

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: P638301

Luminaire Tested: **IFLD-L-SA8C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30965.5 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

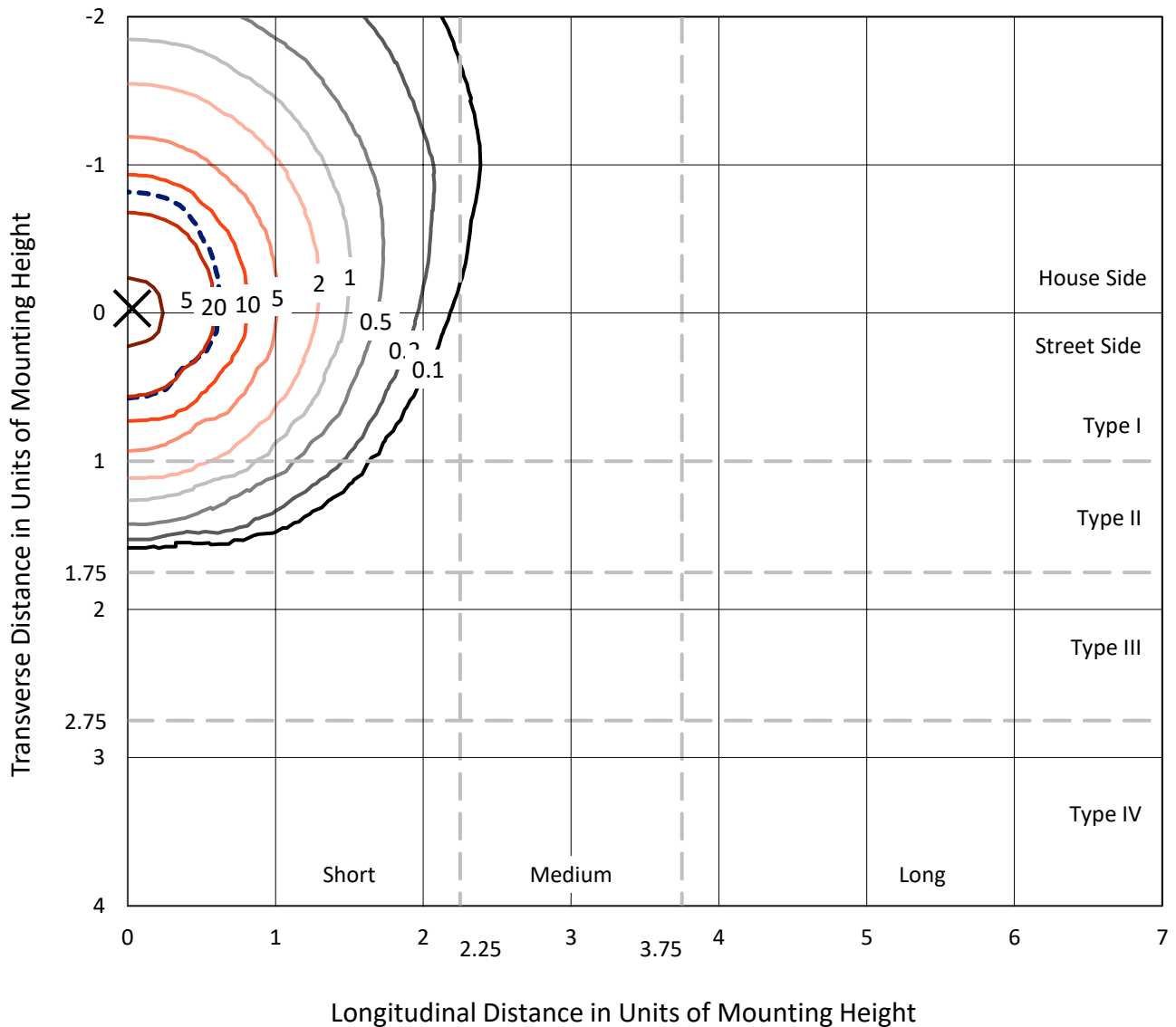
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638301
 CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

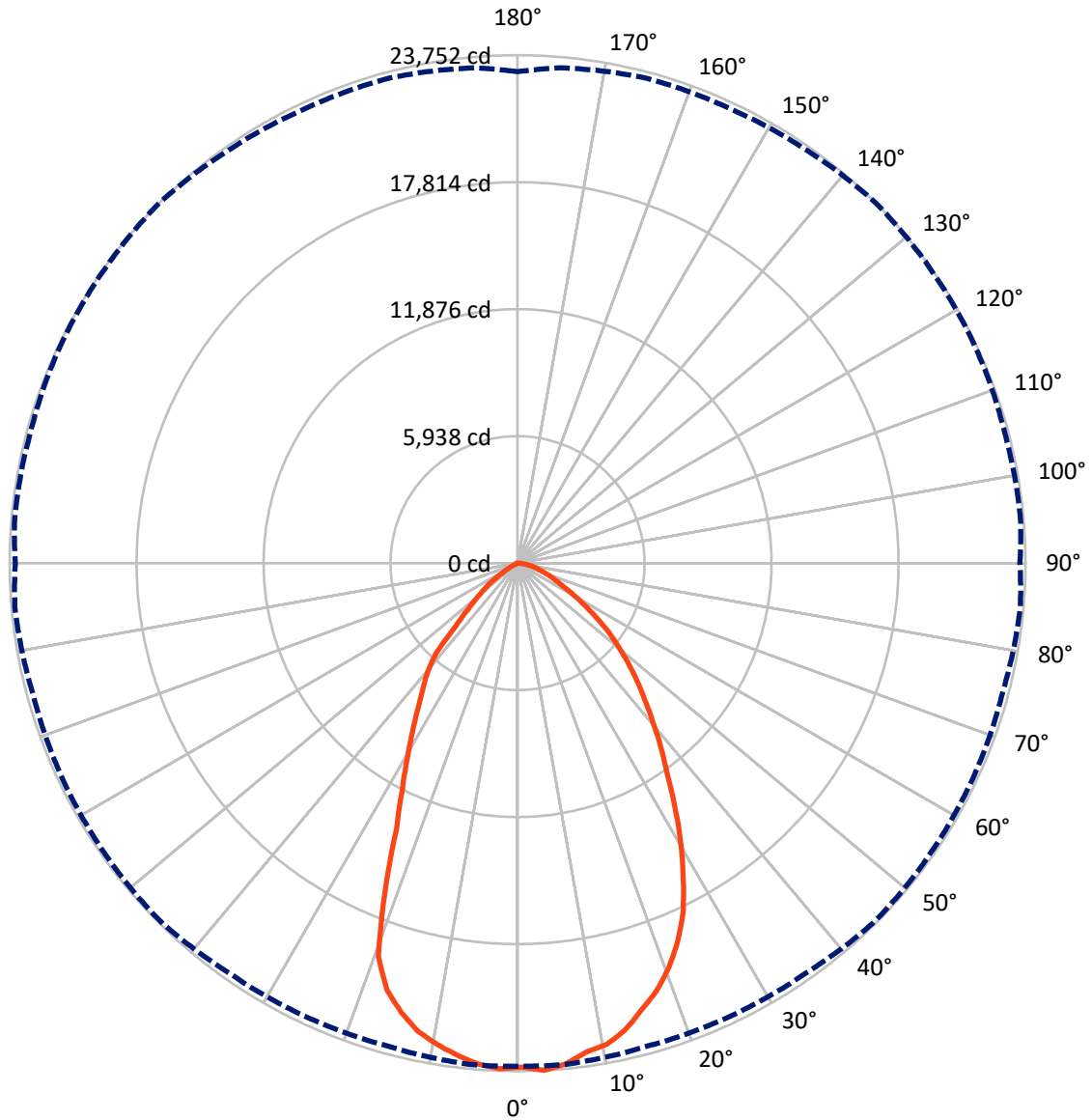
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638301
CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638301
 CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

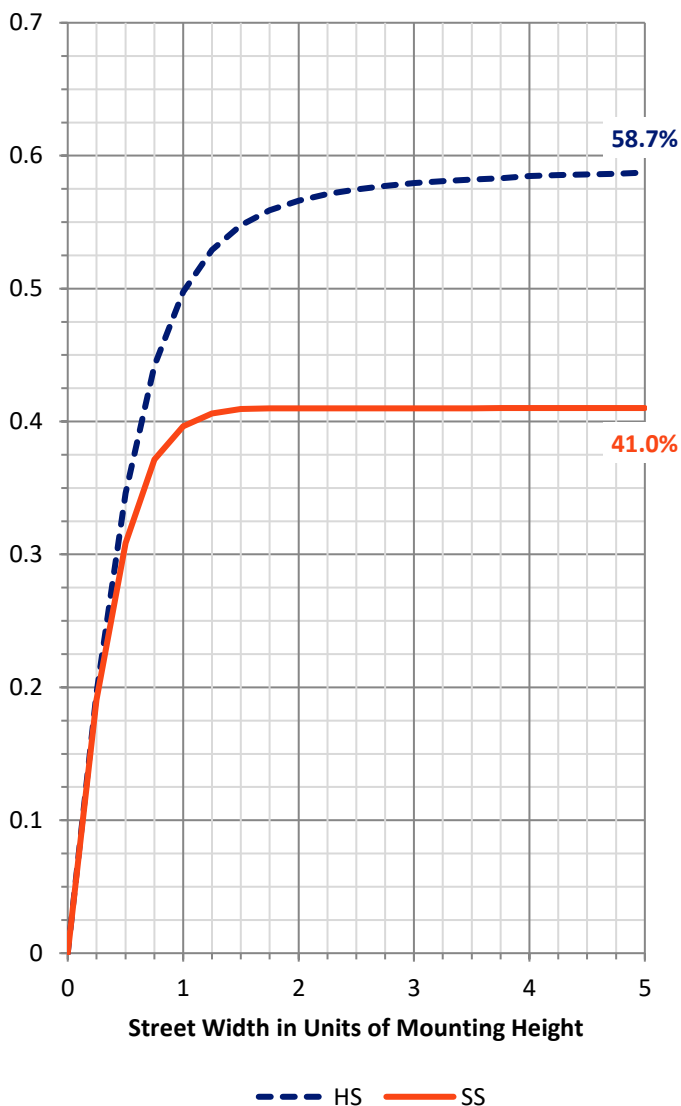
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18339.4	0.0	18339.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12626.2	0.0	12626.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	30965.5	0.0	30965.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2210.0	7.1
10°-20°	5926.2	19.1
20°-30°	7227.4	23.3
30°-40°	6598.5	21.3
40°-50°	4768.6	15.4
50°-60°	2603.7	8.4
60°-70°	1076.5	3.5
70°-80°	436.0	1.4
80°-90°	118.6	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°	30965.5	100.0
0°-180°	30965.5	100.0



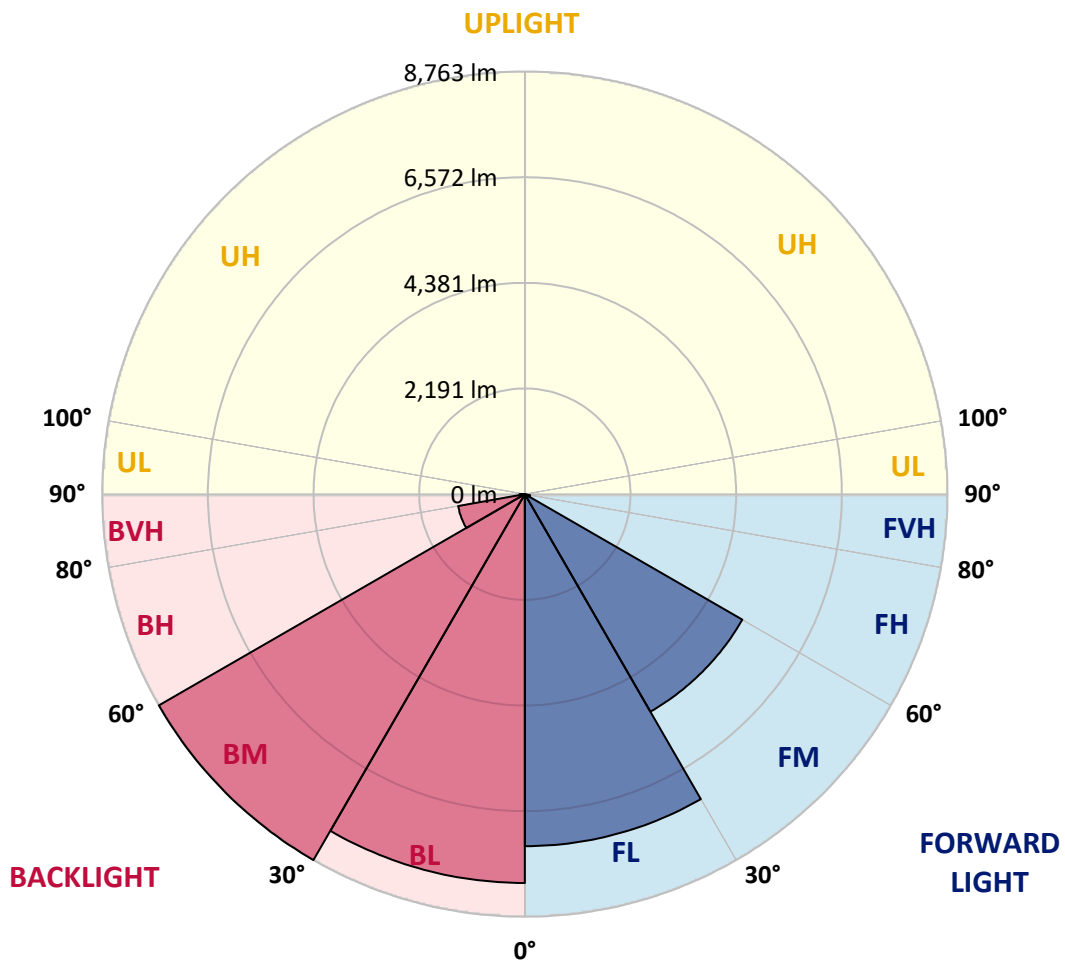
REPORT NUMBER: P638301
 CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7299.7	23.6			
FM (30°-60°)	5207.8	16.8			
FH (60°-80°)	109.1	0.4			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	8063.9	26.0	B5		
BM (30°-60°)	8763.0	28.3	B5		
BH (60°-80°)	1403.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	109.1	0.4			G2/225
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: P638301
 CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7
2.5°	23521.1	23551.6	23385.9	23403.3	23433.8	23656.2	23599.5	23547.2	23473.1	23599.5
5°	23490.5	23508.0	23333.5	23272.5	23298.7	23499.2	23316.1	23316.1	23298.7	23276.9
7.5°	23255.1	23263.8	23128.6	23019.6	23089.4	23180.9	23045.7	23111.2	23015.2	23089.4
10°	22901.8	22845.2	22683.8	22653.3	22731.8	22819.0	22727.4	22788.5	22701.3	22757.9
12.5°	22382.9	22295.7	22164.9	22125.7	22260.8	22378.6	22304.4	22269.6	22156.2	22295.7
15°	20381.4	20316.0	20612.5	21131.4	21598.0	21698.3	21619.8	21654.7	21419.2	21458.5
17.5°	16775.2	16653.1	16971.4	18201.1	19954.1	20878.5	20808.8	20582.0	20233.2	20311.7
20°	15244.6	15209.8	15174.9	15467.0	16692.4	19496.2	19592.2	19016.6	18519.4	18410.4
22.5°	14381.2	14368.2	14333.3	14398.7	14721.4	16522.3	17621.2	17089.2	16757.8	16727.2
25°	13592.0	13570.2	13465.5	13548.4	13548.4	13653.0	15061.5	15384.2	15092.0	15057.1
