

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: P637311

Luminaire Tested: **IFLD-L-SA7D-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39345 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

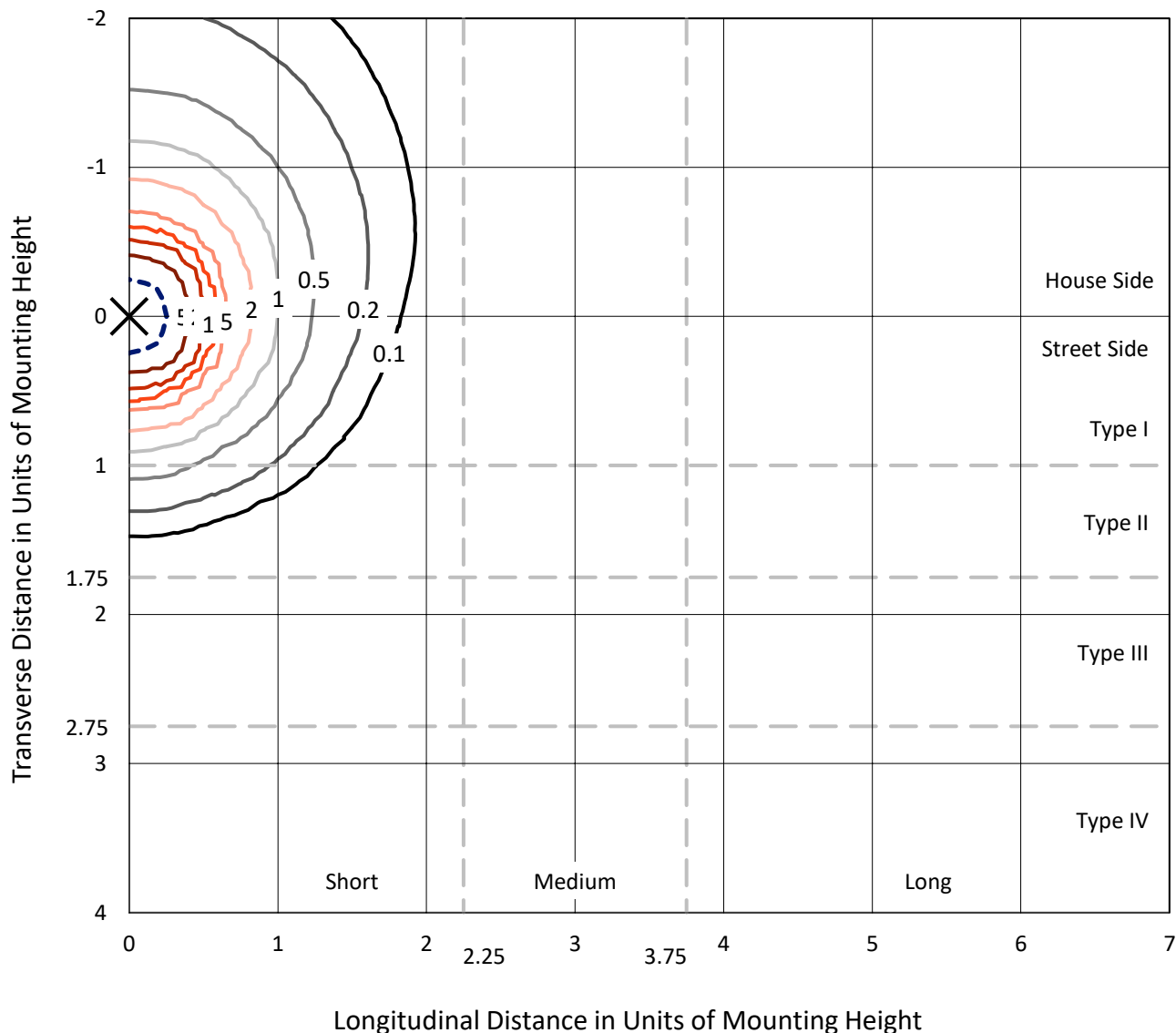
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637311
 CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

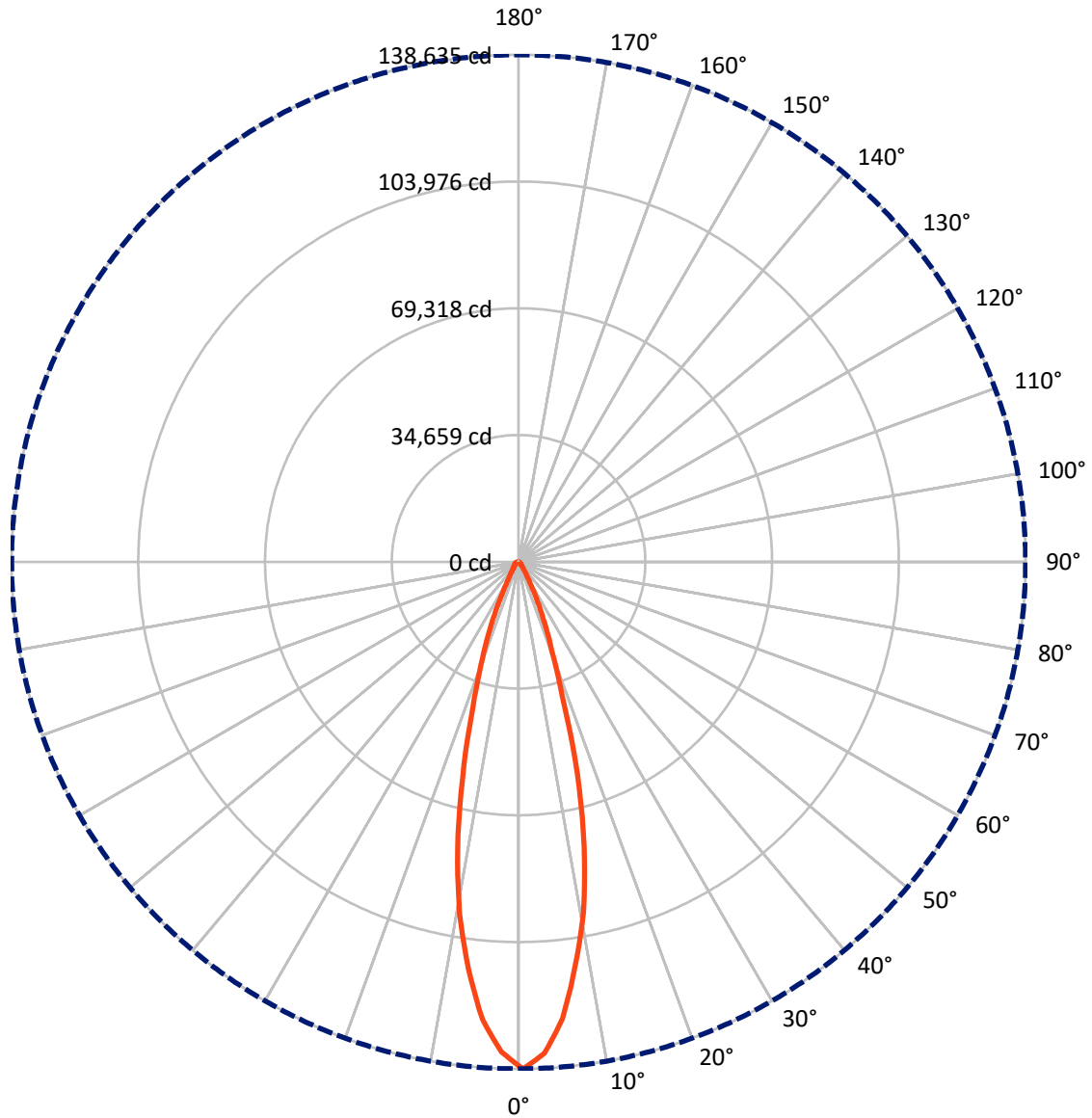
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 346.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637311
CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637311
 CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20745.3	0.0	20745.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18599.7	0.0	18599.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	39345.0	0.0	39345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11189.1	28.4
10°-20°	16945.8	43.1
20°-30°	7151.2	18.2
30°-40°	1865.1	4.7
40°-50°	943.3	2.4
50°-60°	616.6	1.6
60°-70°	369.4	0.9
70°-80°	194.3	0.5
80°-90°	70.2	0.2
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°	39345.0	100.0
0°-180°	39345.0	100.0

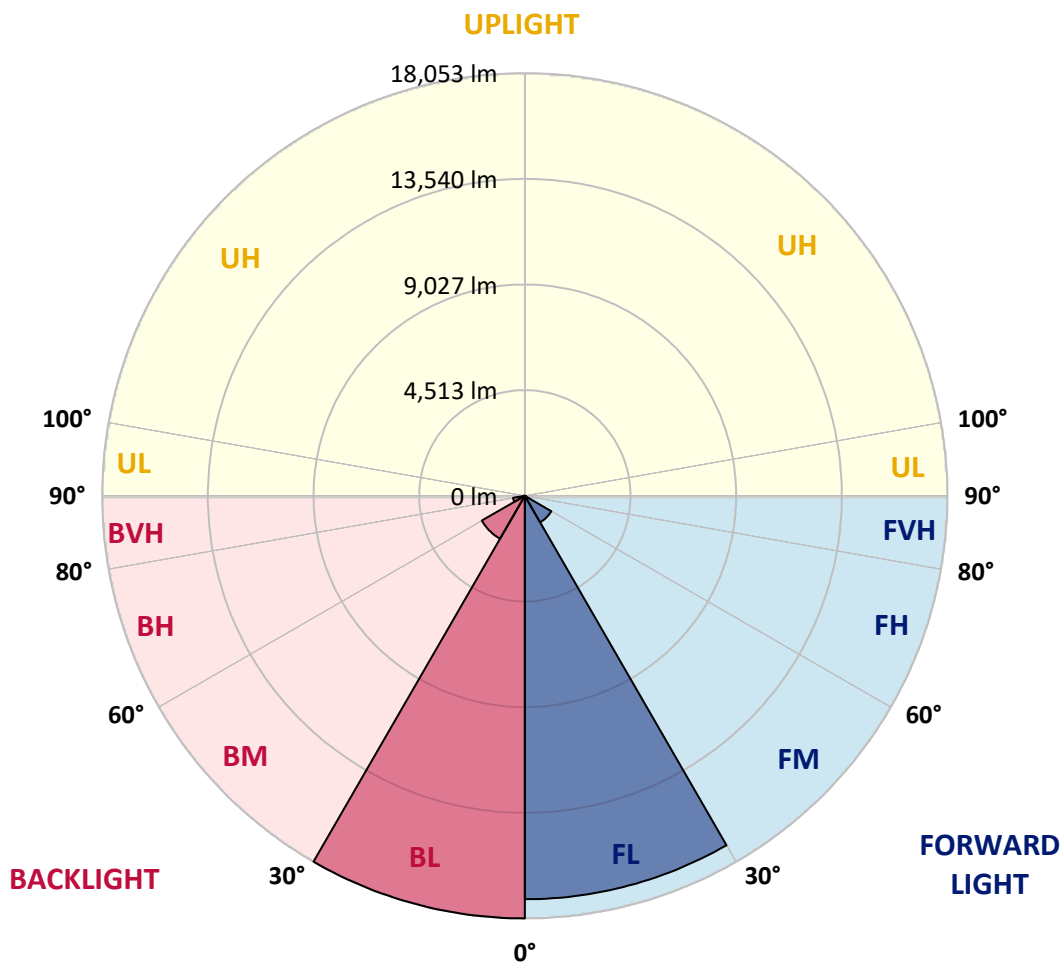


REPORT NUMBER: P637311
 CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17232.9	43.8			
FM (30°-60°)	1305.1	3.3			
FH (60°-80°)	53.2	0.1			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	18053.2	45.9	B5		
BM (30°-60°)	2119.9	5.4	B2/2500		
BH (60°-80°)	510.6	1.3	B2/1000		G0/660
