

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: P637474

Luminaire Tested: **IFLD-S-SA6C-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29459.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

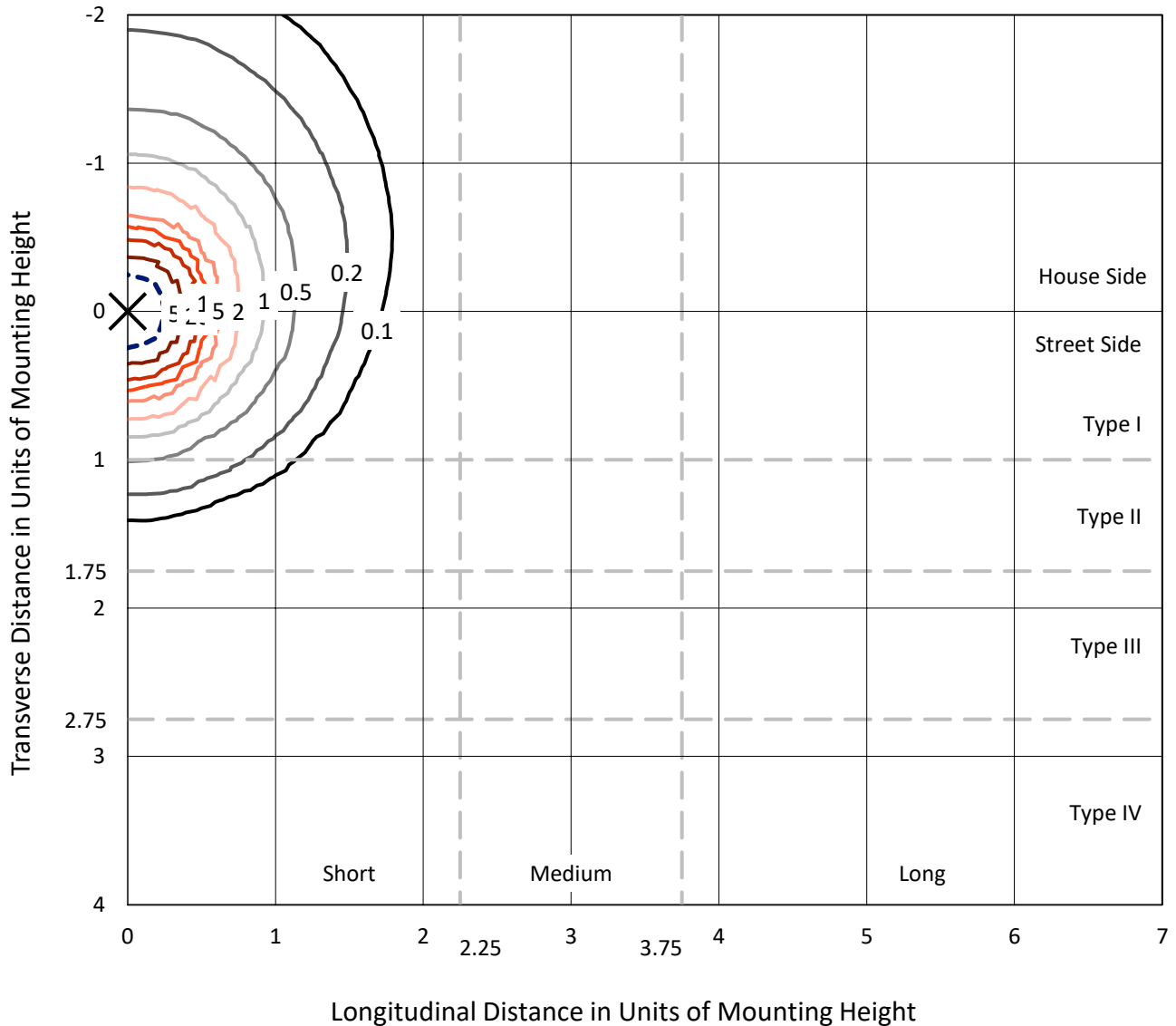
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637474
 CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

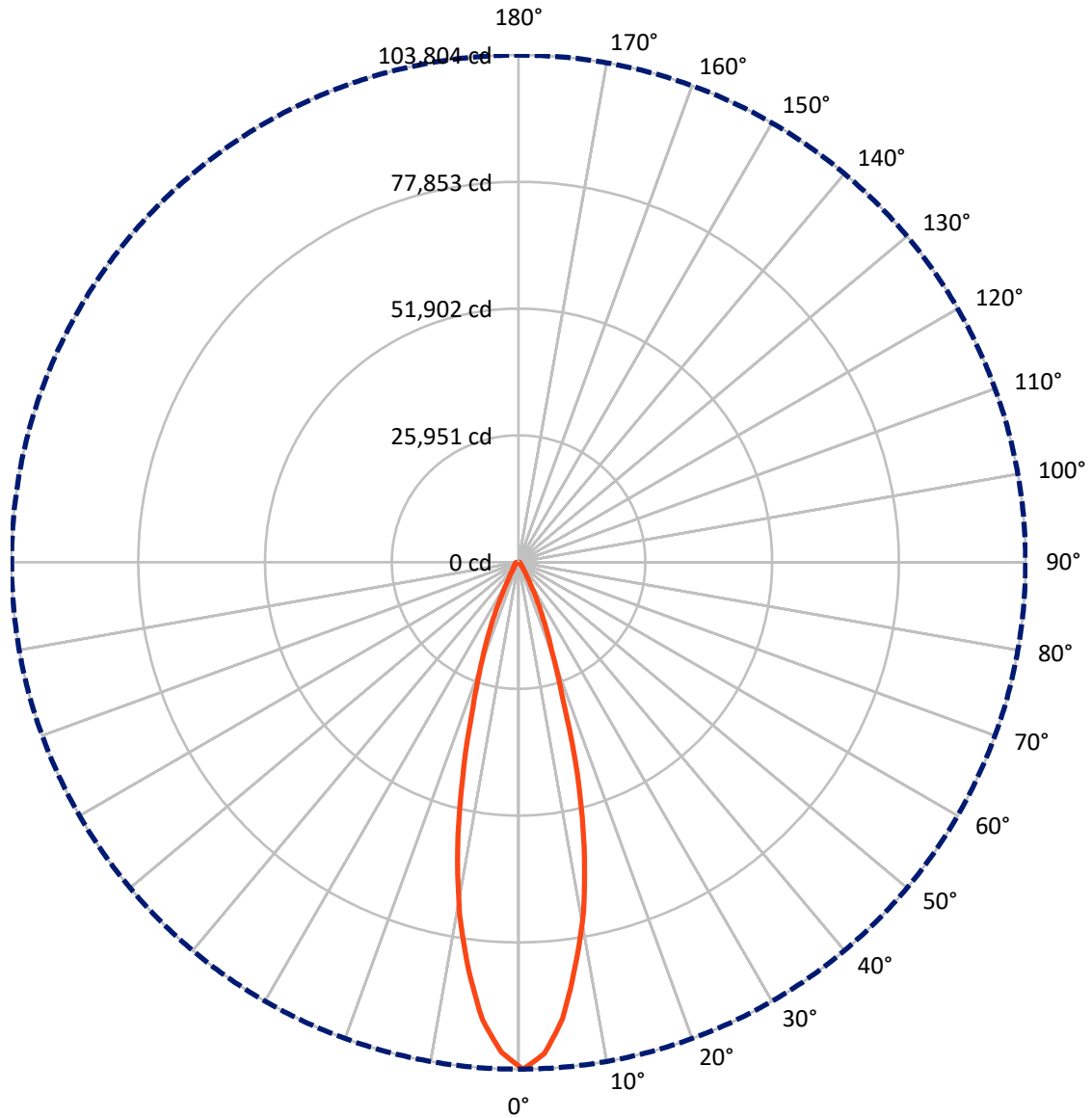
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 259.5 fc
 Type V - Short - N/A

REPORT NUMBER: P637474
CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637474

CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

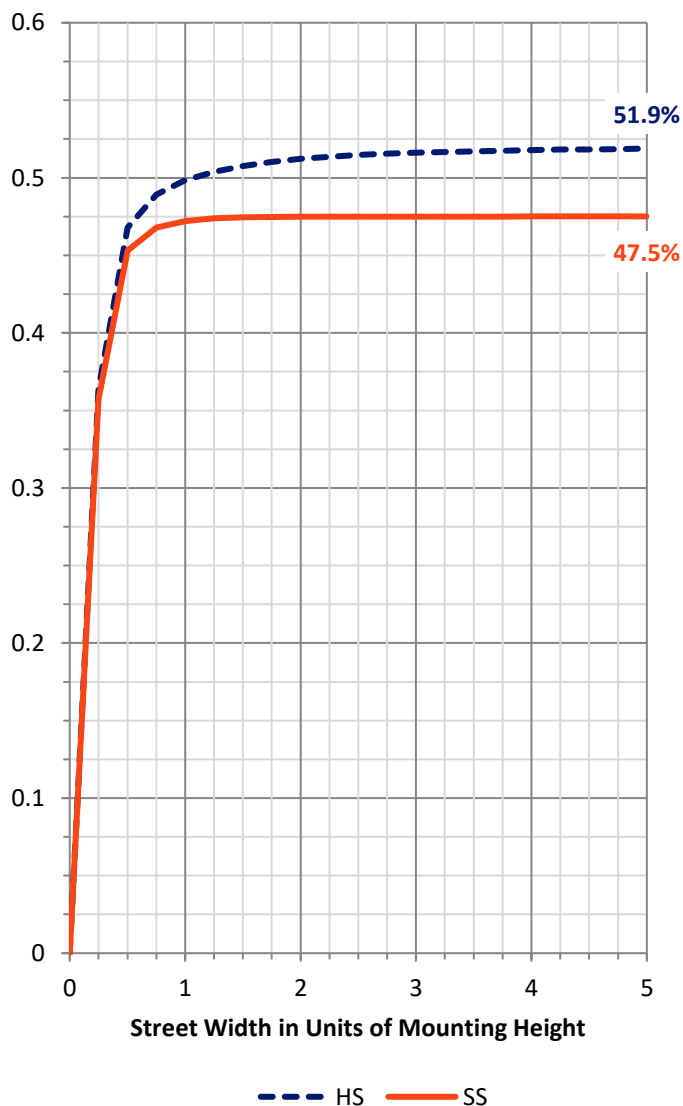
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15533.2	0.0	15533.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	13926.6	0.0	13926.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	29459.9	0.0	29459.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8377.9	28.4
10°-20°	12688.3	43.1
20°-30°	5354.5	18.2
30°-40°	1396.5	4.7
40°-50°	706.3	2.4
50°-60°	461.7	1.6
60°-70°	276.6	0.9
70°-80°	145.5	0.5
80°-90°	52.6	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°	29459.9	100.0
0°-180°	29459.9	100.0



