

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: P642178

Luminaire Tested: GWS-SA6C-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24647.8 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

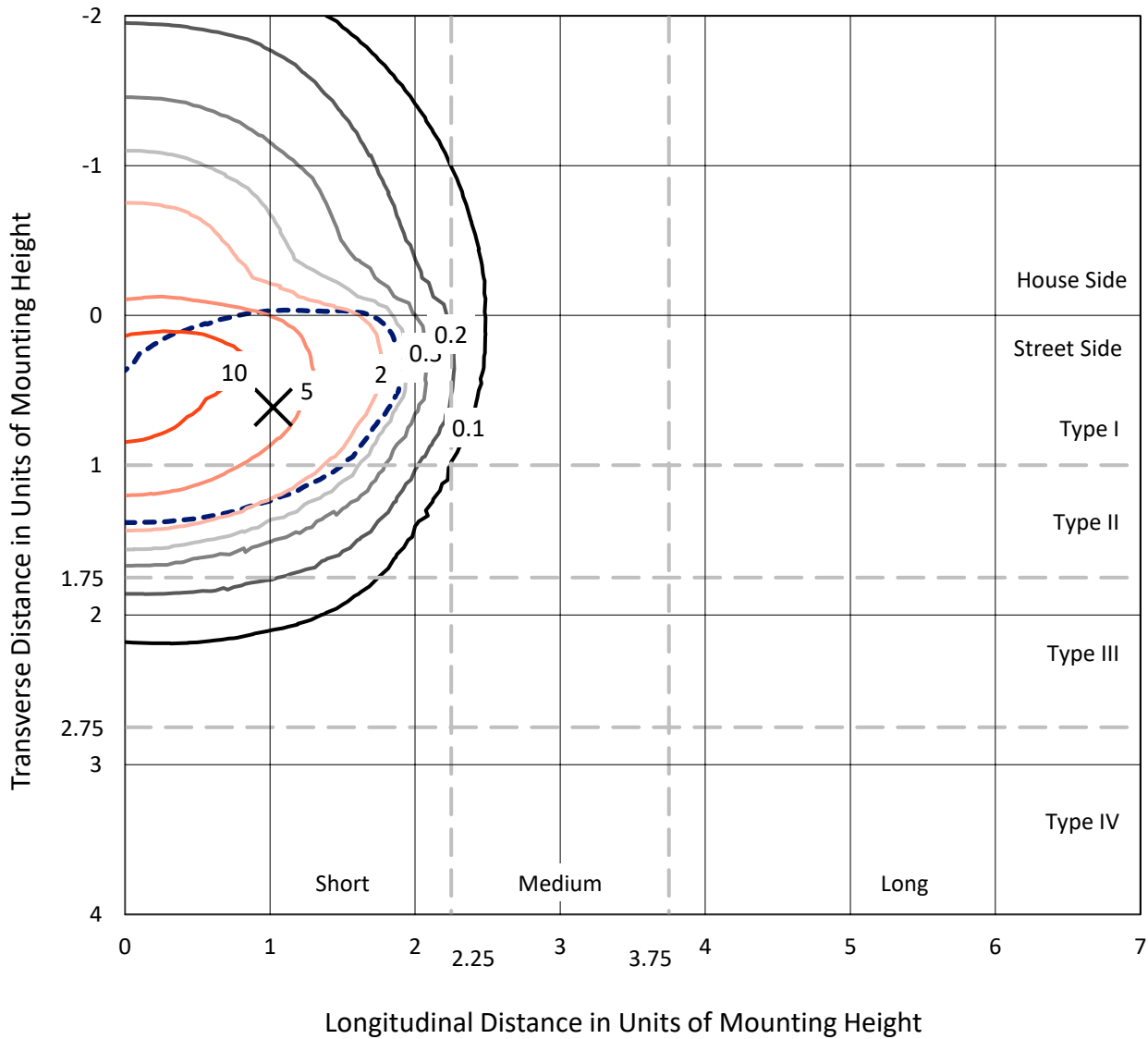
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

