

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: P641292

Luminaire Tested: GWS-SA5F-750-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42616.8 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

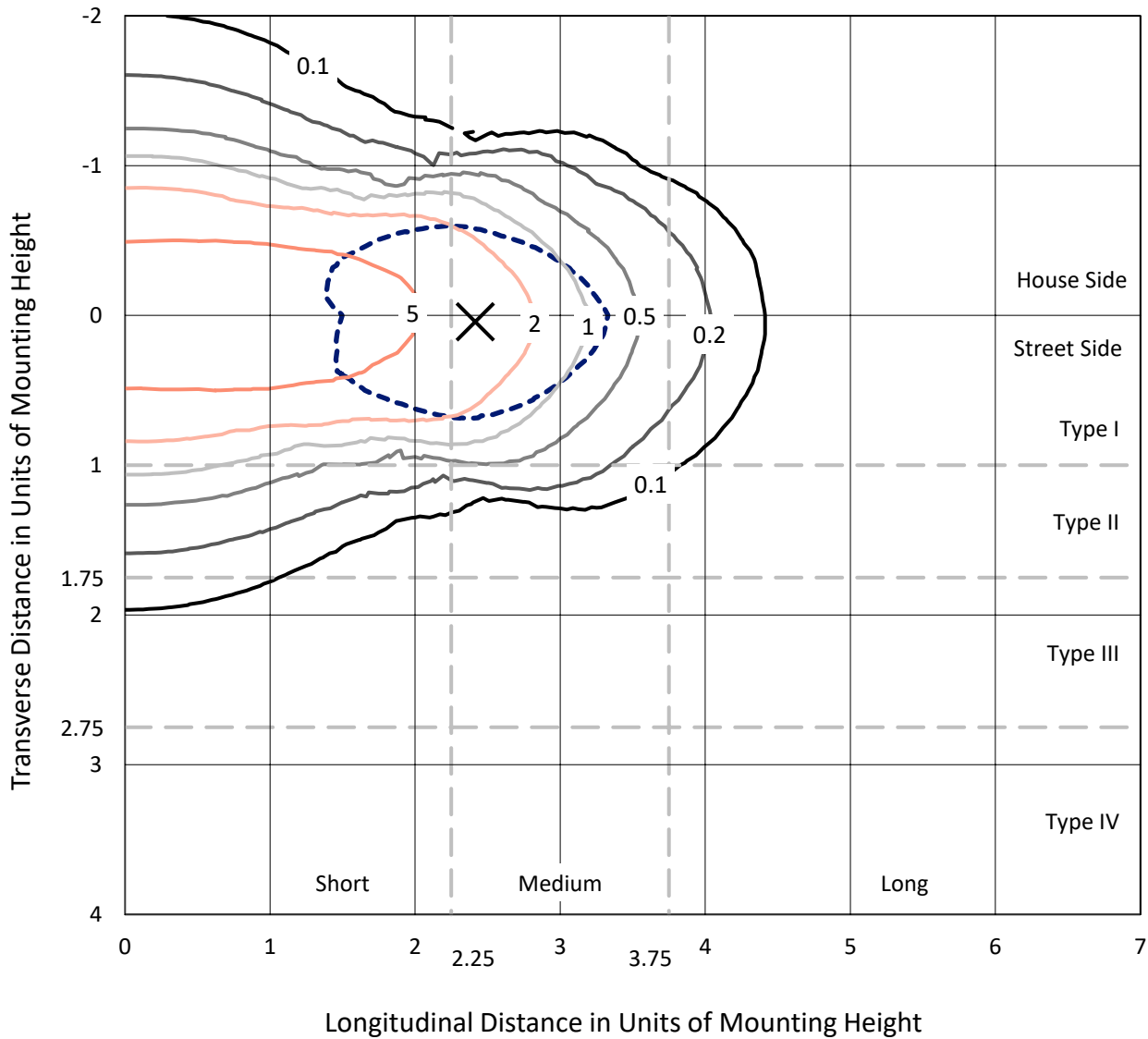
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641292
 CATALOG NUMBER: GWS-SA5F-750-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

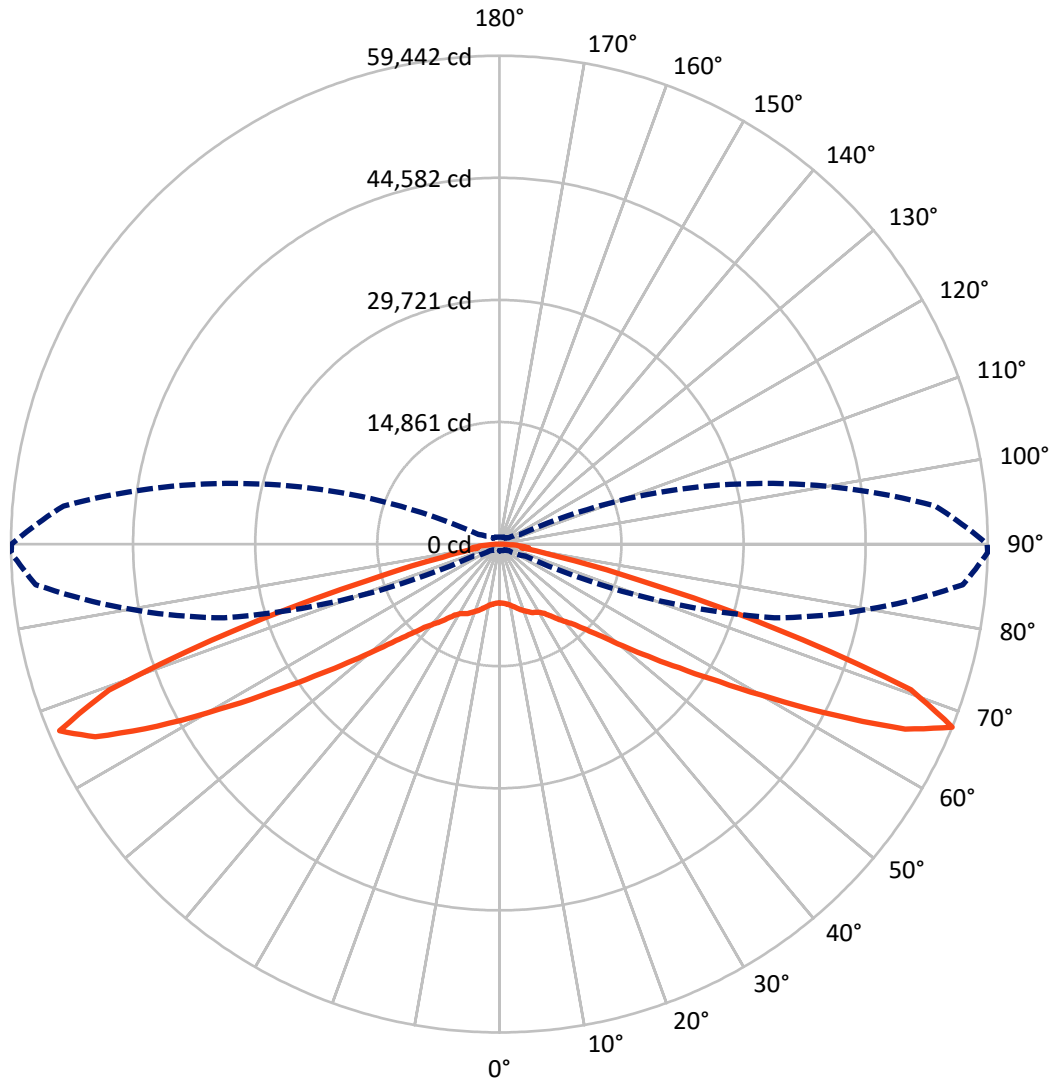
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Medium - N/A

REPORT NUMBER: P641292
CATALOG NUMBER: GWS-SA5F-750-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21121.6	0.0	21121.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21495.2	0.0	21495.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	42616.8	0.0	42616.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.5	1.7
10°-20°	2336.3	5.5
20°-30°	3949.3	9.3
30°-40°	5419.9	12.7
40°-50°	6911.6	16.2
50°-60°	8671.7	20.3
60°-70°	10458.8	24.5
70°-80°	3783.7	8.9
80°-90°	367.9	0.9
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°	42616.8	100.0
0°-180°	42616.8	100.0

Coefficient of Utilization



REPORT NUMBER: P641292

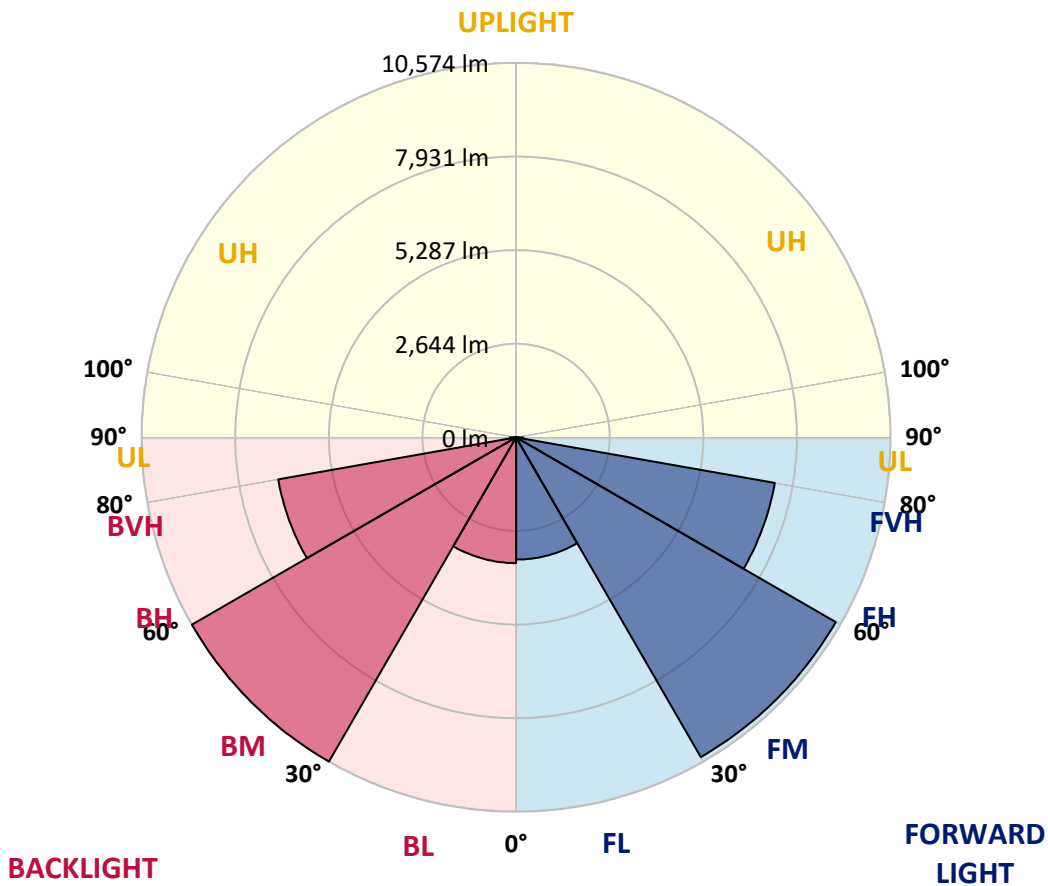
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3451.6	8.1			
FM (30°-60°)	10429.2	24.5			
FH (60°-80°)	7420.2	17.4			G3/7500
FVH (80°-90°)	194.1	0.5			G2/225
BL (0°-30°)	3551.4	8.3	B4/5000		
BM (30°-60°)	10574.1	24.8	B5		
BH (60°-80°)	6822.3	16.0	B5		G5
BVH (80°-90°)	173.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9