REPORT NUMBER: P637474

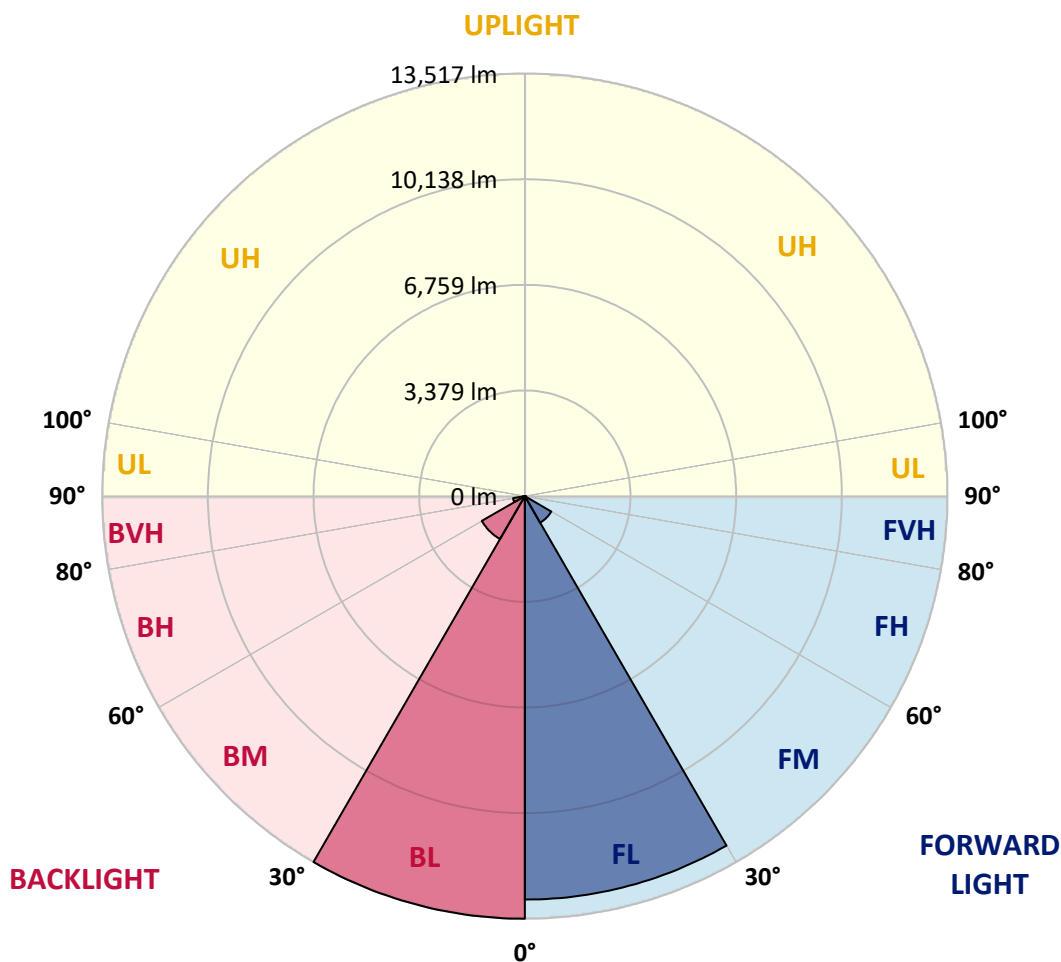
CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12903.2	43.8			
FM (30°-60°)	977.2	3.3			
FH (60°-80°)	39.8	0.1			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	13517.4	45.9	B5		
BM (30°-60°)	1587.3	5.4	B2/2500		
BH (60°-80°)	382.3	1.3	B1/500		G0/660
BVH (80°-90°)	46.2	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: P637474
 CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9
2.5°	100780.0	100836.3	100627.8	101077.8	100727.1	101666.7	101200.2	101928.0	101683.2	102090.2
5°	93898.6	93806.0	93746.4	94444.5	94242.7	95251.7	94606.6	94394.8	95049.9	94930.8
7.5°	83507.0	83751.8	83612.8	83794.8	83897.3	85048.7	85412.6	85128.1	85138.0	85303.4
10°	72854.0	72493.3	71980.5	72321.3	73042.5	73545.4	73343.6	73760.4	73667.8	74061.5
12.5°	59746.1	60030.6	59742.8	59438.4	60698.9	60560.0	60910.7	61139.0	60566.6	61840.3
15°	45004.0	45152.8	45503.5	45480.4	46449.7	46644.9	46598.6	46840.1	46393.5	46605.2
17.5°	28912.0	29414.9	30357.7	31952.4	33745.5	33954.0	33901.0	33702.5	33487.5	33249.3
20°	19420.2	19367.3	19708.1	20174.5	23886.5	24869.1	24839.4	24217.4	23317.5	23145.5
