

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: P641777

Luminaire Tested: GWS-SA6B-750-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-750-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

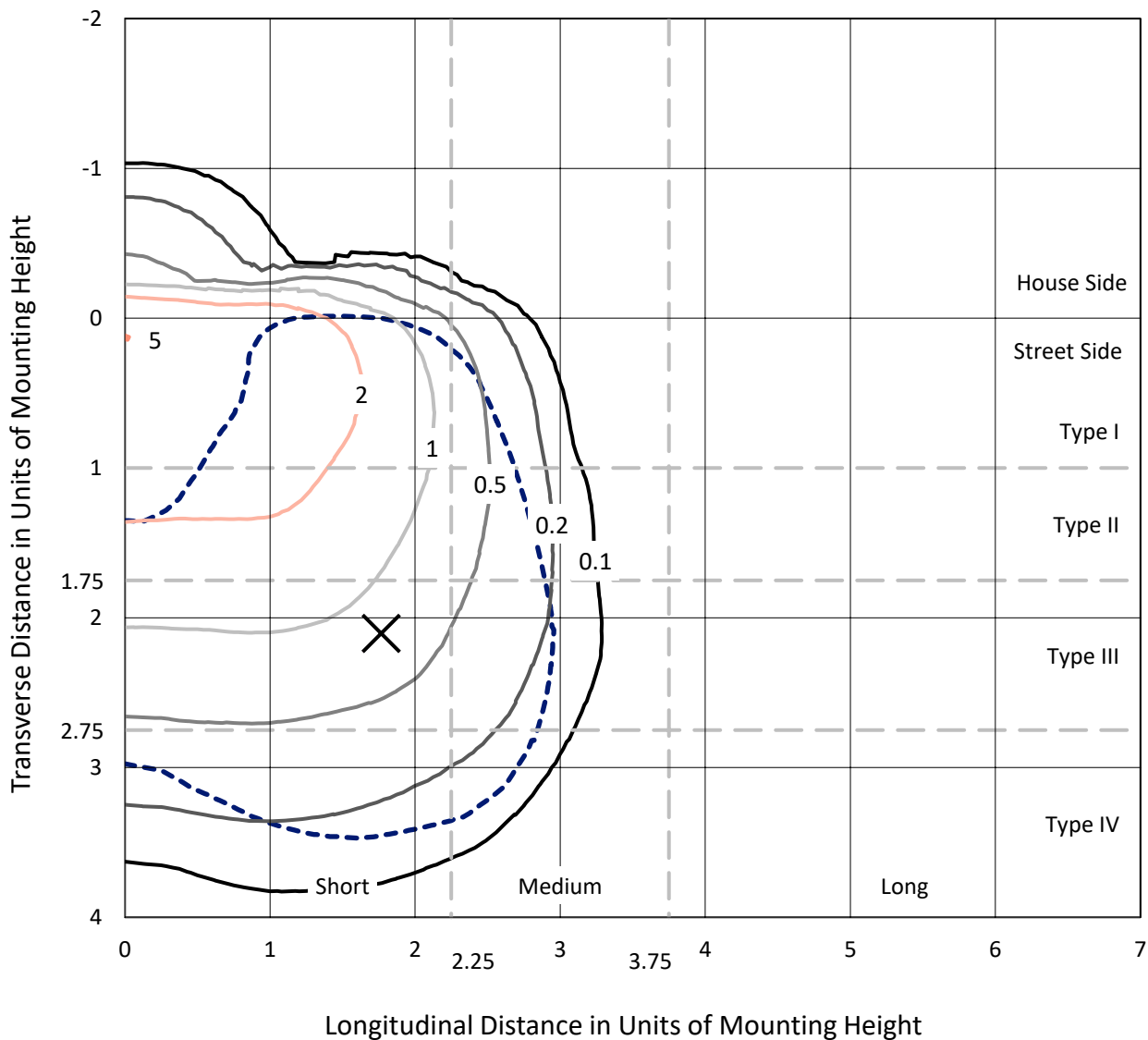
Lumens per Lamp: N/A  
Luminaire Lumens: 17064.4 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

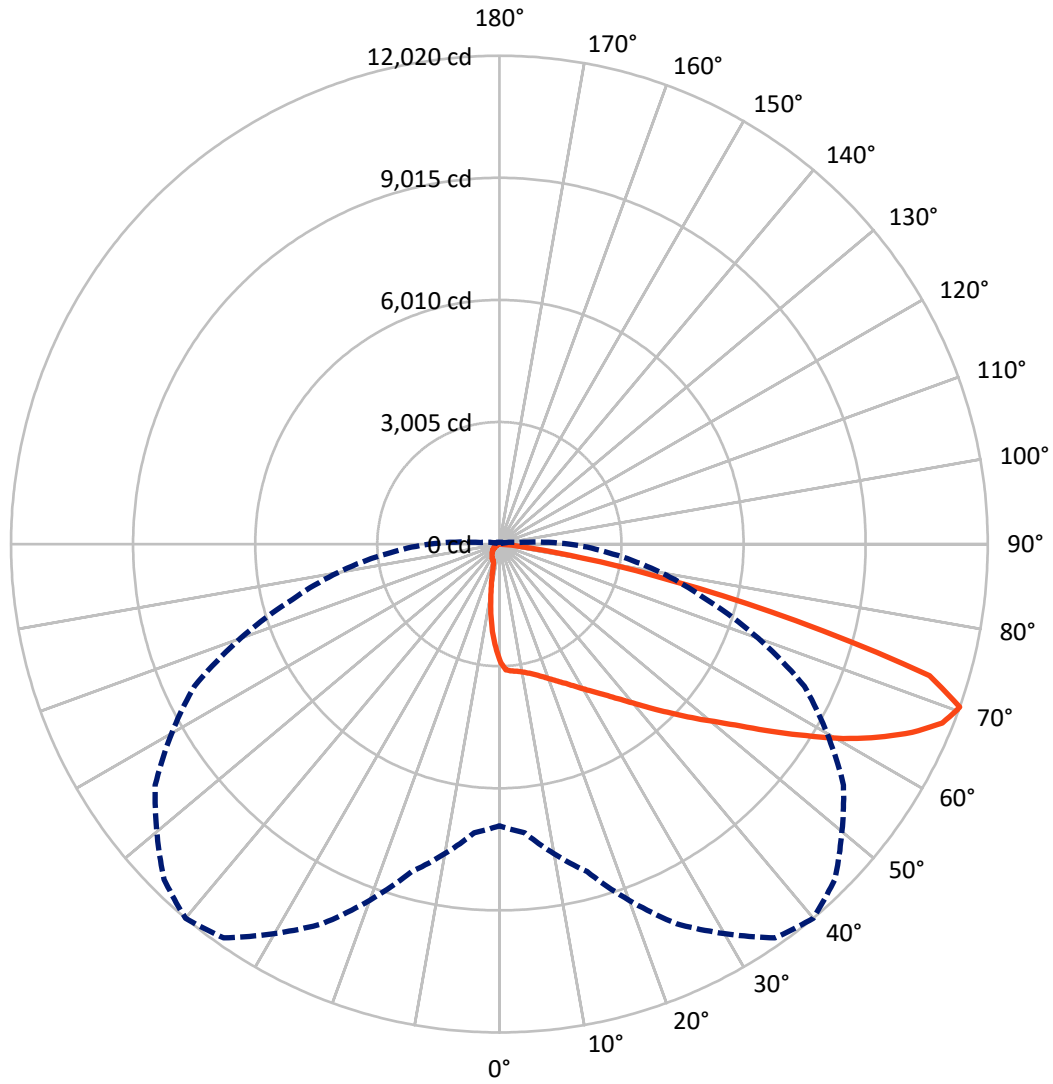
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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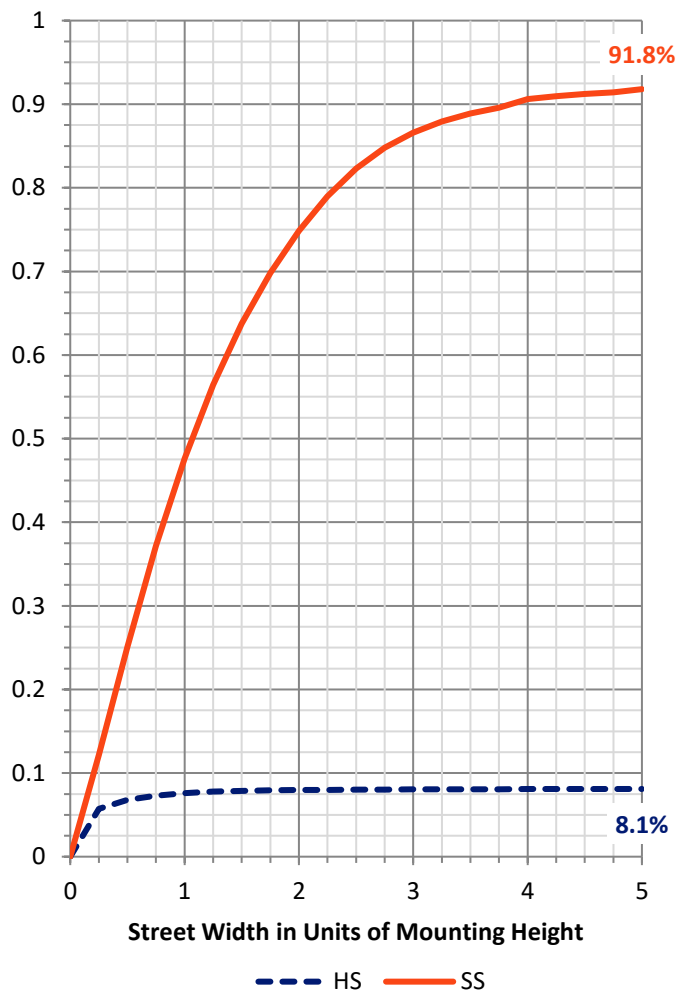
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1395.4	0.0	1395.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	15669.0	0.0	15669.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	17064.4	0.0	17064.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.7	1.4
10°-20°	620.7	3.6
20°-30°	1038.9	6.1
30°-40°	1631.7	9.6
40°-50°	2580.9	15.1
50°-60°	3764.9	22.1
60°-70°	4667.1	27.4
70°-80°	2361.3	13.8
80°-90°	154.2	0.9
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°	17064.4	100.0
0°-180°	17064.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641777

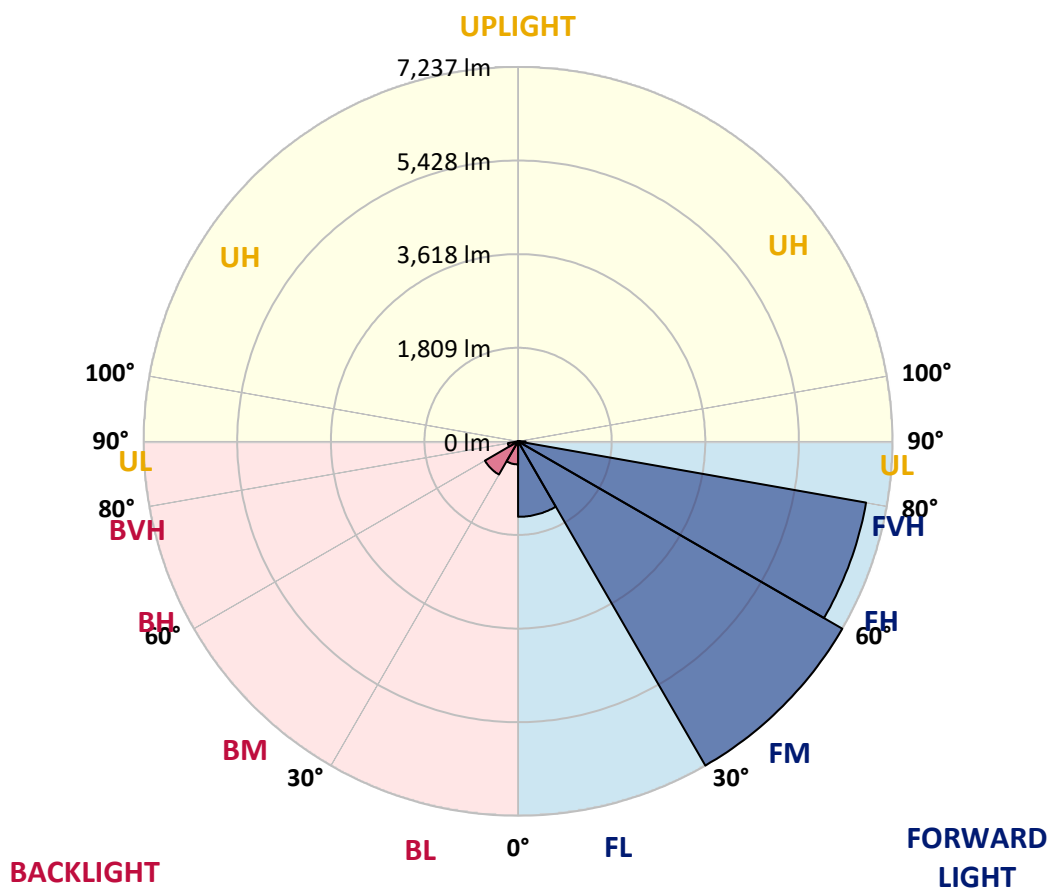
