

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: P637049

Luminaire Tested: **IFLD-L-SA7C-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36869.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

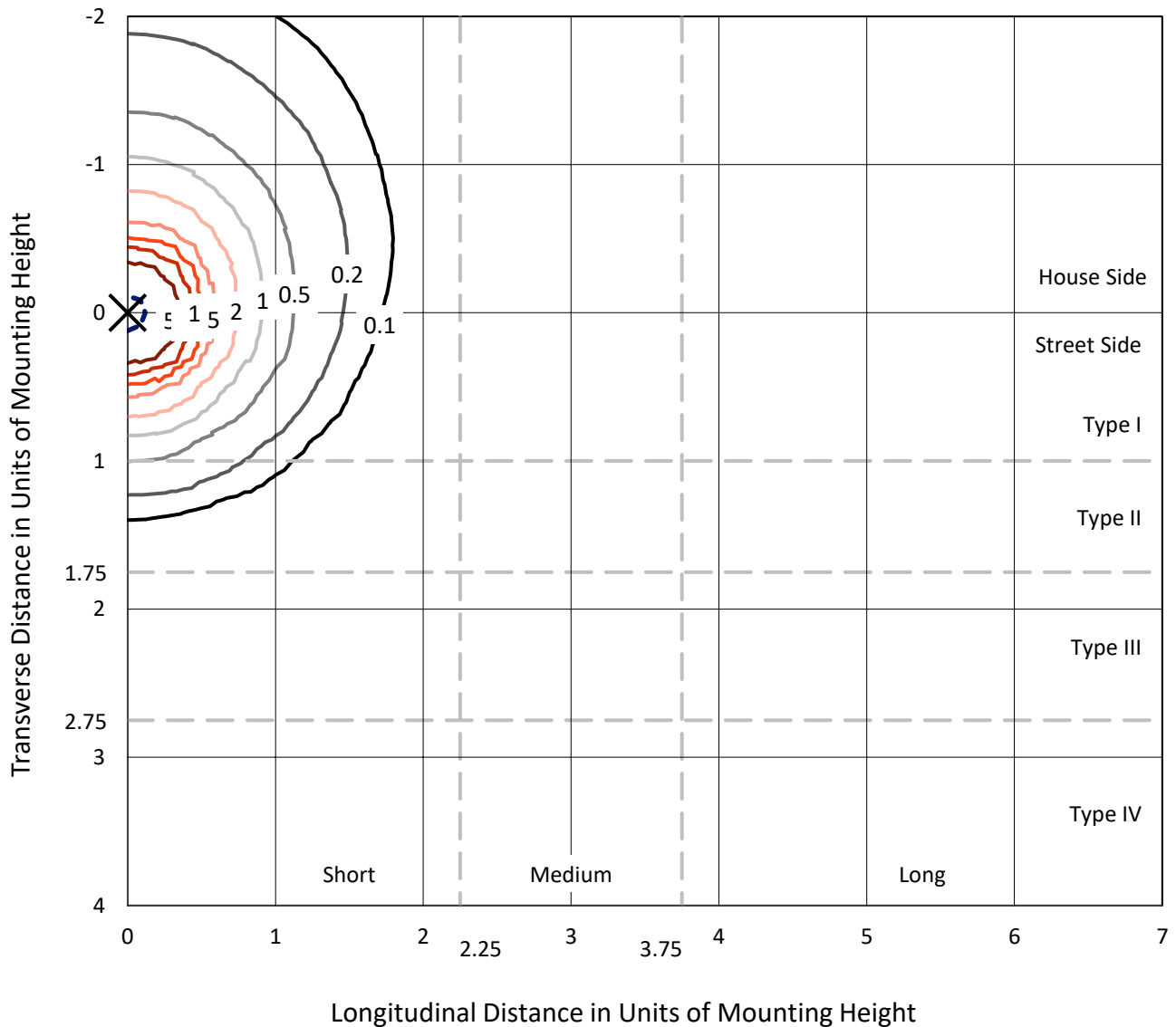
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637049
 CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

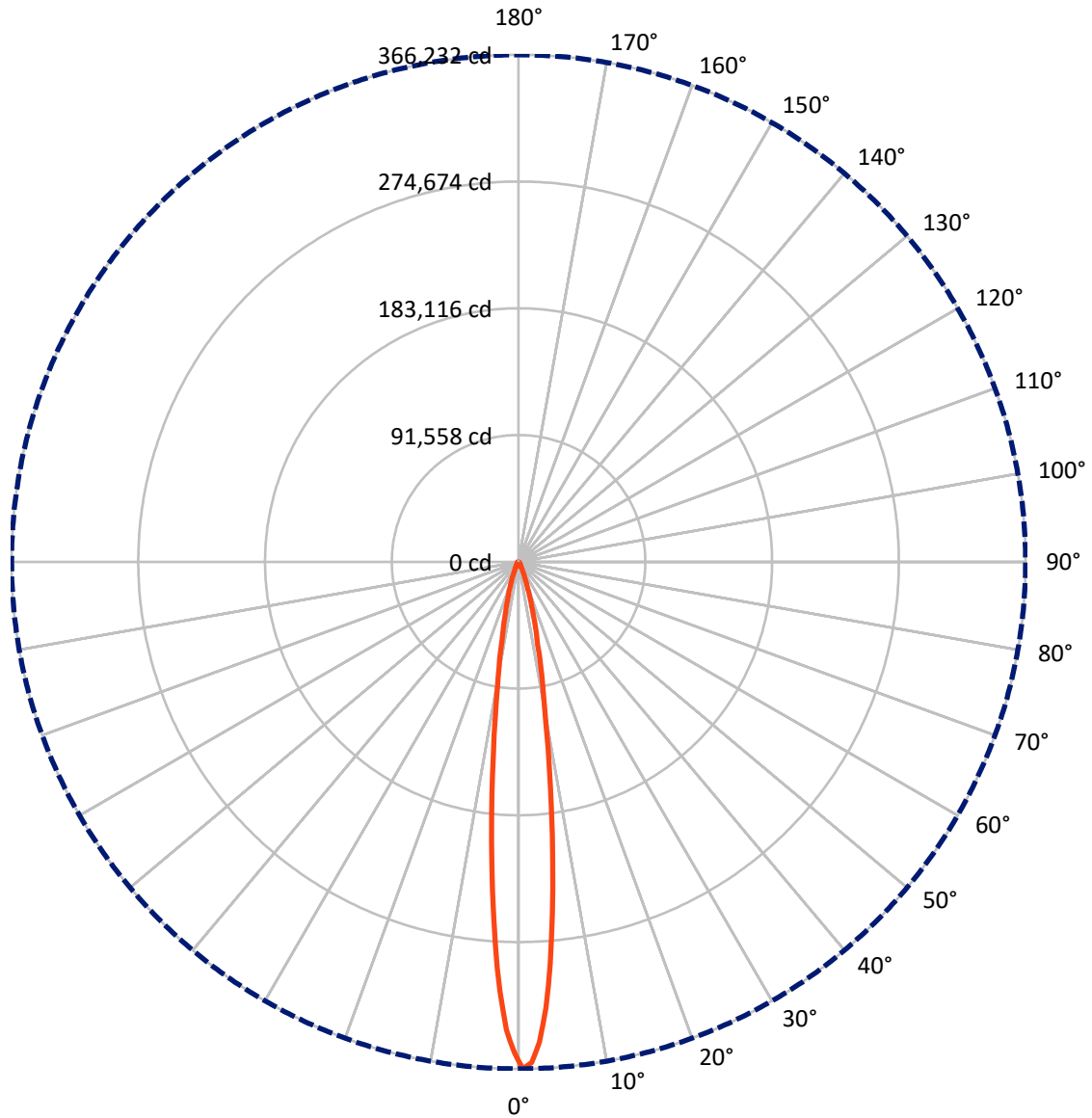
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 915.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637049
CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637049
 CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18883.8	0.0	18883.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17985.5	0.0	17985.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	36869.3	0.0	36869.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18612.7	50.5
10°-20°	11915.8	32.3
20°-30°	3581.6	9.7
30°-40°	1166.2	3.2
40°-50°	678.5	1.8
50°-60°	450.7	1.2
60°-70°	271.3	0.7
70°-80°	139.4	0.4
80°-90°	53.0	0.1
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°	36869.3	100.0
0°-180°	36869.3	100.0



REPORT NUMBER: P637049

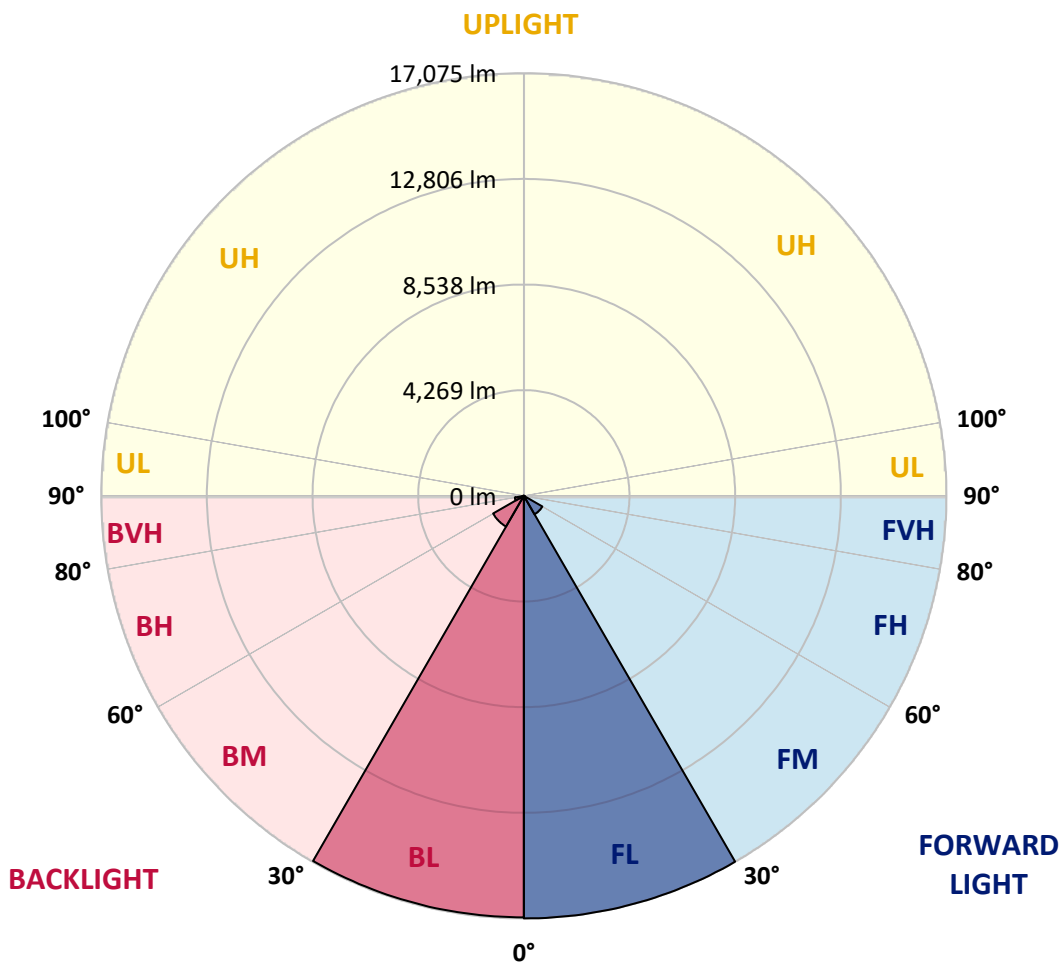
CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17075.3	46.3			
FM (30°-60°)	861.7	2.3			
FH (60°-80°)	40.6	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	17034.9	46.2	B5		
BM (30°-60°)	1433.8	3.9	B2/2500		
BH (60°-80°)	370.2	1.0	B1/500		G0/660
BVH (80°-90°)	45.0	0.1			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: P637049
 CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8
1°	361846.7	360742.4	357891.3	359919.2	361702.1	361184.1	361148.0	360955.2	360686.2	362798.4