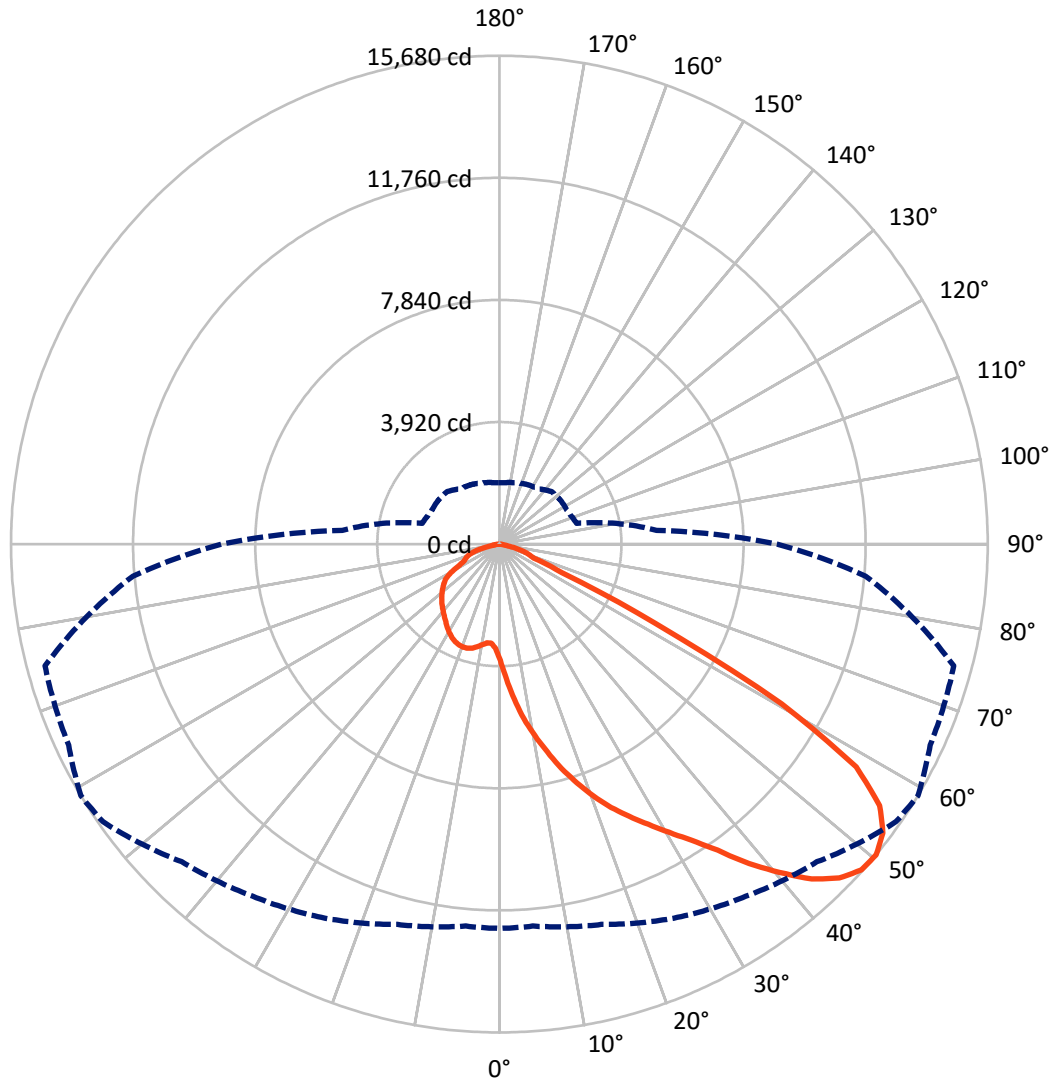
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

REPORT NUMBER: P642178
CATALOG NUMBER: GWS-SA6C-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.5	0.0	5669.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	18978.3	0.0	18978.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	24647.8	0.0	24647.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.9	1.7
10°-20°	1520.8	6.2
20°-30°	2879.7	11.7
30°-40°	4775.5	19.4
40°-50°	6523.6	26.5
50°-60°	5921.7	24.0
60°-70°	1972.0	8.0
70°-80°	575.2	2.3
80°-90°	60.4	0.2
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°	24647.8	100.0
0°-180°	24647.8	100.0