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.7	8.5			
FM (30°-60°)	7236.8	42.4			
FH (60°-80°)	6829.5	40.0			G3/7500
FVH (80°-90°)	144.0	0.8			G2/225
BL (0°-30°)	445.6	2.6	B1/500		
BM (30°-60°)	740.7	4.3	B1/1000		
BH (60°-80°)	199.0	1.2	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6
2.5°	3113.0	3123.9	3122.3	3127.0	3116.1	3099.0	3095.9	3072.6	3030.7	2977.9	2918.9
5°	3176.6	3189.1	3179.8	3175.1	3154.9	3136.3	3131.6	3106.8	3058.6	2987.2	2884.8
7.5°	3231.0	3234.1	3227.9	3217.0	3187.5	3162.7	3145.6	3111.4	3054.0	2982.6	2864.6
10°	3240.3	3238.8	3241.9	3243.4	3224.8	3203.0	3189.1	3142.5	3069.5	2993.4	2866.1
12.5°	3229.4	3229.4	3249.6	3272.9	3272.9	3262.0	3248.1	3206.1	3120.8	3030.7	2897.2
15°	3243.4	3248.1	3286.9	3330.4	3344.3	3333.5	3327.3	3283.8	3195.3	3095.9	2953.1
17.5°	3293.1	3297.8	3359.9	3425.1	3442.1	3429.7	3417.3	3373.8	3279.1	3170.4	3016.7
20°	3366.1	3378.5	3457.7	3541.5	3557.0	3541.5	3516.7	3456.1	3361.4	3251.2	3077.3
22.5°	3499.6	3507.4	3592.7	3681.2	3689.0	3664.2	3626.9	3543.1	3443.7	3336.6	3145.6
25°	3676.6	3687.5	3772.9	3858.2	3838.1	3800.8	3749.6	3654.9	3541.5	3437.5	3232.5
