

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: P638149

Luminaire Tested: **IFLD-L-SA7A-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23746 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

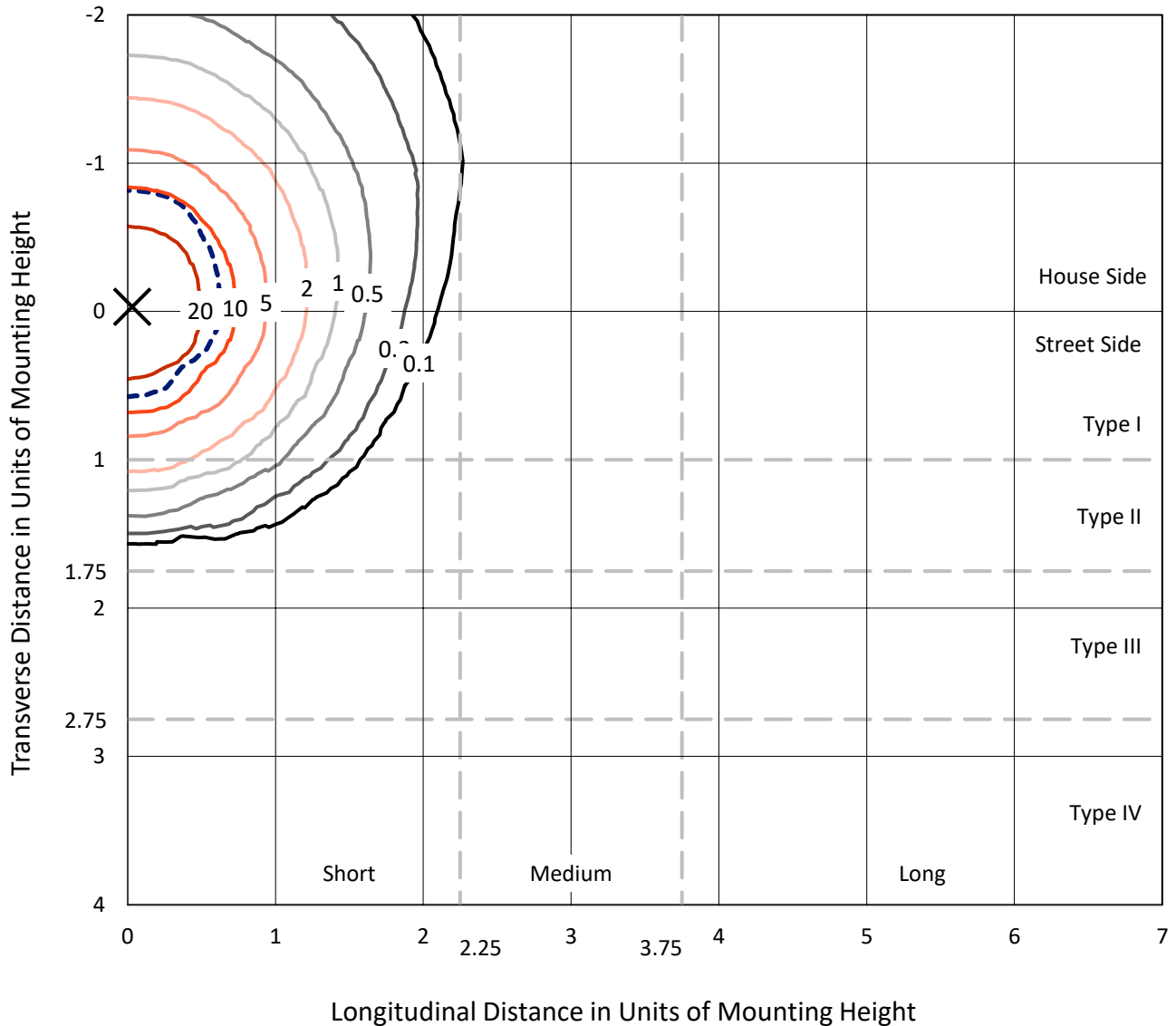
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638149
 CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