Coefficient of Utilization



REPORT NUMBER: P642178

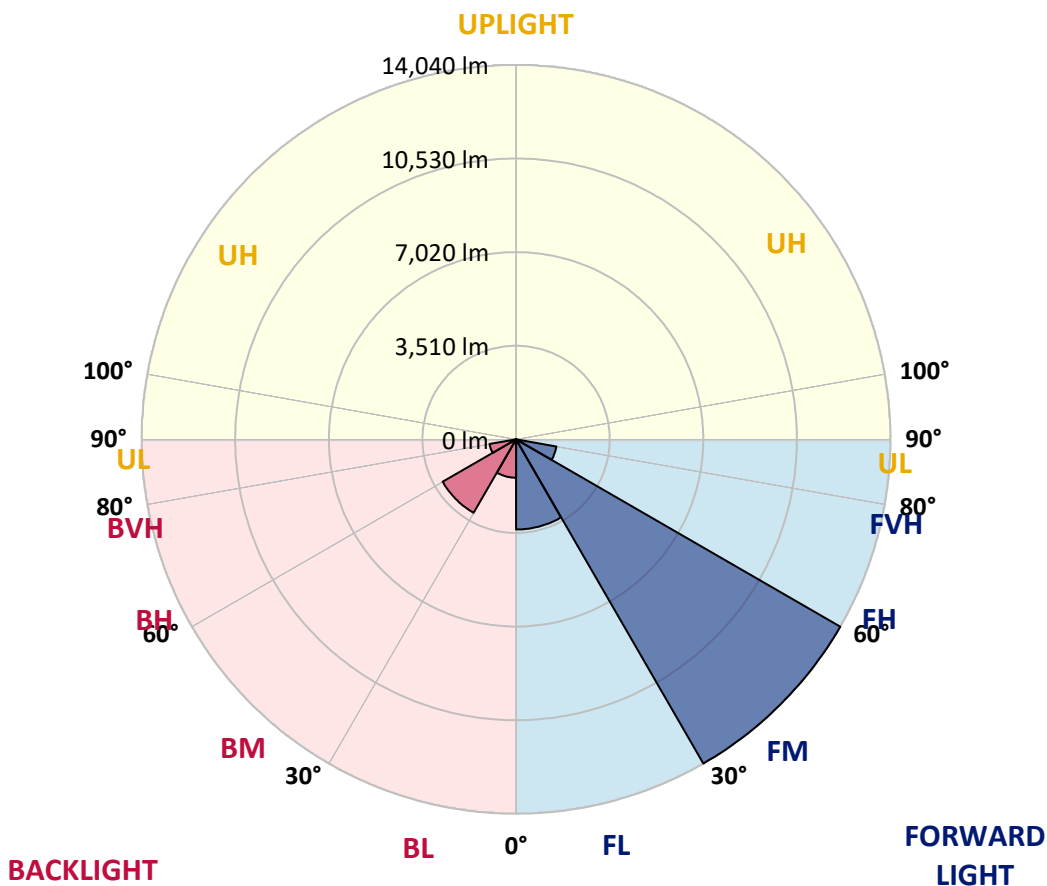
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.8	13.7			
FM (30°-60°)	14039.7	57.0			
FH (60°-80°)	1535.2	6.2			G1/1800
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1439.6	5.8	B3/2500		
BM (30°-60°)	3181.1	12.9	B3/5000		
BH (60°-80°)	1011.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	36.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P642178

