

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: P642921

Luminaire Tested: GWS-SA6D-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642921  
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-SA6D-830-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

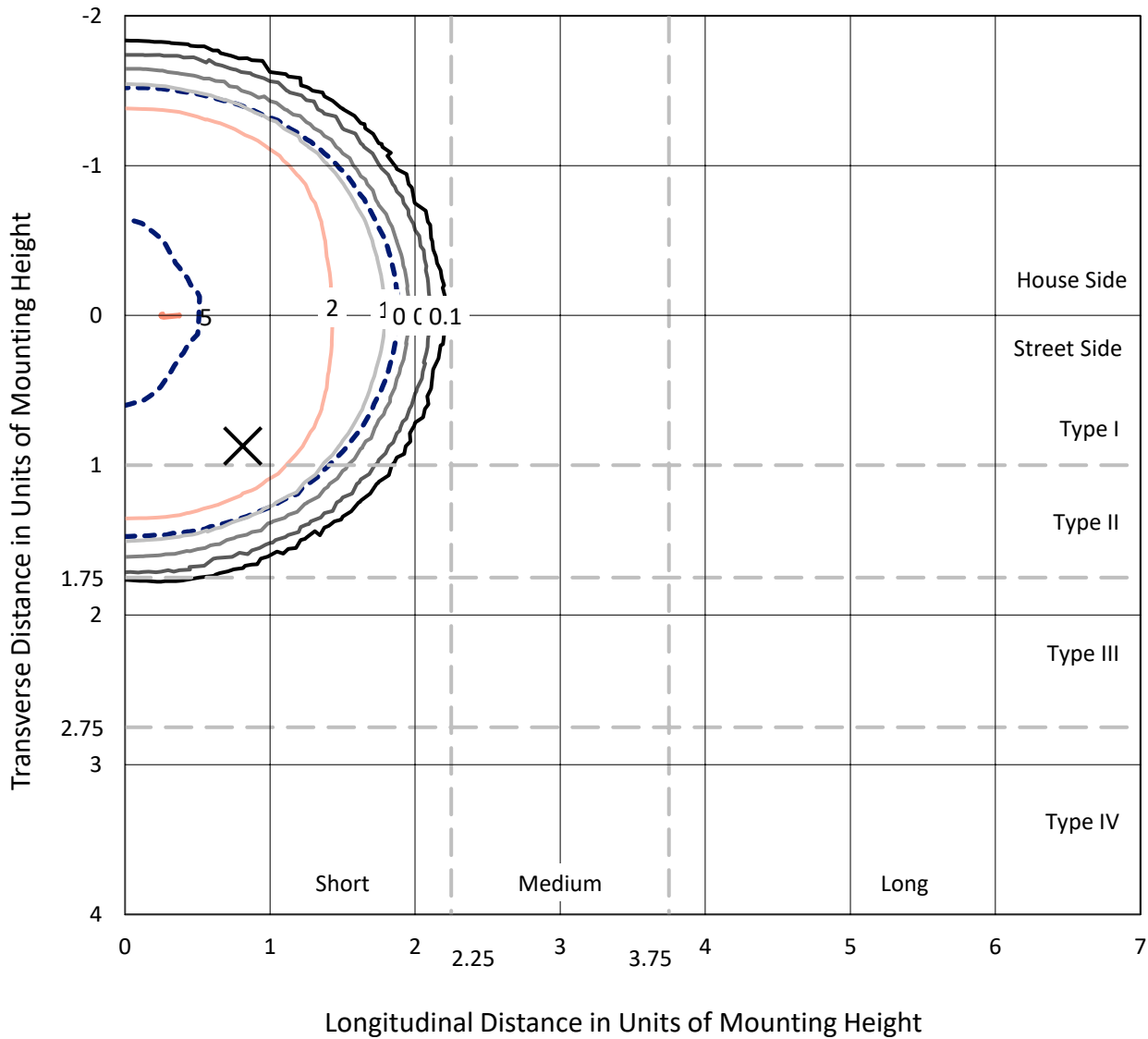
Lumens per Lamp: N/A  
Luminaire Lumens: 18443.2 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

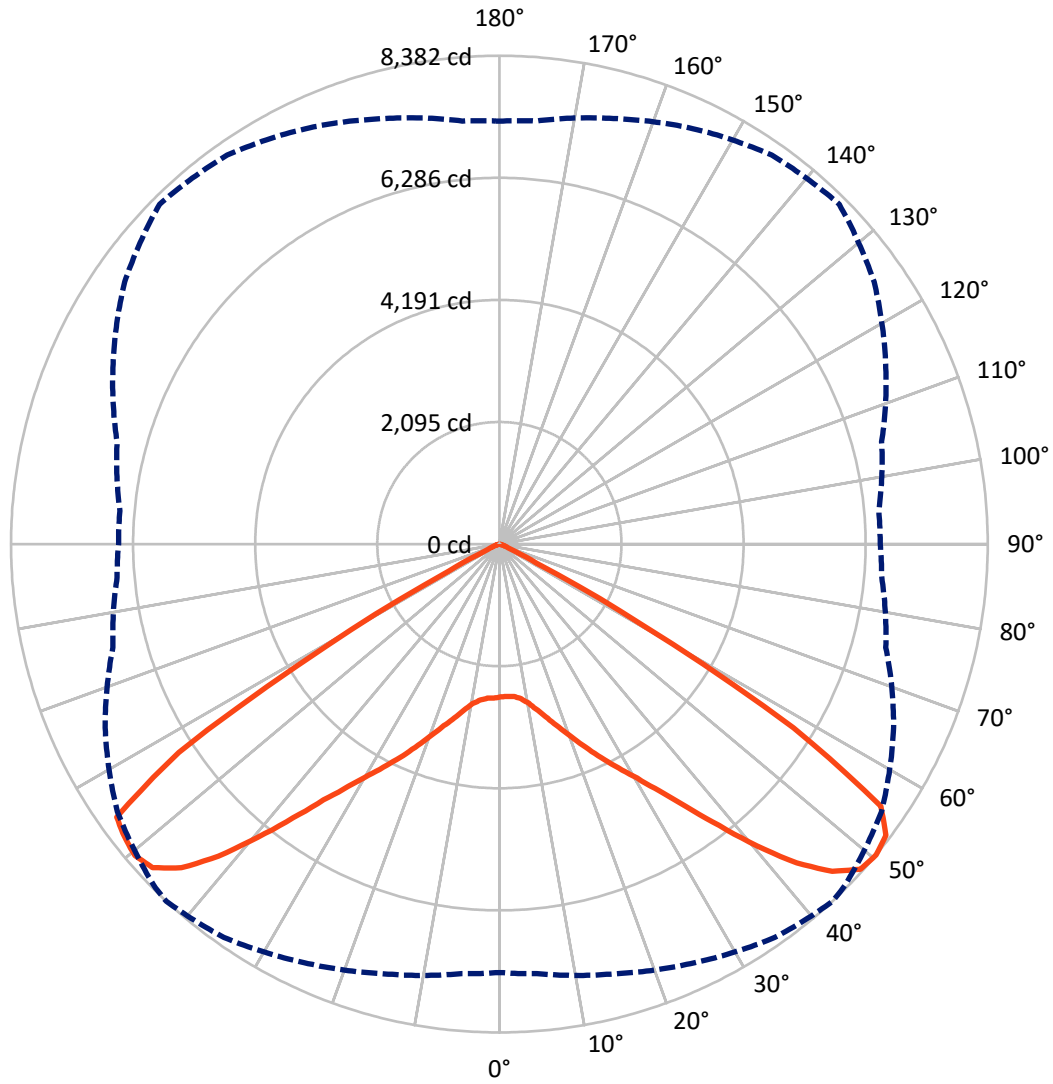
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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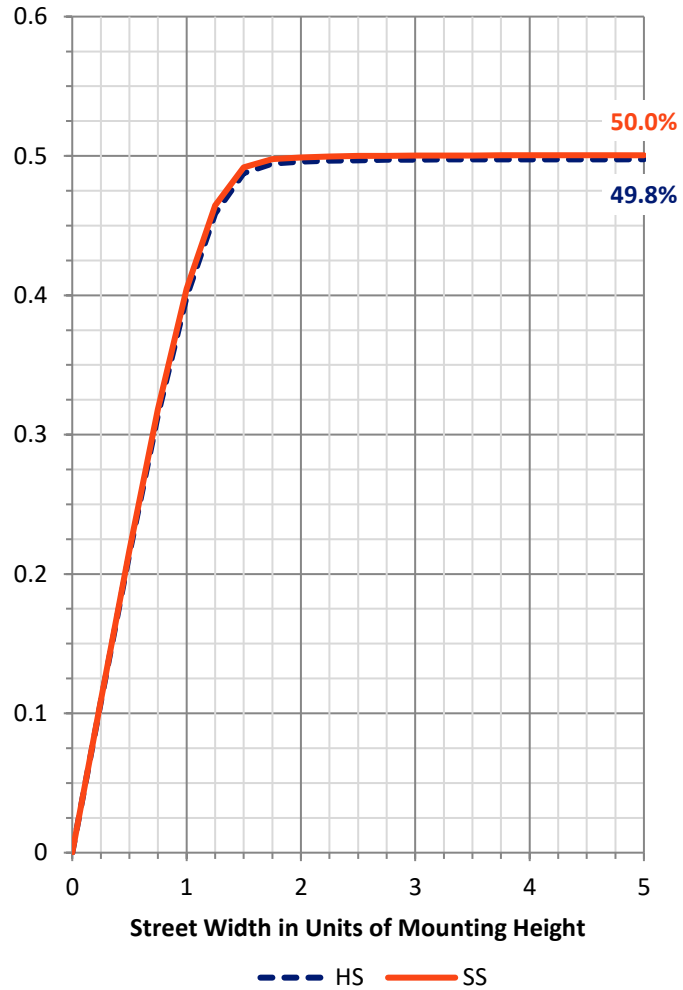
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9221.4	0.0	9221.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9221.8	0.0	9221.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18443.2	0.0	18443.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	1.4
10°-20°	889.0	4.8
20°-30°	1798.6	9.8
30°-40°	3337.0	18.1
40°-50°	5539.2	30.0
50°-60°	5653.0	30.7
60°-70°	927.0	5.0
70°-80°	40.6	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°	18443.2	100.0
0°-180°	18443.2	100.0

**Coefficient of Utilization**



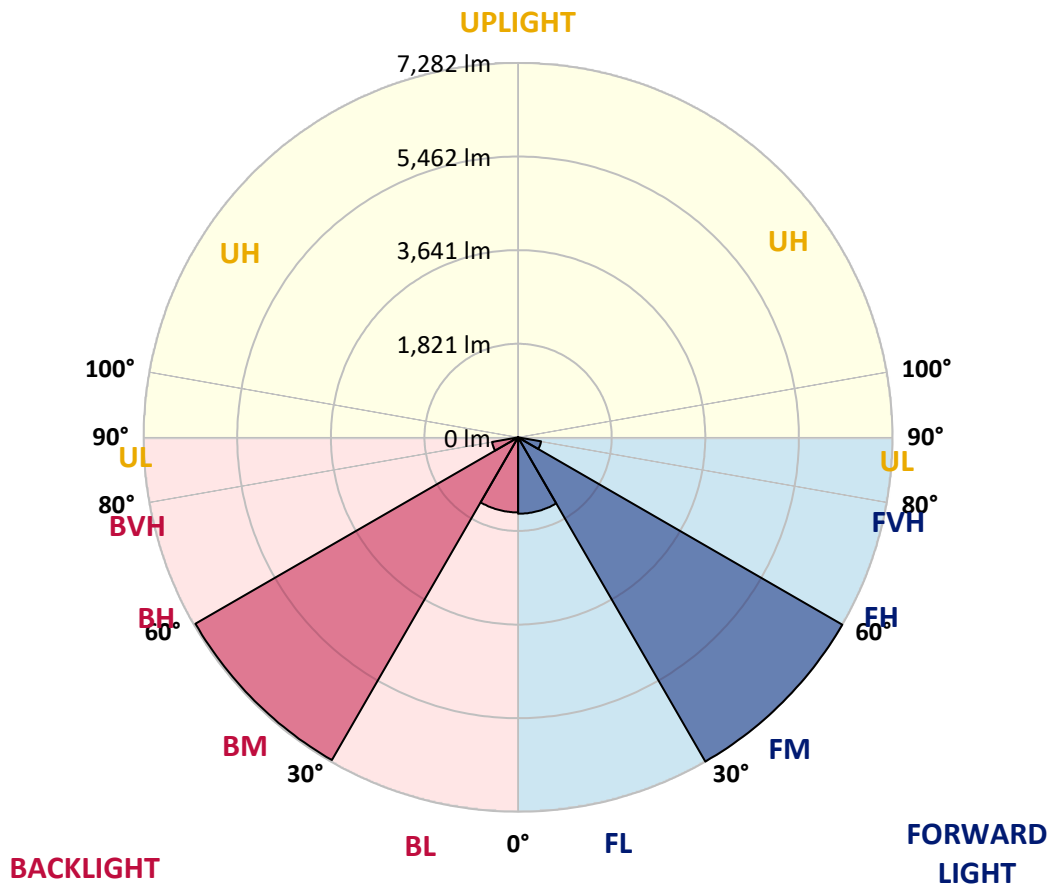
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.9	8.1			
FM (30°-60°)	7282.3	39.5			
FH (60°-80°)	453.5	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1460.0	7.9	B3/2500		
