

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: P643712

Luminaire Tested: GWS-SA6F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643712
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-SA6F-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49679.1 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

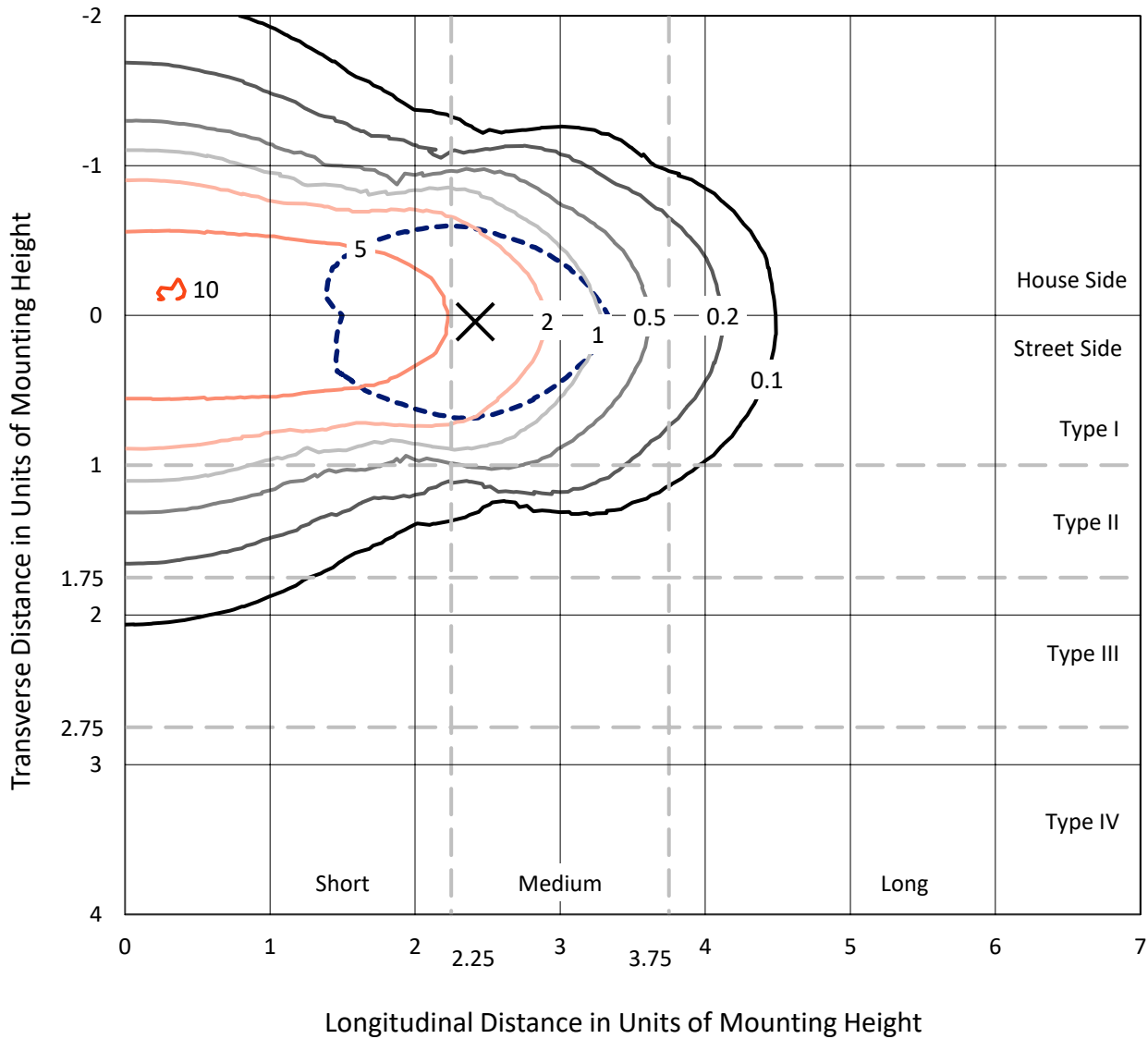
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

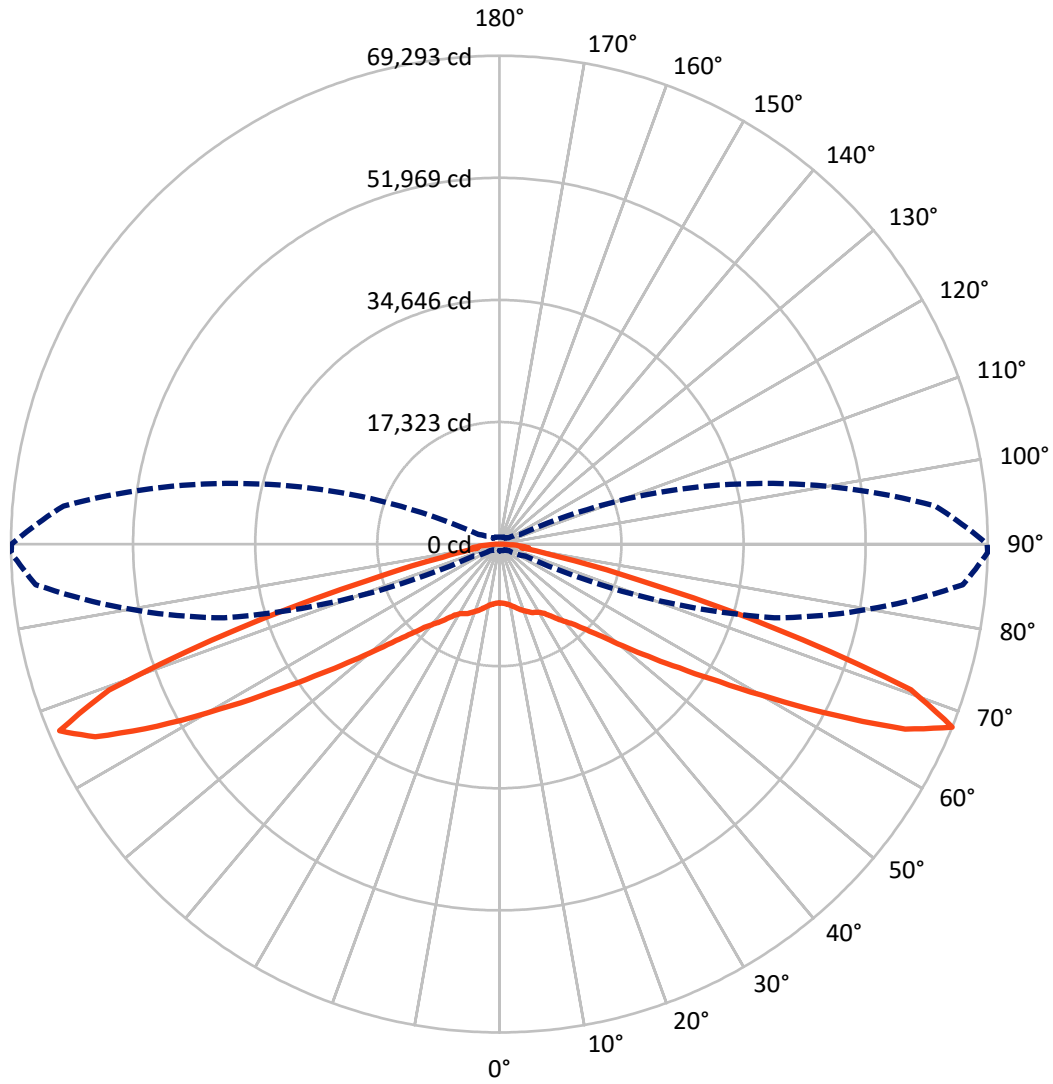
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	24621.8	0.0	24621.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	25057.3	0.0	25057.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	49679.1	0.0	49679.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.4	1.7
10°-20°	2723.4	5.5
20°-30°	4603.8	9.3
30°-40°	6318.1	12.7
40°-50°	8057.0	16.2
50°-60°	10108.8	20.3
60°-70°	12192.0	24.5
70°-80°	4410.7	8.9
80°-90°	428.9	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°	49679.1	100.0
0°-180°	49679.1	100.0

Coefficient of Utilization



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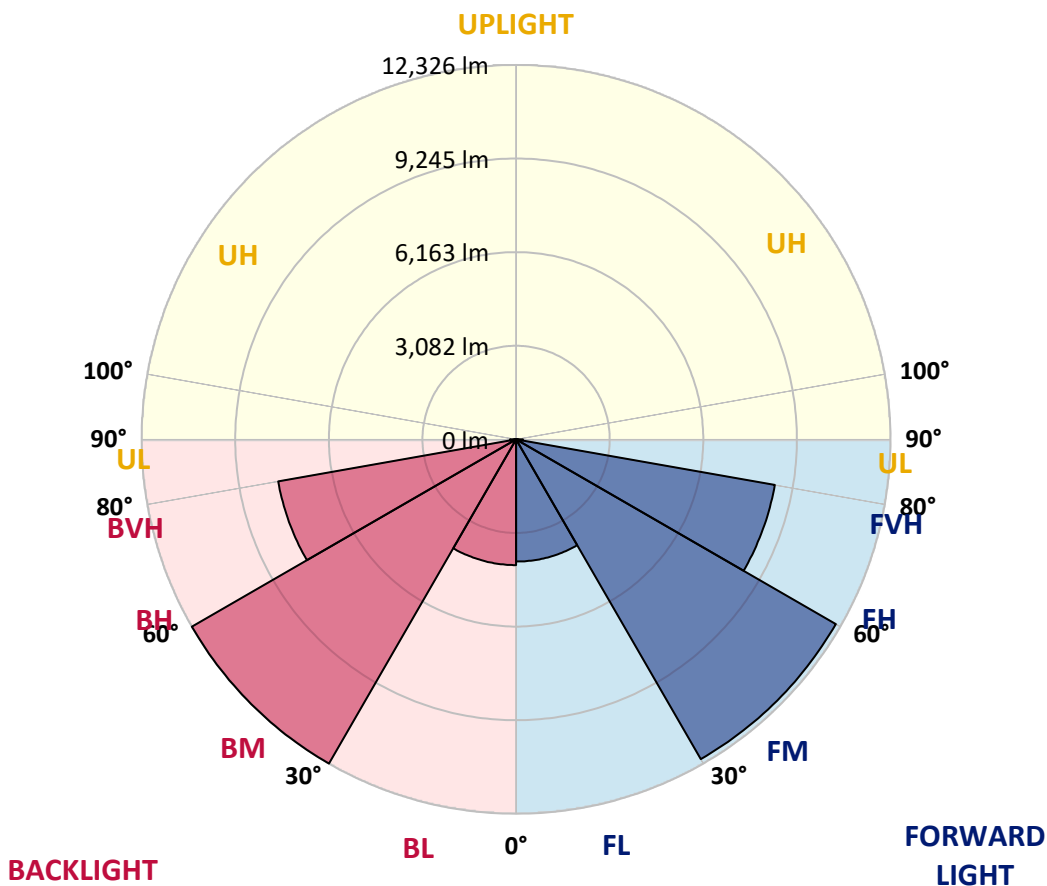
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4023.6	8.1			
FM (30°-60°)	12157.4	24.5			
FH (60°-80°)	8649.9	17.4			G4/12000
FVH (80°-90°)	226.3	0.5			G3/500
BL (0°-30°)	4140.0	8.3	B4/5000		
BM (30°-60°)	12326.4	24.8	B5		
BH (60°-80°)	7952.8	16.0	B5		G5
BVH (80°-90°)	202.6	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°	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2
