

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: P640116

Luminaire Tested: GWS-SA5D-730-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640116  
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-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

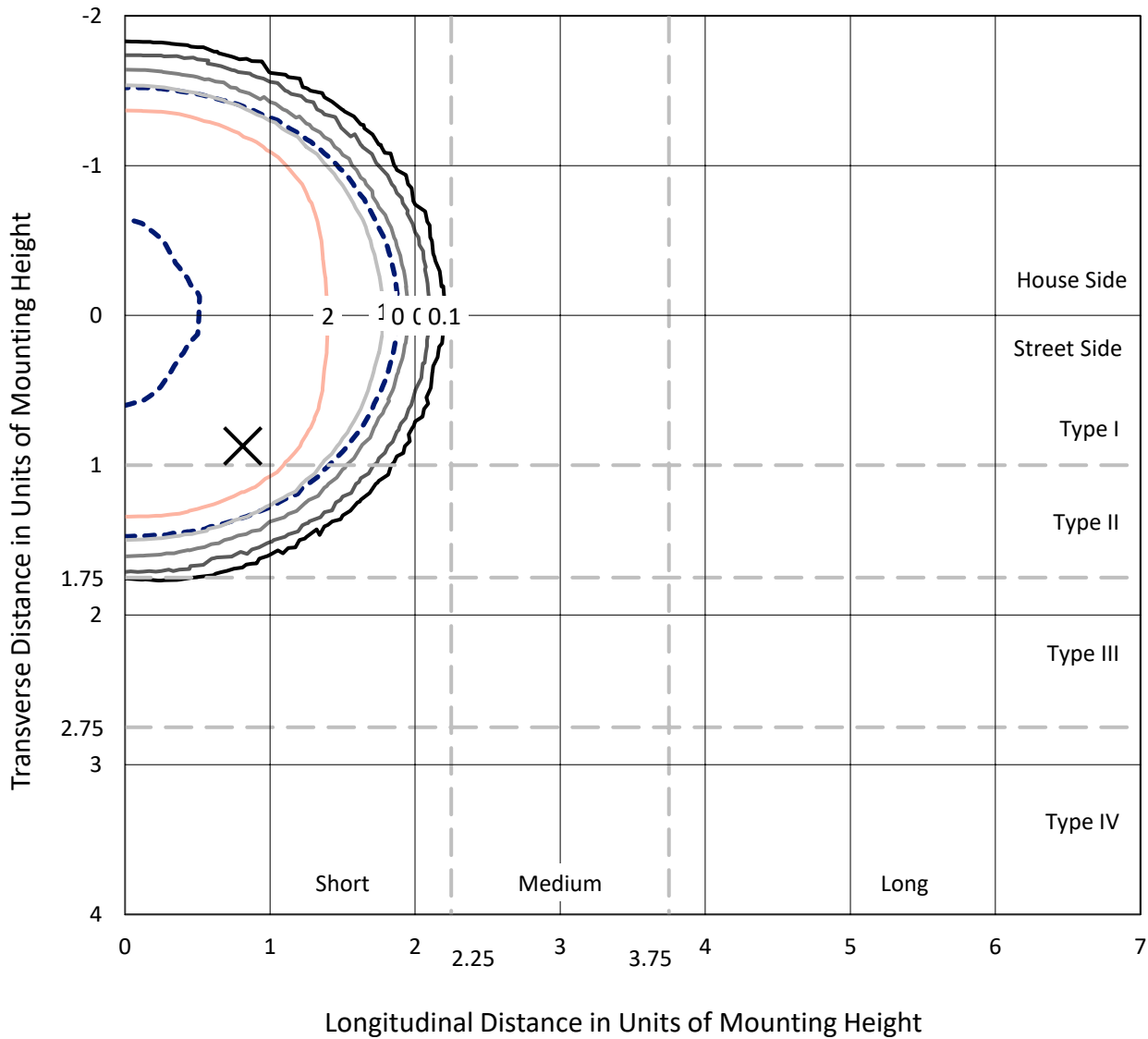
Lumens per Lamp: N/A  
Luminaire Lumens: 17729.9 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

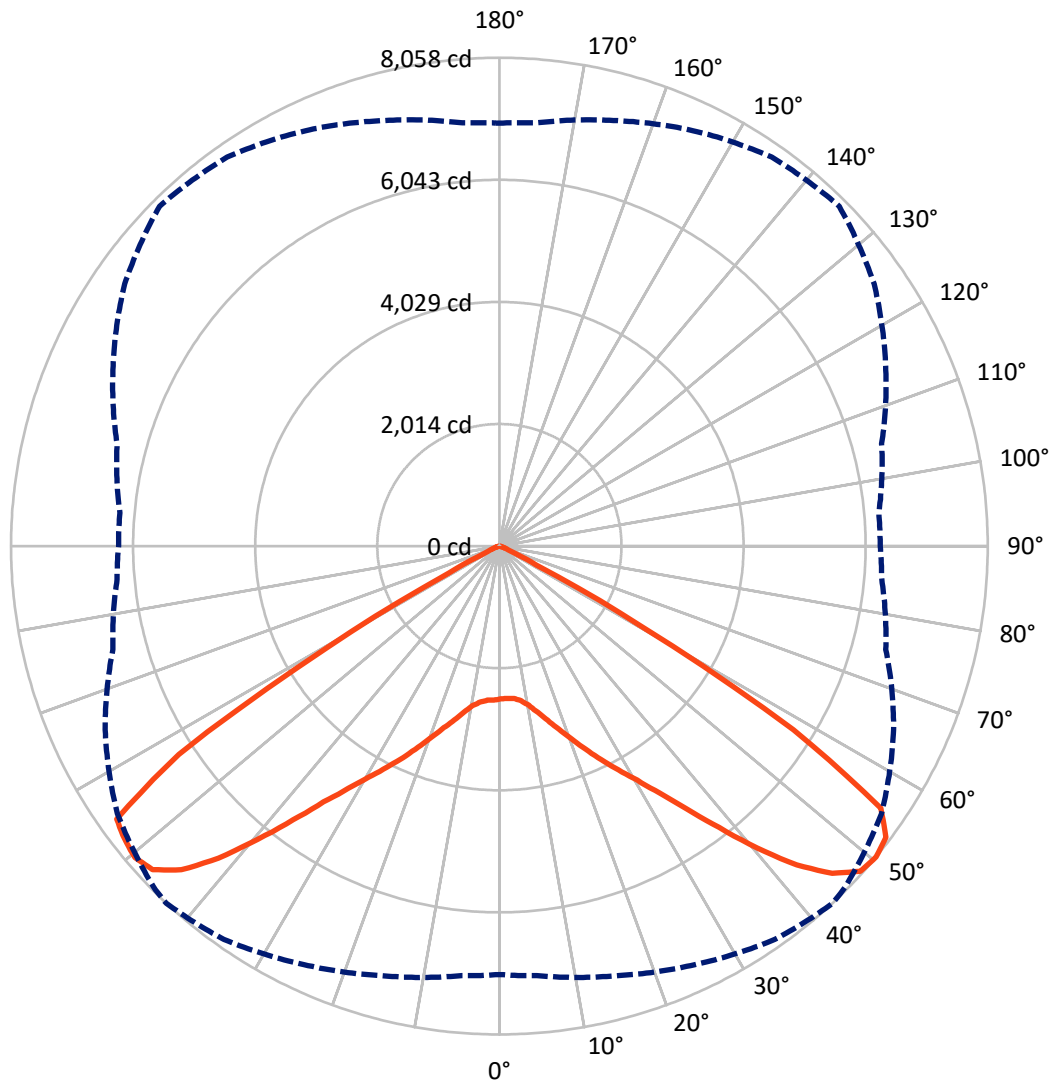
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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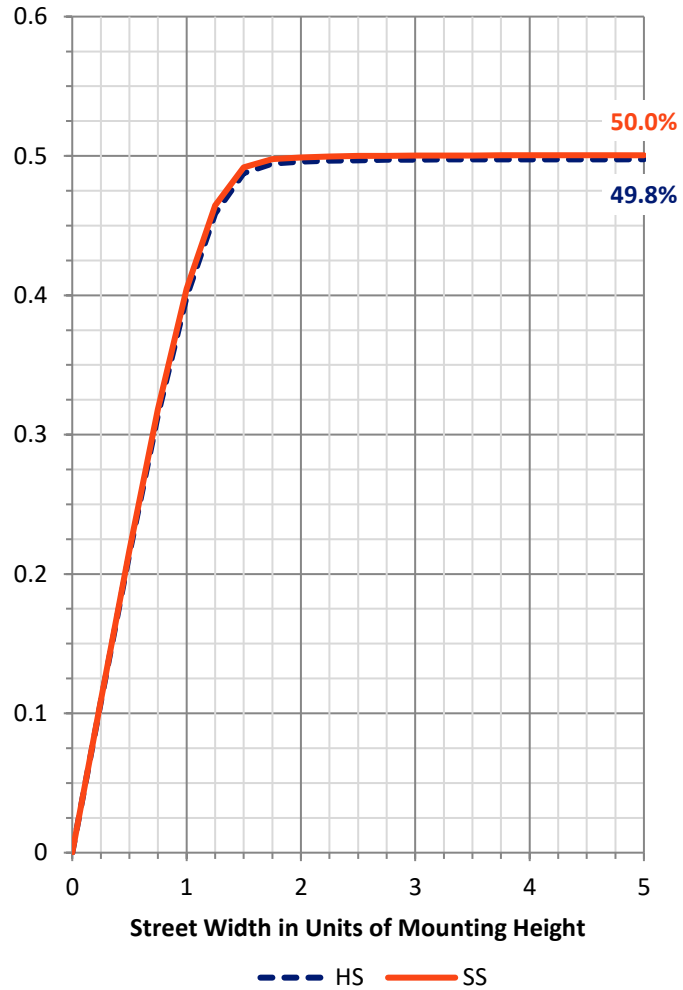
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8864.7	0.0	8864.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8865.2	0.0	8865.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17729.9	0.0	17729.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.3	1.4
10°-20°	854.6	4.8
20°-30°	1729.0	9.8
30°-40°	3207.9	18.1
40°-50°	5325.0	30.0
50°-60°	5434.3	30.7
60°-70°	891.2	5.0
70°-80°	39.0	0.2
80°-90°	0.5	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°	17729.9	100.0
0°-180°	17729.9	100.0

**Coefficient of Utilization**



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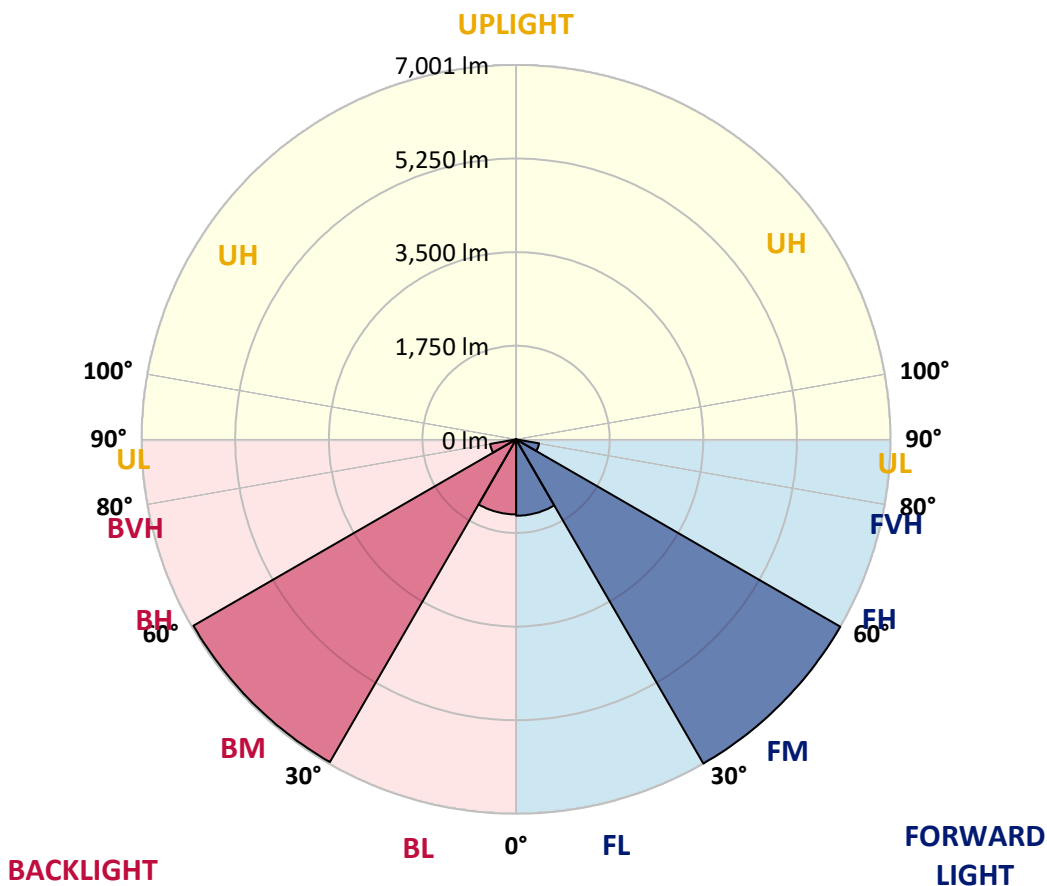
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.4	8.1			
FM (30°-60°)	7000.6	39.5			
