

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: P636735

Luminaire Tested: **IFLD-L-SA8C-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636735
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24671.9 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

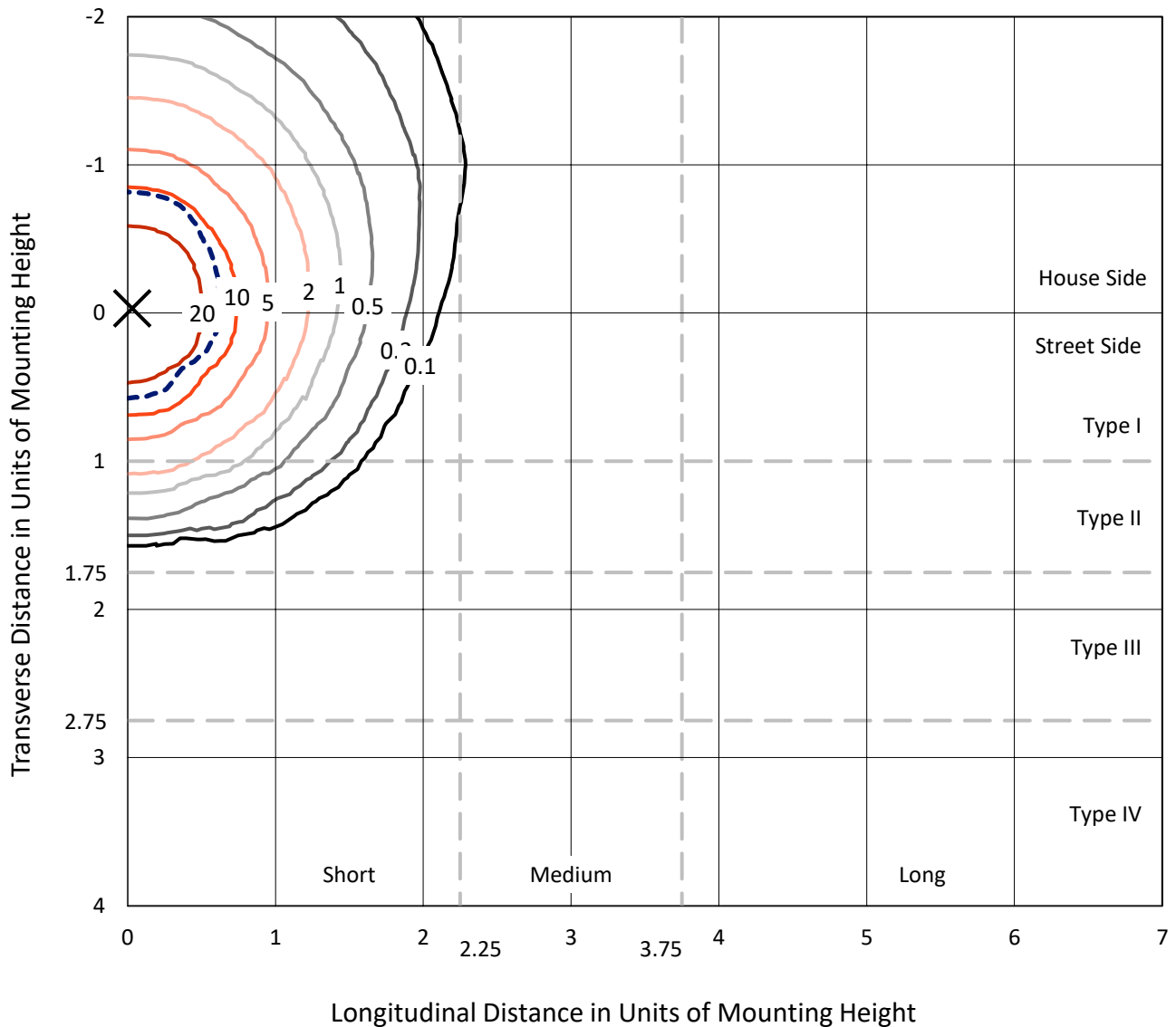
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636735
 CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

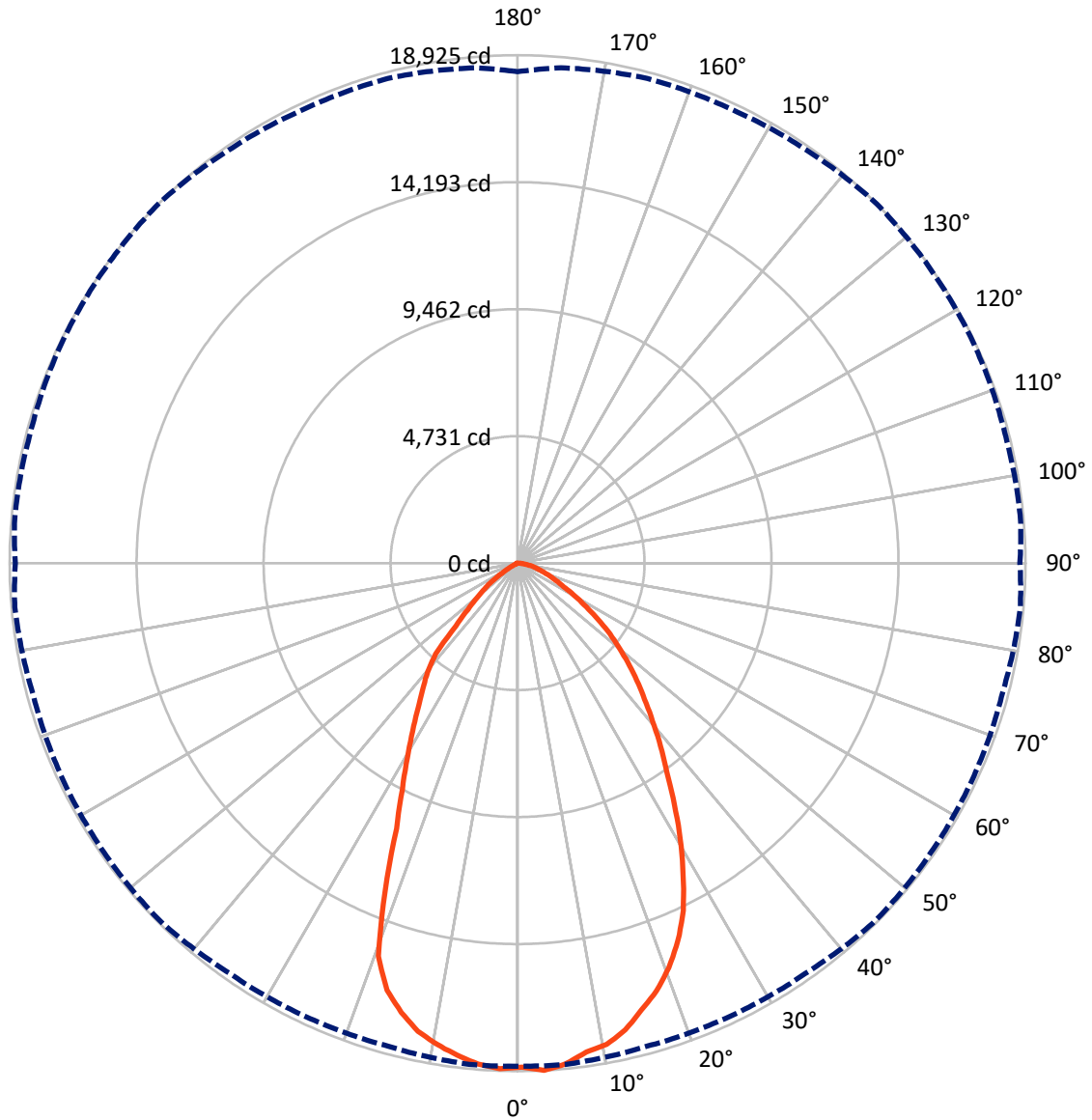
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.9 fc
 Type I - Short - N/A

REPORT NUMBER: P636735
CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636735
 CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

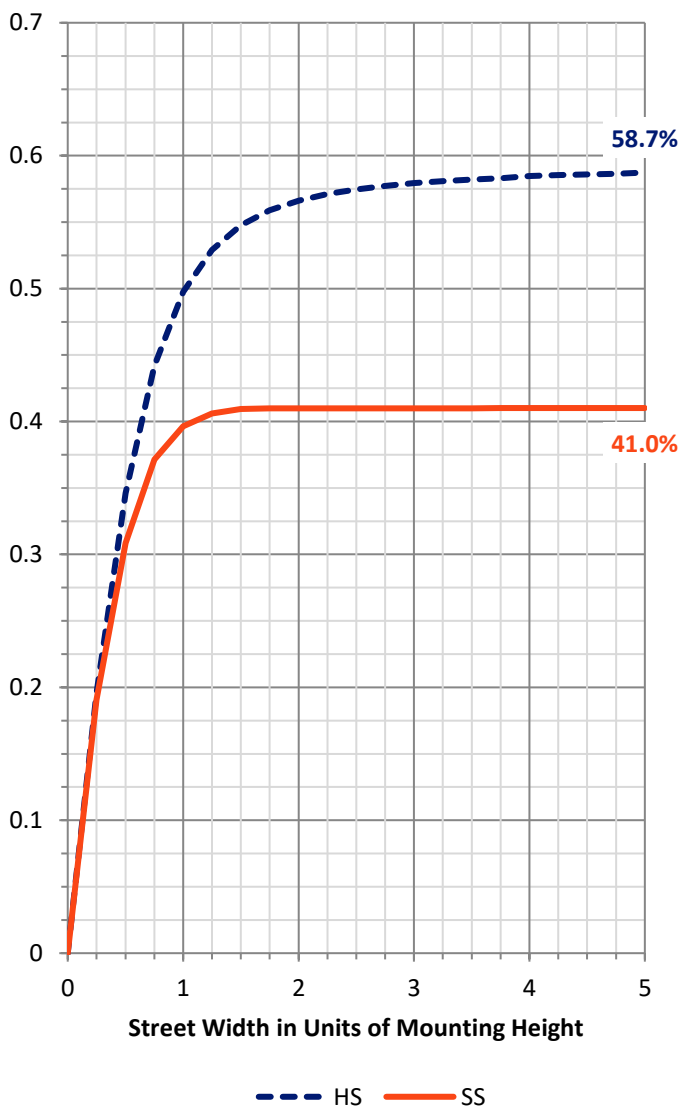
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14611.9	0.0	14611.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10059.9	0.0	10059.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	24671.9	0.0	24671.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1760.8	7.1
10°-20°	4721.7	19.1
20°-30°	5758.4	23.3
30°-40°	5257.4	21.3
40°-50°	3799.4	15.4
50°-60°	2074.5	8.4
60°-70°	857.7	3.5
70°-80°	347.4	1.4
80°-90°	94.5	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°	24671.9	100.0
