

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636728

Luminaire Tested: **IFLD-L-SA7A-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15242.4 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

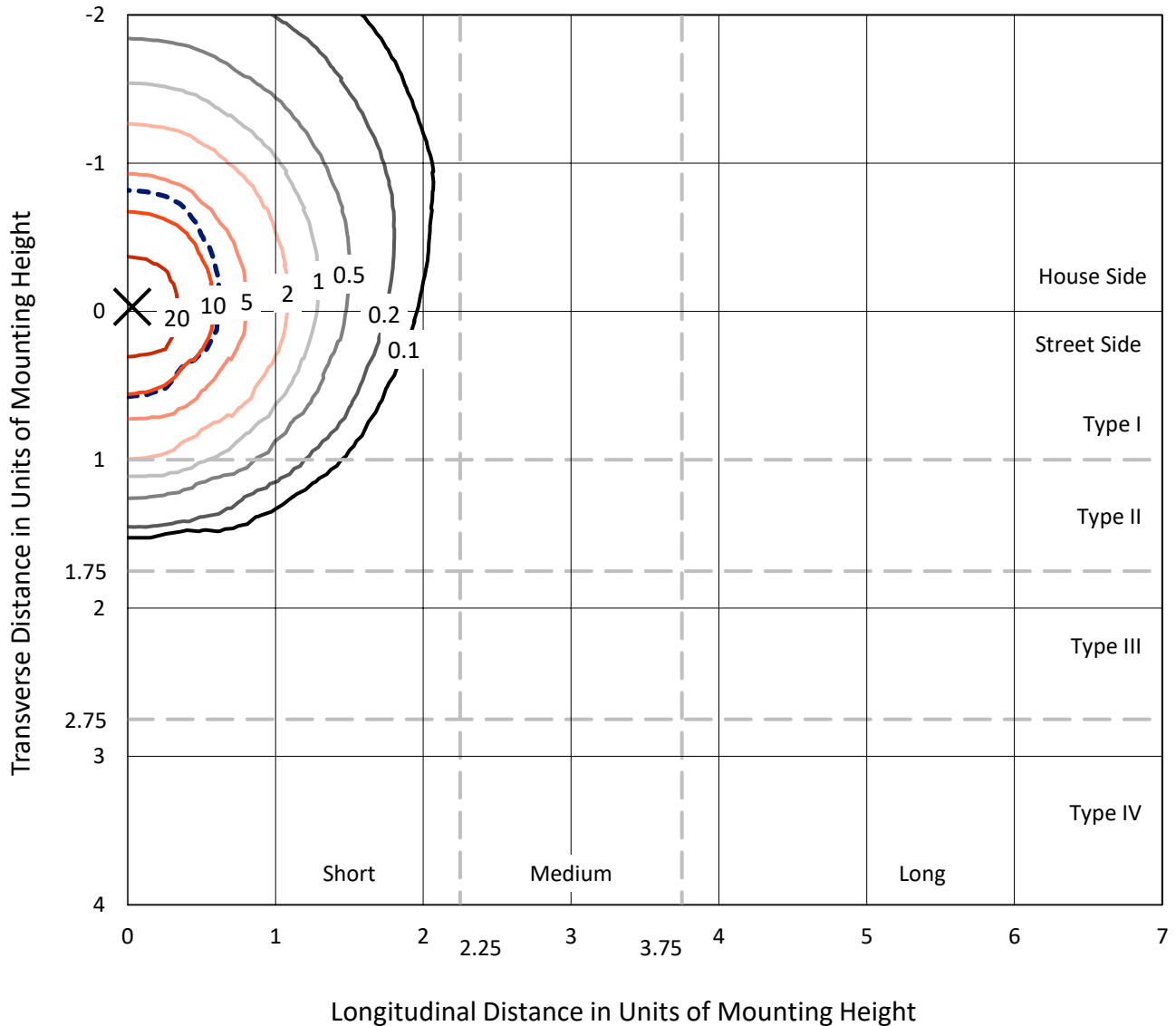
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636728
 CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