2.5°	8363.2	8356.1	8338.2	8391.8	8381.1	8384.6	8406.0	8391.8	8366.8	8324.0	8384.6
5°	8598.7	8595.1	8555.9	8588.0	8552.3	8527.3	8523.8	8488.1	8459.5	8413.2	8477.4
7.5°	8827.0	8823.5	8791.4	8848.4	8819.9	8791.4	8759.3	8687.9	8620.1	8552.3	8623.7
10°	9001.9	8998.3	8991.2	9073.2	9080.4	9091.1	9076.8	8955.5	8837.7	8755.7	8827.0
12.5°	9101.8	9112.5	9130.3	9280.2	9355.1	9426.5	9444.3	9344.4	9148.2	9030.4	9116.0
15°	9034.0	9055.4	9144.6	9415.7	9622.7	9783.2	9851.0	9769.0	9515.7	9319.4	9415.7
17.5°	8709.3	8727.1	8902.0	9315.8	9772.5	10143.6	10254.2	10204.3	9922.4	9683.3	9776.1
20°	8259.7	8299.0	8488.1	9066.1	9747.6	10393.4	10689.5	10671.7	10364.8	9997.3	10107.9
22.5°	7853.0	7899.4	8099.2	8737.8	9579.9	10457.6	11128.4	11174.7	10768.0	10311.3	10400.5
25°	7396.3	7439.1	7696.0	8348.9	9290.9	10407.6	11503.0	11713.5	11224.7	10671.7	10753.7
27.5°	6928.9	6961.0	7214.3	7910.1	8912.7	10314.9	11799.1	12305.8	11674.2	10921.4	10978.5
30°	6518.6	6561.4	6793.3	7471.2	8498.8	10129.3	12041.7	12937.3	12191.6	11203.3	11249.7
32.5°	6122.6	6158.2	6411.6	7039.5	8059.9	9843.9	12259.4	13679.4	12958.7	11727.8	11727.8
35°	5623.0	5687.3	5972.7	6625.6	7646.1	9465.7	12416.4	14542.9	14007.7	12502.0	12505.6
37.5°	5162.8	5198.5	5498.2	6158.2	7210.8	9037.5	12430.6	15438.4	15334.9	13486.8	13493.9
40°	4638.3	4684.7	5005.8	5658.7	6711.3	8588.0	12295.1	16273.3	16726.4	14500.0	14460.8
42.5°	4106.7	4174.5	4481.3	5120.0	6172.5	8038.5	11934.7	17068.9	18492.5	15673.9	15577.6
