

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: P643149

Luminaire Tested: GWS-SA6E-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 36974.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

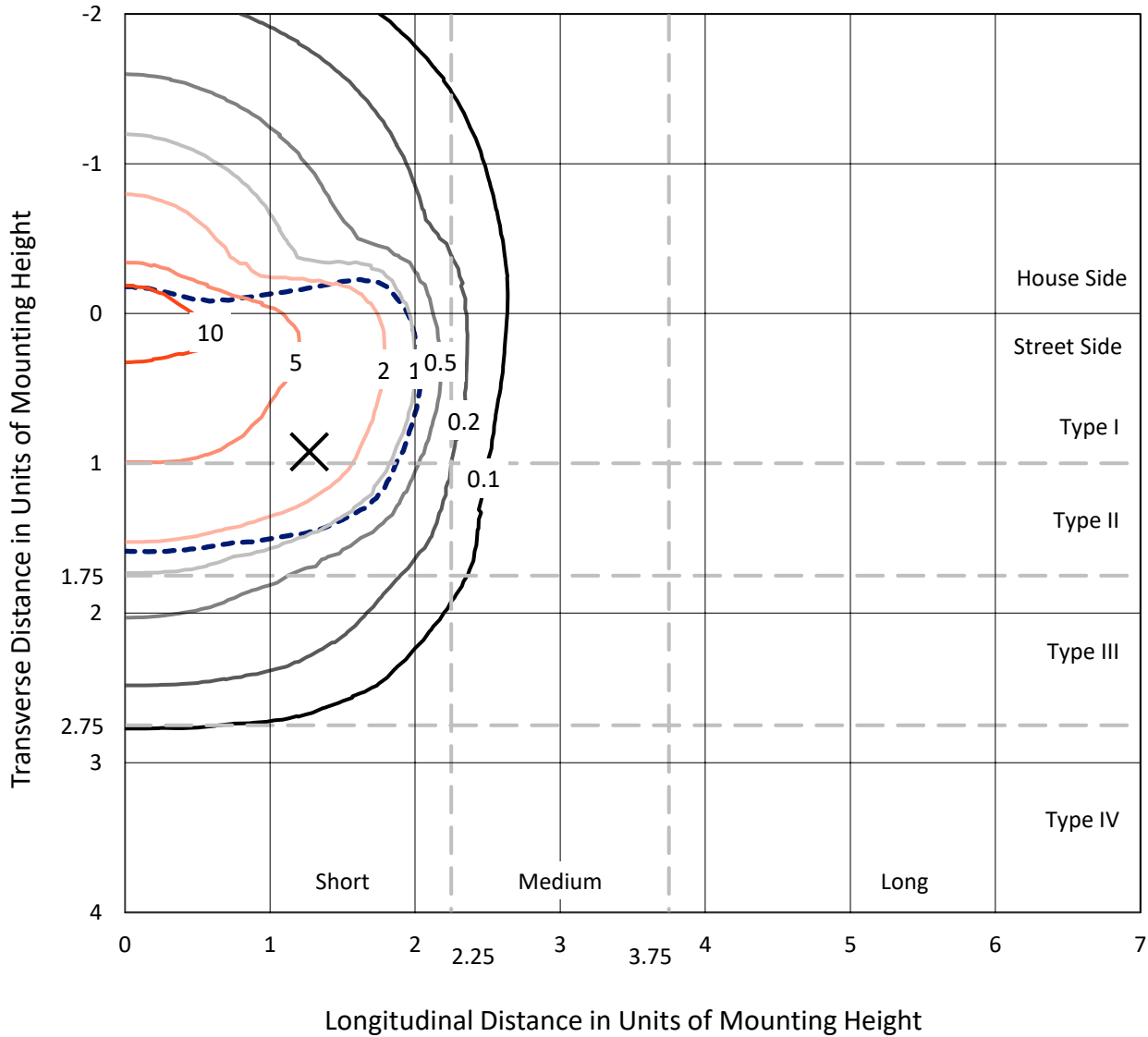
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643149
 CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

