

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: P638301

Luminaire Tested: GWS-SA4E-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638301  
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-SA4E-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**

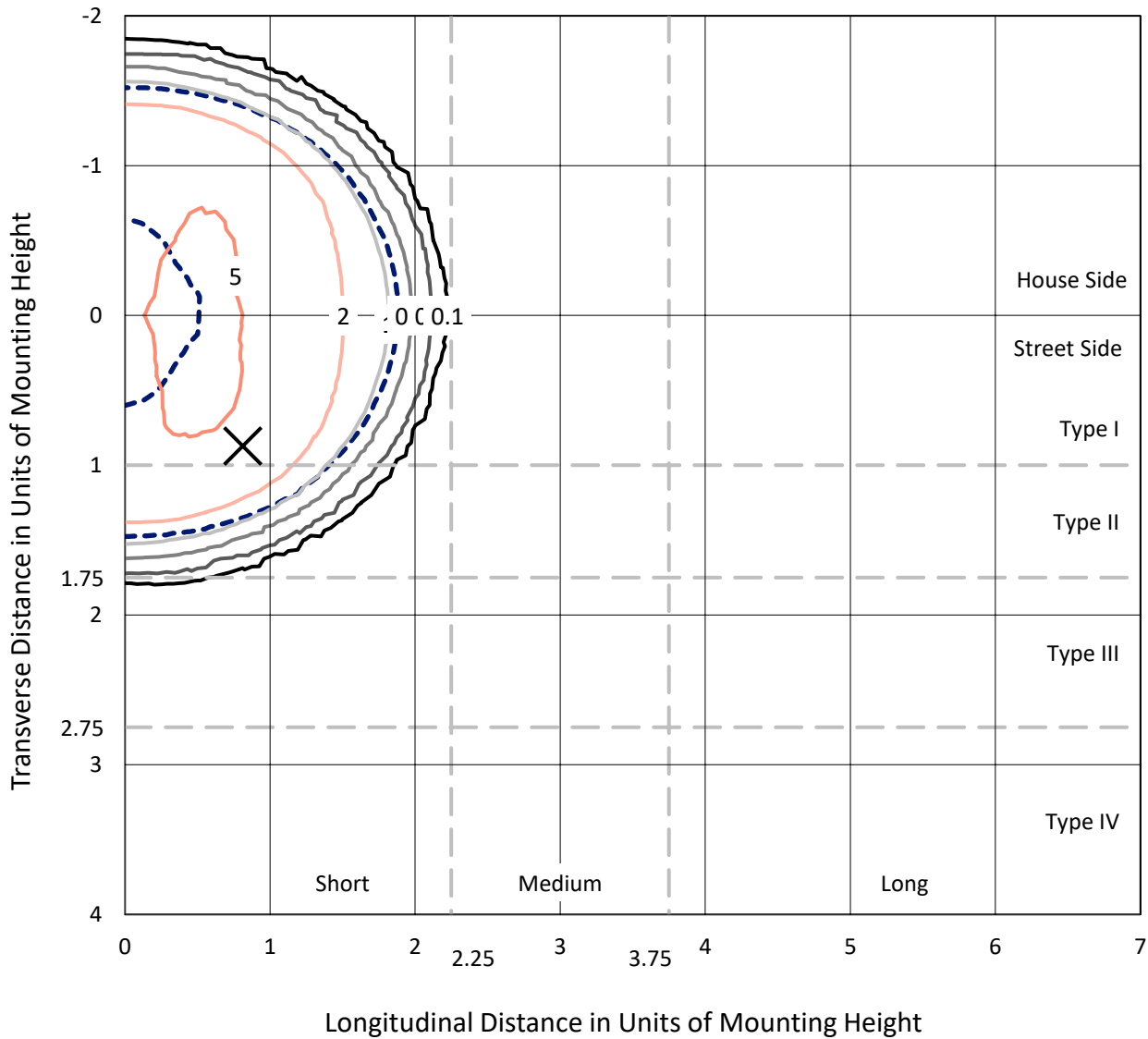
Lumens per Lamp: N/A  
Luminaire Lumens: 20288.8 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

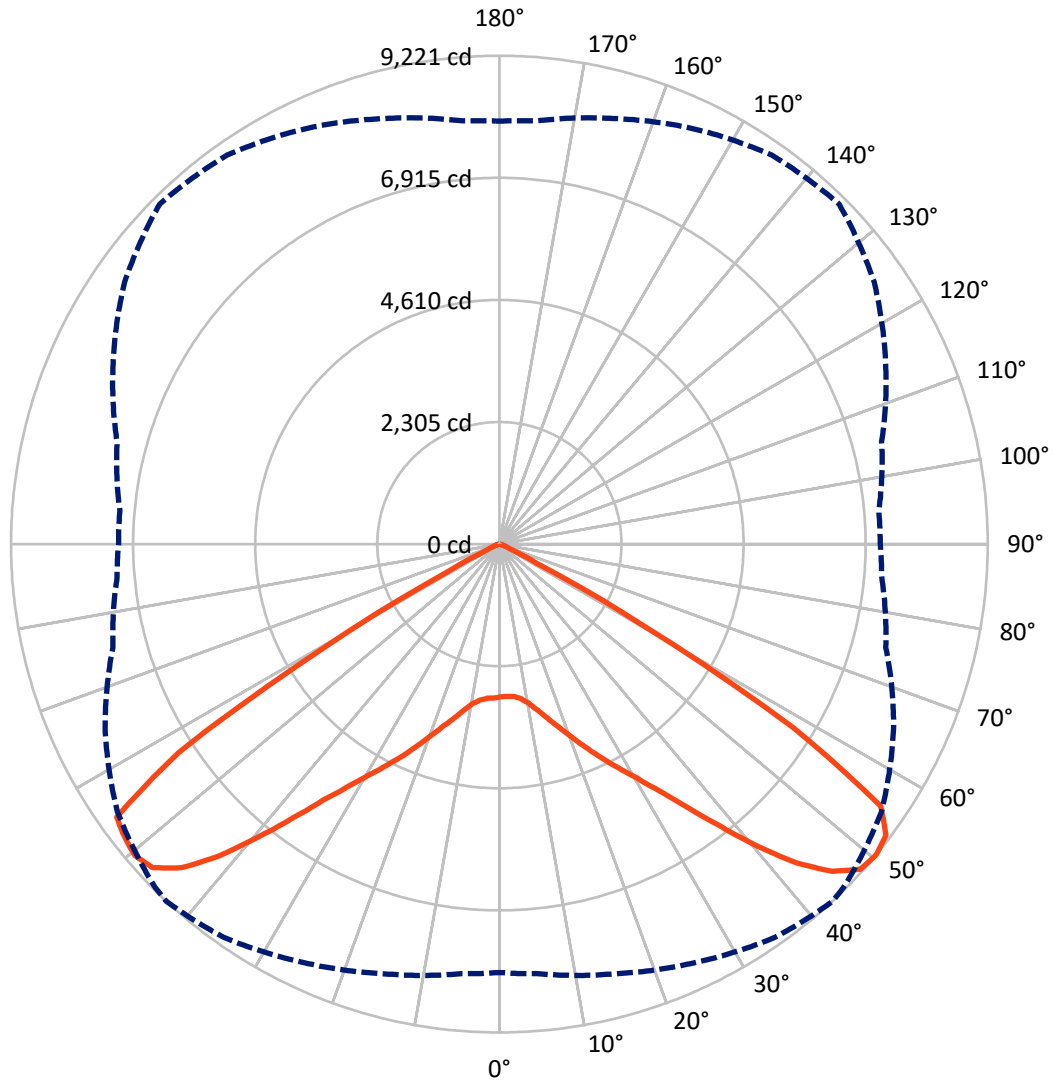
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
<b>House Side</b>	Lumens	10144.1	0.0	10144.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10144.6	0.0	10144.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20288.8	0.0	20288.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.2	1.4
10°-20°	977.9	4.8
20°-30°	1978.6	9.8
30°-40°	3670.9	18.1
40°-50°	6093.5	30.0
50°-60°	6218.7	30.7
60°-70°	1019.8	5.0
70°-80°	44.6	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°	20288.8	100.0
0°-180°	20288.8	100.0

**Coefficient of Utilization**



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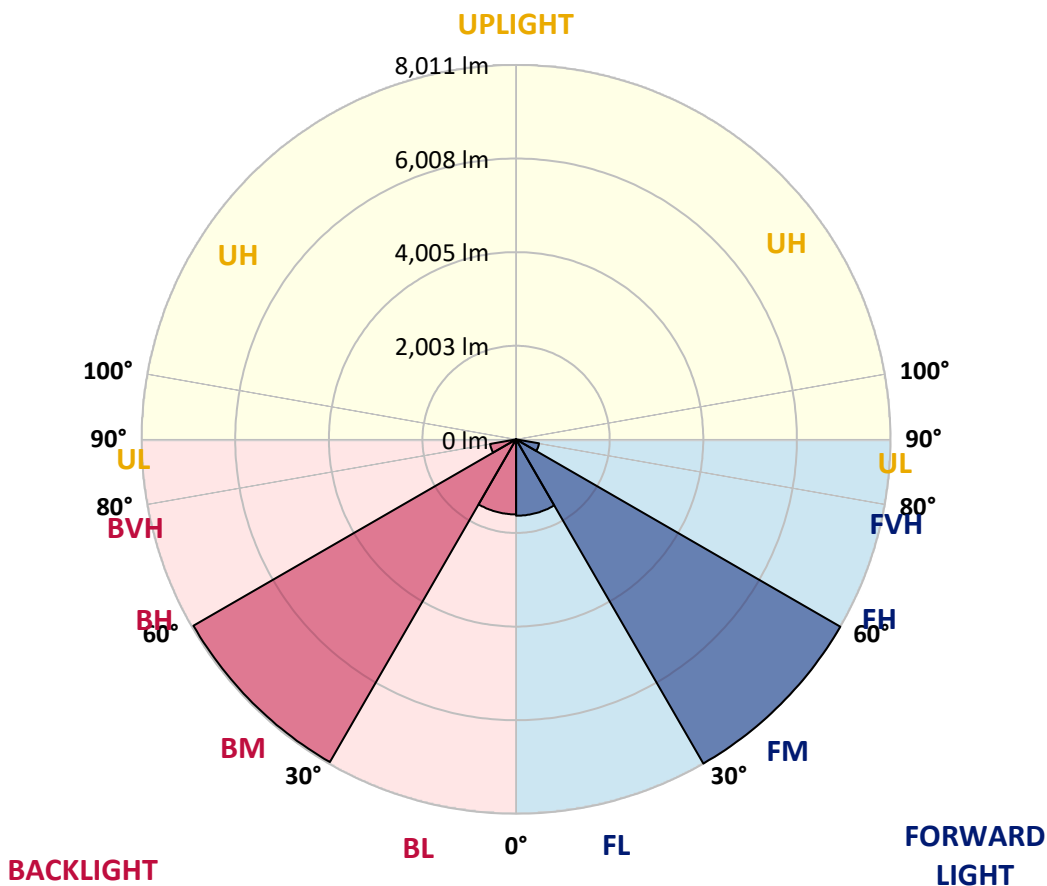
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.6	8.1			
FM (30°-60°)	8011.0	39.5			
FH (60°-80°)	498.9	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1606.1	7.9	B3/2500		
BM (30°-60°)	7972.1	39.3	B4/8500		