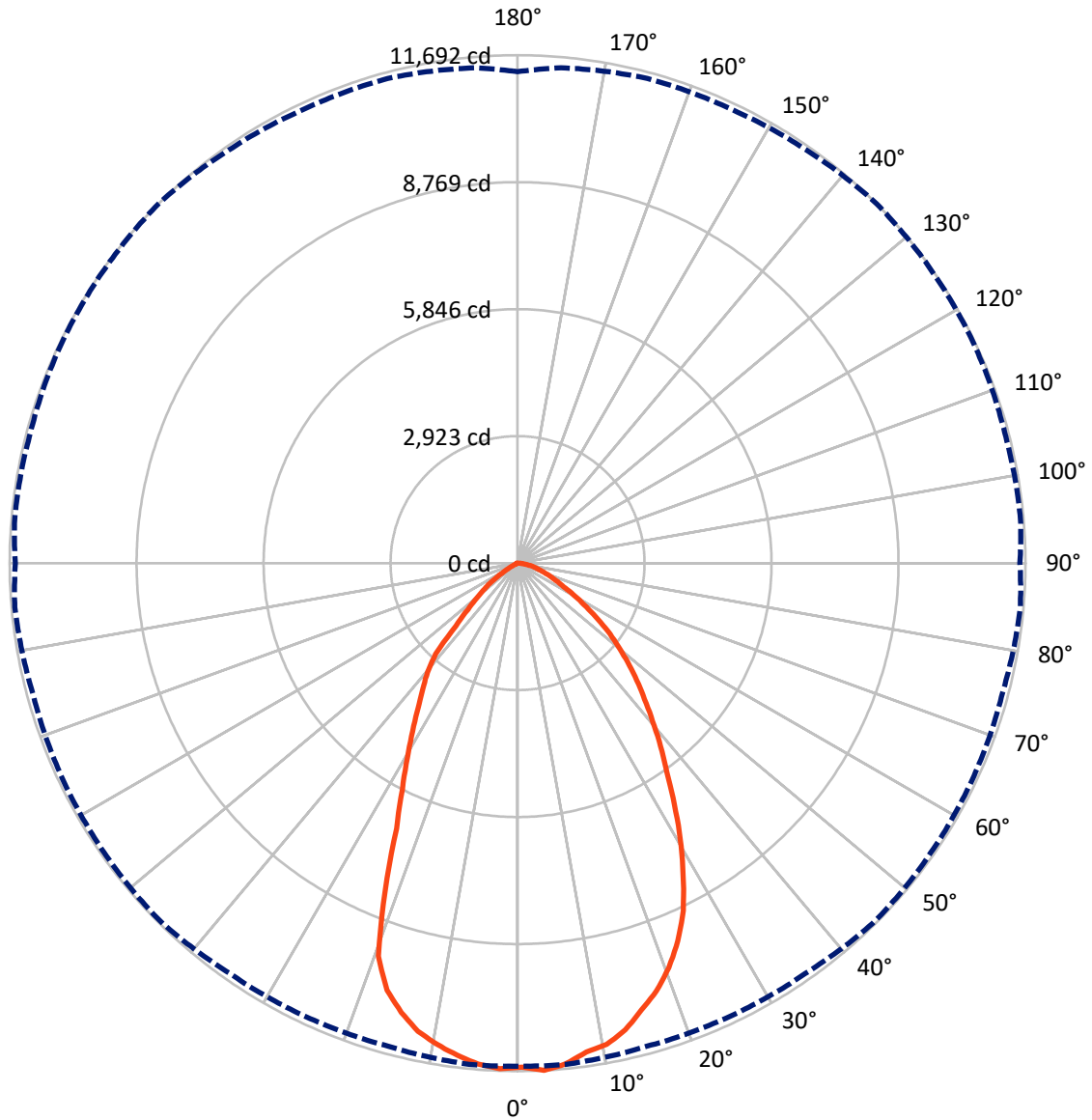
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 fc
 Type I - Short - N/A

REPORT NUMBER: P636728
CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636728

CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9027.3	0.0	9027.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6215.1	0.0	6215.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	15242.4	0.0	15242.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.8	7.1
10°-20°	2917.1	19.1
20°-30°	3557.6	23.3
30°-40°	3248.0	21.3
40°-50°	2347.3	15.4
50°-60°	1281.6	8.4
60°-70°	529.9	3.5
70°-80°	214.6	1.4
80°-90°	58.4	0.4
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°	15242.4	100.0
0°-180°	15242.4	100.0