2°	347382.3	346667.5	342451.1	344189.9	346723.8	344876.5	346033.1	345017.1	345037.2	347559.0
3°	322999.3	323388.8	316662.6	319822.9	323344.6	318867.1	320256.6	322866.7	320132.1	319308.9
4°	291307.7	287926.5	284252.2	287464.7	288376.3	285770.1	288332.1	291528.6	287729.8	287898.4
5°	255126.6	252628.9	248280.0	250263.7	248002.9	248826.1	252665.0	253982.2	251331.9	247994.8
6°	217925.6	216150.7	210713.5	213572.6	212769.5	212303.7	217150.6	213134.9	214580.6	212560.7
7°	181270.7	177953.8	175283.4	178022.0	178198.7	176797.3	183089.8	182359.0	179728.7	179118.3
8°	150185.5	146876.6	144615.8	146655.8	147989.0	145788.4	148747.9	150691.5	148635.5	148820.2
9°	121132.3	120550.0	117405.7	120072.1	121521.8	119164.6	122441.4	123144.1	121220.6	122156.2
10°	99459.8	98781.1	96271.3	97351.5	99752.9	96941.9	100086.2	100315.1	98781.1	99218.8
12.5°	61463.6	61190.6	61122.3	61278.9	61246.8	61744.7	62547.9	61632.3	61511.8	59997.9
15°	39726.9	40132.5	39714.8	40518.0	40634.4	41104.3	40614.3	39875.5	38466.0	37767.2
17.5°	24792.7	25310.7	26025.5	27202.1	28378.6	28515.2	27864.6	26997.3	26314.6	25567.7
20°	14263.6	14516.6	14408.2	15817.7	18861.5	19688.8	18849.5	17937.9	17114.7	16359.8
22.5°	8862.6	8770.2	8938.8	9412.7	10404.6	12962.5	12275.9	11364.3	10766.0	10143.5
25°	5433.2	5533.6	5469.3	5730.3	6176.1	7260.3	7416.9	7023.4	6718.2	6396.9
27.5°	3497.6	3497.6	3525.7	3670.3	3975.5	3939.4	4774.6	4469.4	4304.8	4148.2
30°	2429.5	2437.5	2437.5	2521.8	2590.1	2469.6	2686.5	3080.0	3003.7	2883.2
32.5°	1803.0	1827.1	1847.2	1891.4	1835.2	1706.7	1758.9	2216.6	2172.5	2128.3
35°	1373.4	1393.4	1441.6	1465.7	1385.4	1305.1	1256.9	1630.4	1650.4	1638.4