45°	3592.9	3635.7	3942.6	4545.5	5555.3	7382.0	11356.7	17832.5	20590.5	17457.8	17318.7
47.5°	3014.9	3032.7	3350.3	3928.3	4916.6	6650.6	10528.9	18514.0	22895.4	19819.8	19580.8
50°	2501.1	2526.1	2775.8	3271.8	4135.2	5783.6	9497.8	18913.6	25831.8	23041.6	22627.8
52.5°	2023.0	2048.0	2247.8	2643.8	3418.1	4795.3	8220.5	18820.8	28811.0	27041.3	26438.3
55°	1634.1	1651.9	1787.5	2097.9	2690.2	3814.1	6711.3	17989.5	32118.4	32264.7	30966.0
57.5°	1380.8	1387.9	1480.7	1669.8	2101.5	2940.0	5180.6	16027.1	35586.5	38929.6	36796.0
60°	1234.5	1238.1	1280.9	1398.6	1659.1	2244.2	3796.3	12901.6	39179.4	47267.8	44342.2
62.5°	1141.7	1141.7	1177.4	1245.2	1377.2	1726.9	2790.1	9265.9	41759.0	56341.1	53433.2
65°	1052.5	1052.5	1077.5	1134.6	1206.0	1409.3	2094.4	5976.3	43025.6	63926.5	63280.7
67.5°	938.4	941.9	959.8	1020.4	1084.6	1177.4	1587.7	4042.5	40396.0	66024.4	69292.6
70°	831.3	834.9	859.9	899.1	952.6	1016.9	1241.6	2786.5	29403.3	54988.8	61957.0
72.5°	713.6	727.9	745.7	788.5	820.6	867.0	1013.3	1805.4	17108.2	35372.4	40956.2
75°	585.1	603.0	624.4	667.2	688.6	706.4	834.9	1288.0	8231.2	17925.2	20412.1
77.5°	453.1	471.0	495.9	535.2	549.5	570.9	638.7	931.2	3942.6	7945.8	8566.6
80°	303.3	310.4	331.8	378.2	403.2	417.4	471.0	635.1	1712.6	3189.7	3161.2
82.5°	185.5	189.1	196.2	224.8	235.5	249.8	306.8	388.9	817.1	3625.0	4156.6
85°	67.8	64.2	60.7	78.5	92.8	107.0	142.7	196.2	356.8	2490.4	2786.5
87.5°	0.0	0.0	0.0	3.6	7.1	7.1	14.3	28.5	85.6	931.2	638.7
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°	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2	8338.2