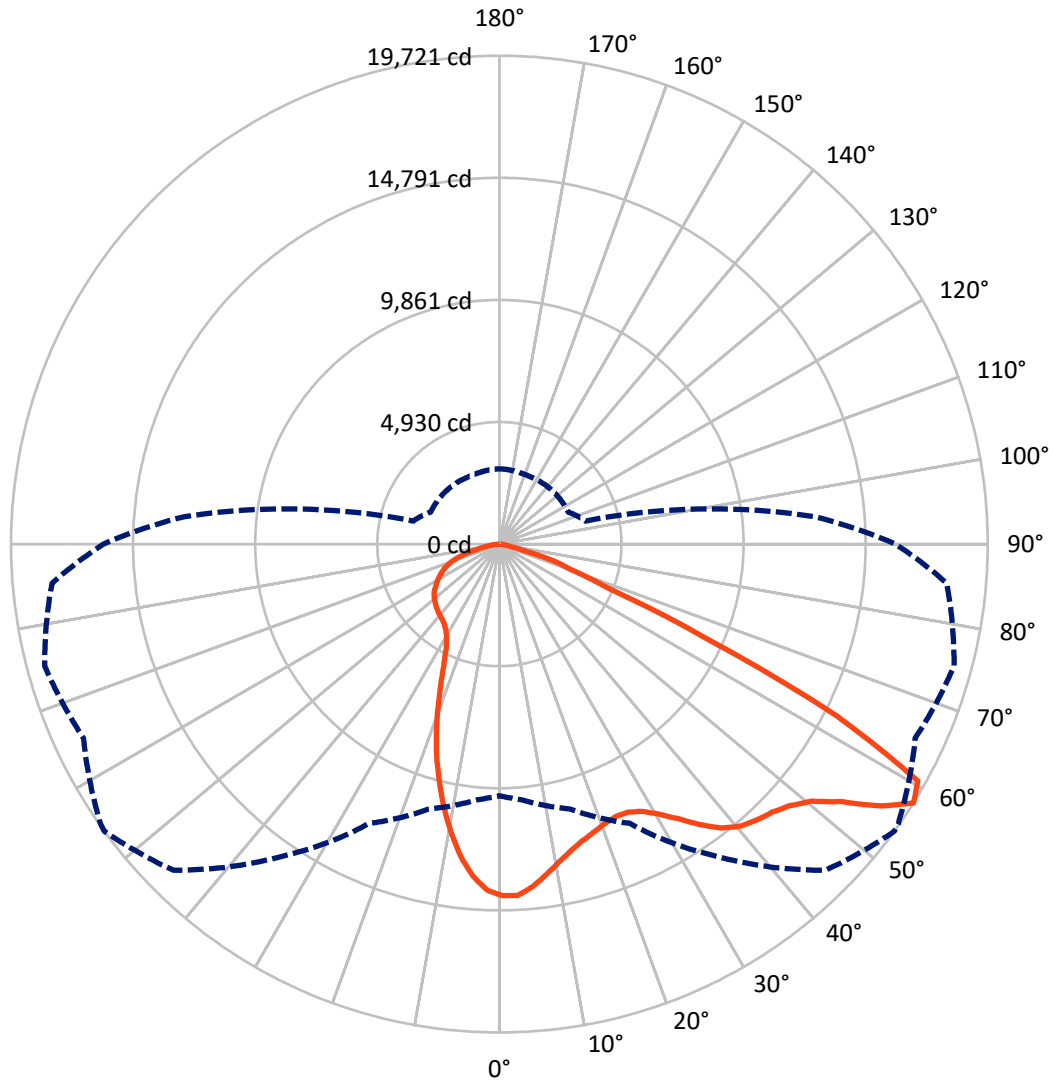
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

REPORT NUMBER: P643149
CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643149

CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10748.8	0.0	10748.8
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	26225.4	0.0	26225.4
	% Fixture	70.9	0.0	70.9
Total	Lumens	36974.2	0.0	36974.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.7	3.4
10°-20°	2977.3	8.1
20°-30°	4120.1	11.1
30°-40°	5724.9	15.5
40°-50°	7560.9	20.4
50°-60°	8985.0	24.3
60°-70°	4977.8	13.5
70°-80°	1239.6	3.4
80°-90°	141.0	0.4
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°	36974.2	100.0
0°-180°	36974.2	100.0

