

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: P638762

Luminaire Tested: GWS-SA4F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638762
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-SA4F-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33962.4 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

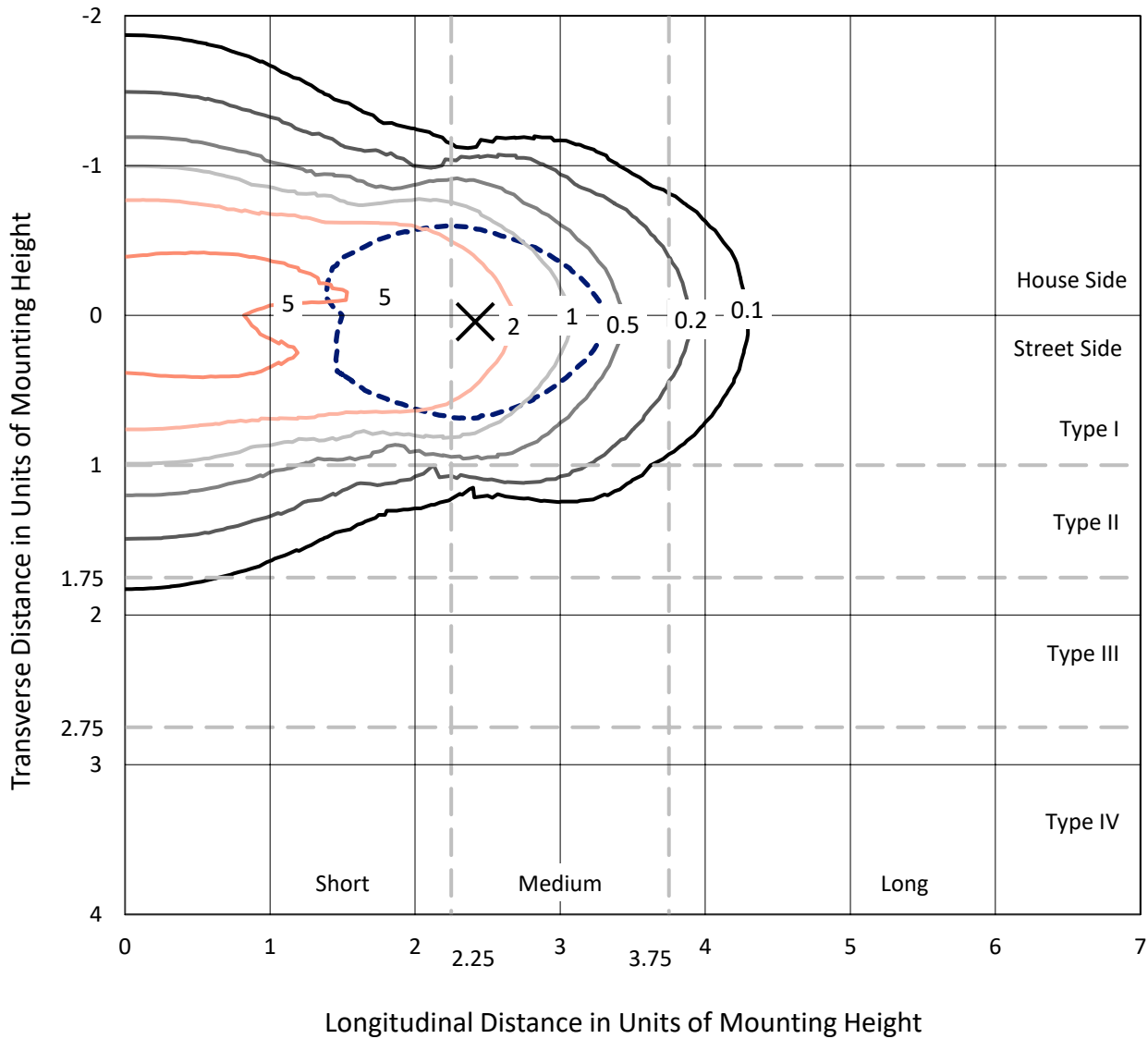
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

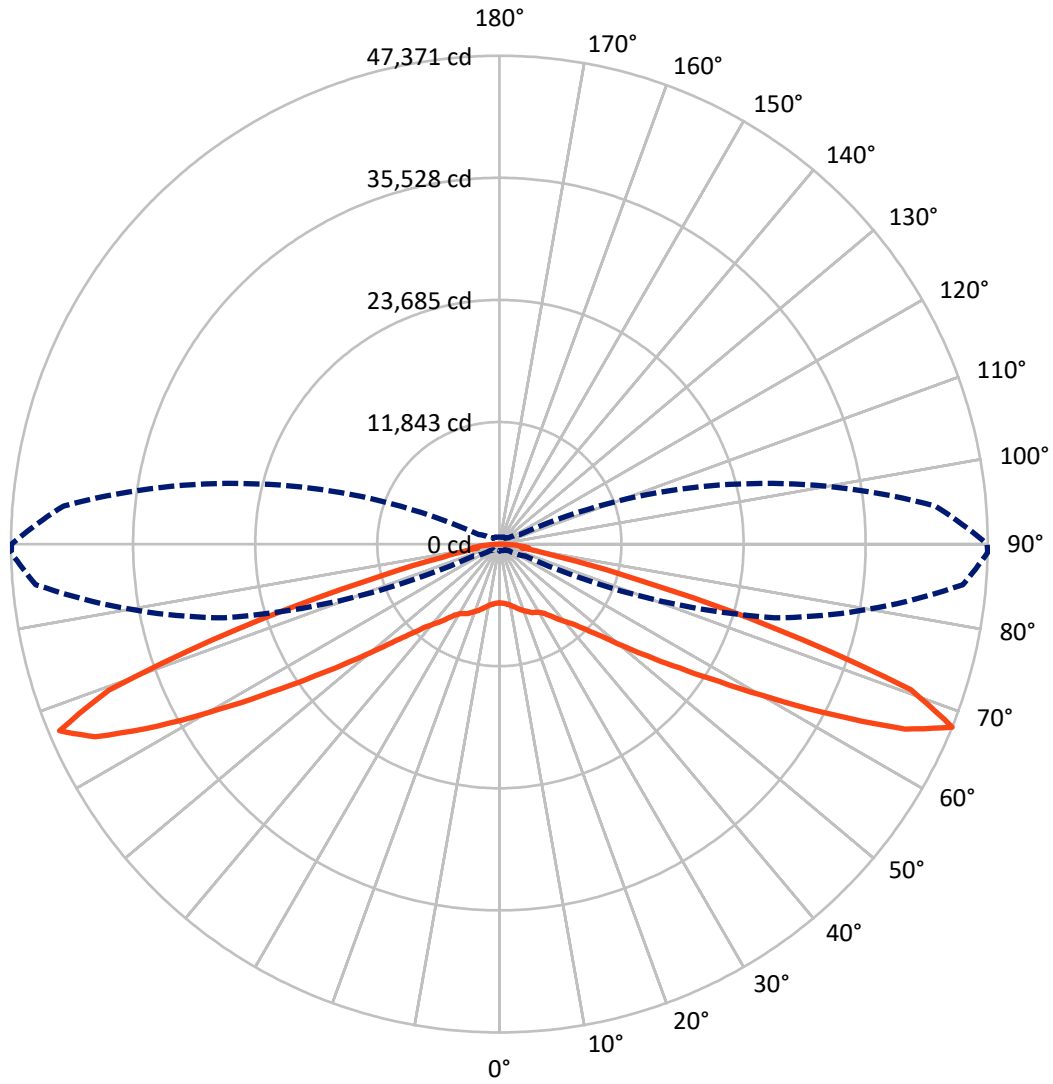
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Medium - N/A

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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	16832.4	0.0	16832.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17130.0	0.0	17130.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	33962.4	0.0	33962.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	1.7
10°-20°	1861.8	5.5
20°-30°	3147.3	9.3
30°-40°	4319.3	12.7
40°-50°	5508.1	16.2
50°-60°	6910.7	20.3
60°-70°	8334.9	24.5
70°-80°	3015.3	8.9
80°-90°	293.2	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°	33962.4	100.0
0°-180°	33962.4	100.0

Coefficient of Utilization



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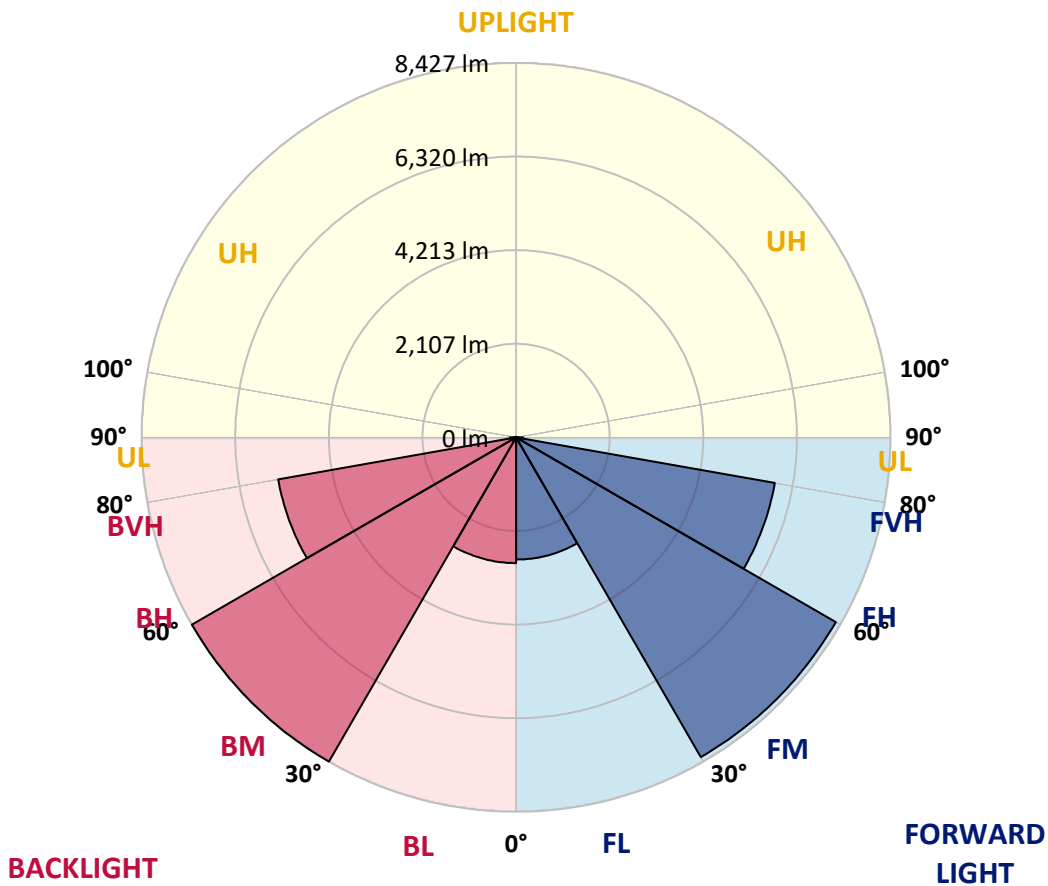
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.7	8.1			
FM (30°-60°)	8311.3	24.5			
FH (60°-80°)	5913.4	17.4			G3/7500
FVH (80°-90°)	154.7	0.5			G2/225
BL (0°-30°)	2830.2	8.3	B4/5000		
BM (30°-60°)	8426.8	24.8	B4/8500		
BH (60°-80°)	5436.8	16.0	B5		G5
