

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: P643828

Luminaire Tested: GWS-SA6F-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643828
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-SA6F-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44192.5 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

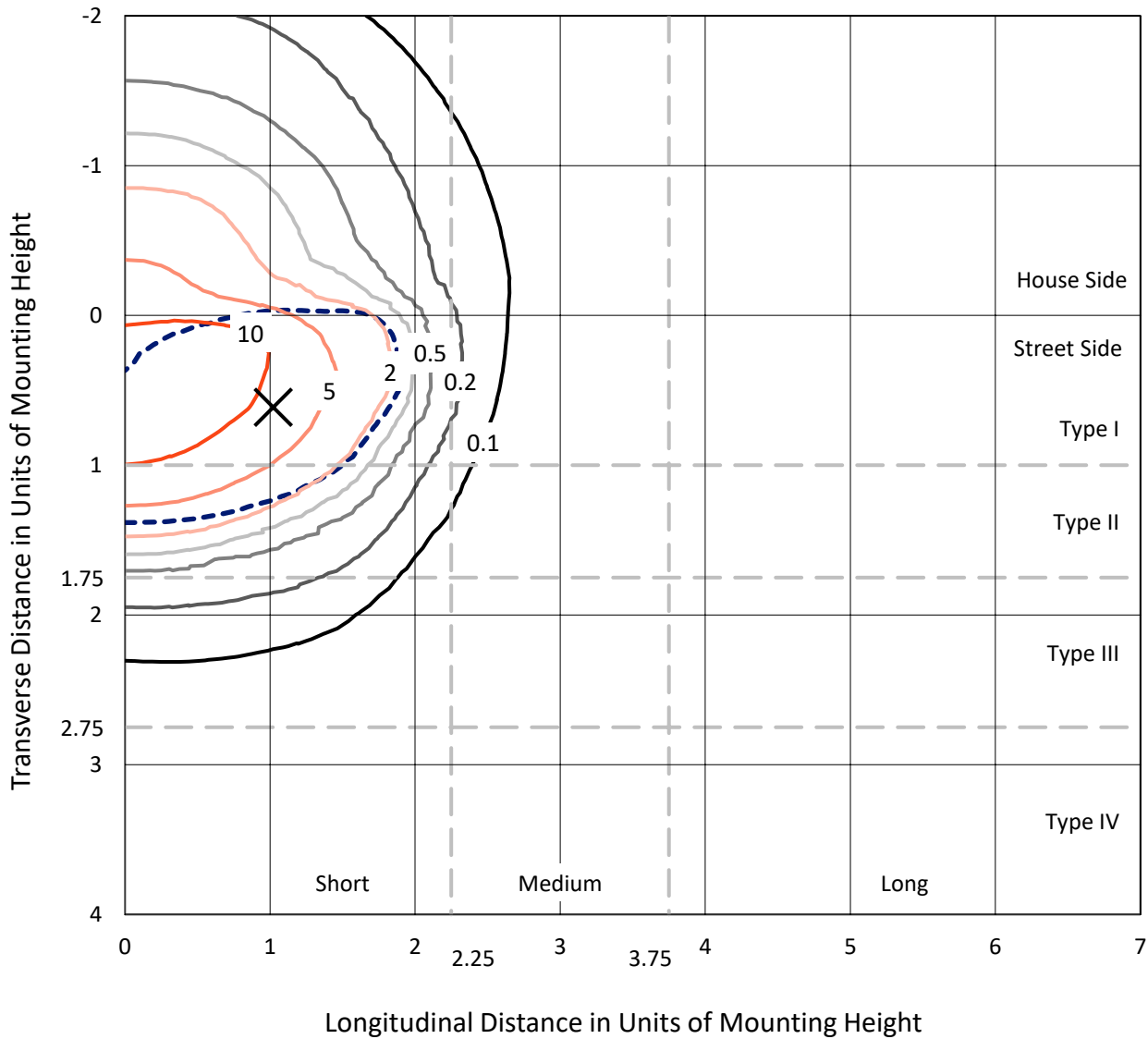
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

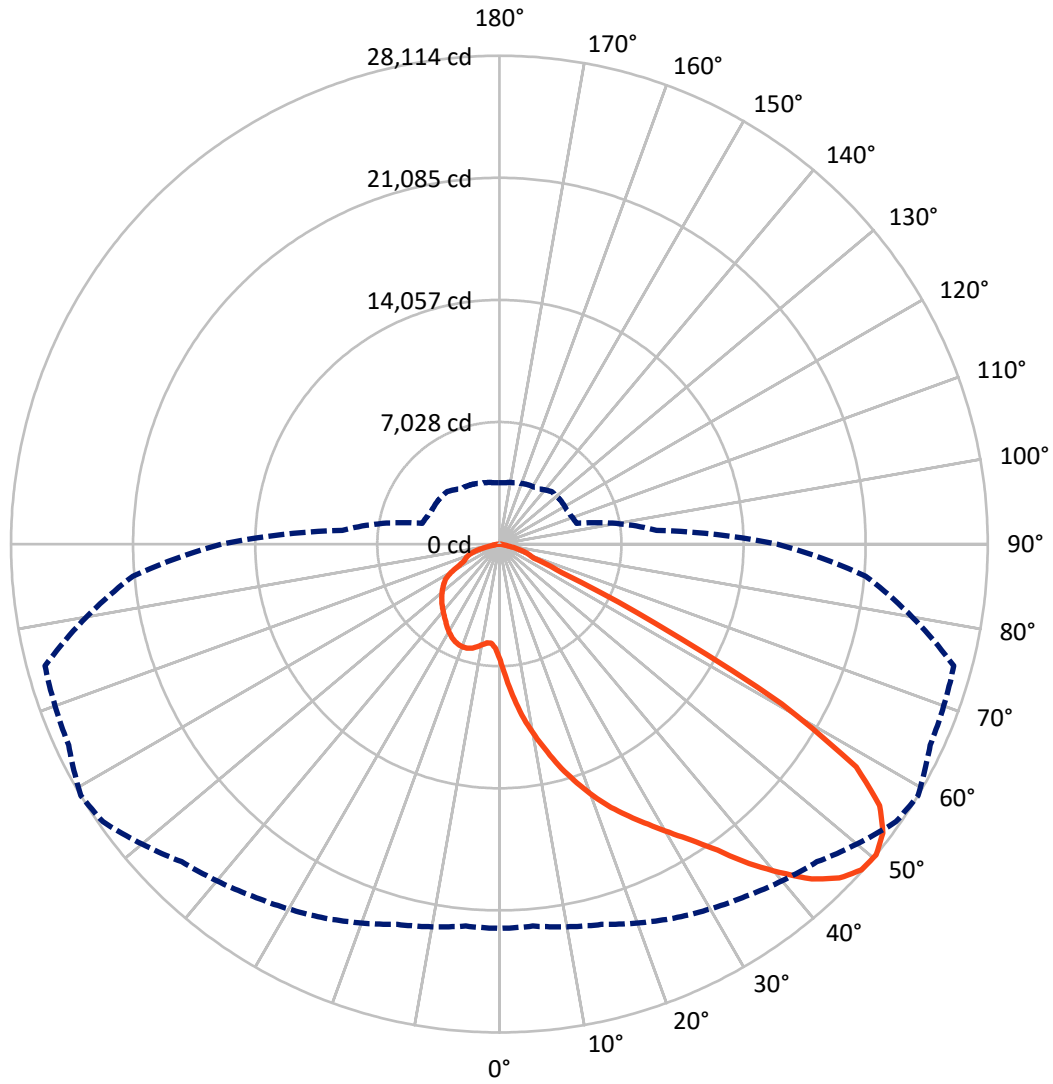
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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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	10165.1	0.0	10165.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	34027.4	0.0	34027.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	44192.5	0.0	44192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.1	1.7
10°-20°	2726.7	6.2
20°-30°	5163.2	11.7
30°-40°	8562.3	19.4
40°-50°	11696.5	26.5
50°-60°	10617.4	24.0
60°-70°	3535.7	8.0
70°-80°	1031.2	2.3
80°-90°	108.3	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°	44192.5	100.0
0°-180°	44192.5	100.0

Coefficient of Utilization



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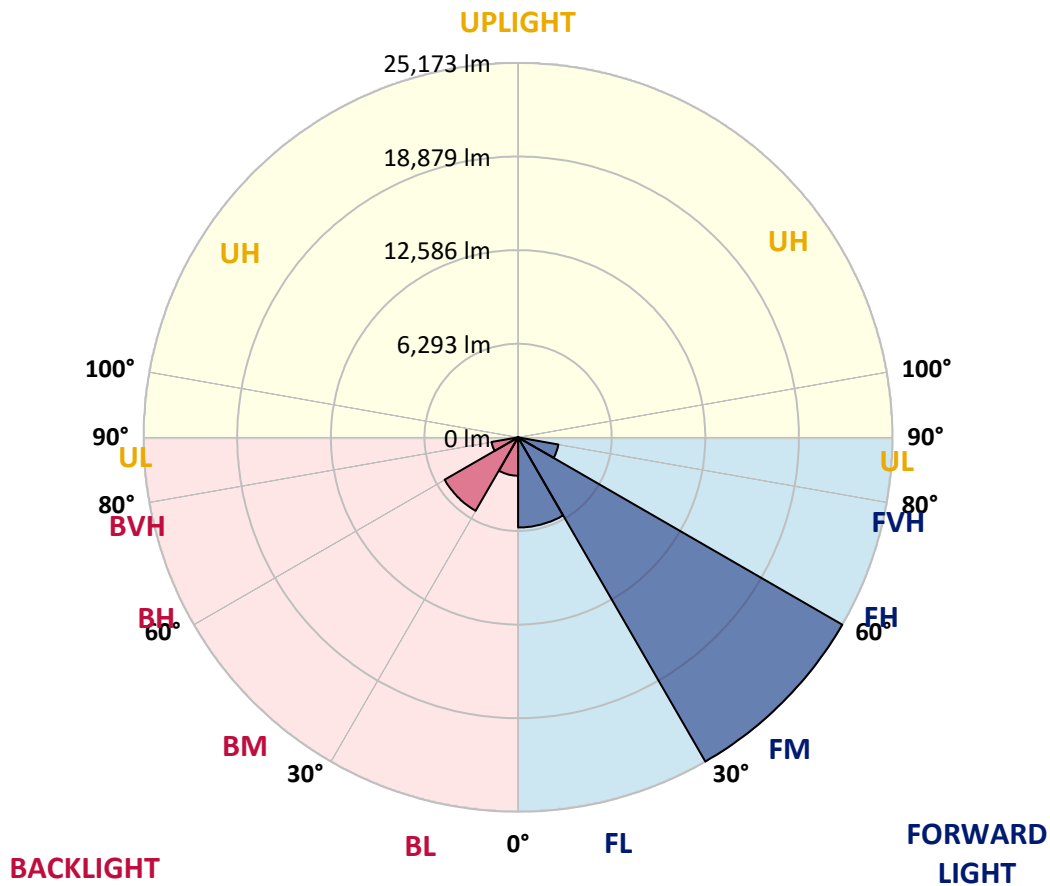
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6059.9	13.7			
FM (30°-60°)	25172.6	57.0			
FH (60°-80°)	2752.6	6.2			G2/5000
FVH (80°-90°)	42.4	0.1			G1/100
BL (0°-30°)	2581.2	5.8	B4/5000		
BM (30°-60°)	5703.6	12.9	B4/8500		
BH (60°-80°)	1814.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	66.0	0.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5