22.5°	13604.1	13703.3	13657.0	14120.2	14887.7	17597.3	17263.2	16631.3	16336.8	16144.9
25°	8949.2	8912.8	9144.4	9283.3	9941.7	10272.5	11443.7	11208.8	10755.6	10805.2
27.5°	5455.5	5501.8	5587.9	5707.0	6173.4	6067.6	6735.9	6825.2	6679.6	6524.1
30°	3348.1	3381.2	3450.6	3536.7	3698.8	3583.0	3768.3	4089.2	4036.2	3927.1
32.5°	2272.9	2276.2	2325.8	2358.9	2339.0	2229.9	2289.4	2593.8	2600.4	2590.5
35°	1634.3	1634.3	1680.7	1707.1	1650.9	1561.6	1571.5	1760.1	1842.8	1859.3
37.5°	1128.2	1131.5	1210.9	1290.3	1227.4	1204.3	1164.6	1290.3	1422.6	1442.5
40°	856.9	853.6	893.3	952.8	959.4	916.4	929.7	1009.1	1144.7	1161.2
42.5°	694.8	698.1	717.9	711.3	714.6	770.9	790.7	827.1	952.8	982.6
45°	585.6	588.9	598.8	565.7	552.5	638.5	665.0	684.8	790.7	827.1
47.5°	483.0	489.6	499.6	463.2	456.6	512.8	559.1	579.0	671.6	711.3
50°	347.4	354.0	390.4	370.5	390.4	403.6	466.5	496.3	559.1	612.1
52.5°	251.4	258.1	268.0	271.3	320.9	327.5	373.8	420.2	449.9	509.5
55°	198.5	205.1	198.5	191.9	234.9	271.3	287.8	337.5	360.6	430.1
57.5°	112.5	119.1	129.0	148.9	155.5	208.4	225.0	268.0	287.8	354.0
60°	19.9	23.2	36.4	89.3	109.2	132.3	168.7	205.1	231.6	277.9
62.5°	3.3	3.3	6.6	19.9	62.9	92.6	122.4	145.6	168.7	211.7
65°	0.0	0.0	3.3	6.6	16.5	52.9	66.2	86.0	115.8	152.2
