

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: P638263

Luminaire Tested: **IFLD-M-SA4D-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17688.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

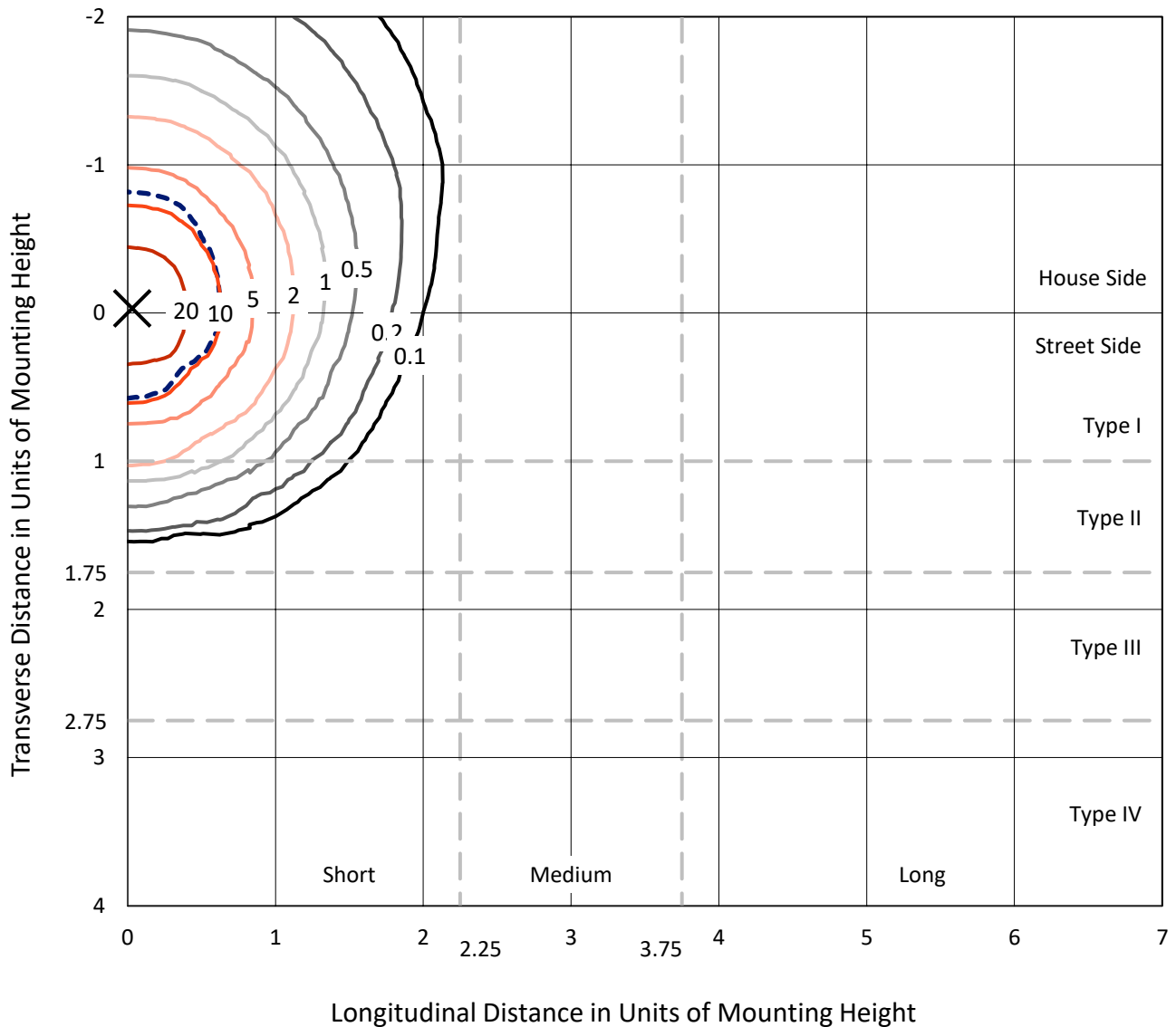
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638263
 CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