2.5°	8366.8	8327.5	8377.5	8413.2	8491.7	8520.2	8527.3	8502.4	8502.4	8459.5	8466.7
5°	8463.1	8438.1	8520.2	8580.9	8695.0	8737.8	8766.4	8748.5	8759.3	8730.7	8737.8
7.5°	8609.4	8588.0	8730.7	8848.4	8966.2	9016.1	9041.1	9026.8	9030.4	8994.7	9005.4
10°	8812.8	8819.9	8991.2	9144.6	9301.6	9351.5	9362.2	9319.4	9283.7	9219.5	9223.1
12.5°	9091.1	9126.7	9369.4	9540.6	9701.2	9772.5	9694.0	9537.1	9390.8	9280.2	9265.9
15°	9394.3	9458.6	9808.2	10025.9	10200.7	10165.0	9933.1	9579.9	9290.9	9126.7	9094.6
17.5°	9758.3	9854.6	10293.5	10553.9	10703.8	10475.4	9990.2	9462.1	9059.0	8837.7	8794.9
20°	10100.8	10254.2	10807.2	11146.2	11164.0	10650.3	9965.2	9223.1	8716.4	8445.3	8388.2
22.5°	10414.8	10611.0	11346.0	11777.7	11545.8	10728.7	9811.8	8884.1	8302.6	7985.0	7935.1
25°	10757.3	11035.6	11974.0	12377.1	11927.6	10696.6	9490.7	8463.1	7803.0	7478.4	7442.7
27.5°	10992.8	11342.4	12605.5	12990.8	12241.5	10514.7	9076.8	8002.9	7346.4	7039.5	6989.6
30°	11263.9	11709.9	13301.2	13658.0	12434.2	10247.1	8634.4	7574.7	6921.8	6590.0	6554.3
32.5°	11756.3	12316.5	14164.7	14364.5	12494.9	9915.3	8209.8	7160.8	6479.3	6147.5	6097.6
35°	12548.4	13204.9	15377.7	15153.0	12448.5	9551.3	7806.6	6675.6	6026.2	5715.8	5665.9
37.5°	13547.4	14364.5	16730.0	15863.0	12320.0	9151.7	7328.5	6268.8	5619.5	5305.5	5277.0
40°	14478.6	15484.8	18246.4	16476.7	12059.6	8659.3	6868.3	5844.3	5180.6	4848.8	4784.6
42.5°	15645.3	16983.3	20001.8	17008.3	11631.4	8070.6	6350.9	5319.8	4631.2	4331.5	4253.0
