

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: P638138

Luminaire Tested: **IFLD-S-SA3E-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638138
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20463.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

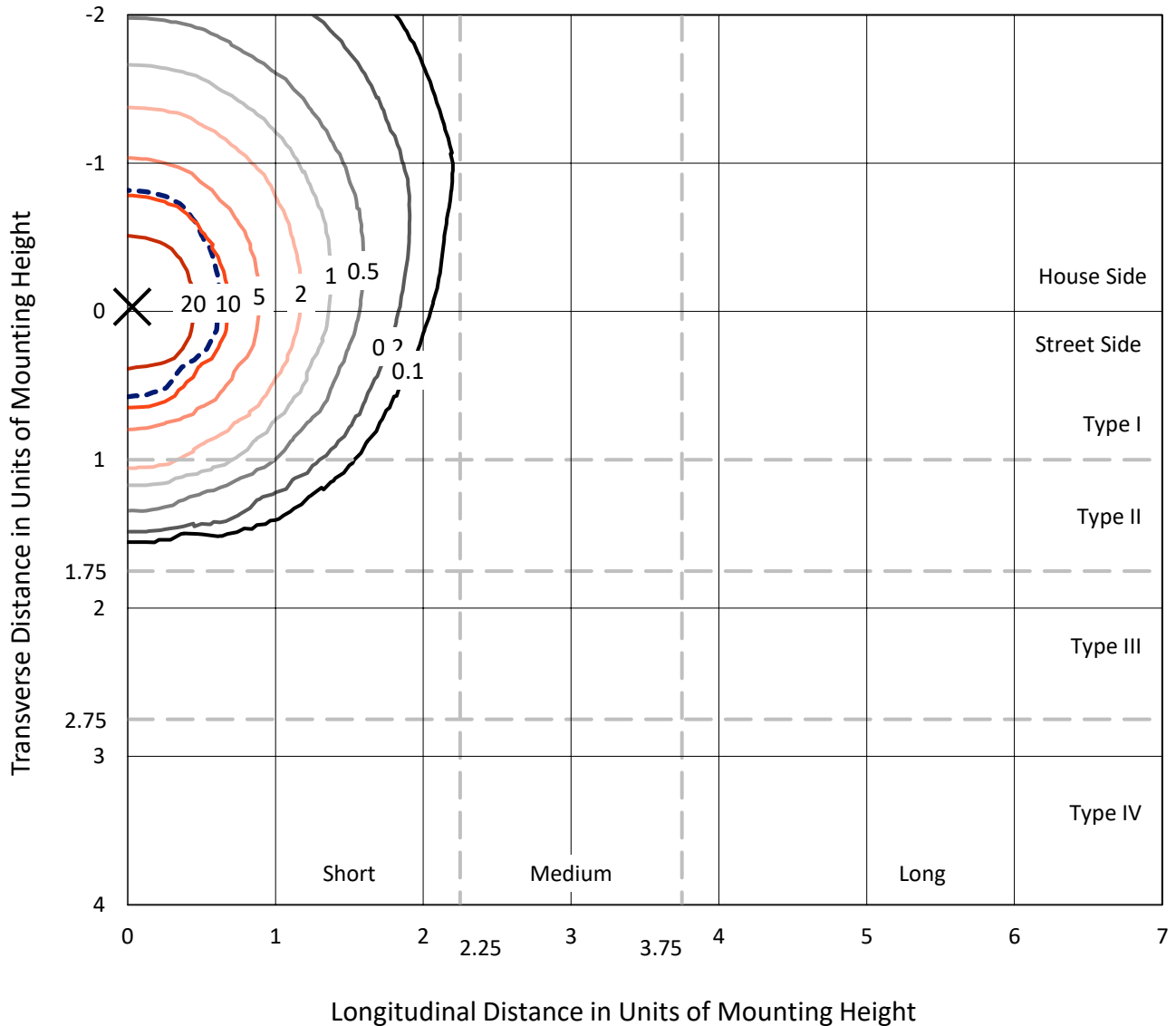
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638138
 CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