27.5°	3887.7	3900.2	3984.0	4058.5	4005.7	3962.3	3904.8	3786.8	3671.9	3577.2	3344.3
30°	4116.0	4126.8	4201.4	4268.1	4198.3	4147.0	4078.7	3957.6	3841.2	3769.7	3502.7
32.5°	4336.4	4334.9	4406.3	4460.7	4389.2	4348.9	4286.8	4164.1	4071.0	4039.9	3738.7
35°	4541.4	4541.4	4600.4	4654.7	4603.5	4581.8	4524.3	4426.5	4373.7	4411.0	4053.9
37.5°	4747.9	4737.0	4792.9	4853.5	4848.8	4850.4	4817.8	4771.2	4774.3	4906.3	4487.1
40°	4918.7	4914.0	4979.2	5058.4	5120.5	5170.2	5150.0	5167.1	5264.9	5511.8	5041.3
42.5°	5055.3	5066.2	5150.0	5275.8	5432.6	5533.5	5547.5	5617.4	5868.9	6250.8	5667.0
45°	5212.1	5213.7	5330.1	5522.6	5772.6	5932.5	5988.4	6168.5	6525.6	7017.8	6353.3
47.5°	5404.6	5386.0	5516.4	5786.6	6148.3	6384.3	6483.7	6708.8	7261.6	7766.2	6912.2
50°	5617.4	5583.2	5730.7	6098.7	6569.1	6864.1	7065.9	7395.1	7991.3	8381.0	7328.3
52.5°	5864.2	5831.6	5999.3	6457.3	7073.7	7432.4	7691.6	8023.9	8617.0	8849.9	7576.8
55°	6177.8	6145.2	6322.2	6887.4	7669.9	8135.7	8407.4	8686.9	9199.2	9196.1	7756.9
57.5°	6525.6	6480.6	6725.9	7430.8	8413.6	8898.0	9174.4	9311.0	9641.7	9464.7	7878.0
60°	6924.7	6884.3	7224.3	8078.2	9272.2	9720.9	9894.8	9838.9	10005.0	9623.1	7836.0