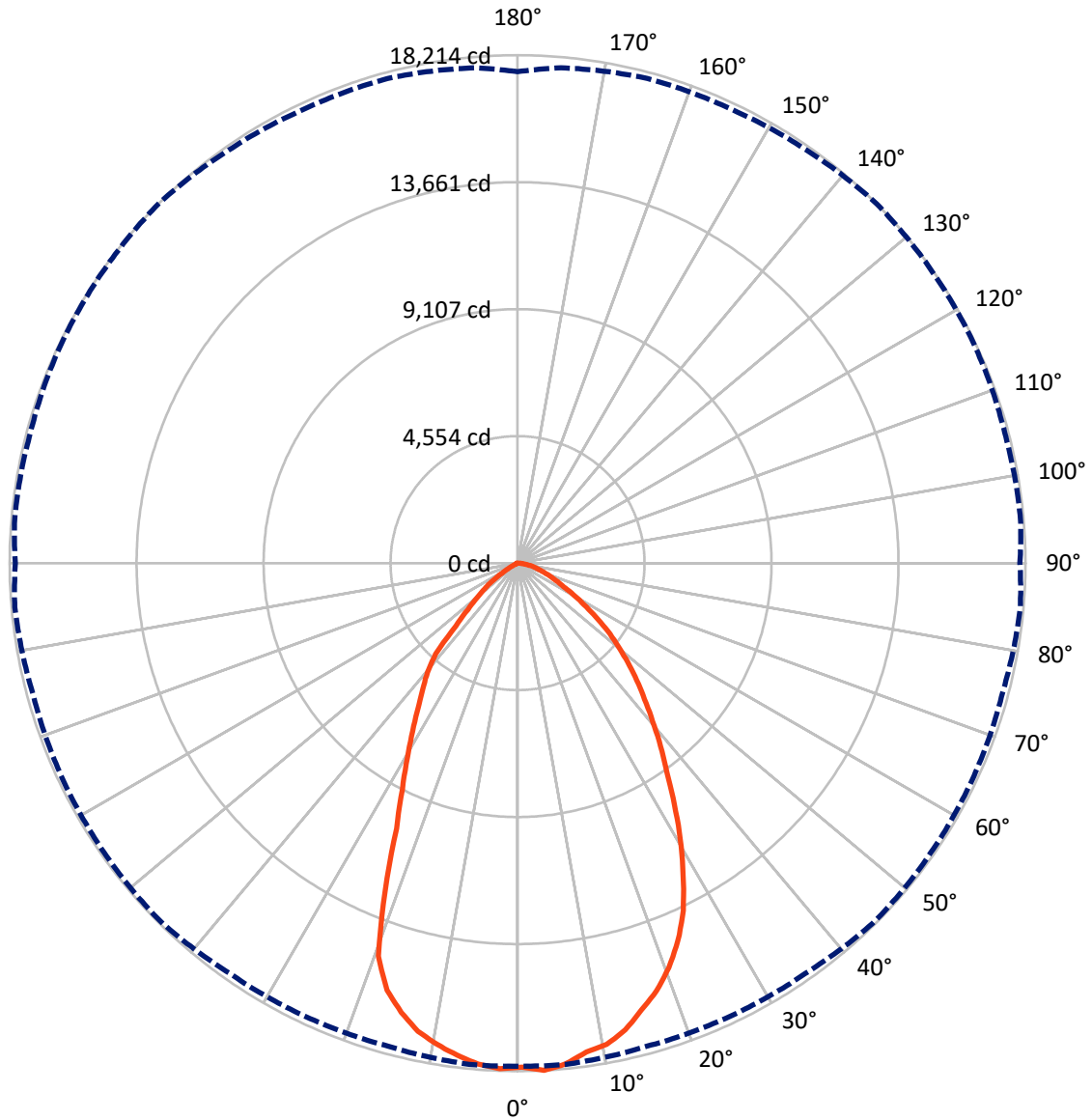
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638149
CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638149

CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14063.6	0.0	14063.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9682.4	0.0	9682.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	23746.0	0.0	23746.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1694.7	7.1
10°-20°	4544.6	19.1
20°-30°	5542.3	23.3
30°-40°	5060.1	21.3
40°-50°	3656.8	15.4
50°-60°	1996.7	8.4
60°-70°	825.5	3.5
70°-80°	334.3	1.4
80°-90°	90.9	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°	23746.0	100.0
0°-180°	23746.0	100.0



