

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: P642247

Luminaire Tested: GWS-SA6C-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28151.5 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

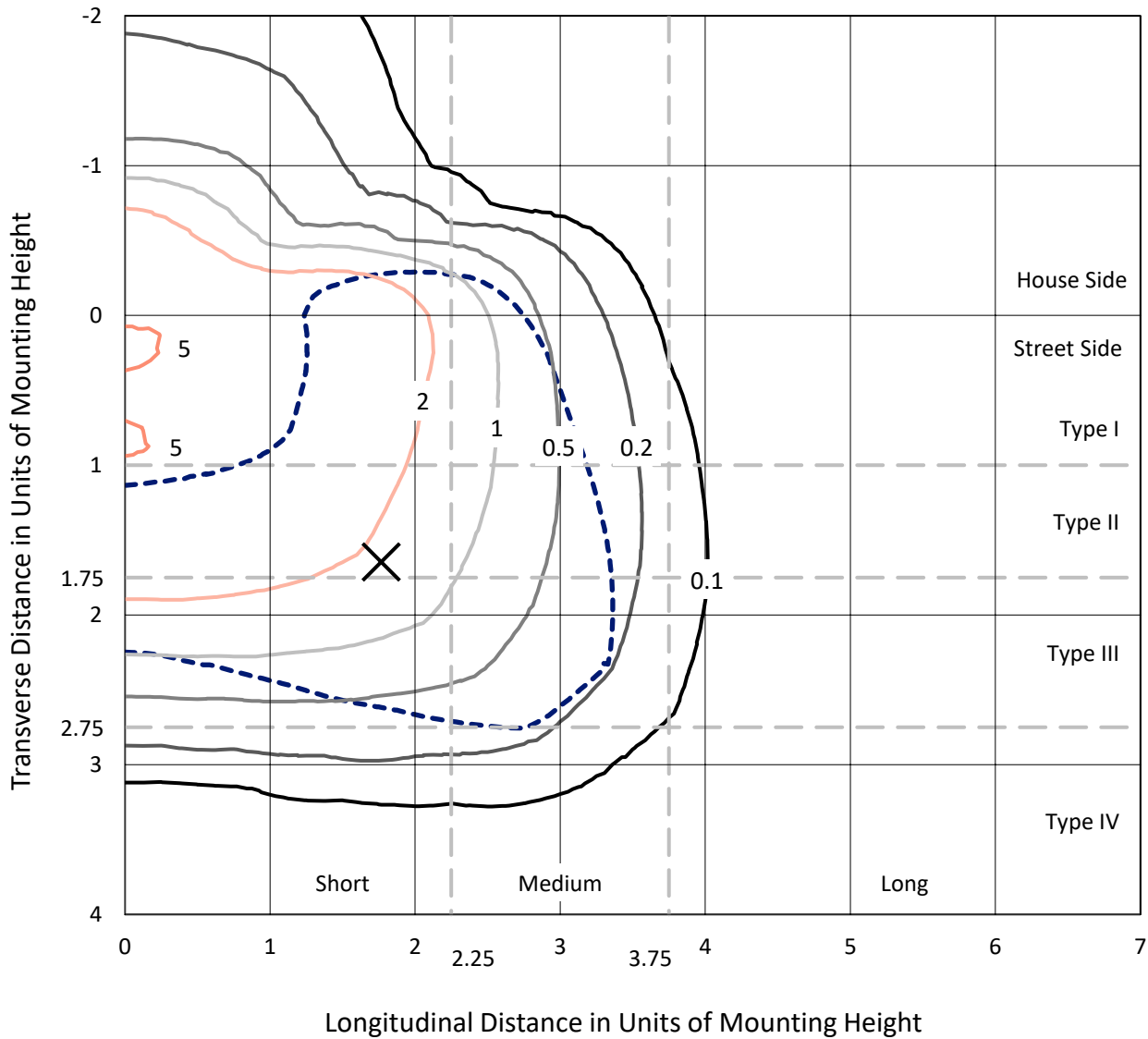
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

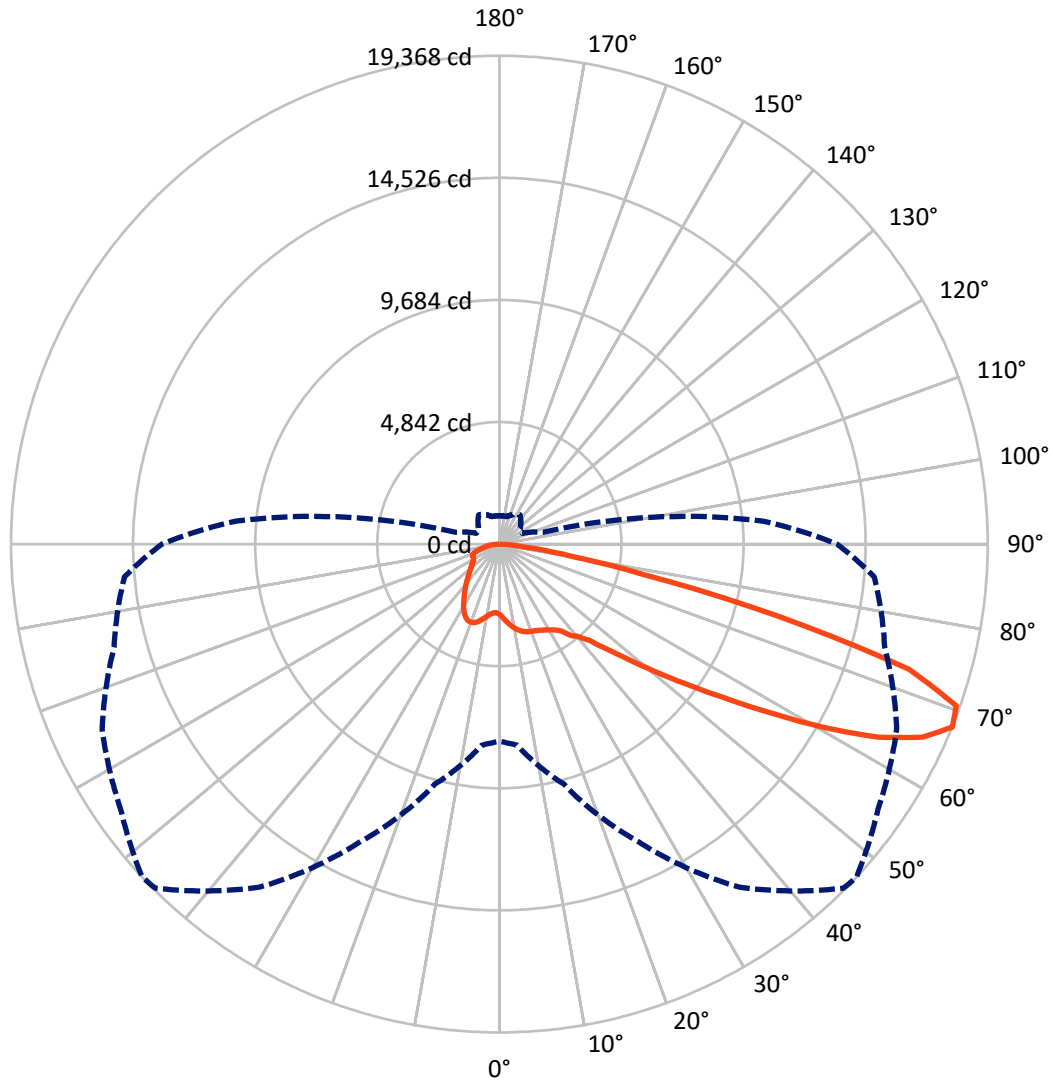
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6415.9	0.0	6415.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	21735.6	0.0	21735.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	28151.5	0.0	28151.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.0
10°-20°	950.2	3.4
20°-30°	1615.1	5.7
30°-40°	2366.0	8.4
40°-50°	3604.9	12.8
50°-60°	6449.9	22.9
60°-70°	8606.7	30.6
70°-80°	3892.1	13.8
80°-90°	381.3	1.4
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°	28151.5	100.0
0°-180°	28151.5	100.0

Coefficient of Utilization



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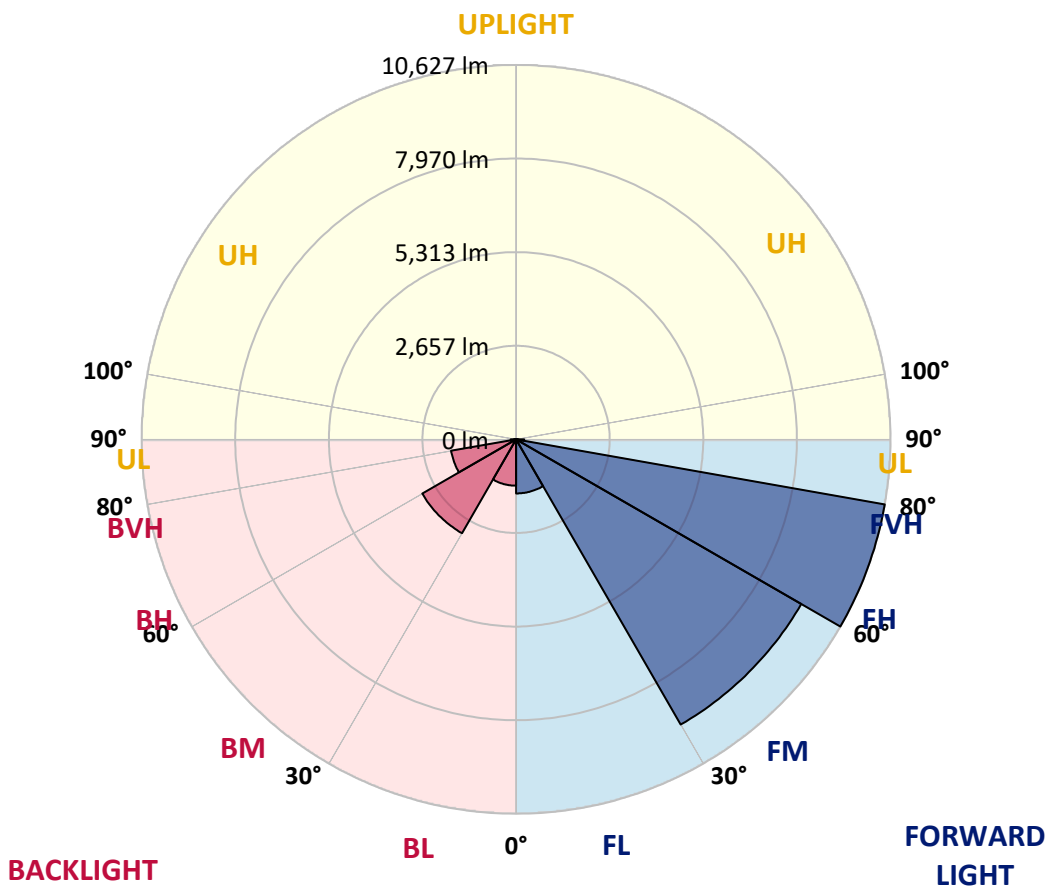
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.3	5.5			
FM (30°-60°)	9346.6	33.2			
FH (60°-80°)	10626.9	37.7			G4/12000
FVH (80°-90°)	226.8	0.8			G3/500
BL (0°-30°)	1315.3	4.7	B3/2500		
BM (30°-60°)	3074.2	10.9	B3/5000		
BH (60°-80°)	1872.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	154.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7
2.5°	2975.9	2986.1	2984.1	2967.8	2957.6	2939.3	2941.3	2912.8	2870.1	2841.6	2809.0