0°-180°	24671.9	100.0



REPORT NUMBER: P636735

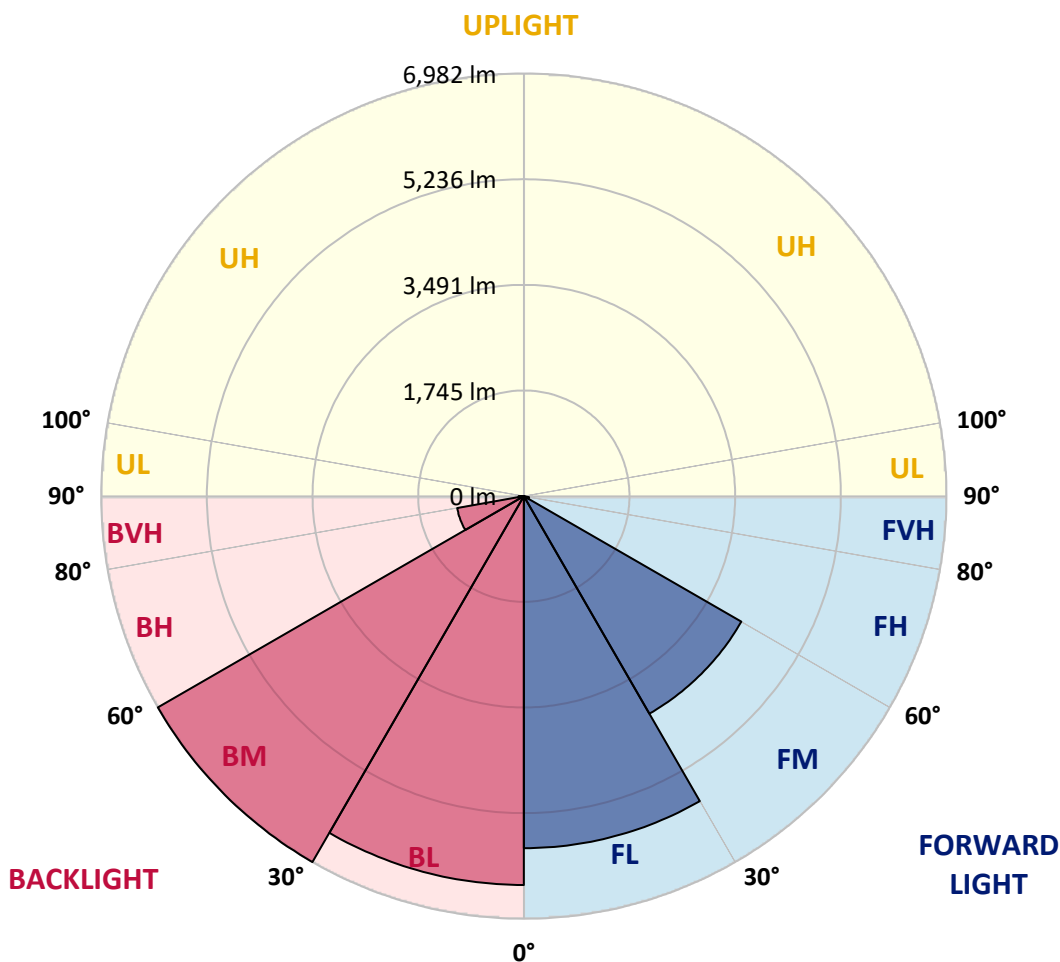
CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5816.1	23.6			
FM (30°-60°)	4149.3	16.8			
FH (60°-80°)	86.9	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6424.9	26.0	B5		
BM (30°-60°)	6981.9	28.3	B4/8500		
BH (60°-80°)	1118.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.9	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: P636735
 CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2
2.5°	18740.5	18764.8	18632.8	18646.7	18671.0	18848.2	18803.0	18761.3	18702.3	18803.0
5°	18716.1	18730.0	18591.1	18542.4	18563.3	18723.1	18577.2	18577.2	18563.3	18545.9
7.5°	18528.5	18535.5	18427.8	18340.9	18396.5	18469.5	18361.8	18413.9	18337.4	18396.5
10°	18247.1	18202.0	18073.4	18049.1	18111.6	18181.1	18108.1	18156.8	18087.3	18132.5
12.5°	17833.7	17764.2	17660.0	17628.7	17736.4	17830.2	17771.1	17743.3	17653.0	17764.2
15°	16239.0	16186.8	16423.1	16836.5	17208.3	17288.2	17225.7	17253.5	17065.8	17097.1
17.5°	13365.7	13268.4	13522.0	14501.8	15898.5	16635.0	16579.4	16398.8	16120.8	16183.4
20°	12146.2	12118.4	12090.6	12323.4	13299.7	15533.7	15610.1	15151.5	14755.4	14668.6
22.5°	11458.3	11447.9	11420.1	11472.2	11729.3	13164.2	14039.7	13615.9	13351.8	13327.5