37.5°	999.9	1011.9	1100.3	1192.6	1100.3	1028.0	999.9	1252.9	1349.3	1337.2
40°	767.0	771.0	787.1	891.5	891.5	835.3	843.3	935.6	1104.3	1104.3
42.5°	658.6	658.6	674.6	658.6	662.6	722.8	742.9	754.9	935.6	935.6
45°	570.2	570.2	578.3	538.1	497.9	622.4	638.5	642.5	787.1	807.1
47.5°	477.9	477.9	493.9	441.7	421.6	493.9	538.1	550.1	678.6	694.7
50°	353.4	357.4	405.6	361.4	373.5	381.5	465.8	473.8	574.2	610.4
52.5°	236.9	236.9	245.0	281.1	325.3	313.2	377.5	405.6	457.8	506.0
55°	192.8	192.8	188.7	180.7	240.9	261.0	277.1	337.3	373.5	433.7
57.5°	132.5	140.5	128.5	148.6	156.6	196.8	208.8	265.0	285.1	365.4
60°	16.1	20.1	28.1	108.4	104.4	132.5	156.6	208.8	232.9	281.1
62.5°	4.0	4.0	8.0	20.1	72.3	88.3	124.5	144.6	168.7	216.8
65°	0.0	0.0	4.0	8.0	16.1	48.2	64.3	84.3	120.5	152.6
67.5°	0.0	0.0	4.0	8.0	8.0	20.1	32.1	52.2	64.3	112.4
70°	0.0	0.0	4.0	8.0	8.0	16.1	20.1	24.1	44.2	60.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	20.1	20.1	40.2
75°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	20.1	16.1	16.1
77.5°	0.0	0.0	4.0	8.0	16.1	20.1	24.1	20.1	12.0	12.0
80°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	24.1	12.0	8.0
82.5°	0.0	0.0	8.0	16.1	24.1	32.1	44.2	36.1	16.1	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	64.3	44.2	20.1	4.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	24.1	16.1	8.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637049
 CATALOG NUMBER: IFLD-L-SA7C-727-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	
366231.8	0°	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	366231.8	
360360.9	1°	362878.7	363131.7	362304.5	363585.5	363135.7	360501.5	359630.1	358598.0	357112.3
346077.2	2°	345017.1	346306.1	346370.4	347791.9	347771.8	344699.9	343748.1	345503.0	342077.6