BM (30°-60°)	7246.9	39.3	B4/8500		
BH (60°-80°)	514.1	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°	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3
2.5°	2574.3	2580.4	2588.6	2596.7	2606.9	2617.1	2623.3	2641.6	2637.5	2653.9	2653.9
5°	2545.7	2551.9	2562.1	2580.4	2602.9	2625.3	2641.6	2678.3	2698.7	2731.4	2743.6
7.5°	2560.0	2568.2	2580.4	2609.0	2643.7	2678.3	2696.7	2755.8	2796.6	2857.8	2892.5
10°	2606.9	2615.1	2635.5	2684.4	2729.3	2778.3	2800.7	2876.2	2941.5	3025.1	3074.1
12.5°	2660.0	2670.2	2711.0	2784.4	2861.9	2927.2	2957.8	3041.4	3108.7	3202.6	3280.1
15°	2715.0	2731.4	2794.6	2902.7	3012.9	3100.6	3133.2	3223.0	3290.3	3390.2	3478.0
17.5°	2843.6	2861.9	2933.3	3049.6	3200.5	3302.5	3331.1	3424.9	3475.9	3543.2	3635.0
20°	3004.7	3039.4	3127.1	3267.8	3433.1	3531.0	3551.4	3643.2	3639.1	3667.7	3747.2
22.5°	3204.6	3229.1	3325.0	3492.2	3677.9	3786.0	3832.9	3871.6	3820.6	3796.2	3847.2
25°	3412.7	3441.2	3545.3	3728.9	3936.9	4061.4	4100.1	4130.7	4049.1	3957.3	3963.4
27.5°	3681.9	3702.3	3804.3	4000.2	4208.2	4349.0	4383.6	4436.7	4328.6	4181.7	4140.9
30°	4002.2	4022.6	4130.7	4336.7	4542.8	4663.1	4716.1	4781.4	4663.1	4479.5	4432.6
32.5°	4377.5	4397.9	4536.6	4748.8	4918.1	5048.6	5099.6	5169.0	5075.2	4869.1	4816.1
35°	4826.3	4838.5	5001.7	5232.2	5411.7	5538.2	5572.9	5654.5	5550.4	5344.4	5315.9