5°	3238.5	3254.8	3234.4	3208.0	3167.3	3108.2	3102.1	3037.0	2955.6	2898.6	2839.6
7.5°	3466.5	3476.7	3452.3	3407.5	3348.4	3269.1	3254.8	3177.5	3075.7	2986.1	2900.6
10°	3643.6	3655.8	3623.2	3564.2	3486.9	3407.5	3397.3	3317.9	3210.0	3104.2	2996.3
12.5°	3794.2	3798.3	3763.7	3684.3	3600.8	3519.4	3509.2	3436.0	3336.2	3228.3	3110.3
15°	3881.7	3883.8	3841.0	3753.5	3674.1	3602.9	3596.8	3533.7	3442.1	3340.3	3214.1
17.5°	3875.6	3879.7	3849.2	3771.8	3702.6	3659.9	3653.8	3613.1	3541.8	3450.2	3324.0
20°	3800.3	3804.4	3784.0	3733.2	3696.5	3684.3	3686.3	3674.1	3631.4	3556.1	3427.8
22.5°	3741.3	3747.4	3729.1	3692.4	3688.4	3716.9	3723.0	3729.1	3708.7	3641.6	3517.4
25°	3769.8	3780.0	3751.5	3700.6	3708.7	3771.8	3784.0	3804.4	3788.1	3731.1	3623.2
27.5°	3967.2	3973.3	3900.1	3796.3	3771.8	3839.0	3857.3	3889.9	3877.7	3824.8	3741.3
30°	4425.2	4421.2	4264.4	4010.0	3908.2	3934.7	3948.9	3995.7	3999.8	3965.2	3885.8
32.5°	5070.5	5050.1	4807.9	4402.8	4107.7	4042.6	4058.8	4121.9	4168.8	4132.1	4024.2
35°	5752.4	5734.1	5467.4	4993.1	4476.1	4250.2	4231.9	4280.7	4352.0	4250.2	4095.5
37.5°	6401.7	6373.2	6100.5	5514.2	4930.0	4614.5	4588.1	4539.2	4496.5	4301.1	4183.0
40°	7122.3	7089.7	6851.6	6188.0	5430.8	4893.4	4826.2	4632.9	4594.2	4470.0	4411.0
42.5°	7891.7	7891.7	7694.3	7040.9	6035.3	5292.4	5204.8	4913.8	4954.5	4873.0	4803.8
45°	8661.2	8683.5	8526.8	7899.9	6843.4	6045.5	5905.1	5491.8	5589.6	5552.9	5518.3
47.5°	9316.6	9359.3	9328.8	8777.2	7832.7	6961.5	6747.8	6318.3	6527.9	6615.5	6713.2