BVH (80°-90°)	138.5	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°	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3
2.5°	5717.4	5712.5	5700.3	5736.9	5729.6	5732.0	5746.7	5736.9	5719.8	5690.6	5732.0
5°	5878.4	5875.9	5849.1	5871.1	5846.7	5829.6	5827.2	5802.8	5783.2	5751.5	5795.4
7.5°	6034.5	6032.0	6010.1	6049.1	6029.6	6010.1	5988.1	5939.4	5893.0	5846.7	5895.4
10°	6154.0	6151.6	6146.7	6202.8	6207.7	6215.0	6205.2	6122.3	6041.8	5985.7	6034.5
12.5°	6222.3	6229.6	6241.8	6344.3	6395.5	6444.3	6456.5	6388.2	6254.0	6173.5	6232.1
15°	6176.0	6190.6	6251.6	6436.9	6578.4	6688.2	6734.5	6678.4	6505.2	6371.1	6436.9
17.5°	5954.0	5966.2	6085.7	6368.6	6680.9	6934.5	7010.1	6976.0	6783.3	6619.9	6683.3
20°	5646.7	5673.5	5802.8	6197.9	6663.8	7105.3	7307.7	7295.5	7085.8	6834.5	6910.1
22.5°	5368.6	5400.3	5536.9	5973.5	6549.1	7149.2	7607.7	7639.4	7361.4	7049.2	7110.1
25°	5056.4	5085.6	5261.3	5707.6	6351.6	7115.0	7863.8	8007.8	7673.6	7295.5	7351.6
27.5°	4736.8	4758.8	4932.0	5407.6	6093.0	7051.6	8066.3	8412.7	7980.9	7466.3	7505.3
30°	4456.3	4485.6	4644.2	5107.6	5810.1	6924.8	8232.2	8844.4	8334.6	7659.0	7690.7
32.5°	4185.6	4210.0	4383.2	4812.5	5510.1	6729.6	8381.0	9351.7	8859.0	8017.5	8017.5
35°	3844.1	3888.0	4083.2	4529.5	5227.1	6471.1	8488.3	9942.0	9576.1	8546.8	8549.3
37.5°	3529.5	3553.9	3758.7	4210.0	4929.5	6178.4	8498.0	10554.2	10483.5	9220.0	9224.9
40°	3170.9	3202.6	3422.1	3868.5	4588.1	5871.1	8405.3	11125.0	11434.8	9912.7	9885.9