REPORT NUMBER: P636728

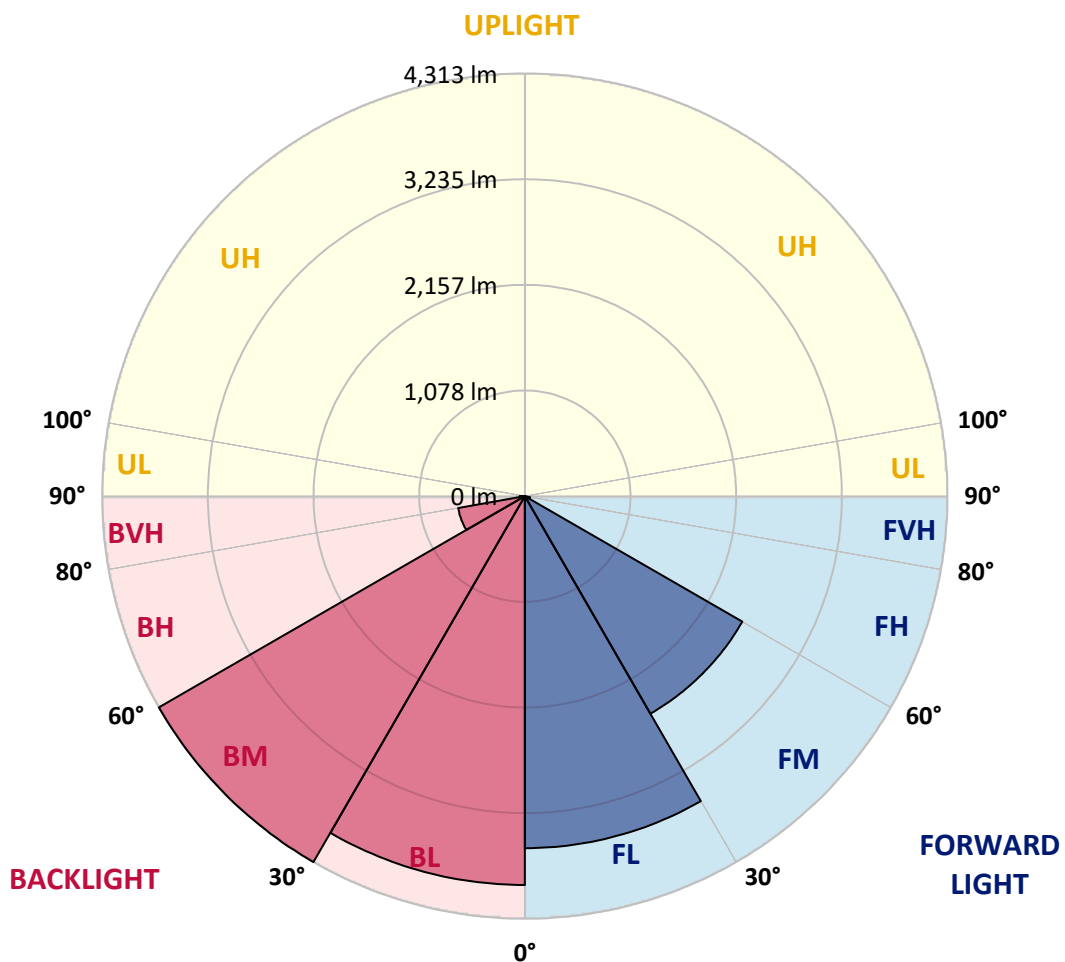
CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3593.2	23.6			
FM (30°-60°)	2563.5	16.8			
FH (60°-80°)	53.7	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3969.3	26.0	B4/5000		
BM (30°-60°)	4313.5	28.3	B3/5000		
BH (60°-80°)	690.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	53.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P636728
 CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4
2.5°	11578.0	11593.0	11511.4	11520.0	11535.1	11644.5	11616.6	11590.9	11554.4	11616.6
5°	11563.0	11571.5	11485.7	11455.6	11468.5	11567.2	11477.1	11477.1	11468.5	11457.8
7.5°	11447.0	11451.3	11384.8	11331.1	11365.5	11410.6	11344.0	11376.2	11329.0	11365.5
10°	11273.2	11245.3	11165.9	11150.8	11189.5	11232.4	11187.3	11217.4	11174.4	11202.4
12.5°	11017.8	10974.8	10910.4	10891.1	10957.7	11015.6	10979.1	10961.9	10906.1	10974.8
15°	10032.5	10000.3	10146.3	10401.7	10631.4	10680.8	10642.1	10659.3	10543.4	10562.7
17.5°	8257.4	8197.3	8354.0	8959.3	9822.2	10277.2	10242.9	10131.3	9959.6	9998.2
20°	7504.0	7486.8	7469.7	7613.5	8216.6	9596.8	9644.0	9360.7	9116.0	9062.3
22.5°	7079.0	7072.6	7055.4	7087.6	7246.4	8132.9	8673.8	8412.0	8248.8	8233.8
25°	6690.5	6679.8	6628.3	6669.0	6669.0	6720.6	7413.9	7572.7	7428.9	7411.7
27.5°	6295.6	6276.2	6267.6	6287.0	6188.2	5840.5	6016.5	6791.4	6716.3	6720.6
30°	5868.4	5862.0	5838.4	5879.1	5574.3	5142.9	5031.3	6083.1	6098.1	6093.8
32.5°	5233.1	5261.0	5368.3	5413.4	4911.1	4554.8	4368.0	5263.1	5570.1	5563.6