320979.4	3°	320007.6	321509.4	320156.2	322682.0	321923.1	318196.5	317228.8	319220.5	316730.8
289231.6	4°	288368.2	288083.1	287617.3	286179.7	287950.6	285408.7	283493.2	286195.8	280871.0
252420.1	5°	251914.1	251279.6	250372.1	249946.5	251263.6	249637.2	245697.9	249645.3	240148.3
216214.9	6°	216480.0	213749.3	213616.8	213379.9	213512.4	208958.7	209231.7	212171.2	204268.4
177018.1	7°	178889.4	179391.4	178367.4	180009.8	178756.9	175672.9	174484.3	177580.3	171994.5
149631.4	8°	148587.3	147952.8	147169.8	149623.3	147450.9	145427.0	144041.6	146487.1	142338.9
122308.8	9°	122079.9	120983.7	120188.6	120064.1	120401.4	116602.6	117373.6	119224.8	116727.1
99459.8	10°	99495.9	97696.9	98134.6	98251.0	97881.6	95391.9	95416.0	96054.5	93050.8
61001.8	12.5°	60785.0	59901.5	60122.4	60242.9	60993.8	60118.4	58881.6	57990.1	57540.3
38461.9	15°	38204.9	37570.5	38867.5	39738.9	39562.2	38783.2	38200.9	37393.8	36743.2
25567.7	17.5°	25330.8	26162.0	26166.0	26961.1	27041.4	26262.4	25812.6	25085.8	25117.9
16628.8	20°	16568.6	16913.9	17632.7	18194.9	18520.2	17925.9	17387.8	16889.8	16681.0
10368.4	22.5°	10368.4	10970.8	11420.5	12151.4	12448.5	12014.8	11633.4	11227.8	10978.8
6473.2	25°	6364.8	6794.5	7167.9	7802.4	8208.0	7999.2	7649.8	7364.7	7232.2
4180.3	27.5°	4244.5	4425.3	4610.0	5047.7	5469.3	5352.9	5212.3	5039.6	4979.4
2947.5	30°	2991.7	3007.7	3204.5	3449.4	3730.5	3802.8	3738.6	3650.2	3582.0
2164.4	32.5°	2204.6	2268.8	2361.2	2513.8	2702.5	2875.2	2843.1	2802.9	2770.8
1654.5	35°	1702.6	1799.0	1875.3	1991.8	2092.2	2256.8	2284.9	2272.9	2248.8
1361.3	37.5°	1389.4	1473.7	1550.0	1618.3	1702.6	1815.1	1903.4	1907.4	1883.3