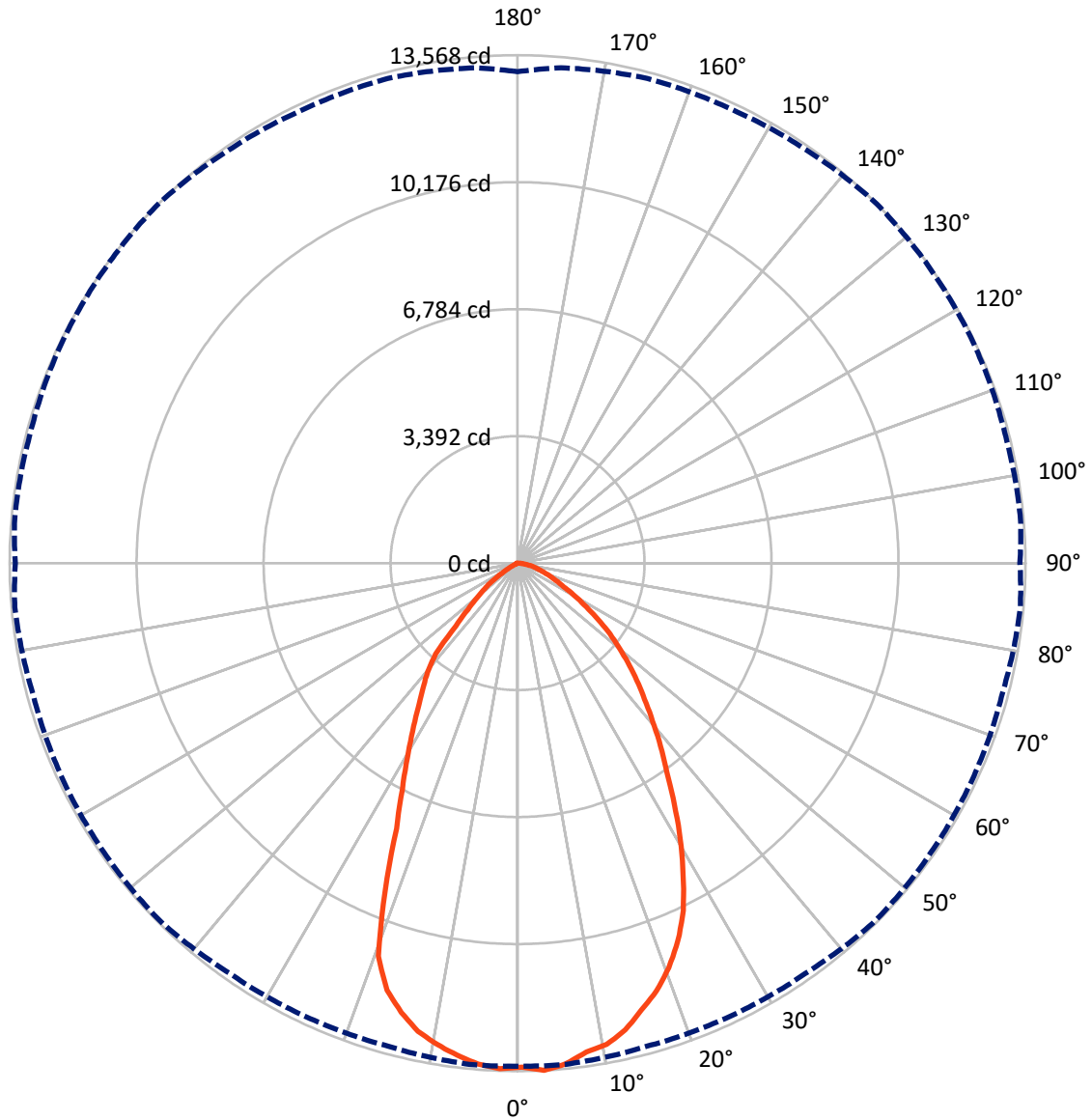
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.7 fc
 Type I - Short - N/A

REPORT NUMBER: P638263
CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638263
 CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10476.2	0.0	10476.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7212.6	0.0	7212.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	17688.8	0.0	17688.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1262.4	7.1
10°-20°	3385.3	19.1
20°-30°	4128.6	23.3
30°-40°	3769.3	21.3
40°-50°	2724.0	15.4
50°-60°	1487.3	8.4
60°-70°	615.0	3.5
70°-80°	249.1	1.4
80°-90°	67.8	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°	17688.8	100.0
0°-180°	17688.8	100.0