FH (60°-80°)	436.0	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1403.6	7.9	B3/2500		
BM (30°-60°)	6966.6	39.3	B4/8500		
BH (60°-80°)	494.2	2.8	B1/500		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°	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8
2.5°	2474.7	2480.6	2488.5	2496.3	2506.1	2515.9	2521.8	2539.4	2535.5	2551.2	2551.2
5°	2447.3	2453.2	2463.0	2480.6	2502.2	2523.8	2539.4	2574.7	2594.4	2625.7	2637.5
7.5°	2461.0	2468.9	2480.6	2508.1	2541.4	2574.7	2592.4	2649.3	2688.5	2747.3	2780.6
10°	2506.1	2514.0	2533.6	2580.6	2623.8	2670.8	2692.4	2765.0	2827.7	2908.1	2955.2
12.5°	2557.1	2566.9	2606.1	2676.7	2751.2	2814.0	2843.4	2923.8	2988.5	3078.7	3153.2
15°	2610.0	2625.7	2686.5	2790.4	2896.3	2980.7	3012.0	3098.3	3163.0	3259.1	3343.4
17.5°	2733.6	2751.2	2819.9	2931.6	3076.8	3174.8	3202.3	3292.5	3341.5	3406.2	3494.4
20°	2888.5	2921.8	3006.2	3141.5	3300.3	3394.4	3414.0	3502.3	3498.4	3525.8	3602.3
22.5°	3080.7	3104.2	3196.4	3357.2	3535.6	3639.5	3684.6	3721.9	3672.9	3649.4	3698.4
25°	3280.7	3308.1	3408.2	3584.6	3784.7	3904.3	3941.5	3970.9	3892.5	3804.3	3810.2
27.5°	3539.5	3559.1	3657.2	3845.4	4045.5	4180.8	4214.1	4265.1	4161.2	4020.0	3980.8
30°	3847.4	3867.0	3970.9	4169.0	4367.1	4482.8	4533.7	4596.5	4482.8	4306.3	4261.2
32.5°	4208.2	4227.8	4361.2	4565.1	4727.9	4853.4	4902.4	4969.1	4878.9	4680.8	4629.8