BH (60°-80°)	565.6	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°	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8
2.5°	2831.9	2838.6	2847.6	2856.6	2867.8	2879.0	2885.8	2906.0	2901.5	2919.4	2919.4
5°	2800.5	2807.2	2818.4	2838.6	2863.3	2888.0	2906.0	2946.3	2968.8	3004.7	3018.2
7.5°	2816.2	2825.2	2838.6	2870.1	2908.2	2946.3	2966.5	3031.6	3076.5	3143.8	3182.0
10°	2867.8	2876.8	2899.2	2953.1	3002.4	3056.3	3081.0	3164.0	3235.8	3327.8	3381.7
12.5°	2926.2	2937.4	2982.3	3063.0	3148.3	3220.1	3253.8	3345.8	3419.8	3523.1	3608.3
15°	2986.7	3004.7	3074.3	3193.2	3314.4	3410.9	3446.8	3545.5	3619.5	3729.5	3826.0
17.5°	3128.1	3148.3	3226.8	3354.8	3520.8	3633.0	3664.4	3767.6	3823.7	3897.8	3998.8
20°	3305.4	3343.5	3440.0	3594.9	3776.6	3884.3	3906.8	4007.8	4003.3	4034.7	4122.2
22.5°	3525.3	3552.2	3657.7	3841.7	4045.9	4164.8	4216.4	4259.1	4203.0	4176.1	4232.2
25°	3754.2	3785.6	3900.0	4102.0	4330.9	4467.8	4510.4	4544.1	4454.3	4353.3	4360.1
27.5°	4050.4	4072.8	4185.0	4400.4	4629.3	4784.2	4822.3	4880.7	4761.7	4600.2	4555.3
30°	4402.7	4425.1	4544.1	4770.7	4997.3	5129.7	5188.1	5259.9	5129.7	4927.8	4876.2
32.5°	4815.6	4838.0	4990.6	5224.0	5410.2	5553.9	5610.0	5686.3	5583.0	5356.4	5298.0
35°	5309.3	5322.7	5502.2	5755.8	5953.3	6092.4	6130.6	6220.3	6105.9	5879.2	5847.8