BVH (80°-90°)	61.7	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-G1
 Type V Short





REPORT NUMBER: P637311
 CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0
2.5°	134596.5	134671.6	134393.2	134994.1	134525.8	135780.6	135157.6	136129.7	135802.7	136346.2
5°	125406.0	125282.3	125202.7	126135.0	125865.5	127213.1	126351.5	126068.7	126943.6	126784.5
7.5°	111527.5	111854.4	111668.8	111911.9	112048.8	113586.5	114072.5	113692.5	113705.8	113926.7
10°	97299.9	96818.3	96133.4	96588.5	97551.7	98223.3	97953.8	98510.5	98386.8	98912.6
12.5°	79793.8	80173.8	79789.3	79382.8	81066.3	80880.7	81349.1	81653.9	80889.5	82590.7
15°	60104.9	60303.7	60772.1	60741.2	62035.8	62296.5	62234.6	62557.2	61960.7	62243.5
17.5°	38613.3	39284.9	40544.2	42673.9	45068.7	45347.1	45276.4	45011.3	44724.1	44406.0
20°	25936.6	25865.9	26321.0	26944.0	31901.6	33213.9	33174.1	32343.4	31141.6	30911.9
22.5°	18168.9	18301.4	18239.6	18858.2	19883.3	23502.0	23055.8	22211.8	21818.6	21562.3
25°	11952.1	11903.4	12212.7	12398.3	13277.6	13719.5	15283.6	14969.9	14364.6	14430.8
27.5°	7286.1	7348.0	7462.9	7621.9	8244.9	8103.5	8996.1	9115.4	8921.0	8713.3
30°	4471.5	4515.7	4608.5	4723.4	4939.9	4785.2	5032.7	5461.3	5390.6	5244.8
32.5°	3035.5	3039.9	3106.2	3150.4	3123.9	2978.1	3057.6	3464.1	3472.9	3459.7
35°	2182.7	2182.7	2244.6	2279.9	2204.8	2085.5	2098.8	2350.6	2461.1	2483.2
37.5°	1506.7	1511.1	1617.2	1723.2	1639.3	1608.3	1555.3	1723.2	1900.0	1926.5