50°	10022.9	10069.7	10039.2	9821.4	8990.9	8070.9	7879.5	7435.8	7796.1	8058.6	8378.2
52.5°	11071.2	11138.4	10884.0	10800.5	10397.5	9330.8	9159.9	8655.1	9308.5	9744.1	10456.5
55°	11956.7	11954.6	11865.1	12056.4	11907.8	10871.7	10682.4	10224.4	11059.0	11521.1	12563.3
57.5°	12367.8	12416.7	12724.1	13265.5	13562.7	12754.6	12573.4	12105.3	12937.8	13178.0	14303.6
60°	12579.5	12640.6	13235.0	14305.7	15105.6	14810.5	14739.2	14142.8	14611.0	14582.5	15771.2
62.5°	12282.4	12404.5	13359.1	14782.0	16206.8	16876.5	16854.1	15952.4	16033.8	15755.0	16681.1
65°	10918.6	11050.9	12549.0	14543.8	16835.8	18448.0	18454.1	17591.0	17126.9	16324.9	16528.5
67.5°	7808.3	7997.6	9849.9	13013.1	16614.0	19296.8	19368.0	18334.0	17383.4	15820.1	14924.5
70°	4256.3	4394.7	5846.0	9459.1	14615.1	19093.2	19225.5	17975.7	16251.6	13684.8	11488.5
72.5°	1933.7	1978.5	2719.5	5190.6	9984.2	16434.8	16988.5	16042.0	13346.9	10108.4	7305.5
75°	885.5	905.8	1184.7	2483.3	5217.1	10997.9	11386.7	11948.5	9288.1	6383.4	3808.5
77.5°	555.7	561.8	673.8	1135.8	2601.4	5489.8	5899.0	7114.2	5438.9	3159.1	1591.8
80°	327.7	333.8	419.3	614.7	1221.3	2511.8	2900.6	2813.1	2556.6	1363.8	724.6
82.5°	164.9	171.0	242.2	350.1	665.6	999.4	1176.5	1182.6	952.6	738.9	409.1
85°	59.0	61.1	79.4	138.4	282.9	329.8	368.4	449.9	466.1	429.5	197.4
87.5°	0.0	0.0	2.0	4.1	8.1	32.6	34.6	65.1	136.4	152.7	79.4
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°	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7	2790.7