REPORT NUMBER: P638263

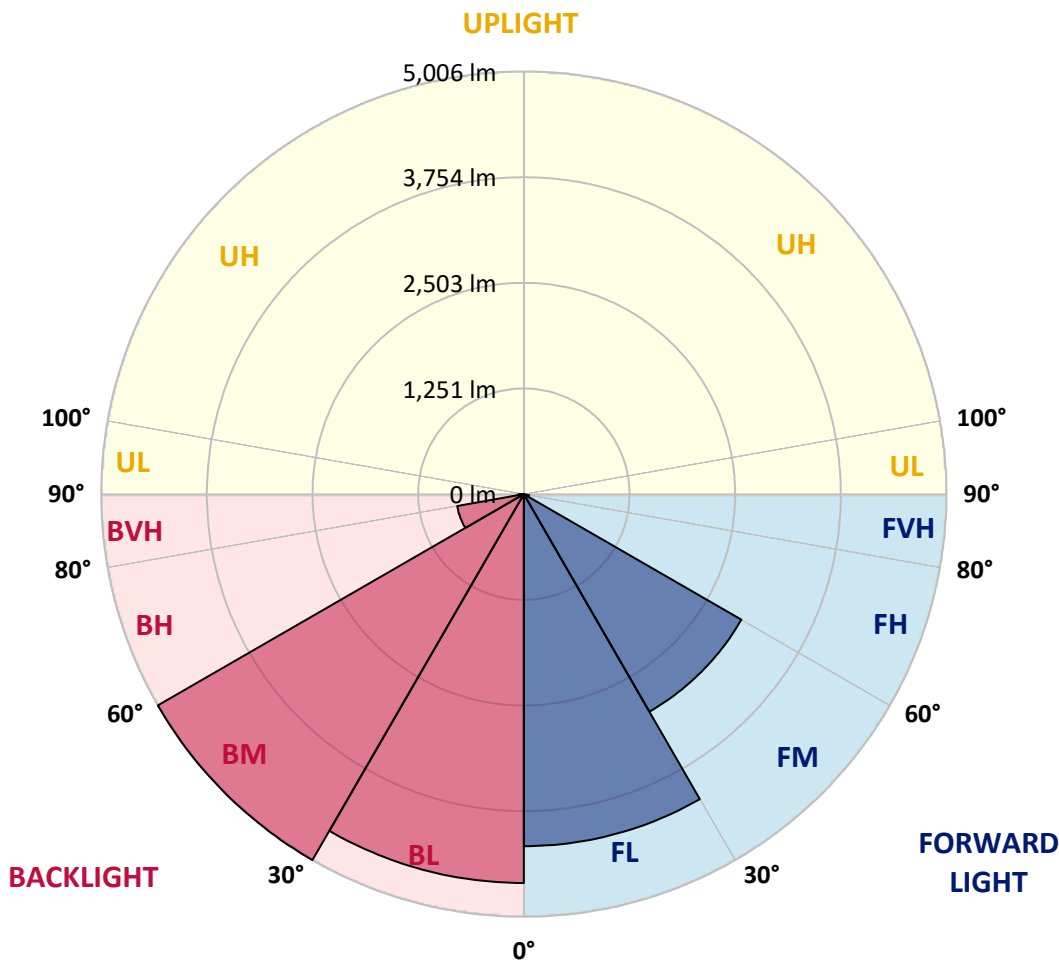
CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4169.9	23.6			
FM (30°-60°)	2974.9	16.8			
FH (60°-80°)	62.3	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4606.4	26.0	B4/5000		
BM (30°-60°)	5005.8	28.3	B4/8500		
BH (60°-80°)	801.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.3	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: P638263
 CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1
2.5°	13436.2	13453.6	13359.0	13368.9	13386.4	13513.4	13481.0	13451.2	13408.8	13481.0
5°	13418.8	13428.7	13329.1	13294.2	13309.2	13423.7	13319.1	13319.1	13309.2	13296.7
7.5°	13284.3	13289.2	13212.0	13149.7	13189.6	13241.9	13164.7	13202.1	13147.3	13189.6
10°	13082.5	13050.1	12957.9	12940.5	12985.3	13035.2	12982.9	13017.7	12967.9	13000.3
12.5°	12786.1	12736.2	12661.5	12639.1	12716.3	12783.6	12741.2	12721.3	12656.5	12736.2
15°	11642.7	11605.4	11774.7	12071.2	12337.7	12395.0	12350.1	12370.1	12235.6	12258.0
17.5°	9582.7	9513.0	9694.8	10397.2	11398.6	11926.7	11886.8	11757.3	11558.0	11602.9
20°	8708.4	8688.4	8668.5	8835.4	9535.4	11137.1	11191.9	10863.0	10579.1	10516.8
22.5°	8215.2	8207.7	8187.8	8225.1	8409.5	9438.2	10065.9	9762.0	9572.7	9555.3
25°	7764.3	7751.8	7692.1	7739.4	7739.4	7799.2	8603.8	8788.1	8621.2	8601.3
27.5°	7306.0	7283.5	7273.6	7296.0	7181.4	6777.9	6982.1	7881.4	7794.2	7799.2
30°	6810.3	6802.8	6775.4	6822.7	6469.0	5968.3	5838.8	7059.4	7076.8	7071.8
32.5°	6072.9	6105.3	6229.9	6282.2	5699.3	5285.8	5069.1	6107.8	6464.0	6456.6