62.5°	7284.9	7266.2	7688.5	8764.5	10090.4	10469.3	10517.4	10273.6	10272.1	9626.2	7553.5
65°	7659.0	7694.8	8322.0	9554.8	10913.3	11167.9	11085.7	10705.3	10379.2	9245.8	6718.2
67.5°	7798.8	7902.8	8739.7	10269.0	11562.3	11761.0	11616.7	10921.1	9933.6	7966.5	5115.9
70°	6935.5	7131.2	8345.3	10309.4	11830.9	12020.3	11674.1	10340.4	8281.6	5277.3	2802.5
72.5°	5274.2	5502.5	6954.2	8441.6	10640.1	11071.7	10480.1	8424.5	5337.9	2311.8	940.9
75°	2951.5	3198.4	5179.5	6356.4	7143.6	7537.9	7320.6	5404.6	2364.6	604.0	281.0
77.5°	998.3	1080.6	2409.7	3932.8	4715.3	4361.3	3692.1	2684.5	869.5	229.8	149.1
80°	591.5	622.6	897.4	1957.8	2481.1	2057.2	1624.0	992.1	442.5	122.7	104.0
82.5°	177.0	209.6	495.3	726.6	971.9	605.5	512.4	566.7	229.8	66.8	86.9
85°	0.0	0.0	105.6	225.1	254.6	99.4	99.4	321.4	41.9	27.9	63.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.8	4.7	6.2	14.0
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°	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6	2895.6
2.5°	2877.0	2822.7	2759.0	2698.4	2641.0	2566.5	2530.8	2487.3	2450.0	2429.8	2440.7
5°	2819.5	2734.2	2603.7	2471.8	2338.2	2212.5	2099.1	2023.1	1954.7	1919.0	1926.8
7.5°	2769.9	2655.0	2451.6	2235.8	2021.5	1805.7	1630.2	1493.6	1388.0	1344.6	1336.8