REPORT NUMBER: P638149

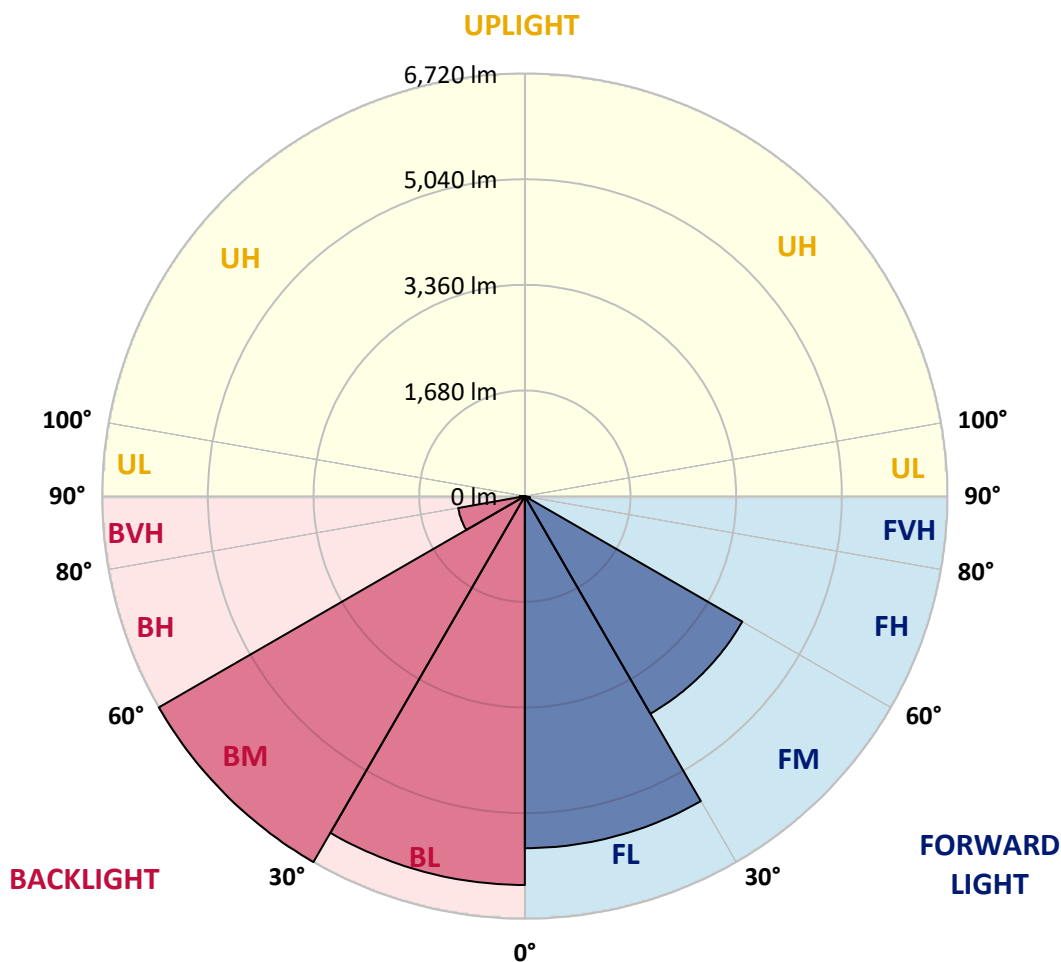
CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5597.8	23.6			
FM (30°-60°)	3993.6	16.8			
FH (60°-80°)	83.7	0.4			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	6183.8	26.0	B5		
BM (30°-60°)	6719.9	28.3	B4/8500		
BH (60°-80°)	1076.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	83.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638149
 CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7
2.5°	18037.2	18060.6	17933.6	17946.9	17970.3	18140.9	18097.4	18057.3	18000.4	18097.4
5°	18013.8	18027.2	17893.4	17846.6	17866.7	18020.5	17880.1	17880.1	17866.7	17850.0
7.5°	17833.2	17839.9	17736.3	17652.7	17706.2	17776.4	17672.7	17722.9	17649.3	17706.2
10°	17562.4	17518.9	17395.2	17371.8	17432.0	17498.8	17428.6	17475.4	17408.6	17452.0
12.5°	17164.4	17097.6	16997.3	16967.2	17070.8	17161.1	17104.3	17077.5	16990.6	17097.6
15°	15629.6	15579.4	15806.8	16204.7	16562.5	16639.4	16579.3	16606.0	16425.4	16455.5
17.5°	12864.1	12770.5	13014.6	13957.6	15301.9	16010.8	15957.3	15783.4	15515.9	15576.1
20°	11690.4	11663.7	11636.9	11861.0	12800.6	14950.8	15024.3	14582.9	14201.7	14118.1
22.5°	11028.3	11018.3	10991.5	11041.7	11289.1	12670.2	13512.9	13104.9	12850.8	12827.4
25°	10423.1	10406.3	10326.1	10389.6	10389.6	10469.9	11550.0	11797.4	11573.4	11546.6
27.5°	9807.8	9777.7	9764.3	9794.4	9640.6	9098.9	9373.1	10580.2	10463.2	10469.9
30°	9142.3	9132.3	9095.5	9159.1	8684.2	8012.1	7838.2	9476.7	9500.1	9493.4