35°	4411.5	4411.5	4817.5	5572.3	4994.4	4683.0	4565.9	5178.7	5858.7	5883.6
37.5°	3626.8	3639.3	3719.0	4062.7	4309.3	4199.7	4164.9	4359.2	5081.5	5121.4
40°	3263.1	3263.1	3263.1	3121.2	3113.7	3783.8	3763.8	3701.6	4389.1	4476.2
42.5°	2931.9	2939.3	2944.3	2585.6	2386.3	3270.6	3225.8	3131.1	3768.8	3870.9
45°	2590.6	2603.0	2618.0	2162.1	2075.0	2354.0	2730.1	2625.5	3156.0	3288.1
47.5°	1581.8	1601.7	1940.5	1833.3	1843.3	1815.9	2226.9	2209.5	2588.1	2774.9
50°	1068.6	1076.1	1108.5	1163.3	1581.8	1427.3	1576.8	1828.4	1965.4	2249.3
52.5°	896.7	909.2	829.5	754.8	1038.7	1115.9	1101.0	1357.6	1412.4	1763.6
55°	630.2	670.1	632.7	625.2	590.4	866.9	834.5	1043.7	1078.6	1340.1
57.5°	64.8	74.7	129.5	465.8	386.1	490.7	595.3	764.7	799.6	988.9
60°	5.0	5.0	12.5	64.8	281.5	293.9	411.0	470.8	538.0	690.0
62.5°	0.0	2.5	5.0	10.0	44.8	156.9	206.7	246.6	323.8	445.9
65°	0.0	0.0	2.5	7.5	10.0	59.8	79.7	129.5	176.9	276.5
67.5°	0.0	0.0	2.5	5.0	7.5	14.9	27.4	47.3	94.7	156.9
70°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	29.9	42.3	84.7
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	14.9	19.9	29.9	42.3
75°	0.0	0.0	2.5	2.5	7.5	14.9	12.5	14.9	19.9	27.4
77.5°	0.0	0.0	2.5	5.0	7.5	14.9	12.5	14.9	14.9	17.4
80°	0.0	0.0	2.5	5.0	10.0	17.4	14.9	14.9	12.5	12.5
82.5°	0.0	0.0	2.5	7.5	10.0	22.4	22.4	19.9	10.0	7.5
85°	0.0	0.0	5.0	10.0	14.9	24.9	24.9	19.9	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.5	17.4	24.9	19.9	7.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638263