25°	10829.4	10812.1	10728.7	10794.7	10794.7	10878.1	12000.3	12257.4	12024.6	11996.8
27.5°	10190.2	10158.9	10145.0	10176.3	10016.5	9453.6	9738.5	10992.7	10871.1	10878.1
30°	9498.8	9488.4	9450.1	9516.2	9022.8	8324.5	8143.8	9846.2	9870.5	9863.6
32.5°	8470.4	8515.6	8689.3	8762.2	7949.2	7372.5	7070.2	8519.0	9015.9	9005.4
35°	6153.0	6153.0	6719.3	7772.0	6966.0	6531.7	6368.4	7223.1	8171.6	8206.3
37.5°	5058.6	5076.0	5187.2	5666.6	6010.6	5857.7	5809.1	6080.1	7087.6	7143.2
40°	4551.4	4551.4	4551.4	4353.3	4342.9	5277.5	5249.7	5162.8	6121.7	6243.3
42.5°	4089.3	4099.7	4106.6	3606.3	3328.4	4561.8	4499.2	4367.2	5256.6	5399.1
45°	3613.3	3630.7	3651.5	3015.7	2894.1	3283.2	3807.9	3661.9	4402.0	4586.1
47.5°	2206.2	2234.0	2706.5	2557.1	2571.0	2532.8	3106.0	3081.7	3609.8	3870.4
50°	1490.5	1500.9	1546.1	1622.5	2206.2	1990.8	2199.2	2550.1	2741.2	3137.3
52.5°	1250.8	1268.1	1156.9	1052.7	1448.8	1556.5	1535.6	1893.5	1969.9	2459.8
55°	879.0	934.6	882.5	872.1	823.4	1209.1	1163.9	1455.7	1504.4	1869.2
57.5°	90.3	104.2	180.7	649.7	538.5	684.4	830.4	1066.6	1115.3	1379.3
60°	6.9	6.9	17.4	90.3	392.6	410.0	573.3	656.6	750.5	962.4
62.5°	0.0	3.5	6.9	13.9	62.5	218.9	288.4	344.0	451.7	621.9
65°	0.0	0.0	3.5	10.4	13.9	83.4	111.2	180.7	246.7	385.6