67.5°	0.0	0.0	3.3	6.6	9.9	19.9	29.8	52.9	66.2	102.6
70°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	23.2	39.7	62.9
72.5°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	19.9	19.9	39.7
75°	0.0	0.0	3.3	6.6	9.9	16.5	19.9	19.9	16.5	16.5
77.5°	0.0	0.0	3.3	6.6	13.2	19.9	23.2	19.9	13.2	13.2
80°	0.0	0.0	6.6	9.9	16.5	23.2	29.8	23.2	13.2	6.6
82.5°	0.0	0.0	6.6	13.2	16.5	26.5	36.4	29.8	13.2	6.6
85°	0.0	0.0	3.3	9.9	19.9	26.5	36.4	26.5	13.2	3.3
87.5°	0.0	0.0	3.3	3.3	6.6	9.9	19.9	16.5	6.6	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: P637474
 CATALOG NUMBER: IFLD-S-SA6C-827-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
103803.9	0°	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9	103803.9
101319.3	2.5°	101901.6	102430.9	102540.1	102394.5	102606.3	102225.8	101934.7	101180.3	100727.1
94894.4	5°	95506.5	95427.1	95979.6	96161.5	96138.4	95847.2	95440.3	94983.7	94540.4
84982.5	7.5°	85511.8	85614.4	86117.3	86438.2	86276.1	85912.1	85630.9	85286.9	84989.1
74203.8	10°	74882.0	74177.3	74802.6	74802.6	75236.0	74207.1	74303.0	73436.2	73475.9
61817.2	12.5°	62028.9	62283.7	62386.2	62680.7	62174.5	61628.6	60960.3	60828.0	60414.4