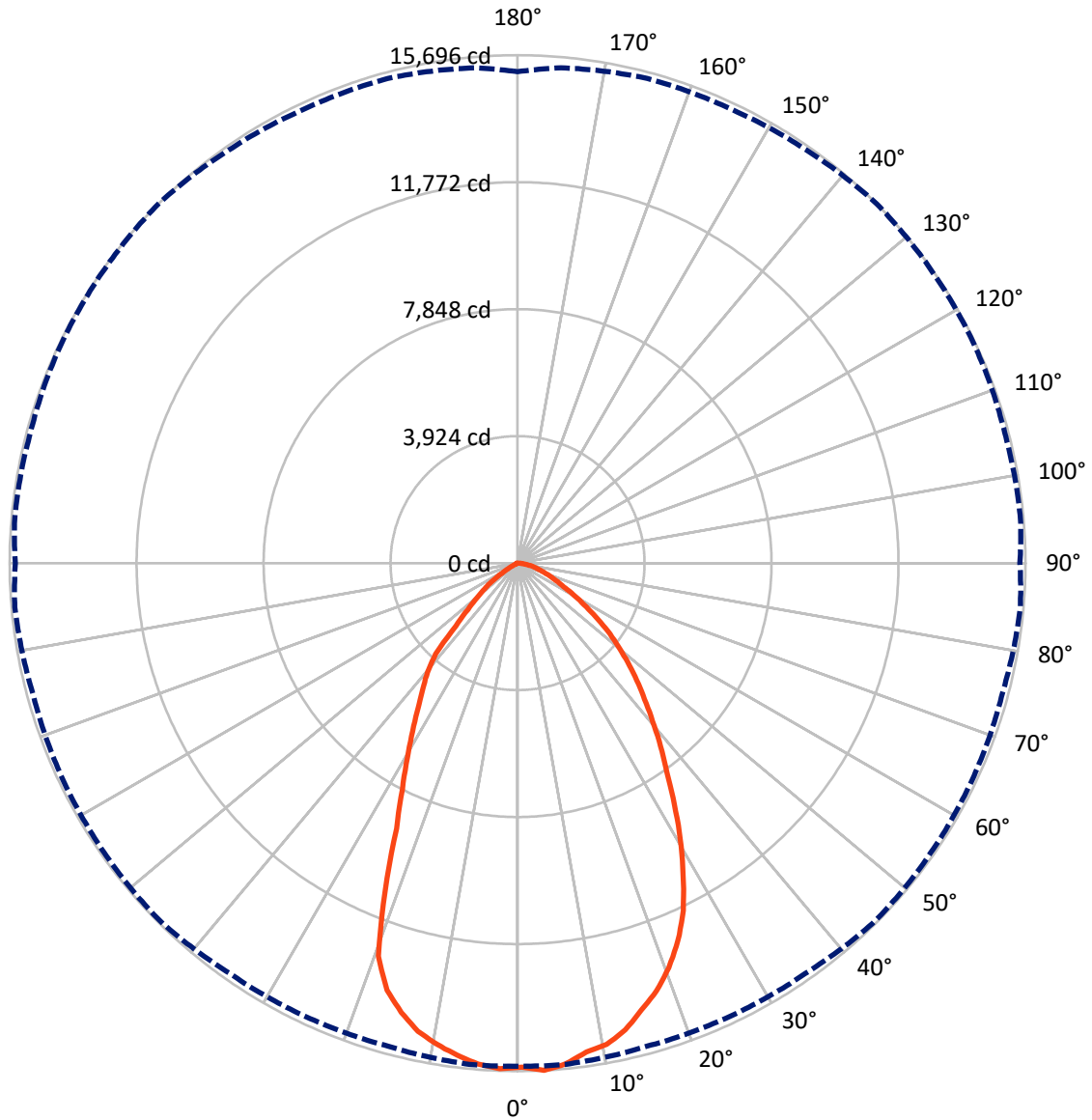
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638138
CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638138

CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12119.4	0.0	12119.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8343.9	0.0	8343.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	20463.2	0.0	20463.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1460.4	7.1
10°-20°	3916.3	19.1
20°-30°	4776.1	23.3
30°-40°	4360.6	21.3
40°-50°	3151.3	15.4
50°-60°	1720.6	8.4
60°-70°	711.4	3.5
70°-80°	288.1	1.4
80°-90°	78.4	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°	20463.2	100.0
0°-180°	20463.2	100.0