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	38.2	66.0	132.0	218.9
70°	0.0	0.0	3.5	6.9	10.4	17.4	27.8	41.7	59.1	118.1
72.5°	0.0	0.0	3.5	3.5	6.9	17.4	20.8	27.8	41.7	59.1
75°	0.0	0.0	3.5	3.5	10.4	20.8	17.4	20.8	27.8	38.2
77.5°	0.0	0.0	3.5	6.9	10.4	20.8	17.4	20.8	20.8	24.3
80°	0.0	0.0	3.5	6.9	13.9	24.3	20.8	20.8	17.4	17.4
82.5°	0.0	0.0	3.5	10.4	13.9	31.3	31.3	27.8	13.9	10.4
85°	0.0	0.0	6.9	13.9	20.8	34.7	34.7	27.8	10.4	6.9
87.5°	0.0	0.0	6.9	10.4	17.4	24.3	34.7	27.8	10.4	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636735

CATALOG NUMBER: IFLD-L-SA8C-927-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18775.2	0°	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2	18775.2
18716.1	2.5°	18810.0	18789.1	18858.6	18886.4	18924.6	18778.7	18688.4	18691.8	18525.1
18504.2	5°	18615.4	18618.9	18709.2	18702.3	18740.5	18660.6	18625.8	18566.8	18420.8
18236.7	7.5°	18368.7	18337.4	18424.3	18490.3	18393.0	18448.6	18368.7	18396.5	18309.7
18000.4	10°	18177.6	18104.7	18184.6	18229.7	18233.2	18177.6	18101.2	18028.2	17997.0
17632.2	12.5°	17753.8	17660.0	17795.5	17858.0	17847.6	17739.9	17653.0	17670.4	17569.6
16985.9	15°	17170.1	17173.6	17270.8	17329.9	17274.3	17250.0	17256.9	17215.2	17128.4
