

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: P643802

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 44264.5 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

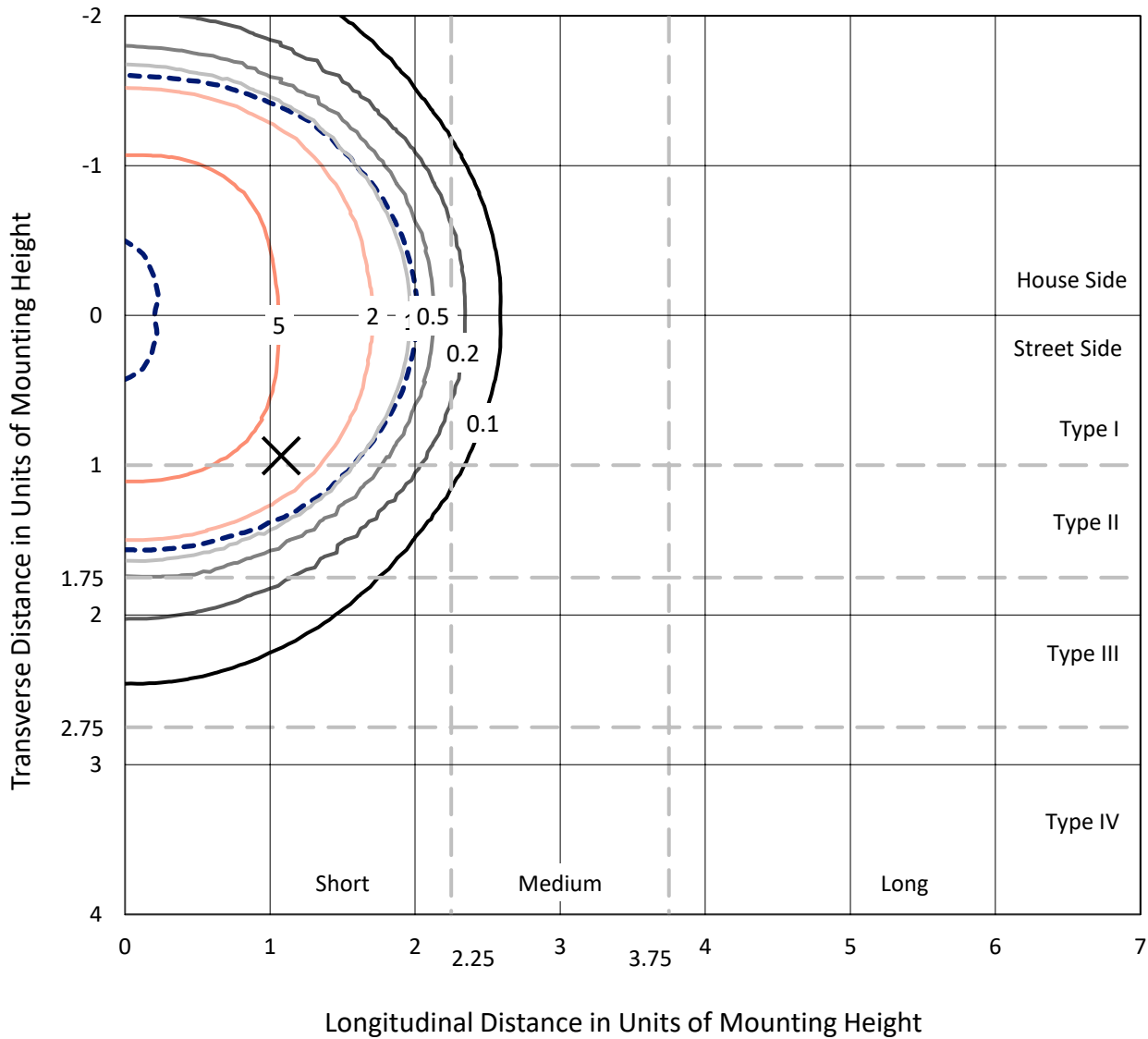
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

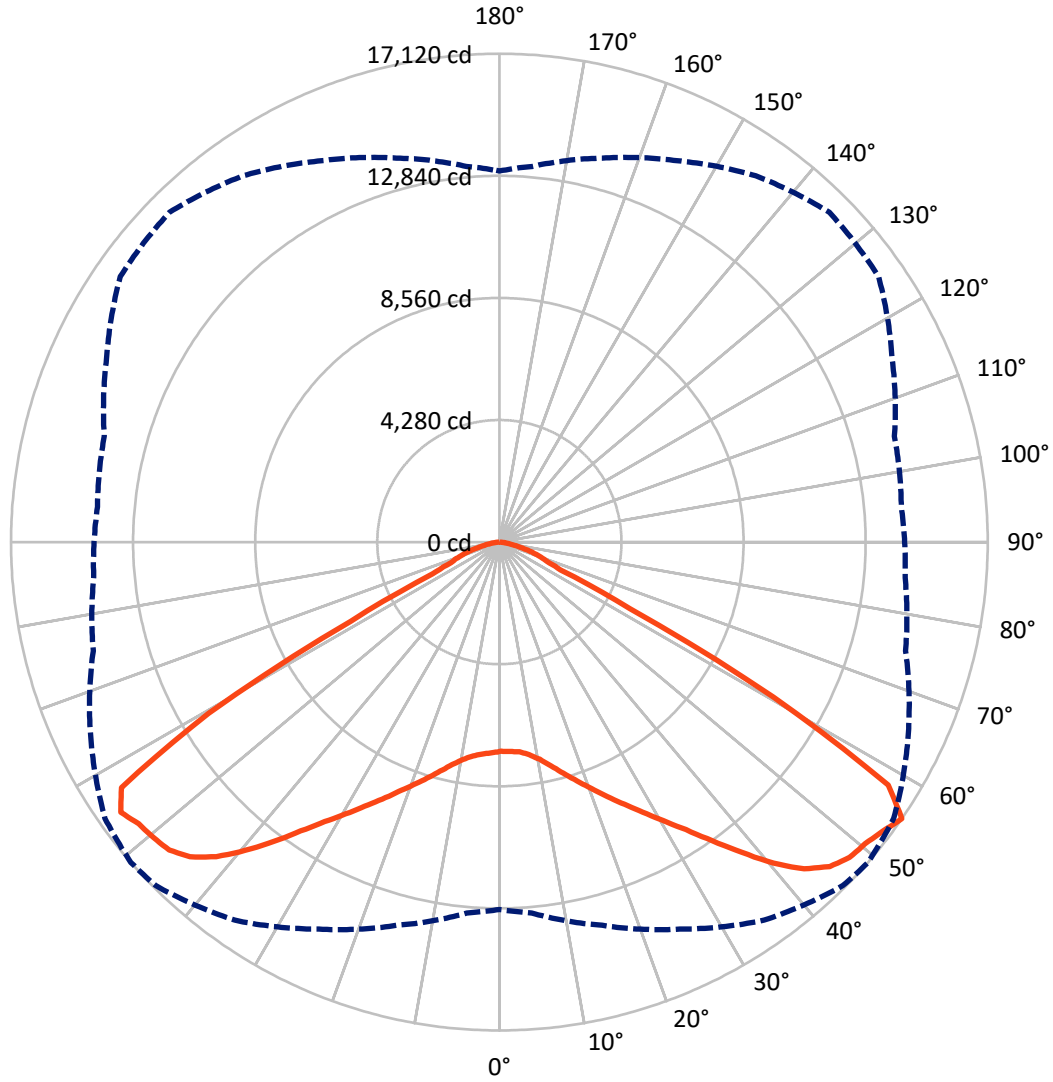
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21915.1	0.0	21915.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	22349.4	0.0	22349.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	44264.5	0.0	44264.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.3	1.6
10°-20°	2359.4	5.3
20°-30°	4494.0	10.2
30°-40°	7618.2	17.2
40°-50°	11464.8	25.9
50°-60°	12549.4	28.4
60°-70°	3968.2	9.0
70°-80°	952.4	2.2
80°-90°	142.9	0.3
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°	44264.5	100.0
0°-180°	44264.5	100.0

Coefficient of Utilization



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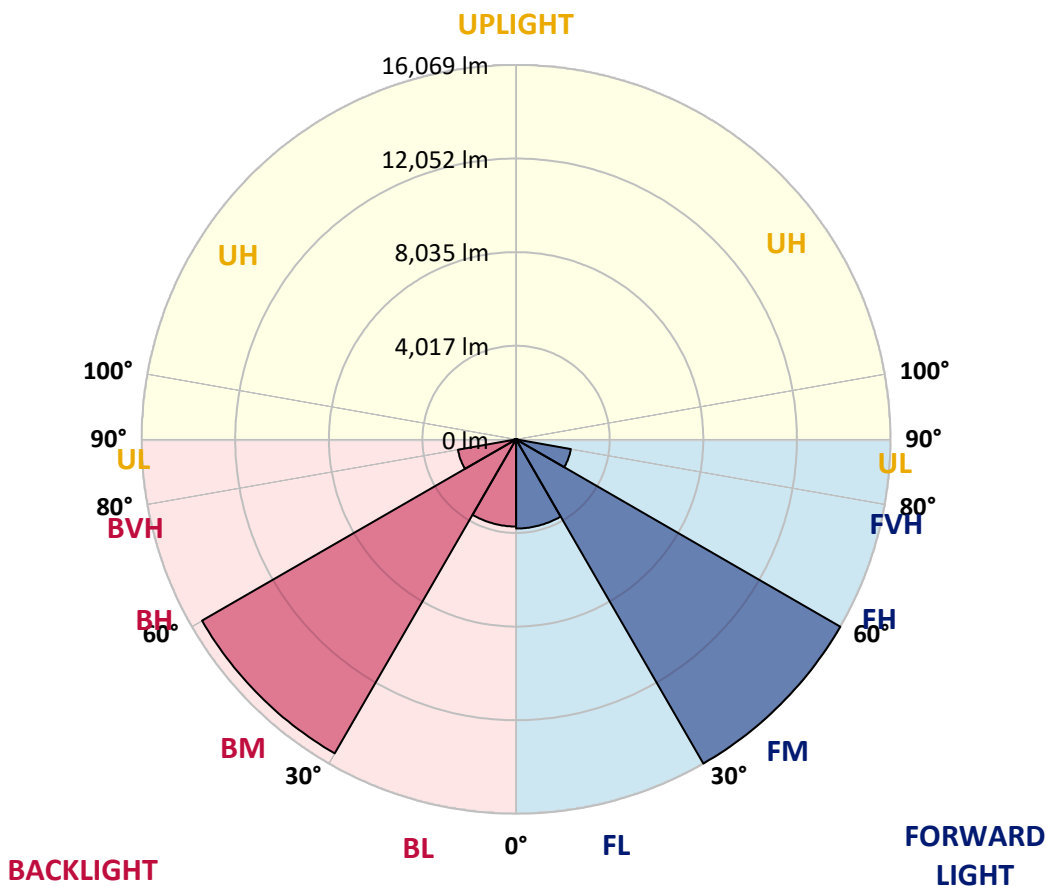
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3827.1	8.6			
FM (30°-60°)	16069.2	36.3			
FH (60°-80°)	2386.9	5.4			G2/5000
FVH (80°-90°)	66.2	0.1			G1/100
BL (0°-30°)	3741.6	8.5	B4/5000		
BM (30°-60°)	15563.2	35.2	B5		
BH (60°-80°)	2533.6	5.7	B4/5000		G2/5000
BVH (80°-90°)	76.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7
2.5°	7224.7	7231.9	7246.3	7271.5	7296.7	7332.7	7347.1	7365.1	7361.5	7383.1	7383.1
5°	7188.7	7199.5	7221.1	7257.1	7300.3	7368.7	7386.7	7429.9	7473.1	7527.1	7545.1