27.5°	12789.6	12750.4	12732.9	12772.2	12571.6	11865.2	12222.7	13796.9	13644.3	13653.0
30°	11921.9	11908.8	11860.8	11943.7	11324.5	10448.0	10221.2	12357.9	12388.5	12379.7
32.5°	10631.1	10687.8	10905.8	10997.4	9977.0	9253.2	8873.8	10692.2	11315.7	11302.7
35°	7722.6	7722.6	8433.4	9754.7	8743.0	8197.9	7993.0	9065.7	10256.1	10299.7
37.5°	6349.0	6370.8	6510.4	7112.1	7543.8	7352.0	7290.9	7631.0	8895.6	8965.4
40°	5712.4	5712.4	5712.4	5463.8	5450.7	6623.7	6588.9	6479.8	7683.4	7836.0
42.5°	5132.4	5145.5	5154.2	4526.3	4177.5	5725.5	5647.0	5481.3	6597.6	6776.4
45°	4535.0	4556.8	4583.0	3785.0	3632.4	4120.8	4779.2	4596.1	5524.9	5756.0
47.5°	2769.0	2803.9	3396.9	3209.4	3226.8	3178.9	3898.4	3867.8	4530.7	4857.7
50°	1870.7	1883.8	1940.5	2036.4	2769.0	2498.6	2760.3	3200.7	3440.5	3937.6
52.5°	1569.8	1591.6	1452.1	1321.3	1818.4	1953.5	1927.4	2376.5	2472.5	3087.3
55°	1103.2	1173.0	1107.6	1094.5	1033.5	1517.5	1460.8	1827.1	1888.1	2346.0
57.5°	113.4	130.8	226.8	815.4	675.9	859.0	1042.2	1338.7	1399.8	1731.2
60°	8.7	8.7	21.8	113.4	492.7	514.6	719.5	824.2	941.9	1207.9
62.5°	0.0	4.4	8.7	17.4	78.5	274.7	361.9	431.7	566.9	780.5
65°	0.0	0.0	4.4	13.1	17.4	104.7	139.5	226.8	309.6	484.0