37.5°	5346.5	5360.7	5538.2	5805.4	5989.0	6129.8	6184.8	6207.3	6080.8	5850.3	5827.9
40°	5917.6	5964.5	6137.9	6425.5	6631.6	6809.0	6858.0	6782.5	6605.1	6290.9	6250.1
42.5°	6513.3	6554.1	6747.8	7059.9	7298.6	7480.1	7482.2	7319.0	7017.1	6582.6	6521.4
45°	7008.9	7025.3	7276.2	7590.3	7884.0	8012.6	8024.8	7729.0	7274.1	6751.9	6621.4
47.5°	7349.6	7376.1	7594.4	7896.3	8220.6	8336.9	8312.4	7943.2	7396.5	6862.1	6645.8
50°	7353.7	7398.6	7635.2	7926.9	8241.0	8381.8	8347.1	8004.4	7465.9	6866.2	6586.7
52.5°	6703.0	6776.4	7161.9	7584.2	8065.6	8306.3	8314.4	8083.9	7439.4	6800.9	6533.7
55°	5056.8	5136.4	5621.8	6341.9	7272.1	7943.2	8059.5	7990.1	7408.8	6829.4	6627.5
57.5°	2676.3	2615.1	2884.4	3598.3	4767.1	5954.3	6295.0	6849.8	7068.1	6864.1	6800.9
60°	583.4	622.2	828.2	1115.8	1860.3	2800.7	3133.2	4083.8	5213.9	5715.7	6078.8
62.5°	250.9	246.8	257.0	291.7	426.3	709.9	866.9	1415.7	2233.6	3067.9	3633.0
65°	206.0	208.1	216.2	216.2	201.9	204.0	214.2	324.3	522.2	732.3	983.2
67.5°	155.0	157.1	171.3	175.4	165.2	146.9	144.8	122.4	128.5	161.1	167.3
70°	97.9	97.9	106.1	110.2	110.2	102.0	100.0	87.7	85.7	97.9	110.2
72.5°	53.0	53.0	57.1	59.2	57.1	55.1	55.1	53.0	51.0	59.2	75.5
75°	22.4	22.4	24.5	24.5	22.4	22.4	22.4	22.4	22.4	26.5	40.8
77.5°	4.1	6.1	8.2	6.1	4.1	4.1	4.1	6.1	6.1	8.2	12.2
80°	2.0	2.0	4.1	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3