16093.0	17.5°	16277.2	16329.3	16586.4	16728.8	16760.1	16711.5	16687.1	16638.5	16551.6
14668.6	20°	14790.2	15102.9	15561.5	16002.7	16089.6	16075.7	15988.8	15968.0	15919.3
13258.0	22.5°	13483.8	13716.6	14248.2	14936.1	15290.5	15325.2	15221.0	15189.7	15137.6
11996.8	25°	12132.3	12382.5	12861.9	13608.9	14342.0	14491.4	14474.0	14380.2	14324.6
10878.1	27.5°	10992.7	11242.9	11677.2	12351.2	13136.4	13615.9	13661.0	13511.6	13508.1
9881.0	30°	9964.3	10308.3	10638.4	11187.3	11948.2	12667.4	12743.8	12639.6	12650.0
8967.2	32.5°	9158.3	9443.2	9724.6	10092.9	10725.2	11562.5	11861.3	11764.0	11725.8
8206.3	35°	8334.9	8529.4	8817.8	9154.8	9585.6	10416.0	10933.7	10860.7	10822.5
7177.9	37.5°	7396.8	7730.4	7938.8	8317.5	8654.5	9314.6	10044.3	10033.8	9953.9
6302.4	40°	6434.4	6785.3	7101.5	7483.7	7744.3	8268.9	9078.4	9074.9	9085.3
5395.6	42.5°	5562.4	5885.5	6267.7	6684.6	6934.7	7316.9	8185.5	8234.1	8293.2
4648.6	45°	4773.7	5065.6	5419.9	5927.2	6229.5	6448.3	7219.6	7442.0	7438.5
3981.6	47.5°	4065.0	4339.4	4638.2	5131.6	5517.2	5715.3	6354.5	6670.7	6649.8
3265.9	50°	3411.8	3655.0	3967.7	4325.5	4843.2	5016.9	5492.9	5909.8	5878.5
2602.3	52.5°	2744.7	3081.7	3345.8	3672.4	4217.8	4388.1	4756.3	5162.8	5138.5
1952.6	55°	2140.2	2466.8	2786.4	3067.8	3526.4	3780.1	4044.1	4461.0	4454.1