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	48.0	82.9	165.7	274.7
70°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	52.3	74.1	148.3
72.5°	0.0	0.0	4.4	4.4	8.7	21.8	26.2	34.9	52.3	74.1
75°	0.0	0.0	4.4	4.4	13.1	26.2	21.8	26.2	34.9	48.0
77.5°	0.0	0.0	4.4	8.7	13.1	26.2	21.8	26.2	26.2	30.5
80°	0.0	0.0	4.4	8.7	17.4	30.5	26.2	26.2	21.8	21.8
82.5°	0.0	0.0	4.4	13.1	17.4	39.2	39.2	34.9	17.4	13.1
85°	0.0	0.0	8.7	17.4	26.2	43.6	43.6	34.9	13.1	8.7
87.5°	0.0	0.0	8.7	13.1	21.8	30.5	43.6	34.9	13.1	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638301

CATALOG NUMBER: IFLD-L-SA8C-830-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23564.7	0°	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7	23564.7
23490.5	2.5°	23608.3	23582.1	23669.3	23704.2	23752.2	23569.0	23455.6	23460.0	23250.7
23224.5	5°	23364.1	23368.4	23481.8	23473.1	23521.1	23420.8	23377.2	23303.0	23119.9
22888.8	7.5°	23054.5	23015.2	23124.2	23207.1	23085.0	23154.8	23054.5	23089.4	22980.3
22592.2	10°	22814.6	22723.1	22823.4	22880.0	22884.4	22814.6	22718.7	22627.1	22587.9
22130.0	12.5°	22282.6	22164.9	22335.0	22413.5	22400.4	22265.2	22156.2	22178.0	22051.5
21318.9	15°	21550.1	21554.4	21676.5	21750.6	21680.9	21650.4	21659.1	21606.7	21497.7