2.5°	8675.3	8740.1	8639.3	8646.5	8394.5	8279.4	7955.4	7764.6	7638.6	7285.8	6965.5
5°	10424.8	10349.2	10270.0	10223.2	10003.6	9694.0	9290.9	8970.5	8675.3	7984.2	7318.2
7.5°	11497.5	11457.9	11403.9	11375.1	11159.1	10835.2	10432.0	10158.4	9730.0	8794.1	7746.6
10°	12408.2	12361.4	12329.0	12350.6	12174.2	11965.5	11526.3	11213.1	10730.8	9650.8	8265.0
12.5°	13113.8	13139.0	13149.8	13265.0	13189.4	13063.4	12609.8	12278.6	11742.3	10554.4	8873.3
15°	13671.7	13664.5	13790.5	14010.1	14132.5	14053.3	13689.7	13412.6	12757.4	11443.5	9528.5
17.5°	13801.3	13808.5	14006.5	14391.7	14791.2	14985.6	14780.4	14449.3	13801.3	12321.8	10208.8
20°	13905.7	13920.1	14125.3	14564.5	15147.6	15691.2	15723.6	15486.0	14928.0	13272.2	10899.9
22.5°	14564.5	14596.9	14650.9	14928.0	15453.6	16141.1	16519.1	16468.7	16000.7	14269.3	11645.1
25°	16295.9	16198.7	15936.0	15856.8	16058.3	16616.3	17260.6	17357.8	17127.5	15367.2	12447.8
27.5°	18434.2	18329.8	17941.0	17530.6	17095.1	17289.4	17977.0	18268.6	18272.2	16576.7	13254.2
30°	20374.4	20291.6	19974.8	19388.1	18635.7	18355.0	18862.5	19254.9	19488.9	17973.4	14172.1
32.5°	22033.9	21958.3	21529.9	21051.2	20316.8	19751.7	19935.2	20313.2	20860.4	19780.5	15313.2
35°	23430.6	23355.0	22944.6	22462.2	21781.9	21443.5	21378.7	21637.9	22347.1	21666.7	16623.5
37.5°	24564.5	24488.9	24060.5	23607.0	23088.6	23110.2	23207.4	23333.4	23740.1	23686.1	18023.8
40°	25298.8	25219.6	24913.7	24589.7	24262.1	24521.3	25003.6	24852.5	25068.4	25316.8	19312.5
