

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: P637483

Luminaire Tested: **IFLD-L-SA7B-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25248.6 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

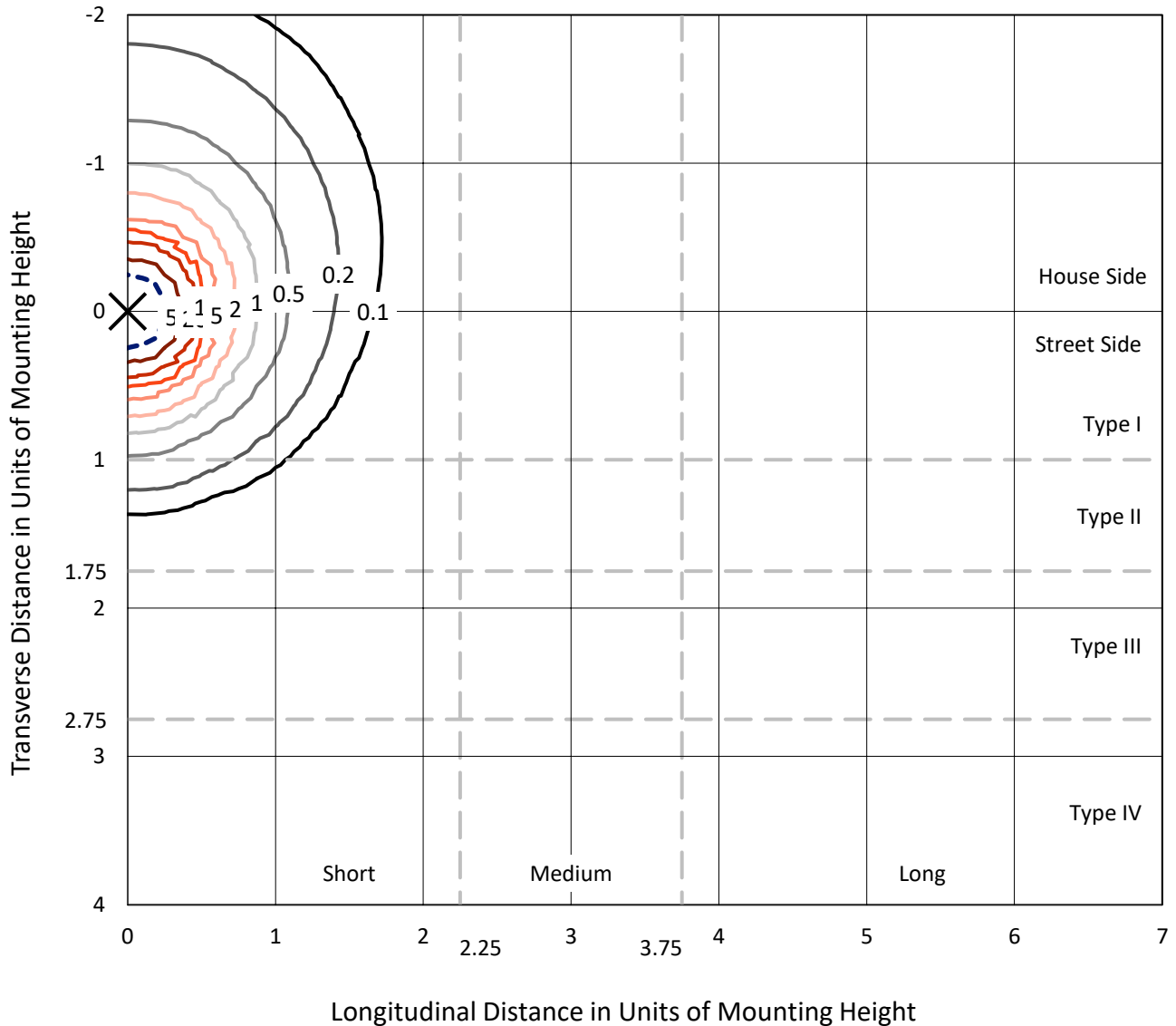
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637483
 CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

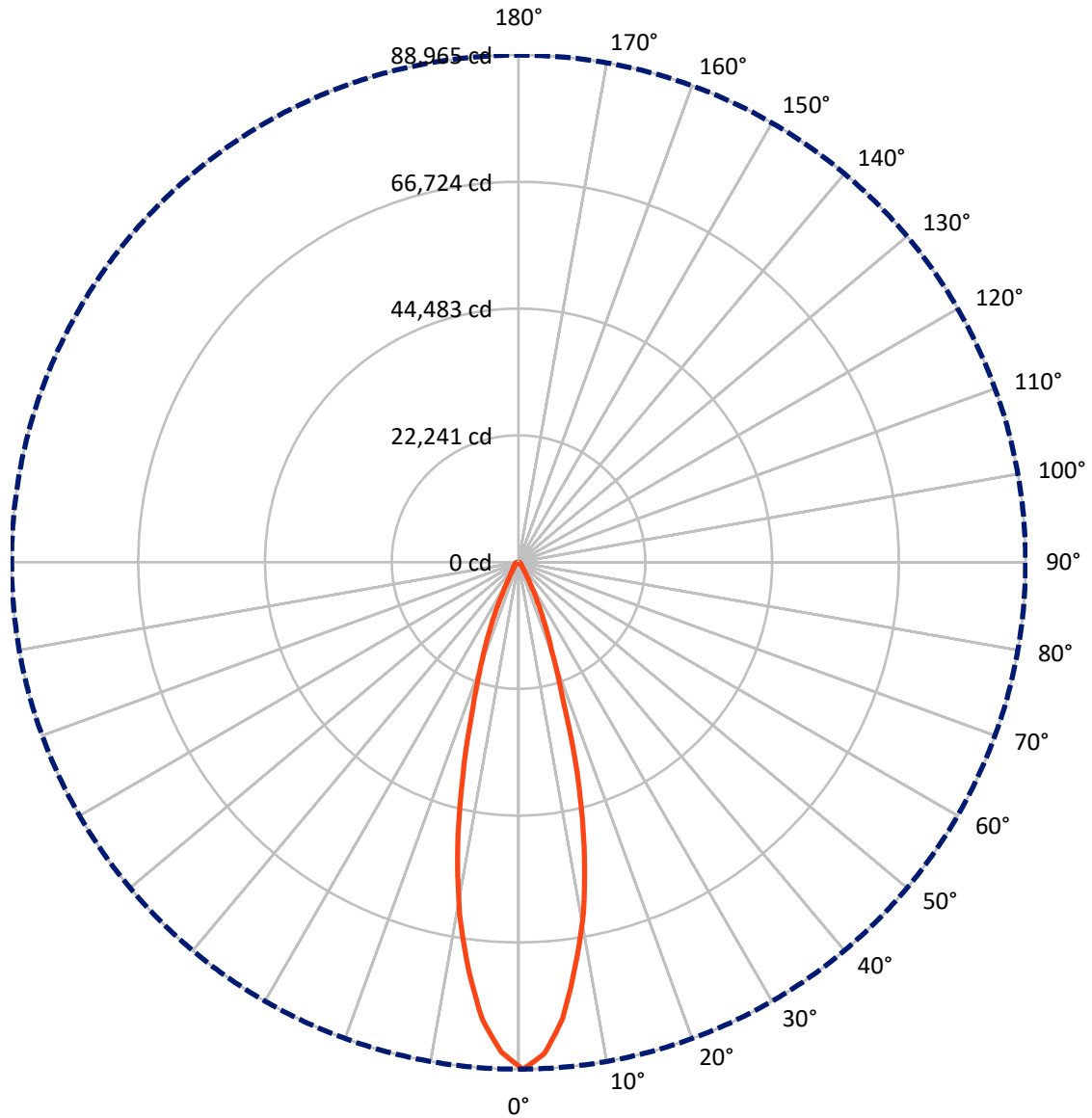
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 222.4 fc
 Type V - Short - N/A

REPORT NUMBER: P637483
CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637483

CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13312.8	0.0	13312.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11935.9	0.0	11935.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	25248.6	0.0	25248.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7180.3	28.4
10°-20°	10874.5	43.1
20°-30°	4589.1	18.2
30°-40°	1196.9	4.7
40°-50°	605.4	2.4
50°-60°	395.7	1.6
60°-70°	237.1	0.9
70°-80°	124.7	0.5
80°-90°	45.0	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°	25248.6	100.0
0°-180°	25248.6	100.0



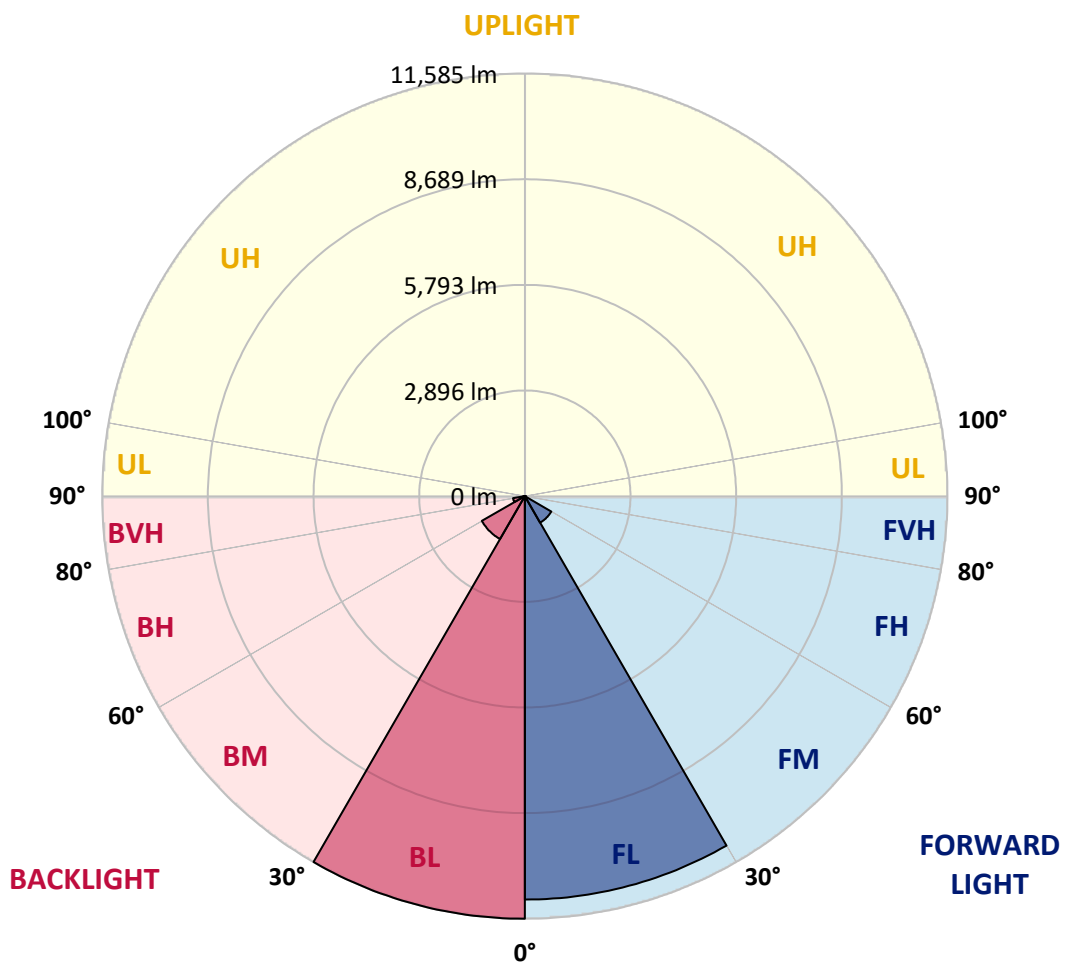
REPORT NUMBER: P637483
 CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11058.7	43.8			
FM (30°-60°)	837.5	3.3			
FH (60°-80°)	34.1	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	11585.1	45.9	B5		
BM (30°-60°)	1360.4	5.4	B2/2500		
BH (60°-80°)	327.6	1.3	B1/500		G0/660