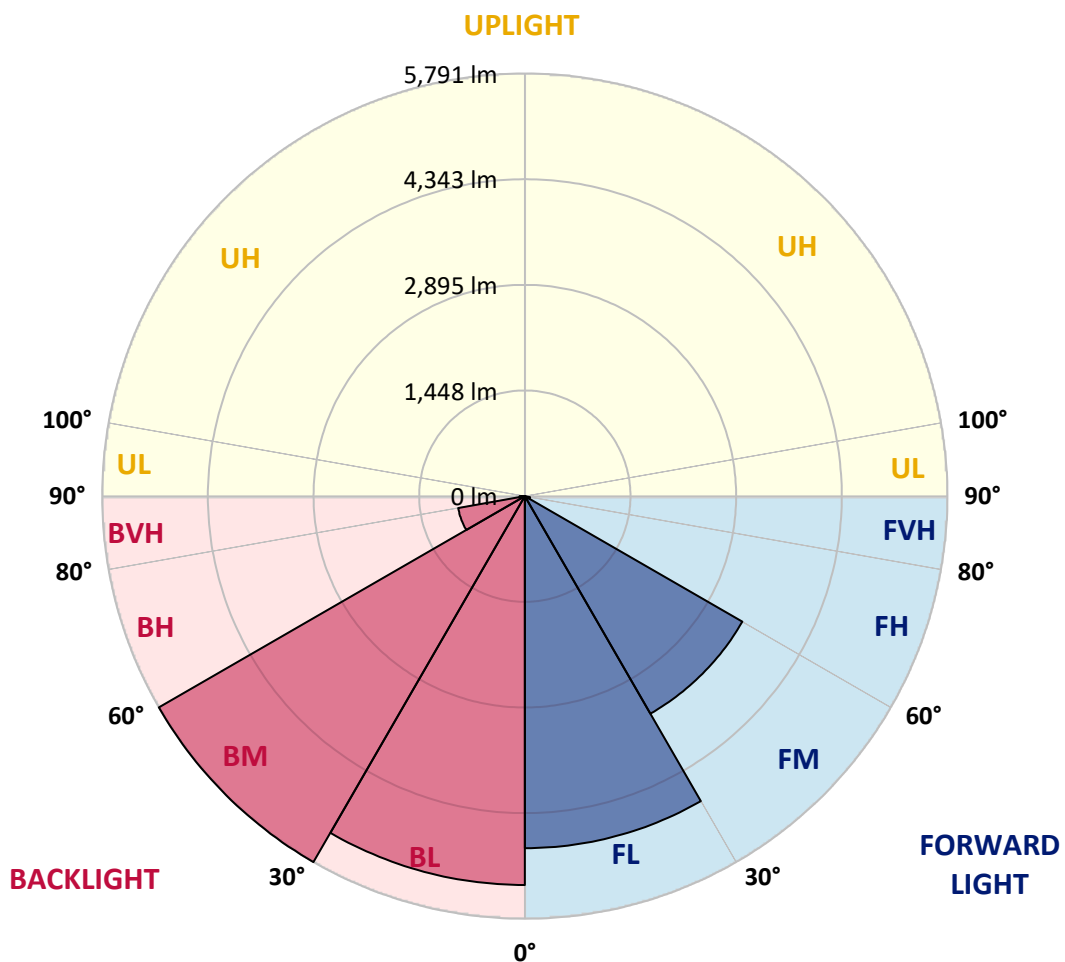
REPORT NUMBER: P638138
 CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4823.9	23.6			
FM (30°-60°)	3441.5	16.8			
FH (60°-80°)	72.1	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	5328.9	26.0	B5		
BM (30°-60°)	5790.9	28.3	B4/8500		
BH (60°-80°)	927.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	72.1	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-G2