10°	2748.1	2603.7	2316.5	2006.0	1676.8	1386.5	1138.1	987.5	880.3	827.5	836.9
12.5°	2759.0	2577.3	2201.6	1780.8	1353.9	1015.4	777.9	636.6	560.5	529.4	521.7
15°	2790.0	2571.1	2099.1	1551.1	1044.9	709.5	537.2	479.8	464.2	461.1	461.1
17.5°	2825.8	2572.7	1993.6	1318.2	793.4	526.3	459.6	448.7	444.0	440.9	442.5
20°	2861.5	2572.7	1872.5	1082.2	596.2	454.9	437.8	430.1	425.4	423.9	423.9
22.5°	2904.9	2572.7	1737.4	863.3	478.2	431.6	417.7	413.0	408.3	406.8	405.2
25°	2957.7	2574.2	1588.3	675.4	434.7	411.4	400.6	395.9	391.3	388.2	388.2
27.5°	3033.8	2586.7	1423.7	526.3	409.9	392.8	383.5	378.8	374.2	369.5	369.5
30°	3144.0	2617.7	1239.0	434.7	386.6	372.6	363.3	360.2	355.5	350.9	349.3
32.5°	3308.6	2672.0	1048.0	389.7	364.9	350.9	340.0	336.9	332.3	327.6	326.0
35°	3538.4	2771.4	861.7	361.8	336.9	322.9	316.7	315.2	309.0	304.3	304.3
37.5°	3875.3	2932.9	683.1	333.8	313.6	302.8	295.0	291.9	285.7	281.0	279.5
40°	4286.8	3142.5	531.0	312.1	291.9	281.0	273.3	268.6	260.8	254.6	251.5
42.5°	4811.5	3398.7	419.2	288.8	271.7	260.8	254.6	245.3	234.4	225.1	223.6
45°	5358.1	3662.6	346.2	267.0	253.1	243.8	236.0	223.6	208.1	197.2	194.1