7.5°	7231.9	7246.3	7271.5	7329.1	7393.9	7483.9	7519.9	7591.9	7674.7	7771.9	7811.4
10°	7314.7	7332.7	7375.9	7469.5	7573.9	7710.7	7743.1	7833.0	7966.2	8099.4	8178.6
12.5°	7408.3	7437.1	7516.3	7663.9	7818.6	7998.6	8049.0	8160.6	8304.6	8477.4	8585.4
15°	7516.3	7541.5	7663.9	7872.6	8113.8	8351.4	8409.0	8517.0	8679.0	8848.2	8999.4
17.5°	7743.1	7786.3	7930.2	8171.4	8452.2	8733.0	8797.8	8920.2	9049.8	9183.0	9326.9
20°	8052.6	8088.6	8272.2	8571.0	8902.2	9157.8	9222.5	9330.5	9391.7	9460.1	9582.5
22.5°	8362.2	8412.6	8621.4	8974.2	9362.9	9640.1	9690.5	9791.3	9748.1	9726.5	9805.7
25°	8747.4	8815.8	9021.0	9406.1	9802.1	10144.1	10183.7	10270.1	10198.1	10086.5	10082.9
27.5°	9226.1	9287.3	9499.7	9895.7	10288.1	10644.4	10720.0	10835.2	10676.8	10540.1	10442.9
30°	9794.9	9834.5	10068.5	10489.7	10892.8	11231.2	11328.4	11443.6	11324.8	11098.0	11000.8
32.5°	10457.3	10511.3	10781.2	11224.0	11584.0	11922.4	12019.6	12163.5	12034.0	11778.4	11656.0
35°	11252.8	11306.8	11591.2	12073.5	12440.7	12789.9	12858.3	12977.1	12815.1	12519.9	12422.7
37.5°	12116.7	12185.1	12545.1	13002.3	13387.5	13794.2	13797.8	13833.8	13603.4	13236.3	13128.3
40°	13088.7	13178.7	13538.6	14013.8	14478.2	14809.4	14805.8	14705.0	14316.2	13747.4	13581.8
42.5°	14049.8	14121.8	14485.4	14974.9	15439.3	15752.5	15658.9	15414.1	14852.6	14078.6	13859.0
45°	14744.6	14798.6	15180.1	15730.9	16202.5	16396.8	16227.7	15932.5	15172.9	14287.4	13963.4
47.5°	15072.1	15144.1	15529.3	16076.5	16609.2	16720.8	16519.2	16242.1	15360.1	14481.8	14046.2