CATALOG NUMBER: GWS-SA6C-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	4838.5	4874.7	4818.5	4822.5	4681.9	4617.7	4437.0	4330.6	4260.3	4063.6	3884.9
5°	5814.3	5772.1	5728.0	5701.9	5579.4	5406.7	5181.9	5003.2	4838.5	4453.1	4081.6
7.5°	6412.6	6390.5	6360.4	6344.3	6223.9	6043.2	5818.3	5665.7	5426.8	4904.8	4320.6
10°	6920.5	6894.4	6876.4	6888.4	6790.0	6673.6	6428.6	6254.0	5984.9	5382.6	4609.7
12.5°	7314.0	7328.1	7334.1	7398.4	7356.2	7285.9	7033.0	6848.3	6549.1	5886.6	4949.0
15°	7625.2	7621.2	7691.5	7814.0	7882.2	7838.0	7635.3	7480.7	7115.3	6382.5	5314.4
17.5°	7697.5	7701.5	7811.9	8026.8	8249.6	8358.0	8243.6	8058.9	7697.5	6872.3	5693.8
20°	7755.7	7763.8	7878.2	8123.1	8448.4	8751.6	8769.6	8637.1	8325.9	7402.4	6079.3
22.5°	8123.1	8141.2	8171.3	8325.9	8619.0	9002.5	9213.3	9185.2	8924.2	7958.5	6494.9
25°	9088.8	9034.6	8888.1	8843.9	8956.3	9267.5	9626.9	9681.1	9552.6	8570.9	6942.6
27.5°	10281.4	10223.2	10006.4	9777.5	9534.6	9643.0	10026.4	10189.1	10191.1	9245.4	7392.3
30°	11363.6	11317.4	11140.7	10813.5	10393.8	10237.2	10520.3	10739.2	10869.7	10024.4	7904.3
32.5°	12289.1	12247.0	12008.0	11741.0	11331.4	11016.2	11118.6	11329.4	11634.6	11032.3	8540.7
35°	13068.1	13025.9	12797.1	12528.0	12148.6	11959.8	11923.7	12068.3	12463.8	12084.3	9271.5
37.5°	13700.5	13658.4	13419.4	13166.5	12877.4	12889.4	12943.6	13013.9	13240.8	13210.6	10052.5
40°	14110.1	14065.9	13895.3	13714.6	13531.9	13676.4	13945.5	13861.1	13981.6	14120.1	10771.3
42.5°	14292.8	14236.6	14138.2	14098.0	14041.8	14266.7	14784.7	14700.4	14555.8	14726.5	11305.3
45°	14110.1	14061.9	14059.9	14182.4	14312.9	14602.0	15364.9	15296.6	14931.2	15019.6	11624.6
47.5°	13549.9	13507.8	13622.2	13943.5	14264.7	14686.3	15623.9	15635.9	15198.3	15142.0	11831.4
50°	12339.3	12311.2	12642.5	13250.8	13804.9	14423.3	15541.6	15680.1	15262.5	15103.9	11805.3
52.5°	9877.9	10008.4	10729.1	11745.0	12821.2	13961.5	15236.4	15417.1	14953.3	14852.9	11664.7
55°	6761.9	6822.2	7542.9	9026.6	10733.1	12961.7	14535.7	14814.8	14587.9	14810.8	11811.3
57.5°	3501.4	3549.6	4117.8	5434.8	7279.9	10243.3	12590.3	13505.8	13851.1	15023.6	12267.0
60°	1437.5	1477.7	1712.6	2349.0	3672.1	5964.9	9060.7	10417.9	11229.0	13720.6	10893.8
62.5°	1044.0	1064.1	1176.5	1401.4	1923.4	2923.2	5127.7	5627.6	6197.8	8599.0	6916.5
65°	879.4	901.5	991.8	1128.3	1403.4	1792.9	2190.4	2202.4	2427.3	3503.4	2563.8
67.5°	736.8	756.9	837.2	953.7	1134.3	1272.9	1176.5	1178.5	1174.5	1270.9	1228.7
70°	574.2	590.3	670.6	795.0	889.4	817.1	919.5	1017.9	975.7	1013.9	1072.1
72.5°	419.6	437.7	507.9	602.3	578.2	582.2	744.9	845.2	821.1	863.3	917.5
75°	303.2	315.2	351.3	301.2	317.2	383.5	524.0	578.2	602.3	638.4	686.6
77.5°	98.4	98.4	110.4	138.5	172.7	212.8	267.0	289.1	325.2	365.4	399.5
80°	50.2	52.2	62.2	76.3	96.4	122.5	156.6	166.6	184.7	206.8	220.8
82.5°	24.1	26.1	30.1	38.1	50.2	64.2	86.3	96.4	108.4	122.5	132.5
85°	6.0	6.0	8.0	12.0	16.1	24.1	32.1	38.1	48.2	58.2	64.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.0	8.0	10.0	12.0	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P642178