1528.7	57.5°	1619.0	1976.9	2279.2	2546.7	2911.5	3224.2	3436.1	3814.8	3863.4
1045.8	60°	1198.6	1473.1	1799.7	2098.5	2386.9	2710.0	2852.4	3224.2	3245.0
715.7	62.5°	816.5	1118.7	1438.4	1709.4	1924.8	2258.3	2386.9	2692.6	2730.8
458.6	65°	566.3	760.9	1125.7	1320.2	1584.3	1869.2	1997.7	2240.9	2317.4
264.0	67.5°	375.2	542.0	879.0	1056.2	1316.8	1511.3	1674.6	1872.7	1956.0
166.8	70°	205.0	399.5	628.9	833.8	1059.7	1247.3	1407.1	1566.9	1639.9
76.4	72.5°	139.0	267.5	437.8	660.1	854.7	1038.8	1181.3	1299.4	1302.9
45.2	75°	69.5	180.7	333.5	510.7	667.1	847.7	976.3	1045.8	962.4
27.8	77.5°	41.7	132.0	271.0	410.0	542.0	684.4	757.4	795.6	660.1
20.8	80°	24.3	93.8	211.9	326.6	375.2	503.8	573.3	583.7	441.2
13.9	82.5°	17.4	69.5	166.8	239.7	229.3	354.4	430.8	416.9	281.4
10.4	85°	10.4	48.6	104.2	149.4	139.0	232.8	250.2	257.1	163.3
6.9	87.5°	6.9	27.8	55.6	79.9	66.0	100.8	100.8	121.6	79.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18775.2
18309.7
18386.1
18163.7
17858.0
17482.8
17041.5
16513.4
15808.1
15123.7
14265.5
13501.2
12597.9
11729.3
10770.4
10019.9
9085.3
8261.9
7445.5
6656.8
5906.3
5190.6
4471.4
3842.6
3276.3
2737.8
2300.0
1945.6
1612.1
1271.6
899.8
635.8
413.4
260.6
149.4
69.5
0.0

(END OF REPORT)