50°	14895.7	14989.3	15424.9	15932.5	16533.6	16764.0	16620.0	16342.8	15558.1	14672.6	14193.8
52.5°	14438.6	14528.6	15079.3	15694.9	16375.2	16832.4	16828.8	16602.0	15784.9	14726.6	14201.0
55°	12876.3	13052.7	13909.4	14971.3	16180.9	17034.0	17120.4	16879.2	15820.9	14741.0	14276.6
57.5°	8380.2	8689.8	9503.3	10885.6	13311.9	15493.3	16076.5	16134.1	15561.7	14679.8	14291.0
60°	3499.0	3747.3	4391.7	5309.6	7314.7	9910.1	11040.4	12174.3	13542.2	14039.0	14157.8
62.5°	2174.2	2195.8	2260.6	2469.4	3139.0	4406.1	5133.2	6195.2	8229.0	9960.5	10759.6
65°	1961.9	1972.7	1987.1	1972.7	2005.1	2159.8	2354.2	2725.0	3552.9	4413.3	5435.6
67.5°	1727.9	1742.3	1753.1	1742.3	1753.1	1760.3	1781.9	1814.3	1965.5	2087.9	2181.4
70°	1396.7	1418.3	1436.3	1429.1	1472.3	1472.3	1493.9	1519.1	1594.7	1684.7	1749.5
72.5°	1065.5	1047.5	1069.1	1076.3	1115.9	1137.5	1169.9	1198.7	1285.1	1339.1	1421.9
75°	691.2	673.2	705.6	723.5	777.5	806.3	835.1	863.9	925.1	961.1	1040.3
77.5°	374.4	370.8	403.2	428.4	486.0	522.0	543.6	565.2	615.6	626.4	676.8
80°	216.0	216.0	237.6	255.6	291.6	331.2	352.8	370.8	406.8	417.6	439.2
82.5°	118.8	118.8	129.6	140.4	169.2	190.8	208.8	223.2	255.6	266.4	277.2
85°	57.6	54.0	61.2	68.4	79.2	90.0	100.8	108.0	133.2	140.4	154.8
87.5°	7.2	7.2	7.2	10.8	14.4	21.6	25.2	25.2	39.6	46.8	54.0
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°	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7	7332.7
2.5°	7404.7	7357.9	7386.7	7397.5	7397.5	7386.7	7339.9	7325.5	7303.9	7271.5	7271.5