BVH (80°-90°)	39.6	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: P637483
 CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4
2.5°	86373.8	86422.0	86243.3	86628.9	86328.4	87133.7	86733.9	87357.7	87147.8	87496.6
5°	80476.0	80396.6	80345.6	80943.8	80770.9	81635.7	81082.8	80901.3	81462.7	81360.7
7.5°	71569.8	71779.6	71660.6	71816.5	71904.4	72891.1	73203.0	72959.2	72967.7	73109.5
10°	62439.6	62130.6	61691.1	61983.1	62601.3	63032.3	62859.3	63216.6	63137.2	63474.6
12.5°	51205.6	51449.4	51202.7	50941.9	52022.2	51903.1	52203.6	52399.3	51908.7	53000.4
15°	38570.7	38698.3	38998.9	38979.1	39809.8	39977.1	39937.4	40144.4	39761.6	39943.1
17.5°	24779.1	25210.1	26018.2	27384.9	28921.7	29100.3	29054.9	28884.8	28700.5	28496.4
20°	16644.1	16598.8	16890.8	17290.6	20472.0	21314.1	21288.6	20755.6	19984.3	19836.9
22.5°	11659.4	11744.5	11704.8	12101.7	12759.6	15081.8	14795.4	14253.9	14001.5	13837.0
25°	7669.9	7638.7	7837.2	7956.3	8520.6	8804.1	9807.9	9606.5	9218.1	9260.6
27.5°	4675.7	4715.4	4789.1	4891.2	5291.0	5200.2	5773.0	5849.6	5724.8	5591.5
30°	2869.5	2897.8	2957.4	3031.1	3170.0	3070.8	3229.6	3504.6	3459.3	3365.7
32.5°	1948.0	1950.8	1993.3	2021.7	2004.7	1911.1	1962.1	2223.0	2228.7	2220.2
35°	1400.7	1400.7	1440.4	1463.1	1414.9	1338.3	1346.8	1508.5	1579.4	1593.5
37.5°	966.9	969.7	1037.8	1105.8	1052.0	1032.1	998.1	1105.8	1219.2	1236.3
40°	734.4	731.5	765.6	816.6	822.3	785.4	796.8	864.8	981.1	995.2