Coefficient of Utilization



REPORT NUMBER: P643149

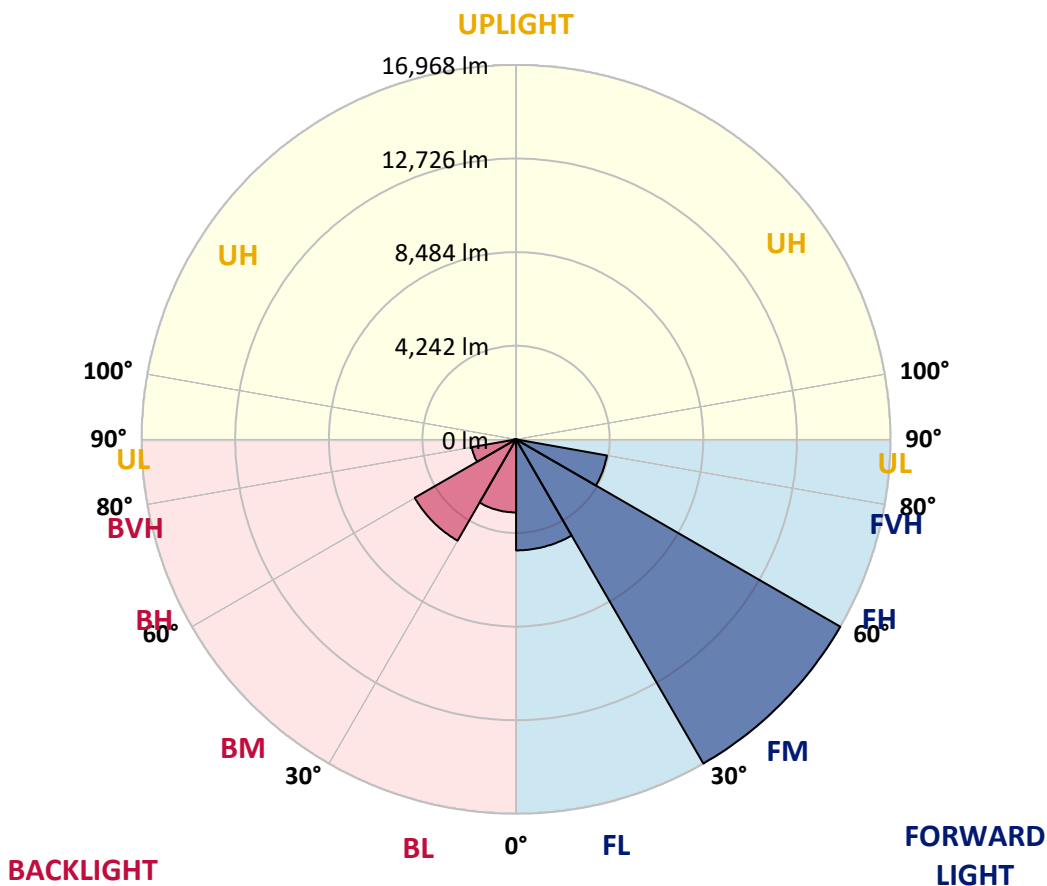
CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5032.8	13.6			
FM (30°-60°)	16968.1	45.9			
FH (60°-80°)	4180.4	11.3			G2/5000
FVH (80°-90°)	44.1	0.1			G1/100
BL (0°-30°)	3312.3	9.0	B4/5000		
BM (30°-60°)	5302.7	14.3	B4/8500		
BH (60°-80°)	2037.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	96.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P643149

CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2
2.5°	13929.4	13957.9	13976.8	14043.3	14100.3	14150.9	14204.7	14204.7	14201.6	14192.1	14173.1
5°	13378.7	13410.3	13454.6	13546.4	13669.8	13758.5	13904.1	13916.7	13980.0	14005.3	13992.7
7.5°	12739.3	12748.8	12805.8	12926.1	13122.3	13280.5	13489.4	13514.7	13666.7	13755.3	13739.5
10°	12039.8	12008.2	12109.5	12286.7	12543.1	12808.9	13078.0	13100.1	13343.8	13511.6	13498.9
12.5°	11400.5	11403.7	11504.9	11720.2	12039.8	12369.0	12729.8	12780.5	13081.1	13296.4	13274.2
15°	10865.6	10878.3	11001.7	11245.4	11609.4	12001.9	12451.3	12498.8	12878.6	13163.4	13100.1
17.5°	10438.3	10451.0	10558.6	10837.1	11226.4	11701.2	12248.7	12296.2	12767.8	13106.5	12976.7
20°	10144.0	10137.6	10242.1	10508.0	10909.9	11425.8	12071.5	12141.1	12733.0	13128.6	12894.4
22.5°	10023.7	10020.5	10096.5	10314.9	10691.5	11213.8	11963.9	12058.8	12771.0	13226.7	12843.8
25°	10083.8	10071.2	10137.6	10299.1	10599.7	11131.5	11995.5	12096.8	12932.4	13429.3	12853.3
27.5°	10270.6	10254.8	10311.7	10457.3	10685.2	11216.9	12217.1	12334.2	13274.2	13799.6	12979.9
30°	10555.4	10545.9	10602.9	10742.2	10941.6	11501.8	12641.2	12774.1	13802.8	14375.6	13255.2
32.5°	10887.8	10871.9	10973.2	11134.6	11365.7	12020.8	13210.9	13385.0	14429.4	15116.3	13717.3
35°	11261.2	11248.6	11387.8	11622.1	11954.4	12742.5	13900.9	14090.8	15068.8	15955.0	14331.3
37.5°	11625.2	11625.2	11894.2	12242.4	12660.2	13527.4	14549.7	14670.0	15511.9	16698.8	14989.7
40°	11948.1	11967.0	12372.2	12894.4	13426.1	14236.4	14977.0	15078.3	15708.1	17211.5	15562.5
42.5°	12305.7	12321.5	12793.1	13476.8	14109.8	14809.3	15236.5	15287.2	15746.1	17467.9	15967.7
45°	12590.6	12612.7	13198.2	13929.4	14704.8	15239.7	15442.3	15486.6	15799.9	17607.2	16262.0
47.5°	12739.3	12771.0	13442.0	14293.4	15106.8	15625.8	15780.9	15799.9	16021.5	17850.9	16616.5
50°	12714.0	12777.3	13533.7	14473.8	15404.3	16015.1	16325.3	16357.0	16474.1	18208.5	17031.1
52.5°	12938.7	12967.2	13730.0	14689.0	15828.4	16733.6	17271.7	17316.0	17262.2	18477.5	17278.0
55°	12565.2	12701.3	13486.3	14657.3	16474.1	17844.5	18673.8	18651.6	17977.5	18778.2	17689.4
57.5°	10163.0	10362.4	11080.8	12441.8	15410.6	18623.1	19721.4	19667.6	18531.3	19009.3	18135.7
60°	7035.9	7067.5	7716.4	8681.7	11894.2	16451.9	19414.4	19531.5	18632.6	18718.1	17309.6
62.5°	5627.5	5618.0	5678.1	5703.4	7564.5	11565.1	15325.2	15752.4	15480.2	14584.5	12267.7
65°	4804.5	4839.4	5016.6	4924.8	4937.5	6513.7	9156.5	9216.6	9026.7	8703.9	6488.3
67.5°	3760.1	3820.2	4133.6	4491.2	4377.3	4193.7	4750.7	4722.2	3722.1	2880.2	2380.1
70°	2354.8	2392.8	2728.3	3525.9	3810.7	3443.6	3054.3	3041.6	1994.0	1639.5	1797.7
72.5°	1373.6	1380.0	1474.9	1965.5	2528.9	2354.8	2247.2	2164.9	1281.8	1307.2	1433.8
75°	756.4	756.4	753.3	848.2	997.0	883.0	854.6	832.4	857.7	971.7	1066.6
77.5°	158.3	161.4	170.9	224.7	291.2	354.5	446.3	449.4	560.2	648.8	724.8
80°	72.8	76.0	95.0	120.3	155.1	205.7	272.2	275.4	338.7	408.3	458.9
82.5°	38.0	41.1	50.6	63.3	82.3	107.6	151.9	151.9	202.6	240.5	272.2
85°	12.7	12.7	19.0	25.3	34.8	44.3	60.1	60.1	88.6	117.1	136.1
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	12.7	12.7	15.8	19.0	31.7
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: P643149