Type I Short





REPORT NUMBER: P638138
 CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5
2.5°	15543.6	15563.8	15454.3	15465.8	15486.0	15633.0	15595.5	15560.9	15511.9	15595.5
5°	15523.5	15535.0	15419.7	15379.4	15396.7	15529.2	15408.2	15408.2	15396.7	15382.3
7.5°	15367.9	15373.6	15284.3	15212.3	15258.4	15318.9	15229.5	15272.8	15209.4	15258.4
10°	15134.4	15097.0	14990.4	14970.2	15022.1	15079.7	15019.2	15059.5	15001.9	15039.4
12.5°	14791.5	14733.9	14647.4	14621.5	14710.8	14788.6	14739.7	14716.6	14641.7	14733.9
15°	13468.9	13425.6	13621.6	13964.5	14272.8	14339.1	14287.2	14310.3	14154.7	14180.6
17.5°	11085.7	11005.0	11215.4	12028.0	13186.4	13797.4	13751.3	13601.4	13370.9	13422.7
20°	10074.3	10051.2	10028.2	10221.2	11031.0	12883.9	12947.3	12566.9	12238.4	12166.3
22.5°	9503.7	9495.0	9472.0	9515.2	9728.5	10918.6	11644.8	11293.2	11074.2	11054.0
25°	8982.1	8967.7	8898.5	8953.3	8953.3	9022.5	9953.2	10166.5	9973.4	9950.4
27.5°	8451.9	8426.0	8414.4	8440.4	8307.8	7841.0	8077.3	9117.6	9016.7	9022.5
30°	7878.4	7869.8	7838.1	7892.9	7483.7	6904.4	6754.6	8166.6	8186.8	8181.0
32.5°	7025.5	7062.9	7207.0	7267.5	6593.2	6114.9	5864.2	7065.8	7477.9	7469.2
35°	5103.4	5103.4	5573.1	6446.3	5777.7	5417.5	5282.1	5991.0	6777.7	6806.5
37.5°	4195.7	4210.1	4302.3	4700.0	4985.3	4858.5	4818.1	5042.9	5878.6	5924.7
40°	3775.0	3775.0	3775.0	3610.7	3602.1	4377.2	4354.2	4282.1	5077.5	5178.3
42.5°	3391.7	3400.4	3406.1	2991.2	2760.6	3783.6	3731.7	3622.2	4359.9	4478.1
45°	2996.9	3011.3	3028.6	2501.3	2400.4	2723.2	3158.3	3037.3	3651.1	3803.8
47.5°	1829.9	1852.9	2244.8	2120.9	2132.4	2100.7	2576.2	2556.0	2994.0	3210.2
50°	1236.2	1244.9	1282.3	1345.7	1829.9	1651.2	1824.1	2115.1	2273.6	2602.1
52.5°	1037.4	1051.8	959.6	873.1	1201.6	1291.0	1273.7	1570.5	1633.9	2040.2
55°	729.1	775.2	731.9	723.3	683.0	1002.8	965.4	1207.4	1247.8	1550.3
57.5°	74.9	86.4	149.8	538.9	446.7	567.7	688.7	884.7	925.0	1144.0
60°	5.8	5.8	14.4	74.9	325.6	340.0	475.5	544.6	622.4	798.2
62.5°	0.0	2.9	5.8	11.5	51.9	181.5	239.2	285.3	374.6	515.8
65°	0.0	0.0	2.9	8.6	11.5	69.2	92.2	149.8	204.6	319.9
67.5°	0.0	0.0	2.9	5.8	8.6	17.3	31.7	54.8	109.5	181.5
70°	0.0	0.0	2.9	5.8	8.6	14.4	23.1	34.6	49.0	98.0
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	17.3	23.1	34.6	49.0
75°	0.0	0.0	2.9	2.9	8.6	17.3	14.4	17.3	23.1	31.7
77.5°	0.0	0.0	2.9	5.8	8.6	17.3	14.4	17.3	17.3	20.2
80°	0.0	0.0	2.9	5.8	11.5	20.2	17.3	17.3	14.4	14.4
82.5°	0.0	0.0	2.9	8.6	11.5	25.9	25.9	23.1	11.5	8.6
85°	0.0	0.0	5.8	11.5	17.3	28.8	28.8	23.1	8.6	5.8
87.5°	0.0	0.0	5.8	8.6	14.4	20.2	28.8	23.1	8.6	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638138