42.5°	595.4	598.3	615.3	609.6	612.5	660.7	677.7	708.9	816.6	842.1
45°	501.9	504.7	513.2	484.9	473.5	547.2	569.9	586.9	677.7	708.9
47.5°	414.0	419.6	428.2	397.0	391.3	439.5	479.2	496.2	575.6	609.6
50°	297.7	303.4	334.6	317.6	334.6	345.9	399.8	425.3	479.2	524.6
52.5°	215.5	221.2	229.7	232.5	275.0	280.7	320.4	360.1	385.6	436.7
55°	170.1	175.8	170.1	164.5	201.3	232.5	246.7	289.2	309.1	368.6
57.5°	96.4	102.1	110.6	127.6	133.3	178.6	192.8	229.7	246.7	303.4
60°	17.0	19.8	31.2	76.6	93.6	113.4	144.6	175.8	198.5	238.2
62.5°	2.8	2.8	5.7	17.0	53.9	79.4	104.9	124.8	144.6	181.5
65°	0.0	0.0	2.8	5.7	14.2	45.4	56.7	73.7	99.2	130.4
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	25.5	45.4	56.7	87.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	19.8	34.0	53.9
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	17.0	17.0	34.0
75°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	17.0	14.2	14.2
77.5°	0.0	0.0	2.8	5.7	11.3	17.0	19.8	17.0	11.3	11.3
80°	0.0	0.0	5.7	8.5	14.2	19.8	25.5	19.8	11.3	5.7
82.5°	0.0	0.0	5.7	11.3	14.2	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	31.2	22.7	11.3	2.8
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	17.0	14.2	5.7	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637483
 CATALOG NUMBER: IFLD-L-SA7B-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
88965.4	0°	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4	88965.4