45°	17418.6	19081.3	22042.6	17518.5	10992.8	7346.4	5701.5	4681.1	4028.2	3721.3	3660.7
47.5°	19630.7	21703.7	24254.7	17821.8	10022.3	6582.8	4966.5	4006.8	3353.8	3007.8	2979.2
50°	22738.4	25517.8	26627.4	17768.3	8937.6	5676.6	4138.8	3204.0	2658.1	2408.3	2369.1
52.5°	26523.9	30305.9	29192.7	17126.0	7785.2	4645.4	3225.4	2515.4	2108.6	1930.2	1898.1
55°	31272.8	36039.6	31893.7	15748.8	6329.5	3557.2	2533.2	1983.8	1705.5	1598.4	1584.2
57.5°	37152.8	43464.4	34494.7	13429.7	4759.6	2715.2	1951.7	1637.7	1505.7	1441.4	1437.9
60°	44913.0	51346.0	36753.2	10436.2	3407.4	2076.5	1612.7	1462.8	1359.4	1316.6	1313.0
62.5°	54139.7	58503.2	38158.9	7107.3	2561.8	1655.5	1420.0	1327.3	1266.6	1241.6	1238.1
65°	63623.2	63027.4	37488.2	4656.1	1944.5	1405.8	1273.7	1223.8	1170.3	1145.3	1145.3
67.5°	69224.8	62071.2	32339.7	3232.5	1541.3	1234.5	1148.9	1102.5	1013.3	991.9	991.9
70°	61314.8	50297.0	21197.0	2365.5	1248.8	1081.1	999.0	934.8	899.1	877.7	874.1
72.5°	40553.0	32728.6	11271.1	1641.2	1041.8	920.5	845.6	820.6	777.8	756.4	752.8
75°	20183.7	17190.3	5776.5	1184.6	867.0	738.6	706.4	695.7	660.1	631.5	624.4
77.5°	8413.2	7653.2	2693.8	859.9	660.1	595.8	567.3	567.3	528.1	495.9	481.7
80°	3171.9	2825.8	1273.7	588.7	488.8	442.4	424.6	410.3	378.2	339.0	317.5
82.5°	4242.3	2772.3	624.4	367.5	321.1	285.4	260.5	249.8	231.9	214.1	199.8
85°	2747.3	1969.5	281.9	189.1	160.6	121.3	107.0	99.9	89.2	78.5	71.4
87.5°	560.2	660.1	85.6	35.7	21.4	10.7	10.7	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)