42.5°	25626.4	25525.6	25349.2	25277.2	25176.4	25579.6	26508.3	26357.1	26098.0	26403.9	20270.0
45°	25298.8	25212.4	25208.8	25428.4	25662.4	26180.8	27548.6	27426.3	26771.1	26929.5	20842.4
47.5°	24294.5	24218.9	24424.1	25000.0	25576.0	26331.9	28013.0	28034.6	27249.9	27149.1	21213.1
50°	22123.9	22073.5	22667.4	23758.1	24751.7	25860.4	27865.4	28113.8	27365.1	27080.7	21166.3
52.5°	17710.6	17944.6	19236.9	21058.4	22987.8	25032.4	27318.3	27642.2	26810.7	26630.7	20914.4
55°	12123.9	12231.8	13524.1	16184.3	19244.1	23239.8	26062.0	26562.3	26155.6	26555.1	21177.1
57.5°	6277.9	6364.3	7383.0	9744.4	13052.6	18365.8	22573.8	24215.3	24834.5	26936.7	21994.3
60°	2577.4	2649.4	3070.6	4211.7	6583.9	10694.8	16245.5	18678.9	20133.2	24600.5	19532.1
62.5°	1871.9	1907.9	2109.4	2512.6	3448.5	5241.2	9193.7	10090.0	11112.3	15417.6	12401.0
65°	1576.7	1616.3	1778.3	2023.0	2516.2	3214.5	3927.3	3948.9	4352.1	6281.5	4596.8
67.5°	1321.1	1357.1	1501.1	1709.9	2033.8	2282.2	2109.4	2113.0	2105.8	2278.6	2203.0
70°	1029.5	1058.3	1202.3	1425.5	1594.7	1465.1	1648.7	1825.1	1749.5	1817.9	1922.2
72.5°	752.3	784.7	910.7	1079.9	1036.7	1043.9	1335.5	1515.5	1472.3	1547.9	1645.1
75°	543.6	565.2	630.0	540.0	568.8	687.5	939.5	1036.7	1079.9	1144.7	1231.1
77.5°	176.4	176.4	198.0	248.4	309.6	381.6	478.8	518.4	583.2	655.1	716.3
80°	90.0	93.6	111.6	136.8	172.8	219.6	280.8	298.8	331.2	370.8	396.0
82.5°	43.2	46.8	54.0	68.4	90.0	115.2	154.8	172.8	194.4	219.6	237.6
85°	10.8	10.8	14.4	21.6	28.8	43.2	57.6	68.4	86.4	104.4	115.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	10.8	14.4	18.0	21.6	28.8