37.5°	5881.5	5897.2	6092.4	6386.4	6588.3	6743.2	6803.8	6828.4	6689.3	6435.7	6411.1
40°	6509.8	6561.4	6752.1	7068.5	7295.2	7490.4	7544.3	7461.2	7266.0	6920.4	6875.6
42.5°	7165.0	7209.9	7423.1	7766.4	8029.0	8228.7	8230.9	8051.4	7719.3	7241.3	7174.0
45°	7710.3	7728.3	8004.3	8349.9	8673.0	8814.4	8827.8	8502.4	8002.0	7427.6	7284.0
47.5°	8085.1	8114.2	8354.3	8686.5	9043.2	9171.2	9144.2	8738.1	8136.7	7548.8	7310.9
50°	8089.6	8138.9	8399.2	8720.1	9065.7	9220.5	9182.4	8805.4	8213.0	7553.2	7245.8
52.5°	7373.7	7454.5	7878.6	8343.1	8872.7	9137.5	9146.5	8892.9	8183.8	7481.4	7187.5
55°	5562.8	5650.3	6184.4	6976.5	7999.8	8738.1	8866.0	8789.7	8150.1	7512.9	7290.7
57.5°	2944.1	2876.8	3173.0	3958.4	5244.2	6550.2	6924.9	7535.3	7775.4	7551.0	7481.4
60°	641.8	684.4	911.1	1227.5	2046.5	3081.0	3446.8	4492.5	5735.6	6287.6	6687.1
62.5°	276.0	271.5	282.7	320.9	469.0	780.9	953.7	1557.3	2457.2	3374.9	3996.5
65°	226.6	228.9	237.9	237.9	222.2	224.4	235.6	356.8	574.5	805.6	1081.6
67.5°	170.5	172.8	188.5	193.0	181.8	161.6	159.3	134.6	141.4	177.3	184.0
70°	107.7	107.7	116.7	121.2	121.2	112.2	110.0	96.5	94.2	107.7	121.2
72.5°	58.3	58.3	62.8	65.1	62.8	60.6	60.6	58.3	56.1	65.1	83.0
75°	24.7	24.7	26.9	26.9	24.7	24.7	24.7	24.7	24.7	29.2	44.9
77.5°	4.5	6.7	9.0	6.7	4.5	4.5	4.5	6.7	6.7	9.0	13.5