20198.3	17.5°	20429.4	20494.8	20817.5	20996.3	21035.5	20974.5	20943.9	20882.9	20773.9
18410.4	20°	18563.1	18955.5	19531.1	20084.9	20193.9	20176.5	20067.5	20041.3	19980.2
16640.0	22.5°	16923.5	17215.6	17882.8	18746.2	19191.0	19234.6	19103.8	19064.5	18999.1
15057.1	25°	15227.2	15541.2	16142.9	17080.5	18000.5	18188.0	18166.2	18048.5	17978.7
13653.0	27.5°	13796.9	14110.9	14656.0	15501.9	16487.4	17089.2	17145.9	16958.4	16954.0
12401.5	30°	12506.2	12937.9	13352.1	14041.1	14996.1	15898.7	15994.7	15863.8	15876.9
11254.7	32.5°	11494.5	11852.1	12205.3	12667.5	13461.2	14512.1	14887.1	14765.0	14717.0
10299.7	35°	10461.1	10705.3	11067.2	11490.2	12030.9	13073.1	13722.8	13631.2	13583.3
9009.0	37.5°	9283.7	9702.3	9964.0	10439.3	10862.2	11690.8	12606.5	12593.4	12493.1
7910.1	40°	8075.8	8516.2	8913.1	9392.7	9719.8	10378.2	11394.2	11389.9	11403.0
6772.0	42.5°	6981.3	7386.8	7866.5	8389.8	8703.7	9183.4	10273.6	10334.6	10408.7
5834.5	45°	5991.5	6357.7	6802.5	7439.2	7818.5	8093.3	9061.3	9340.4	9336.0
4997.2	47.5°	5101.9	5446.4	5821.4	6440.6	6924.6	7173.2	7975.5	8372.3	8346.2
4099.0	50°	4282.1	4587.3	4979.8	5428.9	6078.7	6296.7	6894.1	7417.4	7378.1
3266.1	52.5°	3444.9	3867.8	4199.3	4609.1	5293.8	5507.4	5969.7	6479.8	6449.3
2450.7	55°	2686.1	3096.0	3497.2	3850.4	4426.0	4744.3	5075.7	5599.0	5590.3