35°	4639.6	4651.4	4808.3	5029.9	5202.4	5324.0	5357.3	5435.8	5335.8	5137.7	5110.3
37.5°	5139.7	5153.4	5324.0	5580.9	5757.4	5892.7	5945.6	5967.2	5845.6	5624.0	5602.5
40°	5688.8	5733.9	5900.5	6177.0	6375.1	6545.7	6592.8	6520.2	6349.6	6047.6	6008.4
42.5°	6261.4	6300.6	6486.9	6786.9	7016.3	7190.8	7192.8	7035.9	6745.7	6328.0	6269.2
45°	6737.9	6753.6	6994.8	7296.7	7579.1	7702.7	7714.4	7430.1	6992.8	6490.8	6365.3
47.5°	7065.3	7090.8	7300.7	7590.9	7902.7	8014.5	7990.9	7636.0	7110.5	6596.7	6388.8
50°	7069.3	7112.4	7339.9	7620.3	7922.3	8057.6	8024.3	7694.8	7177.1	6600.6	6331.9
52.5°	6443.7	6514.3	6884.9	7290.9	7753.6	7985.0	7992.9	7771.3	7151.6	6537.8	6281.0
55°	4861.2	4937.7	5404.4	6096.6	6990.8	7636.0	7747.8	7681.1	7122.2	6565.3	6371.2
57.5°	2572.8	2514.0	2772.8	3459.1	4582.8	5724.0	6051.5	6584.9	6794.7	6598.6	6537.8
60°	560.8	598.1	796.2	1072.6	1788.4	2692.4	3012.0	3925.8	5012.2	5494.6	5843.7
62.5°	241.2	237.3	247.1	280.4	409.8	682.4	833.4	1360.9	2147.3	2949.3	3492.5
65°	198.1	200.0	207.9	207.9	194.1	196.1	205.9	311.8	502.0	704.0	945.2
67.5°	149.0	151.0	164.7	168.6	158.8	141.2	139.2	117.7	123.5	154.9	160.8
70°	94.1	94.1	102.0	105.9	105.9	98.0	96.1	84.3	82.4	94.1	105.9
72.5°	51.0	51.0	54.9	56.9	54.9	52.9	52.9	51.0	49.0	56.9	72.6
75°	21.6	21.6	23.5	23.5	21.6	21.6	21.6	21.6	21.6	25.5	39.2
77.5°	3.9	5.9	7.8	5.9	3.9	3.9	3.9	5.9	5.9	7.8	11.8
