5813.2	5859.4	5793.3	5590.7	5381.4	5117.1	4910.0	4881.4
37.5°	6333.0	6229.5	6203.1	6348.5	6423.3	6399.1	6161.2	5943.1	5656.8	5427.7	5394.6
40°	6813.2	6718.5	6672.3	6899.2	7068.8	7084.2	6870.5	6604.0	6266.9	6029.0	5969.6
42.5°	7095.2	7013.7	7002.7	7355.1	7632.7	7830.9	7575.4	7300.1	6945.4	6676.7	6628.2
45°	7159.1	7106.2	7198.7	7661.3	8093.1	8454.3	8236.2	7945.5	7562.2	7278.0	7231.8
47.5°	7152.5	7134.8	7300.1	7819.9	8366.2	8811.2	8703.2	8375.0	8005.0	7707.6	7663.5
50°	7057.8	7060.0	7335.3	7899.2	8476.4	8908.1	8800.2	8496.2	8165.8	7872.8	7837.5
52.5°	7020.3	7007.1	7269.2	7875.0	8588.7	8864.0	8621.7	8280.3	7912.4	7551.2	7498.3
55°	7152.5	7119.4	7278.0	7855.2	8601.9	8839.8	8201.0	7460.9	6707.5	6280.2	6244.9
57.5°	7350.7	7315.5	7390.4	7709.8	7912.4	7350.7	6035.7	4841.7	4066.4	3738.1	3595.0
60°	6564.3	6540.1	6482.8	6097.3	5229.4	3945.2	2687.4	1713.8	1231.4	995.7	995.7
62.5°	4073.0	4039.9	3729.3	2771.1	2013.4	1165.3	641.0	400.9	304.0	284.2	282.0
65°	1143.3	1136.6	940.6	665.2	422.9	262.1	231.3	235.7	231.3	224.7	222.5
67.5°	171.8	189.4	189.4	154.2	147.6	165.2	193.8	207.1	196.0	185.0	180.6
70°	110.1	119.0	114.5	99.1	105.7	123.4	138.8	141.0	134.4	123.4	121.2
72.5°	77.1	85.9	70.5	63.9	66.1	72.7	79.3	79.3	77.1	72.7	68.3
75°	46.3	46.3	33.0	30.8	30.8	33.0	33.0	37.4	37.4	35.2	33.0
77.5°	15.4	17.6	11.0	8.8	8.8	8.8	11.0	13.2	13.2	11.0	8.8
80°	2.2	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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)