1918.7	57.5°	2032.0	2481.2	2860.6	3196.3	3654.2	4046.6	4312.6	4787.9	4849.0
1312.5	60°	1504.4	1848.9	2258.8	2633.8	2995.7	3401.3	3580.0	4046.6	4072.8
898.3	62.5°	1024.7	1404.1	1805.3	2145.4	2415.8	2834.4	2995.7	3379.5	3427.4
575.6	65°	710.8	955.0	1412.8	1657.0	1988.4	2346.0	2507.3	2812.6	2908.5
331.4	67.5°	470.9	680.3	1103.2	1325.6	1652.7	1896.9	2101.8	2350.4	2455.0
209.3	70°	257.3	501.5	789.3	1046.5	1330.0	1565.5	1766.0	1966.6	2058.2
95.9	72.5°	174.4	335.8	549.4	828.5	1072.7	1303.8	1482.6	1630.9	1635.2
56.7	75°	87.2	226.8	418.6	641.0	837.2	1064.0	1225.3	1312.5	1207.9
34.9	77.5°	52.3	165.7	340.1	514.6	680.3	859.0	950.6	998.6	828.5
26.2	80°	30.5	117.7	266.0	409.9	470.9	632.3	719.5	732.6	553.8
17.4	82.5°	21.8	87.2	209.3	300.9	287.8	444.8	540.7	523.3	353.2
13.1	85°	13.1	61.0	130.8	187.5	174.4	292.2	314.0	322.7	204.9
8.7	87.5°	8.7	34.9	69.8	100.3	82.9	126.5	126.5	152.6	100.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23564.7
22980.3
23076.3
22797.2
22413.5
21942.5
21388.7
20725.9
19840.7
18981.7
17904.6
16945.3
15811.5
14721.4
13517.8
12576.0
11403.0
10369.5
9344.8
8354.9
7413.0
6514.7
5612.1
4822.8
4112.0
3436.1
2886.7
2441.9
2023.3
1596.0
1129.4
798.0
518.9
327.0
187.5
87.2
0.0

(END OF REPORT)