42.5°	2807.5	2853.8	3063.6	3500.2	4219.7	5495.4	8159.0	11668.9	12642.2	10715.2	10649.4
45°	2456.2	2485.5	2695.3	3107.5	3797.8	5046.6	7763.8	12190.9	14076.4	11934.8	11839.7
47.5°	2061.1	2073.3	2290.4	2685.5	3361.2	4546.6	7198.0	12656.8	15652.1	13549.5	13386.1
50°	1709.9	1726.9	1897.7	2236.7	2827.0	3953.9	6493.0	12930.0	17659.5	15752.1	15469.1
52.5°	1383.0	1400.1	1536.7	1807.4	2336.7	3278.2	5619.8	12866.6	19696.2	18486.4	18074.2
55°	1117.1	1129.3	1222.0	1434.2	1839.1	2607.5	4588.1	12298.2	21957.3	22057.3	21169.5
57.5°	944.0	948.8	1012.3	1141.5	1436.7	2009.9	3541.7	10956.7	24328.2	26613.7	25155.0
60°	843.9	846.4	875.7	956.2	1134.2	1534.2	2595.3	8820.0	26784.4	32314.0	30313.9
62.5°	780.5	780.5	804.9	851.3	941.5	1180.6	1907.4	6334.5	28547.9	38516.8	36528.8
65°	719.6	719.6	736.6	775.7	824.4	963.5	1431.8	4085.6	29413.8	43702.4	43260.9
67.5°	641.5	643.9	656.1	697.6	741.5	804.9	1085.4	2763.6	27616.2	45136.6	47370.9
70°	568.3	570.8	587.8	614.7	651.3	695.2	848.8	1905.0	20101.1	37592.3	42356.0
72.5°	487.8	497.6	509.8	539.1	561.0	592.7	692.7	1234.2	11695.8	24181.8	27999.1
75°	400.0	412.2	426.9	456.1	470.8	483.0	570.8	880.5	5627.1	12254.3	13954.4
77.5°	309.8	322.0	339.0	365.9	375.6	390.3	436.6	636.6	2695.3	5432.0	5856.4
80°	207.3	212.2	226.8	258.6	275.6	285.4	322.0	434.2	1170.8	2180.6	2161.1
82.5°	126.8	129.3	134.2	153.7	161.0	170.7	209.8	265.9	558.6	2478.2	2841.6
85°	46.3	43.9	41.5	53.7	63.4	73.2	97.6	134.2	243.9	1702.5	1905.0
87.5°	0.0	0.0	0.0	2.4	4.9	4.9	9.8	19.5	58.5	636.6	436.6