35°	3801.4	3801.4	4151.2	4801.6	4303.6	4035.3	3934.5	4462.5	5048.5	5069.9
37.5°	3125.2	3136.0	3204.7	3500.9	3713.4	3618.9	3588.9	3756.3	4378.8	4413.1
40°	2811.9	2811.9	2811.9	2689.5	2683.1	3260.5	3243.3	3189.6	3782.1	3857.2
42.5°	2526.4	2532.8	2537.1	2228.0	2056.3	2818.3	2779.7	2698.1	3247.6	3335.6
45°	2232.3	2243.0	2255.9	1863.1	1788.0	2028.4	2352.5	2262.4	2719.6	2833.3
47.5°	1363.0	1380.2	1672.1	1579.8	1588.4	1564.8	1918.9	1903.9	2230.2	2391.2
50°	920.8	927.3	955.2	1002.4	1363.0	1229.9	1358.7	1575.5	1693.6	1938.2
52.5°	772.7	783.5	714.8	650.4	895.1	961.6	948.7	1169.8	1217.0	1519.7
55°	543.1	577.4	545.2	538.8	508.7	747.0	719.1	899.4	929.4	1154.8
57.5°	55.8	64.4	111.6	401.4	332.7	422.9	513.0	659.0	689.0	852.1
60°	4.3	4.3	10.7	55.8	242.5	253.3	354.2	405.7	463.6	594.6
62.5°	0.0	2.1	4.3	8.6	38.6	135.2	178.2	212.5	279.0	384.2
65°	0.0	0.0	2.1	6.4	8.6	51.5	68.7	111.6	152.4	238.3
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	23.6	40.8	81.6	135.2
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.8	36.5	73.0
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	12.9	17.2	25.8	36.5
75°	0.0	0.0	2.1	2.1	6.4	12.9	10.7	12.9	17.2	23.6
77.5°	0.0	0.0	2.1	4.3	6.4	12.9	10.7	12.9	12.9	15.0
80°	0.0	0.0	2.1	4.3	8.6	15.0	12.9	12.9	10.7	10.7
82.5°	0.0	0.0	2.1	6.4	8.6	19.3	19.3	17.2	8.6	6.4
85°	0.0	0.0	4.3	8.6	12.9	21.5	21.5	17.2	6.4	4.3
87.5°	0.0	0.0	4.3	6.4	10.7	15.0	21.5	17.2	6.4	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636728