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°	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5	6695.5
2.5°	6821.5	6619.9	6360.7	6141.1	5939.5	5784.7	5651.6	5586.8	5525.6	5482.4	5496.8
5°	7008.7	6663.1	6180.7	5845.9	5640.8	5536.4	5464.4	5428.4	5421.2	5392.4	5381.6
7.5°	7282.2	6789.1	6144.7	5806.3	5669.6	5615.6	5576.0	5554.4	5565.2	5536.4	5525.6
10°	7620.6	6997.9	6234.7	5935.9	5817.1	5777.5	5734.4	5705.6	5691.2	5648.0	5640.8
12.5°	8041.8	7257.0	6396.7	6101.5	5982.7	5914.3	5856.7	5806.3	5773.9	5720.0	5705.6
15°	8495.3	7545.0	6587.5	6263.5	6123.1	6022.3	5928.7	5853.1	5795.5	5723.6	5712.8
17.5°	8988.5	7847.4	6745.9	6375.1	6195.1	6061.9	5925.1	5813.5	5734.4	5640.8	5630.0
20°	9503.3	8153.4	6864.7	6429.1	6198.7	6018.7	5835.1	5687.6	5586.8	5493.2	5486.0
22.5°	10036.0	8434.1	6936.7	6414.7	6141.1	5917.9	5698.4	5532.8	5414.0	5302.4	5295.2
25°	10572.4	8704.1	6954.7	6357.1	6025.9	5766.7	5547.2	5352.8	5219.6	5093.6	5079.2
27.5°	11115.9	8930.9	6911.5	6241.9	5871.1	5590.4	5370.8	5180.0	5043.2	4917.2	4895.6
30°	11695.5	9125.3	6817.9	6090.7	5691.2	5403.2	5187.2	5043.2	4913.6	4787.6	4766.0
32.5°	12314.6	9294.5	6684.7	5907.1	5482.4	5216.0	5057.6	4928.0	4798.4	4686.8	4665.2
35°	13052.6	9406.1	6486.7	5669.6	5288.0	5079.2	4971.2	4820.0	4661.6	4539.2	4528.4
37.5°	13815.7	9492.5	6249.1	5442.8	5118.8	5000.0	4910.0	4704.8	4506.8	4359.3	4341.3
40°	14553.7	9564.5	5953.9	5230.4	4964.0	4942.4	4820.0	4564.4	4222.5	4056.9	4042.5