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°	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3
2.5°	5719.8	5693.0	5727.1	5751.5	5805.2	5824.7	5829.6	5812.5	5812.5	5783.2	5788.1
5°	5785.7	5768.6	5824.7	5866.2	5944.2	5973.5	5993.0	5980.8	5988.1	5968.6	5973.5
7.5°	5885.7	5871.1	5968.6	6049.1	6129.6	6163.8	6180.8	6171.1	6173.5	6149.1	6156.4
10°	6024.7	6029.6	6146.7	6251.6	6358.9	6393.0	6400.4	6371.1	6346.7	6302.8	6305.2
12.5°	6215.0	6239.4	6405.2	6522.3	6632.1	6680.9	6627.2	6519.9	6419.9	6344.3	6334.5
15°	6422.3	6466.2	6705.2	6854.0	6973.6	6949.2	6790.6	6549.1	6351.6	6239.4	6217.4
17.5°	6671.1	6737.0	7037.0	7215.0	7317.5	7161.4	6829.6	6468.7	6193.0	6041.8	6012.5
20°	6905.3	7010.1	7388.2	7619.9	7632.1	7280.9	6812.6	6305.2	5958.9	5773.5	5734.5
22.5°	7119.9	7254.1	7756.5	8051.7	7893.1	7334.6	6707.7	6073.5	5675.9	5458.8	5424.7
25°	7354.1	7544.3	8185.8	8461.4	8154.1	7312.6	6488.2	5785.7	5334.4	5112.5	5088.1
27.5°	7515.0	7754.1	8617.5	8881.0	8368.8	7188.2	6205.2	5471.0	5022.2	4812.5	4778.3
30°	7700.4	8005.3	9093.2	9337.1	8500.5	7005.3	5902.8	5178.3	4732.0	4505.1	4480.7
32.5°	8037.0	8420.0	9683.5	9820.1	8541.9	6778.4	5612.5	4895.4	4429.5	4202.7	4168.5
35°	8578.5	9027.3	10512.8	10359.1	8510.2	6529.6	5336.9	4563.7	4119.7	3907.5	3873.4
37.5°	9261.5	9820.1	11437.2	10844.5	8422.4	6256.4	5010.0	4285.6	3841.7	3627.0	3607.5
40°	9898.1	10586.0	12473.9	11264.0	8244.4	5919.8	4695.4	3995.3	3541.7	3314.8	3270.9
42.5°	10695.7	11610.4	13673.9	11627.5	7951.7	5517.4	4341.7	3636.8	3166.0	2961.1	2907.5