CATALOG NUMBER: IFLD-M-SA4D-827-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13461.1	0°	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1	13461.1
13418.8	2.5°	13486.0	13471.1	13520.9	13540.8	13568.2	13463.6	13398.8	13401.3	13281.8
13266.8	5°	13346.5	13349.0	13413.8	13408.8	13436.2	13378.9	13354.0	13311.7	13207.0
13075.0	7.5°	13169.7	13147.3	13209.5	13256.9	13187.1	13227.0	13169.7	13189.6	13127.3
12905.6	10°	13032.7	12980.4	13037.7	13070.0	13072.5	13032.7	12977.9	12925.6	12903.1
12641.6	12.5°	12728.8	12661.5	12758.7	12803.5	12796.0	12718.8	12656.5	12669.0	12596.8
12178.3	15°	12310.3	12312.8	12382.5	12424.9	12385.0	12367.6	12372.6	12342.7	12280.4
11538.1	17.5°	11670.1	11707.5	11891.8	11993.9	12016.4	11981.5	11964.1	11929.2	11866.9
10516.8	20°	10604.0	10828.2	11157.0	11473.3	11535.6	11525.6	11463.4	11448.4	11413.5
9505.5	22.5°	9667.4	9834.3	10215.4	10708.6	10962.7	10987.6	10912.9	10890.4	10853.1
8601.3	25°	8698.4	8877.8	9221.5	9757.1	10282.7	10389.8	10377.3	10310.1	10270.2
7799.2	27.5°	7881.4	8060.7	8372.1	8855.3	9418.3	9762.0	9794.4	9687.3	9684.8
7084.3	30°	7144.1	7390.7	7627.3	8020.9	8566.4	9082.0	9136.8	9062.1	9069.6
6429.2	32.5°	6566.2	6770.4	6972.2	7236.2	7689.6	8289.9	8504.1	8434.4	8407.0
5883.6	35°	5975.8	6115.3	6322.0	6563.7	6872.5	7467.9	7839.0	7786.7	7759.3
5146.3	37.5°	5303.2	5542.4	5691.8	5963.3	6205.0	6678.2	7201.3	7193.9	7136.6
4518.6	40°	4613.2	4864.8	5091.5	5365.5	5552.3	5928.5	6508.9	6506.4	6513.8
3868.5	42.5°	3988.0	4219.7	4493.7	4792.6	4971.9	5245.9	5868.7	5903.6	5945.9
3332.9	45°	3422.6	3631.8	3885.9	4249.6	4466.3	4623.2	5176.2	5335.6	5333.1
2854.6	47.5°	2914.4	3111.2	3325.4	3679.1	3955.6	4097.6	4556.0	4782.6	4767.7
2341.5	50°	2446.1	2620.5	2844.7	3101.2	3472.4	3596.9	3938.2	4237.1	4214.7
1865.7	52.5°	1967.9	2209.5	2398.8	2632.9	3024.0	3146.1	3410.1	3701.6	3684.1
1399.9	55°	1534.4	1768.6	1997.7	2199.5	2528.3	2710.2	2899.5	3198.4	3193.4
1096.0	57.5°	1160.8	1417.4	1634.1	1825.9	2087.4	2311.6	2463.6	2735.1	2769.9
749.8	60°	859.4	1056.2	1290.3	1504.5	1711.3	1942.9	2045.1	2311.6	2326.6
513.1	62.5°	585.4	802.1	1031.3	1225.5	1380.0	1619.1	1711.3	1930.5	1957.9
328.8	65°	406.0	545.5	807.1	946.6	1135.9	1340.1	1432.3	1606.7	1661.5
189.3	67.5°	269.0	388.6	630.2	757.2	944.1	1083.6	1200.6	1342.6	1402.4
119.6	70°	147.0	286.5	450.9	597.8	759.7	894.3	1008.8	1123.4	1175.7
54.8	72.5°	99.6	191.8	313.9	473.3	612.8	744.8	846.9	931.6	934.1
32.4	75°	49.8	129.5	239.1	366.2	478.3	607.8	700.0	749.8	690.0
19.9	77.5°	29.9	94.7	194.3	293.9	388.6	490.7	543.0	570.4	473.3
14.9	80°	17.4	67.3	151.9	234.1	269.0	361.2	411.0	418.5	316.4
10.0	82.5°	12.5	49.8	119.6	171.9	164.4	254.1	308.9	298.9	201.8
7.5	85°	7.5	34.9	74.7	107.1	99.6	166.9	179.3	184.3	117.1
5.0	87.5°	5.0	19.9	39.9	57.3	47.3	72.2	72.2	87.2	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13461.1
13127.3
13182.1
13022.7
12803.5
12534.5
12218.1
11839.5
11333.8
10843.1
10227.9
9679.8
9032.2
8409.5
7722.0
7183.9
6513.8
5923.5
5338.1
4772.7
4234.6
3721.5
3205.9
2755.0
2349.0
1962.9
1649.0
1394.9
1155.8
911.7
645.2
455.8
296.4
186.8
107.1
49.8
0.0

(END OF REPORT)