80°	2.0	2.0	3.9	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°	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8	2521.8
2.5°	2564.9	2543.4	2551.2	2555.1	2549.3	2545.3	2523.8	2517.9	2508.1	2492.4	2488.5
5°	2651.2	2633.6	2631.6	2619.8	2592.4	2559.1	2517.9	2500.2	2480.6	2461.0	2457.1
7.5°	2796.3	2774.8	2761.0	2721.8	2659.1	2606.1	2537.5	2500.2	2474.7	2449.2	2443.4
10°	2982.6	2957.1	2917.9	2845.4	2761.0	2684.6	2604.2	2555.1	2515.9	2480.6	2478.7
12.5°	3180.7	3153.2	3082.6	2990.5	2888.5	2817.9	2715.9	2647.3	2588.5	2535.5	2529.6
15°	3388.5	3355.2	3259.1	3149.3	3055.2	2982.6	2870.8	2761.0	2670.8	2594.4	2586.5
17.5°	3547.4	3506.2	3392.5	3310.1	3233.6	3159.1	3033.6	2888.5	2768.9	2676.7	2655.1
20°	3647.4	3608.2	3500.3	3455.2	3419.9	3367.0	3217.9	3066.9	2933.6	2819.9	2800.3
22.5°	3743.5	3696.4	3602.3	3602.3	3629.7	3608.2	3447.4	3274.8	3117.9	2986.5	2957.1
25°	3851.3	3814.1	3747.4	3802.3	3870.9	3869.0	3704.3	3488.6	3308.1	3161.1	3131.7
27.5°	4008.2	3970.9	3947.4	4051.3	4137.6	4131.7	3951.3	3718.0	3527.8	3382.7	3355.2
30°	4284.7	4249.4	4223.9	4349.4	4459.2	4418.0	4220.0	3994.5	3802.3	3637.6	3618.0
32.5°	4653.4	4616.1	4582.8	4708.3	4806.3	4753.4	4565.1	4353.3	4131.7	3970.9	3931.7
35°	5137.7	5059.3	5025.9	5175.0	5216.2	5157.3	4976.9	4790.6	4555.3	4371.0	4345.5
37.5°	5637.8	5545.6	5522.1	5651.5	5718.2	5696.6	5484.8	5290.7	5035.8	4831.8	4802.4