2.5°	7174.3	7168.2	7152.9	7198.8	7189.6	7192.7	7211.0	7198.8	7177.4	7140.6	7192.7
5°	7376.3	7373.3	7339.6	7367.1	7336.5	7315.1	7312.0	7281.4	7257.0	7217.2	7272.3
7.5°	7572.2	7569.1	7541.6	7590.6	7566.1	7541.6	7514.1	7452.8	7394.7	7336.5	7397.7
10°	7722.2	7719.1	7713.0	7783.4	7789.5	7798.7	7786.5	7682.4	7581.4	7511.0	7572.2
12.5°	7807.9	7817.1	7832.4	7960.9	8025.2	8086.4	8101.7	8016.0	7847.7	7746.7	7820.1
15°	7749.7	7768.1	7844.6	8077.2	8254.7	8392.5	8450.6	8380.2	8162.9	7994.6	8077.2
17.5°	7471.2	7486.5	7636.5	7991.5	8383.3	8701.6	8796.5	8753.6	8511.8	8306.8	8386.4
20°	7085.6	7119.2	7281.4	7777.3	8361.9	8915.9	9169.9	9154.6	8891.4	8576.1	8671.0
22.5°	6736.6	6776.4	6947.8	7495.7	8218.0	8971.0	9546.4	9586.2	9237.2	8845.5	8922.0
25°	6344.9	6381.6	6602.0	7162.1	7970.1	8928.1	9867.7	10048.3	9629.0	9154.6	9225.0
27.5°	5943.9	5971.5	6188.8	6785.6	7645.7	8848.5	10121.8	10556.4	10014.7	9368.8	9417.8
30°	5591.9	5628.7	5827.6	6409.1	7290.6	8689.4	10329.9	11098.1	10458.5	9610.6	9650.4
32.5°	5252.2	5282.8	5500.1	6038.8	6914.2	8444.5	10516.6	11734.8	11116.5	10060.6	10060.6
35°	4823.7	4878.8	5123.6	5683.7	6559.1	8120.1	10651.3	12475.5	12016.4	10724.7	10727.8
37.5°	4428.9	4459.5	4716.6	5282.8	6185.7	7752.8	10663.5	13243.7	13154.9	11569.5	11575.6
40°	3978.9	4018.7	4294.2	4854.3	5757.2	7367.1	10547.2	13959.9	14348.6	12438.7	12405.1
42.5°	3522.9	3581.0	3844.3	4392.1	5295.0	6895.8	10238.1	14642.5	15863.7	13445.7	13363.1