42.5°	15241.2	9586.1	5644.4	5003.6	4823.6	4812.8	4676.0	4280.1	4017.3	3912.9	3898.5
45°	15712.8	9568.1	5324.0	4791.2	4683.2	4625.6	4481.6	4074.9	3912.9	3819.3	3801.3
47.5°	16061.9	9474.5	4964.0	4568.0	4524.8	4445.7	4136.1	3945.3	3794.1	3700.5	3682.5
50°	16000.7	9085.7	4600.4	4352.1	4334.1	4265.7	3884.1	3783.3	3650.1	3549.3	3534.9
52.5°	15684.0	8347.7	4229.7	4114.5	4150.5	4017.3	3704.1	3588.9	3473.7	3358.5	3333.3
55°	15763.2	7815.0	3948.9	3884.1	3948.9	3646.5	3502.5	3380.1	3272.1	3160.6	3139.0
57.5°	16108.7	7289.4	3650.1	3635.7	3704.1	3362.1	3243.3	3088.6	2933.8	2843.8	2843.8
60°	13527.7	5313.2	3124.6	3160.6	3315.3	3131.8	3027.4	2869.0	2699.8	2620.6	2620.6
62.5°	7998.6	3333.3	2591.8	2552.2	2649.4	2764.6	2822.2	2692.6	2491.0	2386.6	2390.2
65°	3524.1	2426.2	2285.8	2253.4	2224.6	2303.8	2462.2	2473.0	2260.6	2138.2	2141.8
67.5°	2170.6	2195.8	2138.2	2113.0	2087.8	2073.4	2059.0	2066.2	2008.6	1897.1	1893.5
70°	1958.2	2026.6	1987.0	1965.4	1933.0	1907.9	1821.5	1681.1	1583.9	1555.1	1587.5
72.5°	1684.7	1778.3	1756.7	1745.9	1706.3	1645.1	1529.9	1393.1	1277.9	1205.9	1220.3
75°	1270.7	1346.3	1357.1	1360.7	1317.5	1259.9	1141.1	1025.9	925.1	849.5	867.5
77.5°	730.7	773.9	784.7	795.5	763.1	741.5	662.3	579.6	525.6	446.4	468.0
80°	406.8	424.8	424.8	428.4	410.4	385.2	331.2	284.4	259.2	223.2	226.8
82.5°	244.8	252.0	255.6	259.2	248.4	223.2	183.6	151.2	136.8	118.8	115.2
85°	118.8	126.0	126.0	129.6	111.6	97.2	75.6	57.6	50.4	36.0	39.6
87.5°	28.8	32.4	32.4	28.8	25.2	18.0	10.8	3.6	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)