40°	1144.4	1140.0	1193.0	1272.5	1281.4	1223.9	1241.6	1347.6	1528.8	1550.9
42.5°	927.9	932.3	958.8	950.0	954.4	1029.5	1056.0	1104.6	1272.5	1312.3
45°	782.1	786.5	799.7	755.6	737.9	852.8	888.1	914.6	1056.0	1104.6
47.5°	645.1	653.9	667.2	618.6	609.8	684.9	746.7	773.2	897.0	950.0
50°	463.9	472.8	521.4	494.9	521.4	539.1	623.0	662.8	746.7	817.4
52.5°	335.8	344.6	357.9	362.3	428.6	437.4	499.3	561.1	600.9	680.4
55°	265.1	273.9	265.1	256.3	313.7	362.3	384.4	450.7	481.6	574.4
57.5°	150.2	159.1	172.3	198.8	207.7	278.4	300.5	357.9	384.4	472.8
60°	26.5	30.9	48.6	119.3	145.8	176.7	225.3	273.9	309.3	371.2
62.5°	4.4	4.4	8.8	26.5	84.0	123.7	163.5	194.4	225.3	282.8
65°	0.0	0.0	4.4	8.8	22.1	70.7	88.4	114.9	154.6	203.3
67.5°	0.0	0.0	4.4	8.8	13.3	26.5	39.8	70.7	88.4	137.0
70°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	30.9	53.0	84.0
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	26.5	26.5	53.0
75°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	26.5	22.1	22.1
77.5°	0.0	0.0	4.4	8.8	17.7	26.5	30.9	26.5	17.7	17.7
80°	0.0	0.0	8.8	13.3	22.1	30.9	39.8	30.9	17.7	8.8
82.5°	0.0	0.0	8.8	17.7	22.1	35.3	48.6	39.8	17.7	8.8
85°	0.0	0.0	4.4	13.3	26.5	35.3	48.6	35.3	17.7	4.4
87.5°	0.0	0.0	4.4	4.4	8.8	13.3	26.5	22.1	8.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637311
 CATALOG NUMBER: IFLD-L-SA7D-727-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
138635.0	0°	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0	138635.0