2.5°	2798.8	2768.3	2758.1	2748.0	2731.7	2725.6	2713.4	2701.1	2701.1	2688.9	2682.8
5°	2813.1	2772.4	2745.9	2733.7	2723.5	2729.6	2729.6	2733.7	2748.0	2739.8	2743.9
7.5°	2864.0	2817.2	2780.5	2770.3	2770.3	2794.8	2811.1	2831.4	2857.9	2861.9	2861.9
10°	2953.5	2898.6	2859.9	2853.8	2864.0	2898.6	2923.0	2947.4	2980.0	2982.0	2986.1
12.5°	3051.3	2996.3	2957.6	2965.8	2975.9	3020.7	3047.2	3067.5	3100.1	3100.1	3098.1
15°	3153.0	3092.0	3059.4	3075.7	3106.2	3157.1	3161.2	3163.2	3179.5	3175.4	3173.4
17.5°	3258.9	3193.7	3169.3	3193.7	3226.3	3250.7	3230.4	3201.9	3195.8	3187.6	3183.6
20°	3362.7	3295.5	3285.3	3303.7	3313.8	3293.5	3230.4	3177.5	3153.0	3140.8	3136.7
22.5°	3452.3	3395.3	3389.1	3389.1	3338.3	3267.0	3173.4	3102.1	3069.6	3053.3	3049.2
25°	3558.1	3505.2	3495.0	3440.0	3309.8	3179.5	3053.3	2988.2	2961.7	2953.5	2955.6
27.5°	3682.3	3645.6	3613.1	3456.3	3228.3	3024.8	2882.3	2853.8	2843.6	2853.8	2859.9
30°	3834.9	3798.3	3725.0	3436.0	3098.1	2823.3	2686.9	2684.9	2715.4	2741.9	2745.9
32.5°	3959.1	3942.8	3822.7	3370.8	2914.9	2601.4	2485.4	2493.5	2548.5	2585.1	2591.2
35°	4056.8	4083.3	3904.1	3262.9	2697.1	2391.7	2300.1	2304.2	2334.7	2385.6	2387.7
37.5°	4195.2	4284.8	3977.4	3098.1	2446.7	2210.6	2127.1	2096.6	2092.5	2106.8	2110.8
40°	4474.1	4608.4	4030.3	2857.9	2204.5	2047.7	1954.1	1895.1	1844.2	1805.5	1793.3
42.5°	4895.4	5050.1	4060.9	2566.8	1988.7	1886.9	1781.1	1705.8	1616.2	1534.8	1506.3