2.5°	2668.1	2645.7	2653.9	2657.9	2651.8	2647.7	2625.3	2619.2	2609.0	2592.7	2588.6
5°	2757.9	2739.5	2737.5	2725.2	2696.7	2662.0	2619.2	2600.8	2580.4	2560.0	2555.9
7.5°	2908.8	2886.4	2872.1	2831.3	2766.0	2711.0	2639.6	2600.8	2574.3	2547.8	2541.7
10°	3102.6	3076.1	3035.3	2959.8	2872.1	2792.6	2708.9	2657.9	2617.1	2580.4	2578.4
12.5°	3308.6	3280.1	3206.7	3110.8	3004.7	2931.3	2825.2	2753.8	2692.6	2637.5	2631.4
15°	3524.9	3490.2	3390.2	3276.0	3178.1	3102.6	2986.3	2872.1	2778.3	2698.7	2690.6
17.5°	3690.1	3647.3	3528.9	3443.3	3363.7	3286.2	3155.7	3004.7	2880.3	2784.4	2762.0
20°	3794.1	3753.3	3641.1	3594.2	3557.5	3502.4	3347.4	3190.3	3051.6	2933.3	2912.9
22.5°	3894.1	3845.1	3747.2	3747.2	3775.8	3753.3	3586.1	3406.6	3243.4	3106.7	3076.1
25°	4006.3	3967.5	3898.2	3955.3	4026.7	4024.6	3853.3	3628.9	3441.2	3288.2	3257.6
27.5°	4169.5	4130.7	4106.2	4214.3	4304.1	4298.0	4110.3	3867.6	3669.7	3518.7	3490.2
30°	4457.1	4420.4	4393.8	4524.4	4638.6	4595.8	4389.8	4155.2	3955.3	3783.9	3763.5
32.5°	4840.6	4801.8	4767.1	4897.7	4999.7	4944.6	4748.8	4528.5	4298.0	4130.7	4089.9
35°	5344.4	5262.8	5228.1	5383.2	5426.0	5364.8	5177.2	4983.4	4738.6	4546.8	4520.3
37.5°	5864.6	5768.7	5744.2	5878.9	5948.2	5925.8	5705.5	5503.5	5238.3	5026.2	4995.6
40°	6309.3	6221.6	6178.7	6388.8	6545.9	6560.2	6362.3	6115.5	5803.4	5583.1	5528.0