5°	7570.3	7534.3	7541.5	7523.5	7480.3	7426.3	7339.9	7296.7	7260.7	7221.1	7217.5
7.5°	7854.6	7807.8	7800.6	7732.3	7617.1	7501.9	7372.3	7293.1	7239.1	7188.7	7185.1
10°	8225.4	8182.2	8128.2	7991.4	7822.2	7653.1	7476.7	7368.7	7289.5	7217.5	7213.9
12.5°	8639.4	8589.0	8488.2	8286.6	8074.2	7908.6	7707.1	7541.5	7422.7	7325.5	7307.5
15°	9089.4	9017.4	8844.6	8607.0	8398.2	8221.8	8005.8	7768.3	7588.3	7433.5	7415.5
17.5°	9434.9	9341.3	9154.2	8931.0	8758.2	8581.8	8301.0	8002.2	7743.1	7548.7	7519.9
20°	9672.5	9596.9	9384.5	9218.9	9118.2	8963.4	8635.8	8297.4	8005.8	7761.1	7746.7
22.5°	9892.1	9802.1	9593.3	9496.1	9496.1	9391.7	9078.6	8679.0	8337.0	8052.6	8016.6
25°	10140.5	10043.3	9884.9	9874.1	9924.5	9877.7	9499.7	9071.4	8671.8	8351.4	8293.8
27.5°	10486.1	10378.1	10284.5	10349.3	10421.3	10370.9	9949.7	9452.9	9031.8	8707.8	8657.4
30°	11036.8	10903.6	10817.2	10896.4	11036.8	10889.2	10432.1	9906.5	9481.7	9125.4	9100.2
32.5°	11677.6	11526.4	11436.4	11562.4	11688.4	11458.0	11004.4	10500.5	10054.1	9679.7	9636.5
35°	12447.9	12257.1	12123.9	12293.1	12422.7	12195.9	11746.0	11267.2	10770.4	10381.7	10324.1
37.5°	13131.9	12901.5	12811.5	13049.1	13221.9	13074.3	12584.7	12134.7	11591.2	11166.4	11141.2
40°	13628.6	13401.9	13337.1	13729.4	14031.8	13995.8	13556.6	13041.9	12530.7	12041.2	11994.4
42.5°	13844.6	13686.2	13700.6	14229.8	14697.8	14928.1	14535.8	13985.0	13491.8	12984.3	12951.9
45°	13891.4	13794.2	13909.4	14571.8	15187.3	15658.9	15324.1	14863.4	14305.4	13815.8	13801.4