80°	2.2	2.2	4.5	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°	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8
2.5°	2935.1	2910.4	2919.4	2923.9	2917.2	2912.7	2888.0	2881.3	2870.1	2852.1	2847.6
5°	3033.9	3013.7	3011.4	2998.0	2966.5	2928.4	2881.3	2861.1	2838.6	2816.2	2811.7
7.5°	3199.9	3175.2	3159.5	3114.6	3042.8	2982.3	2903.7	2861.1	2831.9	2802.7	2796.0
10°	3413.1	3383.9	3339.0	3256.0	3159.5	3072.0	2980.0	2923.9	2879.0	2838.6	2836.4
12.5°	3639.7	3608.3	3527.5	3422.1	3305.4	3224.6	3107.9	3029.4	2962.1	2901.5	2894.7
15°	3877.6	3839.5	3729.5	3603.8	3496.1	3413.1	3285.2	3159.5	3056.3	2968.8	2959.8
17.5°	4059.4	4012.2	3882.1	3787.8	3700.3	3615.1	3471.4	3305.4	3168.5	3063.0	3038.4
20°	4173.8	4128.9	4005.5	3953.9	3913.5	3852.9	3682.4	3509.6	3357.0	3226.8	3204.4
22.5°	4283.8	4229.9	4122.2	4122.2	4153.6	4128.9	3944.9	3747.5	3567.9	3417.6	3383.9
25°	4407.2	4364.5	4288.2	4351.1	4429.6	4427.4	4238.9	3992.0	3785.6	3617.3	3583.6
27.5°	4586.7	4544.1	4517.1	4636.1	4734.8	4728.1	4521.6	4254.6	4036.9	3870.9	3839.5
30°	4903.1	4862.7	4833.5	4977.2	5102.8	5055.7	4829.0	4571.0	4351.1	4162.6	4140.1
32.5°	5325.0	5282.3	5244.2	5387.8	5500.0	5439.4	5224.0	4981.6	4728.1	4544.1	4499.2
35°	5879.2	5789.5	5751.3	5921.9	5969.0	5901.7	5695.2	5482.0	5212.8	5001.8	4972.7
37.5°	6451.4	6346.0	6319.1	6467.2	6543.5	6518.8	6276.4	6054.3	5762.5	5529.2	5495.5