CATALOG NUMBER: IFLD-L-SA7A-927-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11599.4	0°	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4	11599.4
11563.0	2.5°	11620.9	11608.0	11651.0	11668.1	11691.7	11601.6	11545.8	11547.9	11444.9
11432.0	5°	11500.7	11502.9	11558.7	11554.4	11578.0	11528.6	11507.1	11470.7	11380.5
11266.7	7.5°	11348.3	11329.0	11382.7	11423.4	11363.3	11397.7	11348.3	11365.5	11311.8
11120.8	10°	11230.3	11185.2	11234.5	11262.5	11264.6	11230.3	11183.0	11138.0	11118.6
10893.3	12.5°	10968.4	10910.4	10994.1	11032.8	11026.3	10959.8	10906.1	10916.9	10854.6
10494.0	15°	10607.8	10609.9	10670.0	10706.5	10672.2	10657.2	10661.4	10635.7	10582.0
9942.4	17.5°	10056.1	10088.3	10247.2	10335.2	10354.5	10324.5	10309.4	10279.4	10225.7
9062.3	20°	9137.5	9330.6	9614.0	9886.6	9940.2	9931.6	9878.0	9865.1	9835.1
8190.9	22.5°	8330.4	8474.2	8802.6	9227.6	9446.5	9468.0	9403.6	9384.3	9352.1
7411.7	25°	7495.4	7650.0	7946.2	8407.7	8860.6	8952.9	8942.1	8884.2	8849.8
6720.6	27.5°	6791.4	6945.9	7214.2	7630.6	8115.7	8412.0	8439.9	8347.6	8345.4
6104.5	30°	6156.0	6368.5	6572.4	6911.6	7381.7	7826.0	7873.2	7808.8	7815.2
5540.0	32.5°	5658.1	5834.1	6007.9	6235.5	6626.1	7143.4	7328.0	7267.9	7244.3
5069.9	35°	5149.3	5269.5	5447.7	5655.9	5922.1	6435.1	6754.9	6709.8	6686.2
4434.6	37.5°	4569.8	4775.9	4904.7	5138.6	5346.8	5754.6	6205.4	6199.0	6149.6
3893.7	40°	3975.2	4192.0	4387.4	4623.5	4784.4	5108.6	5608.7	5606.5	5613.0
3333.4	42.5°	3436.5	3636.1	3872.2	4129.8	4284.3	4520.4	5057.0	5087.1	5123.6
2872.0	45°	2949.2	3129.5	3348.5	3661.9	3848.6	3983.8	4460.3	4597.7	4595.6
2459.8	47.5°	2511.4	2680.9	2865.5	3170.3	3408.6	3530.9	3925.9	4121.2	4108.3
2017.7	50°	2107.8	2258.1	2451.3	2672.3	2992.2	3099.5	3393.5	3651.1	3631.8
1607.7	52.5°	1695.7	1903.9	2067.0	2268.8	2605.8	2711.0	2938.5	3189.6	3174.6
1206.3	55°	1322.2	1524.0	1721.5	1895.3	2178.7	2335.3	2498.5	2756.0	2751.8
944.4	57.5°	1000.2	1221.3	1408.1	1573.4	1798.7	1991.9	2122.8	2356.8	2386.9
646.1	60°	740.5	910.1	1111.9	1296.5	1474.6	1674.2	1762.2	1991.9	2004.8
442.2	62.5°	504.4	691.2	888.6	1056.1	1189.1	1395.2	1474.6	1663.5	1687.1
283.3	65°	349.9	470.1	695.5	815.7	978.8	1154.8	1234.2	1384.5	1431.7
163.1	67.5°	231.8	334.8	543.1	652.5	813.5	933.7	1034.6	1156.9	1208.5
103.0	70°	126.6	246.8	388.5	515.1	654.7	770.6	869.3	968.1	1013.1
47.2	72.5°	85.9	165.3	270.5	407.8	528.0	641.8	729.8	802.8	804.9
27.9	75°	42.9	111.6	206.1	315.5	412.1	523.7	603.2	646.1	594.6
17.2	77.5°	25.8	81.6	167.4	253.3	334.8	422.9	467.9	491.5	407.8
12.9	80°	15.0	58.0	130.9	201.8	231.8	311.2	354.2	360.6	272.6
8.6	82.5°	10.7	42.9	103.0	148.1	141.7	218.9	266.2	257.6	173.9
6.4	85°	6.4	30.1	64.4	92.3	85.9	143.8	154.5	158.8	100.9
4.3	87.5°	4.3	17.2	34.3	49.4	40.8	62.2	62.2	75.1	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11599.4
11311.8
11359.0
11221.7
11032.8
10801.0
10528.4
10202.1
9766.4
9343.5
8813.3
8341.1
7783.0
7246.4
6654.0
6190.4
5613.0
5104.3
4599.9
4112.6
3649.0
3206.8
2762.5
2374.0
2024.1
1691.4
1421.0
1202.0
996.0
785.6
555.9
392.8
255.4
161.0
92.3
42.9
0.0

(END OF REPORT)