47.5°	13941.8	13887.8	14064.2	14766.2	15496.9	16044.1	15856.9	15381.7	14816.6	14337.8	14301.8
50°	14060.6	14039.0	14237.0	14902.9	15644.5	16148.5	15936.1	15464.5	14885.0	14413.4	14327.0
52.5°	14096.6	14060.6	14345.0	15115.3	15889.3	16144.9	15687.7	15072.1	14489.0	13963.4	13873.4
55°	14208.2	14143.4	14337.8	15194.5	16227.7	16353.6	15673.3	14751.8	13938.2	13221.9	13009.5
57.5°	14237.0	14165.0	14291.0	15064.9	15860.5	15748.9	13776.2	11904.4	10370.9	9575.3	9665.3
60°	14082.2	14103.8	13887.8	13801.4	12721.5	11231.2	8434.2	6742.3	5295.2	4683.3	4816.5
62.5°	10720.0	10810.0	10072.1	8758.2	6735.1	5338.4	3531.4	2743.0	2321.8	2213.8	2231.8
65°	5410.4	5532.8	4766.1	3941.7	2930.2	2368.6	2048.3	1983.5	1961.9	1936.7	1936.7
67.5°	2141.8	2177.8	2149.0	2012.3	1871.9	1821.5	1807.1	1799.9	1774.7	1760.3	1763.9
70°	1720.7	1749.5	1706.3	1619.9	1562.3	1558.7	1551.5	1537.1	1519.1	1519.1	1529.9
72.5°	1403.9	1432.7	1371.5	1317.5	1274.3	1241.9	1223.9	1213.1	1187.9	1187.9	1198.7
75°	1033.1	1051.1	1000.7	993.5	946.7	914.3	885.5	871.1	838.7	824.3	835.1
77.5°	687.6	684.0	658.8	658.8	640.8	601.2	568.8	536.4	493.2	464.4	471.6
80°	446.4	446.4	435.6	435.6	417.6	385.2	345.6	313.2	288.0	266.4	266.4
82.5°	284.4	280.8	277.2	273.6	266.4	234.0	205.2	183.6	165.6	151.2	154.8
85°	158.4	158.4	151.2	151.2	136.8	118.8	104.4	90.0	79.2	75.6	75.6
87.5°	54.0	54.0	50.4	50.4	43.2	32.4	25.2	21.6	18.0	14.4	18.0
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)