86835.9	2.5°	87335.0	87788.6	87882.2	87757.5	87938.9	87612.8	87363.3	86716.8	86328.4
81329.5	5°	81854.0	81786.0	82259.5	82415.5	82395.6	82146.1	81797.3	81406.0	81026.1
72834.4	7.5°	73288.1	73376.0	73807.0	74082.0	73943.1	73631.2	73390.2	73095.3	72840.1
63596.5	10°	64177.8	63573.8	64109.7	64109.7	64481.2	63599.3	63681.6	62938.7	62972.7
52980.6	12.5°	53162.0	53380.4	53468.2	53720.6	53286.8	52818.9	52246.2	52132.7	51778.3
39597.2	15°	40167.1	40790.9	40255.0	41170.9	40728.5	40240.8	40152.9	39273.9	39551.8
28720.4	17.5°	28578.6	29267.6	29483.1	30007.7	29605.0	29315.8	28950.0	28683.5	28663.7
20106.2	20°	20265.0	20956.9	21115.7	21745.1	21699.8	21609.0	21300.0	20962.5	20596.8
13686.8	22.5°	13893.7	14458.0	14985.4	15833.2	15819.0	15552.5	15521.3	15044.9	15053.5
9246.4	25°	9342.8	9754.0	9878.7	10746.4	10842.8	10814.4	10652.8	10210.5	10377.8
5648.2	27.5°	5653.9	6014.0	6436.5	6742.7	7031.9	6986.6	6824.9	6578.3	6470.5
3394.0	30°	3484.8	3646.4	3802.4	4171.0	4343.9	4434.7	4358.1	4128.4	4145.4
2234.3	32.5°	2282.5	2418.6	2532.1	2764.6	2855.3	3022.6	2991.4	2943.2	2886.5
1607.7	35°	1664.4	1763.7	1840.2	1948.0	2064.2	2206.0	2228.7	2208.8	2186.1
1241.9	37.5°	1270.3	1372.4	1460.3	1505.6	1596.4	1706.9	1769.3	1766.5	1749.5
1012.3	40°	1032.1	1108.7	1188.1	1247.6	1310.0	1392.2	1468.8	1477.3	1477.3
850.6	42.5°	862.0	927.2	1006.6	1069.0	1114.3	1190.9	1270.3	1276.0	1270.3
720.2	45°	737.2	793.9	870.5	944.2	981.1	1037.8	1114.3	1131.3	1120.0