45°	3082.1	3118.9	3382.1	3899.3	4765.5	6332.6	9742.2	15297.4	17663.4	14976.1	14856.7
47.5°	2586.3	2601.6	2874.0	3369.8	4217.7	5705.2	9032.2	15882.0	19640.6	17002.3	16797.2
50°	2145.6	2167.0	2381.2	2806.7	3547.4	4961.4	8147.6	16224.8	22159.6	19766.1	19411.0
52.5°	1735.4	1756.8	1928.2	2268.0	2932.2	4113.6	7051.9	16145.3	24715.3	23197.1	22679.9
55°	1401.8	1417.1	1533.4	1799.7	2307.8	3271.9	5757.2	15432.1	27552.5	27678.0	26563.9
57.5°	1184.5	1190.6	1270.2	1432.4	1802.8	2522.0	4444.2	13748.7	30527.6	33395.4	31565.1
60°	1059.0	1062.1	1098.8	1199.8	1423.2	1925.2	3256.6	11067.5	33609.7	40548.3	38038.5
62.5°	979.4	979.4	1010.0	1068.2	1181.4	1481.4	2393.5	7948.7	35822.6	48331.7	45837.2
65°	902.9	902.9	924.3	973.3	1034.5	1209.0	1796.6	5126.7	36909.1	54838.8	54284.8
67.5°	805.0	808.0	823.3	875.4	930.5	1010.0	1362.0	3467.8	34653.4	56638.5	59442.1
70°	713.1	716.2	737.6	771.3	817.2	872.3	1065.1	2390.4	25223.3	47171.7	53149.3
72.5°	612.1	624.4	639.7	676.4	704.0	743.8	869.2	1548.7	14676.1	30343.9	35133.9
75°	502.0	517.3	535.6	572.4	590.7	606.0	716.2	1104.9	7061.1	15377.0	17510.3
77.5°	388.7	404.0	425.4	459.1	471.3	489.7	547.9	798.8	3382.1	6816.2	7348.8
80°	260.2	266.3	284.6	324.4	345.9	358.1	404.0	544.8	1469.1	2736.3	2711.8
82.5°	159.2	162.2	168.3	192.8	202.0	214.2	263.2	333.6	700.9	3109.7	3565.7
85°	58.2	55.1	52.0	67.3	79.6	91.8	122.4	168.3	306.1	2136.4	2390.4
87.5°	0.0	0.0	0.0	3.1	6.1	6.1	12.2	24.5	73.5	798.8	547.9
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°	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9	7152.9