CATALOG NUMBER: GWS-SA6C-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	3804.6	3692.2	3547.6	3425.1	3312.7	3226.4	3152.1	3115.9	3081.8	3057.7	3065.8
5°	3909.0	3716.2	3447.2	3260.5	3146.1	3087.8	3047.7	3027.6	3023.6	3007.5	3001.5
7.5°	4061.6	3786.5	3427.1	3238.4	3162.1	3132.0	3109.9	3097.9	3103.9	3087.8	3081.8
10°	4250.3	3903.0	3477.3	3310.7	3244.4	3222.4	3198.3	3182.2	3174.2	3150.1	3146.1
12.5°	4485.2	4047.5	3567.7	3403.0	3336.8	3298.6	3266.5	3238.4	3220.3	3190.2	3182.2
15°	4738.2	4208.1	3674.1	3493.4	3415.1	3358.9	3306.7	3264.5	3232.4	3192.2	3186.2
17.5°	5013.2	4376.8	3762.4	3555.6	3455.2	3381.0	3304.7	3242.4	3198.3	3146.1	3140.0
20°	5300.3	4547.4	3828.7	3585.7	3457.3	3356.9	3254.5	3172.2	3115.9	3063.7	3059.7
22.5°	5597.5	4704.0	3868.8	3577.7	3425.1	3300.7	3178.2	3085.8	3019.6	2957.3	2953.3
25°	5896.6	4854.6	3878.9	3545.6	3360.9	3216.3	3093.9	2985.4	2911.2	2840.9	2832.9
27.5°	6199.8	4981.1	3854.8	3481.3	3274.6	3118.0	2995.5	2889.1	2812.8	2742.5	2730.5
30°	6523.0	5089.5	3802.6	3397.0	3174.2	3013.6	2893.1	2812.8	2740.5	2670.2	2658.2
32.5°	6868.3	5183.9	3728.3	3294.6	3057.7	2909.2	2820.8	2748.5	2676.3	2614.0	2602.0
35°	7279.9	5246.1	3617.9	3162.1	2949.3	2832.9	2772.6	2688.3	2600.0	2531.7	2525.7
37.5°	7705.5	5294.3	3485.4	3035.6	2854.9	2788.7	2738.5	2624.1	2513.6	2431.3	2421.3
40°	8117.1	5334.5	3320.7	2917.2	2768.6	2756.6	2688.3	2545.8	2355.0	2262.7	2254.6
42.5°	8500.6	5346.5	3148.1	2790.7	2690.3	2684.3	2608.0	2387.2	2240.6	2182.4	2174.3
45°	8763.6	5336.5	2969.4	2672.2	2612.0	2579.9	2499.6	2272.7	2182.4	2130.2	2120.1
47.5°	8958.3	5284.3	2768.6	2547.8	2523.7	2479.5	2306.8	2200.4	2116.1	2063.9	2053.9
50°	8924.2	5067.4	2565.8	2427.3	2417.3	2379.1	2166.3	2110.1	2035.8	1979.6	1971.6
52.5°	8747.5	4655.8	2359.0	2294.8	2314.9	2240.6	2065.9	2001.7	1937.4	1873.2	1859.1
55°	8791.7	4358.7	2202.4	2166.3	2202.4	2033.8	1953.5	1885.2	1825.0	1762.8	1750.7
57.5°	8984.4	4065.6	2035.8	2027.8	2065.9	1875.2	1808.9	1722.6	1636.3	1586.1	1586.1
60°	7544.9	2963.4	1742.7	1762.8	1849.1	1746.7	1688.5	1600.1	1505.8	1461.6	1461.6
62.5°	4461.1	1859.1	1445.5	1423.5	1477.7	1541.9	1574.0	1501.8	1389.3	1331.1	1333.1
65°	1965.5	1353.2	1274.9	1256.8	1240.8	1284.9	1373.3	1379.3	1260.8	1192.6	1194.6
67.5°	1210.6	1224.7	1192.6	1178.5	1164.5	1156.4	1148.4	1152.4	1120.3	1058.1	1056.0
70°	1092.2	1130.3	1108.2	1096.2	1078.1	1064.1	1015.9	937.6	883.4	867.3	885.4
72.5°	939.6	991.8	979.8	973.7	951.6	917.5	853.3	777.0	712.7	672.6	680.6
75°	708.7	750.9	756.9	758.9	734.8	702.7	636.4	572.2	516.0	473.8	483.9
77.5°	407.6	431.7	437.7	443.7	425.6	413.6	369.4	323.2	293.1	249.0	261.0
80°	226.9	236.9	236.9	238.9	228.9	214.8	184.7	158.6	144.6	124.5	126.5
82.5°	136.5	140.5	142.5	144.6	138.5	124.5	102.4	84.3	76.3	66.3	64.2
85°	66.3	70.3	70.3	72.3	62.2	54.2	42.2	32.1	28.1	20.1	22.1
87.5°	16.1	18.1	18.1	16.1	14.1	10.0	6.0	2.0	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)