40°	6065.3	5980.9	5939.8	6141.7	6292.7	6306.5	6116.2	5879.0	5578.9	5367.2	5314.2
42.5°	6316.3	6243.7	6233.9	6547.7	6794.7	6971.2	6743.8	6498.6	6182.9	5943.7	5900.5
45°	6373.1	6326.1	6408.4	6820.2	7204.6	7526.2	7332.0	7073.2	6732.0	6479.0	6437.8
47.5°	6367.2	6351.6	6498.6	6961.4	7447.7	7843.9	7747.8	7455.6	7126.1	6861.4	6822.2
50°	6282.9	6284.9	6530.0	7032.0	7545.8	7930.1	7834.0	7563.4	7269.3	7008.5	6977.1
52.5°	6249.6	6237.8	6471.2	7010.4	7645.8	7890.9	7675.2	7371.3	7043.8	6722.2	6675.1
55°	6367.2	6337.8	6479.0	6992.8	7657.6	7869.3	7300.7	6641.8	5971.1	5590.7	5559.3
57.5°	6543.7	6512.4	6579.0	6863.4	7043.8	6543.7	5373.0	4310.2	3619.9	3327.8	3200.3
60°	5843.7	5822.1	5771.1	5427.9	4655.3	3512.1	2392.4	1525.6	1096.2	886.4	886.4
62.5°	3625.8	3596.4	3319.9	2466.9	1792.3	1037.3	570.6	356.9	270.6	253.0	251.0
65°	1017.7	1011.9	837.3	592.2	376.5	233.4	205.9	209.8	205.9	200.0	198.1
67.5°	153.0	168.6	168.6	137.3	131.4	147.1	172.6	184.3	174.5	164.7	160.8
70°	98.0	105.9	102.0	88.2	94.1	109.8	123.5	125.5	119.6	109.8	107.9
72.5°	68.6	76.5	62.8	56.9	58.8	64.7	70.6	70.6	68.6	64.7	60.8
75°	41.2	41.2	29.4	27.5	27.5	29.4	29.4	33.3	33.3	31.4	29.4
77.5°	13.7	15.7	9.8	7.8	7.8	7.8	9.8	11.8	11.8	9.8	7.8
80°	2.0	3.9	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9	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)