2.5°	7177.4	7143.7	7186.6	7217.2	7284.5	7309.0	7315.1	7293.7	7293.7	7257.0	7263.1
5°	7260.0	7238.6	7309.0	7361.0	7459.0	7495.7	7520.2	7504.9	7514.1	7489.6	7495.7
7.5°	7385.5	7367.1	7489.6	7590.6	7691.6	7734.4	7755.8	7743.6	7746.7	7716.1	7725.2
10°	7560.0	7566.1	7713.0	7844.6	7979.3	8022.1	8031.3	7994.6	7964.0	7908.9	7911.9
12.5°	7798.7	7829.3	8037.4	8184.3	8322.1	8383.3	8316.0	8181.3	8055.8	7960.9	7948.7
15°	8058.9	8114.0	8413.9	8600.6	8750.6	8720.0	8521.0	8218.0	7970.1	7829.3	7801.8
17.5°	8371.1	8453.7	8830.2	9053.6	9182.1	8986.3	8570.0	8117.0	7771.2	7581.4	7544.7
20°	8664.9	8796.5	9270.9	9561.7	9577.0	9136.2	8548.6	7911.9	7477.3	7244.7	7195.7
22.5°	8934.2	9102.6	9733.1	10103.4	9904.5	9203.6	8417.0	7621.2	7122.3	6849.9	6807.0
25°	9228.1	9466.8	10271.8	10617.6	10232.0	9176.0	8141.5	7260.0	6693.8	6415.3	6384.6
27.5°	9430.1	9730.0	10813.5	11144.1	10501.3	9019.9	7786.5	6865.2	6302.0	6038.8	5995.9
30°	9662.7	10045.3	11410.3	11716.4	10666.6	8790.4	7406.9	6497.9	5937.8	5653.1	5622.5
32.5°	10085.0	10565.6	12151.0	12322.4	10718.6	8505.7	7042.7	6142.9	5558.3	5273.6	5230.8
35°	10764.5	11327.7	13191.7	12998.8	10678.8	8193.5	6696.8	5726.6	5169.5	4903.3	4860.4
37.5°	11621.5	12322.4	14351.7	13607.9	10568.6	7850.7	6286.7	5377.7	4820.6	4551.3	4526.8
40°	12420.4	13283.5	15652.5	14134.4	10345.2	7428.4	5891.9	5013.4	4444.2	4159.5	4104.4
42.5°	13421.2	14569.0	17158.4	14590.4	9977.9	6923.3	5448.1	4563.5	3972.8	3715.7	3648.4