1124.4	40°	1152.5	1228.8	1329.2	1381.4	1441.6	1525.9	1634.4	1642.4	1634.4
951.7	42.5°	971.8	1044.1	1144.5	1208.7	1252.9	1333.2	1441.6	1457.7	1441.6
815.2	45°	835.3	879.4	983.8	1060.1	1104.3	1156.5	1273.0	1289.0	1285.0
702.7	47.5°	726.8	771.0	835.3	943.7	983.8	1032.0	1124.4	1152.5	1152.5
622.4	50°	638.5	682.7	738.9	835.3	895.5	935.6	1011.9	1052.1	1052.1
542.1	52.5°	566.2	610.4	670.6	746.9	815.2	851.3	923.6	975.8	975.8
441.7	55°	473.8	550.1	594.3	662.6	754.9	787.1	843.3	911.6	911.6
385.5	57.5°	413.6	477.9	542.1	598.3	690.7	730.8	787.1	851.3	859.4
305.2	60°	349.4	409.6	485.9	534.1	622.4	674.6	734.9	795.1	811.2
232.9	62.5°	277.1	357.4	409.6	477.9	562.2	630.5	678.6	738.9	763.0
180.7	65°	204.8	293.1	353.4	425.7	506.0	578.3	618.4	682.7	698.7
128.5	67.5°	148.6	228.9	301.2	369.4	445.7	518.0	558.2	614.4	626.4
80.3	70°	116.5	168.7	249.0	309.2	389.5	449.8	493.9	530.1	542.1
52.2	72.5°	68.3	128.5	200.8	269.0	341.3	381.5	413.6	445.7	453.8
24.1	75°	44.2	100.4	164.6	224.9	277.1	313.2	341.3	369.4	373.5
12.0	77.5°	28.1	72.3	132.5	188.7	212.8	257.0	281.1	297.2	289.1
8.0	80°	16.1	56.2	116.5	152.6	172.7	200.8	224.9	245.0	224.9
8.0	82.5°	12.0	48.2	96.4	128.5	128.5	160.6	172.7	172.7	164.6
4.0	85°	8.0	40.2	76.3	120.5	96.4	120.5	112.4	112.4	112.4
4.0	87.5°	8.0	28.1	36.1	52.2	44.2	52.2	52.2	60.2	60.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
366231.8
354510.1
338070.0
310374.0
276413.6
239244.7
203650.0
169159.5
139503.9
113442.3
91709.5
57448.0
36980.2
24905.1
16717.2
11010.9
7200.1
4939.3
3590.0
2770.8
2232.7
1879.3
1630.4
1445.6
1285.0
1156.5
1056.1
975.8
915.6
855.3
811.2
767.0
694.7
618.4
542.1
453.8
369.4
289.1
220.9
160.6
108.4
60.2
0.0

(END OF REPORT)