135316.7	2.5°	136094.3	136801.3	136947.1	136752.7	137035.5	136527.3	136138.5	135131.1	134525.8
126735.9	5°	127553.4	127447.3	128185.2	128428.2	128397.3	128008.5	127465.0	126855.2	126263.2
113498.1	7.5°	114205.1	114342.0	115013.7	115442.2	115225.7	114739.7	114364.1	113904.6	113506.9
99102.6	10°	100008.4	99067.3	99902.4	99902.4	100481.2	99107.0	99235.2	98077.5	98130.5
82559.7	12.5°	82842.5	83182.8	83319.7	83713.0	83036.9	82307.9	81415.4	81238.6	80686.3
61704.4	15°	62592.5	63564.6	62729.5	64156.7	63467.4	62707.4	62570.4	61200.7	61633.7
44755.0	17.5°	44534.1	45607.8	45943.6	46761.0	46133.6	45682.9	45112.9	44697.6	44666.7
31331.6	20°	31579.0	32657.2	32904.6	33885.5	33814.8	33673.4	33191.8	32666.0	32096.0
21328.1	22.5°	21650.7	22530.0	23351.8	24672.9	24650.8	24235.5	24186.9	23444.6	23457.8
14408.7	25°	14559.0	15199.7	15394.1	16746.1	16896.4	16852.2	16600.3	15911.0	16171.7
8801.7	27.5°	8810.5	9371.6	10030.0	10507.2	10957.9	10887.2	10635.3	10250.9	10083.0
5288.9	30°	5430.3	5682.2	5925.2	6499.6	6769.1	6910.5	6791.2	6433.3	6459.9
3481.8	32.5°	3556.9	3769.0	3945.7	4308.0	4449.4	4710.1	4661.5	4586.4	4498.0
2505.3	35°	2593.7	2748.3	2867.6	3035.5	3216.7	3437.6	3472.9	3442.0	3406.7
1935.3	37.5°	1979.5	2138.6	2275.5	2346.2	2487.6	2659.9	2757.1	2752.7	2726.2
1577.4	40°	1608.3	1727.6	1851.4	1944.1	2041.3	2169.5	2288.8	2302.0	2302.0
1325.6	42.5°	1343.2	1444.9	1568.6	1665.8	1736.5	1855.8	1979.5	1988.3	1979.5
1122.3	45°	1148.8	1237.2	1356.5	1471.4	1528.8	1617.2	1736.5	1763.0	1745.3