CATALOG NUMBER: IFLD-S-SA3E-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
15572.5	0°	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5	15572.5
15523.5	2.5°	15601.3	15584.0	15641.6	15664.7	15696.4	15575.3	15500.4	15503.3	15365.0
15347.7	5°	15439.9	15442.8	15517.7	15511.9	15543.6	15477.4	15448.5	15399.6	15278.5
15125.8	7.5°	15235.3	15209.4	15281.4	15336.2	15255.5	15301.6	15235.3	15258.4	15186.3
14929.8	10°	15076.8	15016.3	15082.6	15120.0	15122.9	15076.8	15013.4	14952.9	14927.0
14624.4	12.5°	14725.3	14647.4	14759.8	14811.7	14803.1	14713.7	14641.7	14656.1	14572.5
14088.4	15°	14241.1	14244.0	14324.7	14373.7	14327.6	14307.4	14313.2	14278.6	14206.6
13347.8	17.5°	13500.5	13543.8	13757.0	13875.2	13901.1	13860.8	13840.6	13800.2	13728.2
12166.3	20°	12267.2	12526.5	12906.9	13272.9	13344.9	13333.4	13261.4	13244.1	13203.7
10996.4	22.5°	11183.7	11376.8	11817.7	12388.2	12682.2	12711.0	12624.5	12598.6	12555.4
9950.4	25°	10062.7	10270.2	10667.9	11287.4	11895.5	12019.4	12005.0	11927.2	11881.1
9022.5	27.5°	9117.6	9325.0	9685.2	10244.3	10895.5	11293.2	11330.7	11206.8	11203.9
8195.4	30°	8264.6	8549.9	8823.6	9278.9	9910.0	10506.5	10569.9	10483.5	10492.1
7437.5	32.5°	7596.0	7832.3	8065.7	8371.2	8895.7	9590.1	9838.0	9757.3	9725.6
6806.5	35°	6913.1	7074.5	7313.6	7593.2	7950.5	8639.2	9068.6	9008.1	8976.4
5953.5	37.5°	6135.0	6411.7	6584.6	6898.7	7178.2	7725.7	8330.9	8322.2	8255.9
5227.3	40°	5336.8	5627.9	5890.1	6207.1	6423.2	6858.3	7529.8	7526.9	7535.5
4475.2	42.5°	4613.5	4881.5	5198.5	5544.3	5751.8	6068.8	6789.2	6829.5	6878.5
3855.7	45°	3959.4	4201.5	4495.4	4916.1	5166.8	5348.3	5988.1	6172.5	6169.6
3302.4	47.5°	3371.5	3599.2	3847.0	4256.2	4576.1	4740.3	5270.5	5532.8	5515.5
2708.8	50°	2829.8	3031.5	3290.8	3587.7	4017.0	4161.1	4555.9	4901.7	4875.8
2158.4	52.5°	2276.5	2556.0	2775.0	3045.9	3498.3	3639.5	3945.0	4282.1	4262.0
1619.5	55°	1775.1	2046.0	2311.1	2544.5	2924.9	3135.2	3354.2	3700.0	3694.3
1267.9	57.5°	1342.9	1639.7	1890.4	2112.3	2414.8	2674.2	2850.0	3164.1	3204.4
867.4	60°	994.2	1221.8	1492.7	1740.5	1979.7	2247.7	2365.8	2674.2	2691.5
593.6	62.5°	677.2	927.9	1193.0	1417.8	1596.4	1873.1	1979.7	2233.3	2265.0
380.4	65°	469.7	631.1	933.7	1095.0	1314.0	1550.3	1657.0	1858.7	1922.1
219.0	67.5°	311.2	449.5	729.1	876.0	1092.1	1253.5	1389.0	1553.2	1622.4
138.3	70°	170.0	331.4	521.6	691.6	878.9	1034.5	1167.1	1299.6	1360.1
63.4	72.5°	115.3	221.9	363.1	547.5	708.9	861.6	979.8	1077.7	1080.6
37.5	75°	57.6	149.8	276.6	423.6	553.3	703.1	809.7	867.4	798.2
23.1	77.5°	34.6	109.5	224.8	340.0	449.5	567.7	628.2	659.9	547.5
17.3	80°	20.2	77.8	175.8	270.9	311.2	417.8	475.5	484.1	366.0
11.5	82.5°	14.4	57.6	138.3	198.8	190.2	293.9	357.3	345.8	233.4
8.6	85°	8.6	40.3	86.4	123.9	115.3	193.1	207.5	213.2	135.4
5.8	87.5°	5.8	23.1	46.1	66.3	54.8	83.6	83.6	100.9	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15572.5
15186.3
15249.7
15065.3
14811.7
14500.5
14134.5
13696.5
13111.5
12543.8
11832.1
11198.1
10448.9
9728.5
8933.1
8310.7
7535.5
6852.6
6175.4
5521.2
4898.8
4305.2
3708.7
3187.1
2717.4
2270.7
1907.7
1613.7
1337.1
1054.7
746.3
527.3
342.9
216.1
123.9
57.6
0.0

(END OF REPORT)