45°	11908.0	13044.6	15069.1	11976.3	7515.0	5022.2	3897.8	3200.2	2753.8	2544.0	2502.6
47.5°	13420.3	14837.4	16581.4	12183.6	6851.6	4500.2	3395.3	2739.2	2292.8	2056.2	2036.7
50°	15544.8	17444.9	18203.4	12147.0	6110.1	3880.7	2829.4	2190.4	1817.2	1646.4	1619.6
52.5°	18132.7	20718.2	19957.2	11708.0	5322.2	3175.8	2205.0	1719.6	1441.5	1319.6	1297.6
55°	21379.2	24637.9	21803.6	10766.4	4327.1	2431.8	1731.8	1356.2	1165.9	1092.7	1083.0
57.5°	25399.0	29713.8	23581.8	9181.0	3253.8	1856.2	1334.2	1119.6	1029.3	985.4	983.0
60°	30704.1	35101.9	25125.8	7134.5	2329.4	1419.6	1102.5	1000.1	929.3	900.0	897.6
62.5°	37011.8	39994.9	26086.8	4858.8	1751.3	1131.8	970.8	907.4	865.9	848.8	846.4
65°	43495.1	43087.7	25628.2	3183.1	1329.3	961.0	870.8	836.6	800.0	783.0	783.0
67.5°	47324.6	42434.1	22108.5	2209.9	1053.7	843.9	785.4	753.7	692.7	678.1	678.1
70°	41917.0	34384.8	14491.0	1617.2	853.7	739.1	683.0	639.1	614.7	600.0	597.6
72.5°	27723.5	22374.4	7705.3	1122.0	712.2	629.3	578.1	561.0	531.7	517.1	514.7
75°	13798.3	11751.9	3949.0	809.8	592.7	504.9	483.0	475.6	451.2	431.7	426.9
77.5°	5751.5	5232.0	1841.6	587.8	451.2	407.3	387.8	387.8	361.0	339.0	329.3
80°	2168.4	1931.8	870.8	402.5	334.2	302.5	290.3	280.5	258.6	231.7	217.1
82.5°	2900.2	1895.2	426.9	251.2	219.5	195.1	178.1	170.7	158.5	146.3	136.6
85°	1878.2	1346.4	192.7	129.3	109.8	82.9	73.2	68.3	61.0	53.7	48.8
87.5°	382.9	451.2	58.5	24.4	14.6	7.3	7.3	2.4	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)