963.2	47.5°	998.6	1078.1	1179.7	1303.5	1365.3	1444.9	1555.3	1586.2	1581.8
830.7	50°	857.2	950.0	1051.6	1153.2	1232.8	1307.9	1413.9	1449.3	1436.0
707.0	52.5°	755.6	839.5	927.9	1038.3	1131.1	1197.4	1281.4	1343.2	1325.6
596.5	55°	631.8	733.5	826.3	919.0	1033.9	1104.6	1184.2	1259.3	1241.6
503.7	57.5°	547.9	631.8	737.9	821.8	936.7	1020.7	1100.2	1179.7	1175.3
410.9	60°	459.5	547.9	649.5	737.9	843.9	936.7	1016.3	1104.6	1113.5
309.3	62.5°	362.3	468.4	556.7	658.4	764.4	866.0	936.7	1025.1	1038.3
234.2	65°	273.9	384.4	481.6	578.8	684.9	795.3	857.2	932.3	945.6
172.3	67.5°	203.3	296.0	410.9	499.3	609.8	715.8	773.2	835.1	857.2
106.0	70°	154.6	225.3	344.6	428.6	543.5	627.4	689.3	742.3	760.0
70.7	72.5°	97.2	176.7	278.4	366.7	468.4	543.5	587.7	618.6	645.1
39.8	75°	66.3	137.0	225.3	313.7	388.8	446.3	486.0	512.5	534.6
17.7	77.5°	39.8	106.0	185.6	260.7	309.3	353.5	393.2	410.9	424.2
13.3	80°	22.1	79.5	154.6	212.1	243.0	273.9	304.9	327.0	335.8
8.8	82.5°	13.3	61.9	123.7	163.5	176.7	207.7	238.6	251.9	251.9
4.4	85°	8.8	44.2	84.0	119.3	128.1	150.2	159.1	167.9	176.7
4.4	87.5°	8.8	26.5	53.0	66.3	70.7	79.5	84.0	92.8	101.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
138635.0
134079.5
125600.4
112159.3
97613.6
80182.6
61200.7
43844.8
31848.6
23201.6
15760.8
9937.2
6345.0
4467.1
3393.4
2713.0
2275.5
1970.7
1745.3
1573.0
1427.2
1321.1
1250.4
1179.7
1117.9
1047.2
958.8
866.0
768.8
640.7
530.2
419.8
327.0
247.4
172.3
97.2
0.0

(END OF REPORT)