45°	14942.4	16368.7	18909.1	15028.1	9430.1	6302.0	4891.0	4015.7	3455.5	3192.3	3140.3
47.5°	16840.0	18618.3	20806.7	15288.3	8597.5	5647.0	4260.5	3437.2	2877.1	2580.2	2555.7
50°	19505.9	21890.2	22842.1	15242.4	7667.1	4869.6	3550.4	2748.5	2280.2	2066.0	2032.3
52.5°	22753.3	25997.7	25042.8	14691.4	6678.5	3985.0	2766.9	2157.8	1808.9	1655.8	1628.3
55°	26827.2	30916.3	27359.7	13510.0	5429.7	3051.5	2173.1	1701.8	1463.0	1371.2	1359.0
57.5°	31871.2	37285.6	29591.0	11520.5	4083.0	2329.2	1674.2	1404.9	1291.6	1236.5	1233.5
60°	38528.3	44046.7	31528.4	8952.6	2923.0	1781.3	1383.4	1254.9	1166.1	1129.4	1126.3
62.5°	46443.3	50186.5	32734.3	6096.9	2197.6	1420.2	1218.2	1138.6	1086.6	1065.1	1062.1
65°	54578.6	54067.5	32158.9	3994.2	1668.1	1205.9	1092.7	1049.8	1003.9	982.5	982.5
67.5°	59384.0	53247.2	27742.3	2773.0	1322.2	1059.0	985.5	945.8	869.2	850.9	850.9
70°	52598.4	43146.9	18183.7	2029.3	1071.2	927.4	857.0	801.9	771.3	752.9	749.9
72.5°	34788.1	28075.9	9668.8	1407.9	893.7	789.7	725.4	704.0	667.2	648.9	645.8
75°	17314.5	14746.5	4955.3	1016.2	743.8	633.6	606.0	596.8	566.2	541.7	535.6
77.5°	7217.2	6565.2	2310.8	737.6	566.2	511.1	486.7	486.7	453.0	425.4	413.2
80°	2721.0	2424.1	1092.7	505.0	419.3	379.5	364.2	352.0	324.4	290.8	272.4
82.5°	3639.2	2378.2	535.6	315.3	275.5	244.9	223.4	214.2	198.9	183.6	171.4
85°	2356.7	1689.5	241.8	162.2	137.7	104.1	91.8	85.7	76.5	67.3	61.2
87.5°	480.5	566.2	73.5	30.6	18.4	9.2	9.2	3.1	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)