46201.6	15°	46866.6	47594.4	46969.1	48037.8	47521.6	46952.6	46850.0	45824.4	46148.7
33510.6	17.5°	33345.2	34149.2	34400.6	35012.6	34542.8	34205.4	33778.6	33467.6	33444.5
23459.8	20°	23645.0	24452.3	24637.5	25372.0	25319.1	25213.2	24852.6	24458.9	24032.1
15969.6	22.5°	16211.1	16869.5	17484.8	18474.0	18457.5	18146.5	18110.1	17554.3	17564.2
10788.6	25°	10901.1	11380.8	11526.4	12538.8	12651.3	12618.2	12429.6	11913.5	12108.7
6590.3	27.5°	6596.9	7017.1	7510.0	7867.3	8204.8	8151.9	7963.3	7675.5	7549.7
3960.1	30°	4066.0	4254.6	4436.5	4866.6	5068.4	5174.3	5085.0	4817.0	4836.9
2607.0	32.5°	2663.3	2822.1	2954.4	3225.7	3331.5	3526.7	3490.3	3434.1	3367.9
1875.9	35°	1942.0	2057.8	2147.1	2272.9	2408.5	2573.9	2600.4	2577.2	2550.8
1449.1	37.5°	1482.2	1601.3	1703.8	1756.8	1862.6	1991.6	2064.4	2061.1	2041.3
1181.1	40°	1204.3	1293.6	1386.2	1455.7	1528.5	1624.4	1713.7	1723.7	1723.7
992.5	42.5°	1005.7	1081.8	1174.5	1247.3	1300.2	1389.5	1482.2	1488.8	1482.2
840.3	45°	860.2	926.3	1015.7	1101.7	1144.7	1210.9	1300.2	1320.0	1306.8
721.2	47.5°	747.7	807.2	883.3	976.0	1022.3	1081.8	1164.6	1187.7	1184.4
622.0	50°	641.8	711.3	787.4	863.5	923.0	979.3	1058.7	1085.2	1075.2
529.3	52.5°	565.7	628.6	694.8	777.5	846.9	896.6	959.4	1005.7	992.5