47.5°	5777.3	3827.2	302.8	243.8	232.9	225.1	215.8	200.3	181.7	169.2	166.1
50°	6076.9	3852.0	270.2	222.0	215.8	208.1	194.1	175.4	155.3	142.8	139.7
52.5°	6224.4	3740.2	243.8	201.8	197.2	189.4	172.3	152.2	130.4	118.0	114.9
55°	6291.2	3529.1	218.9	184.8	178.6	169.2	150.6	128.9	107.1	96.3	93.2
57.5°	6264.8	3217.0	197.2	167.7	159.9	149.1	128.9	105.6	88.5	77.6	76.1
60°	6069.2	2779.2	175.4	150.6	141.3	128.9	108.7	86.9	71.4	63.7	62.1
62.5°	5646.9	2235.8	153.7	130.4	124.2	111.8	93.2	71.4	59.0	54.3	52.8
65°	4782.0	1580.6	132.0	110.2	107.1	94.7	77.6	59.0	51.2	48.1	46.6
67.5°	3437.5	961.1	111.8	94.7	91.6	80.7	65.2	51.2	46.6	45.0	45.0
70°	1728.1	454.9	88.5	77.6	77.6	66.8	55.9	46.6	45.0	43.5	43.5
72.5°	586.9	194.1	66.8	60.6	63.7	57.4	48.1	43.5	43.5	43.5	43.5
75°	200.3	102.5	46.6	43.5	46.6	46.6	41.9	41.9	43.5	43.5	43.5
77.5°	130.4	68.3	32.6	29.5	35.7	35.7	35.7	38.8	41.9	41.9	41.9
80°	107.1	37.3	21.7	20.2	26.4	26.4	29.5	35.7	38.8	38.8	38.8
82.5°	91.6	23.3	12.4	14.0	18.6	20.2	24.8	29.5	34.2	35.7	35.7
85°	62.1	12.4	9.3	10.9	12.4	15.5	20.2	24.8	27.9	31.1	31.1
87.5°	17.1	4.7	6.2	7.8	7.8	10.9	15.5	18.6	21.7	23.3	23.3
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)