CATALOG NUMBER: GWS-SA6E-735-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2	14195.2
2.5°	14131.9	14033.8	14037.0	14056.0	13995.8	13904.1	13843.9	13768.0	13720.5	13711.0	13745.8
5°	13929.4	13815.4	13736.3	13654.0	13483.1	13280.5	13122.3	12992.5	12907.1	12875.4	12837.4
7.5°	13650.8	13502.1	13302.7	13071.6	12761.5	12400.7	12147.4	11910.1	11745.5	11698.0	11675.9
10°	13372.3	13157.1	12802.6	12372.2	11856.3	11368.8	10909.9	10558.6	10280.1	10121.8	10172.5
12.5°	13084.3	12818.4	12264.6	11603.1	10884.6	10150.3	9548.9	8966.6	8517.1	8292.4	8226.0
15°	12831.1	12470.3	11698.0	10802.3	9846.5	8922.3	8051.9	7178.3	6608.6	6298.4	6213.0
17.5°	12615.9	12147.4	11099.8	9985.7	8843.1	7526.5	6456.7	5646.4	5257.1	5086.2	5073.6
20°	12403.8	11830.9	10508.0	9105.8	7684.7	6209.8	5254.0	4874.2	4734.9	4674.8	4671.6
22.5°	12213.9	11498.6	9884.4	8226.0	6532.7	5219.2	4693.8	4529.2	4491.2	4491.2	4484.9
25°	12052.5	11166.3	9245.1	7292.3	5491.4	4646.3	4402.6	4332.9	4348.8	4377.3	4380.4
27.5°	11986.0	10906.8	8627.9	6333.3	4772.9	4314.0	4203.2	4193.7	4238.0	4282.3	4288.6
30°	12055.7	10729.5	7994.9	5415.4	4342.4	4111.4	4060.8	4079.7	4133.6	4177.9	4177.9
32.5°	12270.9	10640.9	7349.2	4744.4	4092.4	3969.0	3953.1	3972.1	4013.3	4038.6	4041.8
35°	12634.9	10675.7	6681.4	4291.8	3931.0	3864.5	3861.4	3874.0	3889.8	3905.7	3908.8
37.5°	13093.8	10830.8	5966.1	4029.1	3826.5	3788.6	3782.2	3779.1	3782.2	3782.2	3785.4
40°	13543.2	11065.0	5326.8	3874.0	3753.7	3722.1	3706.3	3684.1	3680.9	3674.6	3671.5
42.5°	13875.6	11245.4	4817.2	3763.2	3687.3	3649.3	3630.3	3595.5	3592.3	3589.2	3586.0
45°	14125.6	11397.3	4393.1	3655.6	3617.6	3582.8	3541.7	3510.0	3516.4	3522.7	3522.7
47.5°	14407.3	11530.3	4082.9	3554.3	3532.2	3497.4	3446.7	3424.6	3446.7	3468.9	3468.9
50°	14749.1	11717.0	3829.7	3453.1	3443.6	3402.4	3358.1	3348.6	3373.9	3405.6	3405.6
52.5°	14999.2	11878.4	3649.3	3351.8	3351.8	3298.0	3260.0	3256.8	3285.3	3317.0	3320.1
55°	15467.6	12255.1	3586.0	3234.7	3222.0	3180.9	3152.4	3130.2	3165.0	3193.5	3193.5
57.5°	15996.1	12755.1	3601.8	3066.9	3051.1	3038.4	3016.3	2991.0	3000.5	3032.1	3035.3
60°	14875.7	11786.6	3427.7	2899.2	2889.7	2883.4	2854.9	2810.6	2823.2	2848.5	2851.7
62.5°	10390.8	7833.5	2772.6	2690.3	2721.9	2718.8	2680.8	2630.2	2633.3	2668.1	2668.1
65°	5393.2	4238.0	2433.9	2500.4	2547.9	2528.9	2465.6	2421.3	2414.9	2459.2	2449.7
67.5°	2326.3	2313.6	2215.5	2301.0	2351.6	2310.5	2244.0	2171.2	2177.6	2193.4	2180.7
70°	1873.7	1930.7	1971.8	2063.6	2104.8	2028.8	1956.0	1914.9	1880.0	1876.9	1854.7
72.5°	1497.1	1576.2	1668.0	1762.9	1775.6	1699.6	1607.8	1569.9	1516.1	1512.9	1490.7
75°	1126.8	1193.2	1266.0	1342.0	1342.0	1269.2	1209.0	1190.1	1126.8	1107.8	1088.8
77.5°	769.1	810.3	867.2	886.2	905.2	876.7	816.6	784.9	712.1	693.1	667.8
80°	484.3	512.7	547.6	560.2	579.2	544.4	496.9	462.1	411.5	395.6	383.0
82.5°	291.2	310.2	332.3	338.7	354.5	329.2	284.9	259.5	231.0	218.4	208.9
85°	148.8	158.3	170.9	174.1	170.9	145.6	129.8	117.1	98.1	95.0	88.6
87.5°	38.0	44.3	47.5	44.3	41.1	31.7	22.2	15.8	6.3	6.3	3.2
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)