42.5°	6570.4	6494.9	6484.7	6811.1	7068.1	7251.7	7015.1	6760.1	6431.7	6182.8	6137.9
45°	6629.5	6580.6	6666.2	7094.6	7494.4	7829.0	7627.0	7357.8	7002.8	6739.7	6696.8
47.5°	6623.4	6607.1	6760.1	7241.5	7747.4	8159.4	8059.5	7755.5	7412.8	7137.5	7096.7
50°	6535.7	6537.7	6792.7	7314.9	7849.4	8249.2	8149.2	7867.7	7561.7	7290.4	7257.8
52.5°	6501.0	6488.8	6731.5	7292.5	7953.4	8208.4	7984.0	7667.8	7327.2	6992.6	6943.7
55°	6623.4	6592.8	6739.7	7274.1	7965.6	8185.9	7594.4	6909.0	6211.4	5815.6	5783.0
57.5°	6807.0	6774.4	6843.7	7139.5	7327.2	6807.0	5589.2	4483.6	3765.6	3461.6	3329.0
60°	6078.8	6056.3	6003.3	5646.3	4842.6	3653.4	2488.6	1587.0	1140.3	922.0	922.0
62.5°	3771.7	3741.1	3453.5	2566.1	1864.4	1079.1	593.6	371.3	281.5	263.1	261.1
65°	1058.7	1052.6	871.0	616.0	391.7	242.7	214.2	218.3	214.2	208.1	206.0
67.5°	159.1	175.4	175.4	142.8	136.7	153.0	179.5	191.7	181.5	171.3	167.3
70°	102.0	110.2	106.1	91.8	97.9	114.2	128.5	130.6	124.4	114.2	112.2
72.5°	71.4	79.6	65.3	59.2	61.2	67.3	73.4	73.4	71.4	67.3	63.2
75°	42.8	42.8	30.6	28.6	28.6	30.6	30.6	34.7	34.7	32.6	30.6
77.5°	14.3	16.3	10.2	8.2	8.2	8.2	10.2	12.2	12.2	10.2	8.2
80°	2.0	4.1	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	2.0
82.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
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

(END OF REPORT)