40°	6940.6	6844.1	6797.0	7028.2	7200.9	7216.6	6999.0	6727.5	6384.1	6141.8	6081.2
42.5°	7227.9	7144.8	7133.6	7492.7	7775.4	7977.4	7717.1	7436.6	7075.3	6801.5	6752.1
45°	7292.9	7239.1	7333.3	7804.6	8244.4	8612.4	8390.2	8094.0	7703.6	7414.1	7367.0
47.5°	7286.2	7268.3	7436.6	7966.1	8522.6	8975.9	8866.0	8531.6	8154.6	7851.7	7806.8
50°	7189.7	7192.0	7472.5	8046.9	8634.8	9074.7	8964.7	8655.0	8318.4	8020.0	7984.1
52.5°	7151.6	7138.1	7405.1	8022.2	8749.3	9029.8	8782.9	8435.1	8060.4	7692.4	7638.5
55°	7286.2	7252.5	7414.1	8002.0	8762.7	9005.1	8354.3	7600.4	6832.9	6397.6	6361.7
57.5°	7488.2	7452.3	7528.6	7853.9	8060.4	7488.2	6148.5	4932.3	4142.4	3808.0	3662.2
60°	6687.1	6662.4	6604.0	6211.3	5327.2	4019.0	2737.7	1745.8	1254.4	1014.3	1014.3
62.5°	4149.1	4115.5	3799.1	2822.9	2051.0	1187.1	653.0	408.4	309.7	289.5	287.2
65°	1164.6	1157.9	958.2	677.7	430.8	267.0	235.6	240.1	235.6	228.9	226.6
67.5°	175.0	193.0	193.0	157.1	150.3	168.3	197.5	210.9	199.7	188.5	184.0
70°	112.2	121.2	116.7	101.0	107.7	125.7	141.4	143.6	136.9	125.7	123.4
72.5°	78.5	87.5	71.8	65.1	67.3	74.1	80.8	80.8	78.5	74.1	69.6
75°	47.1	47.1	33.7	31.4	31.4	33.7	33.7	38.1	38.1	35.9	33.7
77.5°	15.7	18.0	11.2	9.0	9.0	9.0	11.2	13.5	13.5	11.2	9.0
80°	2.2	4.5	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	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)