618.1	47.5°	640.8	691.9	757.1	836.5	876.2	927.2	998.1	1017.9	1015.1
533.1	50°	550.1	609.6	674.8	740.1	791.1	839.3	907.3	930.0	921.5
453.7	52.5°	484.9	538.7	595.4	666.3	725.9	768.4	822.3	862.0	850.6
382.8	55°	405.5	470.7	530.2	589.8	663.5	708.9	759.9	808.1	796.8
323.2	57.5°	351.6	405.5	473.5	527.4	601.1	655.0	706.0	757.1	754.2
263.7	60°	294.9	351.6	416.8	473.5	541.6	601.1	652.2	708.9	714.5
198.5	62.5°	232.5	300.6	357.3	422.5	490.5	555.7	601.1	657.8	666.3
150.3	65°	175.8	246.7	309.1	371.4	439.5	510.4	550.1	598.3	606.8
110.6	67.5°	130.4	190.0	263.7	320.4	391.3	459.3	496.2	535.9	550.1
68.1	70°	99.2	144.6	221.2	275.0	348.8	402.6	442.3	476.4	487.7
45.4	72.5°	62.4	113.4	178.6	235.3	300.6	348.8	377.1	397.0	414.0
25.5	75°	42.5	87.9	144.6	201.3	249.5	286.4	311.9	328.9	343.1
11.3	77.5°	25.5	68.1	119.1	167.3	198.5	226.8	252.4	263.7	272.2
8.5	80°	14.2	51.0	99.2	136.1	156.0	175.8	195.6	209.8	215.5
5.7	82.5°	8.5	39.7	79.4	104.9	113.4	133.3	153.1	161.6	161.6
2.8	85°	5.7	28.4	53.9	76.6	82.2	96.4	102.1	107.7	113.4
2.8	87.5°	5.7	17.0	34.0	42.5	45.4	51.0	53.9	59.5	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
88965.4
86042.0
80600.8
71975.3
62641.0
51455.1
39273.9
28136.3
20438.0
14889.0
10114.1
6376.9
4071.7
2866.6
2177.6
1741.0
1460.3
1264.6
1120.0
1009.4
915.9
847.8
802.4
757.1
717.4
672.0
615.3
555.7
493.4
411.1
340.3
269.4
209.8
158.8
110.6
62.4
0.0

(END OF REPORT)