45°	5668.9	5719.8	4060.9	2257.4	1797.4	1736.3	1630.5	1540.9	1426.9	1331.2	1310.9
47.5°	6906.5	6743.7	4064.9	1958.2	1628.4	1604.0	1512.4	1410.6	1284.4	1205.0	1192.8
50°	8771.1	8199.1	4148.4	1709.8	1488.0	1492.0	1424.9	1312.9	1198.9	1139.9	1129.7
52.5°	10884.0	9992.4	4372.3	1526.6	1369.9	1400.4	1363.8	1255.9	1154.1	1103.3	1093.1
55°	12870.6	11641.2	4563.6	1396.4	1270.2	1323.1	1321.1	1221.3	1129.7	1078.8	1072.7
57.5°	14560.1	12770.9	4535.1	1290.5	1184.7	1251.8	1282.4	1198.9	1113.4	1070.7	1064.6
60°	15610.4	13369.3	4130.1	1192.8	1119.5	1201.0	1260.0	1192.8	1121.6	1111.4	1113.4
62.5°	16066.4	13259.4	3352.5	1119.5	1076.8	1176.5	1284.4	1235.6	1196.9	1221.3	1235.6
65°	15358.0	12314.9	2467.1	1064.6	1036.1	1182.6	1341.4	1302.7	1196.9	1213.2	1219.3
67.5°	13391.7	10483.0	1783.1	1009.6	985.2	1201.0	1422.8	1292.6	1127.7	1127.7	1115.5
70°	9650.4	7539.6	1294.6	954.7	934.3	1174.5	1426.9	1223.4	1048.3	1042.2	1011.7
72.5°	5807.4	4447.6	1009.6	893.6	857.0	1042.2	1337.3	1141.9	970.9	920.1	883.4
75°	3016.6	2228.9	846.8	826.4	734.8	883.4	1223.4	1015.7	830.5	785.7	765.4
77.5°	1292.6	1042.2	726.7	736.9	610.7	743.0	987.2	879.3	736.9	679.9	661.5
80°	637.1	592.3	574.0	590.3	488.5	574.0	850.8	769.4	624.9	559.8	533.3
82.5°	364.4	346.0	413.2	419.3	348.1	480.4	718.5	651.4	517.0	445.8	403.0
85°	168.9	181.2	250.4	252.4	215.8	329.8	470.2	366.4	274.8	228.0	217.8
87.5°	67.2	79.4	109.9	107.9	63.1	61.1	40.7	22.4	18.3	16.3	14.2
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)