32.5°	8152.5	8196.0	8363.2	8433.4	7650.9	7095.8	6804.9	8199.3	8677.5	8667.5
35°	5922.1	5922.1	6467.2	7480.4	6704.6	6286.6	6129.4	6952.1	7864.9	7898.4
37.5°	4868.8	4885.5	4992.5	5454.0	5785.0	5637.9	5591.1	5851.9	6821.6	6875.1
40°	4380.6	4380.6	4380.6	4190.0	4179.9	5079.4	5052.7	4969.1	5892.0	6009.1
42.5°	3935.8	3945.9	3952.5	3471.0	3203.5	4390.6	4330.4	4203.3	5059.4	5196.5
45°	3477.7	3494.4	3514.5	2902.5	2785.5	3160.0	3665.0	3524.5	4236.8	4414.0
47.5°	2123.4	2150.2	2604.9	2461.1	2474.5	2437.7	2989.5	2966.1	3474.4	3725.1
50°	1434.6	1444.6	1488.1	1561.6	2123.4	1916.1	2116.7	2454.5	2638.4	3019.6
52.5°	1203.8	1220.5	1113.5	1013.2	1394.4	1498.1	1478.0	1822.4	1896.0	2367.5
55°	846.0	899.5	849.4	839.3	792.5	1163.7	1120.2	1401.1	1447.9	1799.0
57.5°	86.9	100.3	173.9	625.3	518.3	658.8	799.2	1026.6	1073.4	1327.5
60°	6.7	6.7	16.7	86.9	377.9	394.6	551.8	632.0	722.3	926.3
62.5°	0.0	3.3	6.7	13.4	60.2	210.7	277.5	331.1	434.7	598.6
65°	0.0	0.0	3.3	10.0	13.4	80.3	107.0	173.9	237.4	371.2
67.5°	0.0	0.0	3.3	6.7	10.0	20.1	36.8	63.5	127.1	210.7
70°	0.0	0.0	3.3	6.7	10.0	16.7	26.8	40.1	56.8	113.7
72.5°	0.0	0.0	3.3	3.3	6.7	16.7	20.1	26.8	40.1	56.8
75°	0.0	0.0	3.3	3.3	10.0	20.1	16.7	20.1	26.8	36.8
77.5°	0.0	0.0	3.3	6.7	10.0	20.1	16.7	20.1	20.1	23.4
80°	0.0	0.0	3.3	6.7	13.4	23.4	20.1	20.1	16.7	16.7
82.5°	0.0	0.0	3.3	10.0	13.4	30.1	30.1	26.8	13.4	10.0
85°	0.0	0.0	6.7	13.4	20.1	33.4	33.4	26.8	10.0	6.7
87.5°	0.0	0.0	6.7	10.0	16.7	23.4	33.4	26.8	10.0	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638149