446.6	55°	473.1	549.2	618.7	688.1	774.2	827.1	886.6	942.9	929.7
377.2	57.5°	410.2	473.1	552.5	615.4	701.4	764.2	823.8	883.3	880.0
307.7	60°	344.1	410.2	486.3	552.5	631.9	701.4	760.9	827.1	833.7
231.6	62.5°	271.3	350.7	416.9	492.9	572.4	648.4	701.4	767.5	777.5
175.3	65°	205.1	287.8	360.6	433.4	512.8	595.5	641.8	698.1	708.0
129.0	67.5°	152.2	221.7	307.7	373.8	456.6	536.0	579.0	625.3	641.8
79.4	70°	115.8	168.7	258.1	320.9	406.9	469.8	516.1	555.8	569.0
52.9	72.5°	72.8	132.3	208.4	274.6	350.7	406.9	440.0	463.2	483.0
29.8	75°	49.6	102.6	168.7	234.9	291.1	334.1	363.9	383.8	400.3
13.2	77.5°	29.8	79.4	139.0	195.2	231.6	264.7	294.4	307.7	317.6
9.9	80°	16.5	59.6	115.8	158.8	182.0	205.1	228.3	244.8	251.4
6.6	82.5°	9.9	46.3	92.6	122.4	132.3	155.5	178.7	188.6	188.6
3.3	85°	6.6	33.1	62.9	89.3	95.9	112.5	119.1	125.7	132.3
3.3	87.5°	6.6	19.9	39.7	49.6	52.9	59.6	62.9	69.5	76.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
103803.9
100392.9
94044.2
83980.0
73088.8
60037.3
45824.4
32829.1
23846.8
17372.3
11801.0
7440.6
4750.8
3344.8
2540.8
2031.3
1703.8
1475.5
1306.8
1177.8
1068.6
989.2
936.3
883.3
837.0
784.1
717.9
648.4
575.7
479.7
397.0
314.3
244.8
185.3
129.0
72.8
0.0

(END OF REPORT)