CATALOG NUMBER: IFLD-L-SA7A-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18070.7	0°	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7
18013.8	2.5°	18104.1	18084.0	18150.9	18177.7	18214.4	18074.0	17987.1	17990.4	17829.9
17809.8	5°	17916.8	17920.2	18007.1	18000.4	18037.2	17960.3	17926.9	17870.0	17729.6
17552.3	7.5°	17679.4	17649.3	17732.9	17796.5	17702.8	17756.3	17679.4	17706.2	17622.6
17325.0	10°	17495.5	17425.3	17502.2	17545.7	17549.0	17495.5	17421.9	17351.7	17321.6
16970.5	12.5°	17087.5	16997.3	17127.7	17187.9	17177.8	17074.2	16990.6	17007.3	16910.3
16348.5	15°	16525.8	16529.1	16622.7	16679.6	16626.1	16602.7	16609.4	16569.2	16485.6
15489.1	17.5°	15666.4	15716.5	15964.0	16101.1	16131.2	16084.4	16060.9	16014.1	15930.5
14118.1	20°	14235.2	14536.1	14977.5	15402.2	15485.8	15472.4	15388.8	15368.8	15321.9
12760.5	22.5°	12977.8	13201.9	13713.5	14375.6	14716.7	14750.1	14649.8	14619.7	14569.5
11546.6	25°	11677.0	11917.8	12379.3	13098.2	13803.8	13947.6	13930.9	13840.6	13787.1
10469.9	27.5°	10580.2	10821.0	11239.0	11887.7	12643.4	13104.9	13148.4	13004.6	13001.2
9510.2	30°	9590.4	9921.5	10239.1	10767.5	11499.8	12192.0	12265.6	12165.3	12175.3
8630.7	32.5°	8814.6	9088.8	9359.7	9714.1	10322.7	11128.6	11416.2	11322.6	11285.8
7898.4	35°	8022.1	8209.4	8486.9	8811.3	9225.9	10025.1	10523.4	10453.2	10416.4
6908.6	37.5°	7119.2	7440.3	7640.9	8005.4	8329.8	8965.1	9667.3	9657.3	9580.4
6065.9	40°	6193.0	6530.7	6835.0	7202.8	7453.6	7958.6	8737.7	8734.4	8744.4
5193.1	42.5°	5353.6	5664.6	6032.5	6433.7	6674.5	7042.3	7878.3	7925.1	7982.0
4474.2	45°	4594.6	4875.5	5216.5	5704.8	5995.7	6206.4	6948.7	7162.7	7159.4
3832.2	47.5°	3912.4	4176.6	4464.2	4939.0	5310.2	5500.8	6116.1	6420.4	6400.3
3143.3	50°	3283.7	3517.8	3818.8	4163.2	4661.5	4828.7	5286.8	5688.0	5657.9
2504.6	52.5°	2641.7	2966.1	3220.2	3534.5	4059.5	4223.4	4577.9	4969.1	4945.7
1879.3	55°	2059.9	2374.2	2681.8	2952.7	3394.1	3638.2	3892.3	4293.6	4286.9
1471.3	57.5°	1558.3	1902.7	2193.6	2451.1	2802.2	3103.2	3307.2	3671.6	3718.5
1006.5	60°	1153.7	1417.8	1732.2	2019.7	2297.3	2608.3	2745.4	3103.2	3123.2
688.9	62.5°	785.8	1076.7	1384.4	1645.2	1852.5	2173.6	2297.3	2591.6	2628.3
441.4	65°	545.1	732.3	1083.4	1270.7	1524.8	1799.0	1922.8	2156.8	2230.4
254.1	67.5°	361.1	521.7	846.0	1016.6	1267.4	1454.6	1611.8	1802.4	1882.6
160.5	70°	197.3	384.6	605.3	802.5	1019.9	1200.5	1354.3	1508.1	1578.3
73.6	72.5°	133.8	257.5	421.3	635.3	822.6	999.8	1136.9	1250.6	1254.0
43.5	75°	66.9	173.9	321.0	491.6	642.0	815.9	939.6	1006.5	926.3
26.8	77.5°	40.1	127.1	260.8	394.6	521.7	658.8	729.0	765.8	635.3
20.1	80°	23.4	90.3	204.0	314.3	361.1	484.9	551.8	561.8	424.7
13.4	82.5°	16.7	66.9	160.5	230.7	220.7	341.1	414.6	401.3	270.9
10.0	85°	10.0	46.8	100.3	143.8	133.8	224.0	240.8	247.5	157.2
6.7	87.5°	6.7	26.8	53.5	76.9	63.5	97.0	97.0	117.0	76.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18070.7
17622.6
17696.1
17482.1
17187.9
16826.7
16402.0
15893.8
15214.9
14556.2
13730.2
12994.6
12125.1
11289.1
10366.2
9643.9
8744.4
7951.9
7166.1
6407.0
5684.7
4995.8
4303.7
3698.4
3153.3
2635.0
2213.7
1872.6
1551.6
1223.9
866.1
611.9
397.9
250.8
143.8
66.9
0.0

(END OF REPORT)