

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: P637556

Luminaire Tested: **IFLD-S-SA3C-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637556
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16640 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 160.8
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

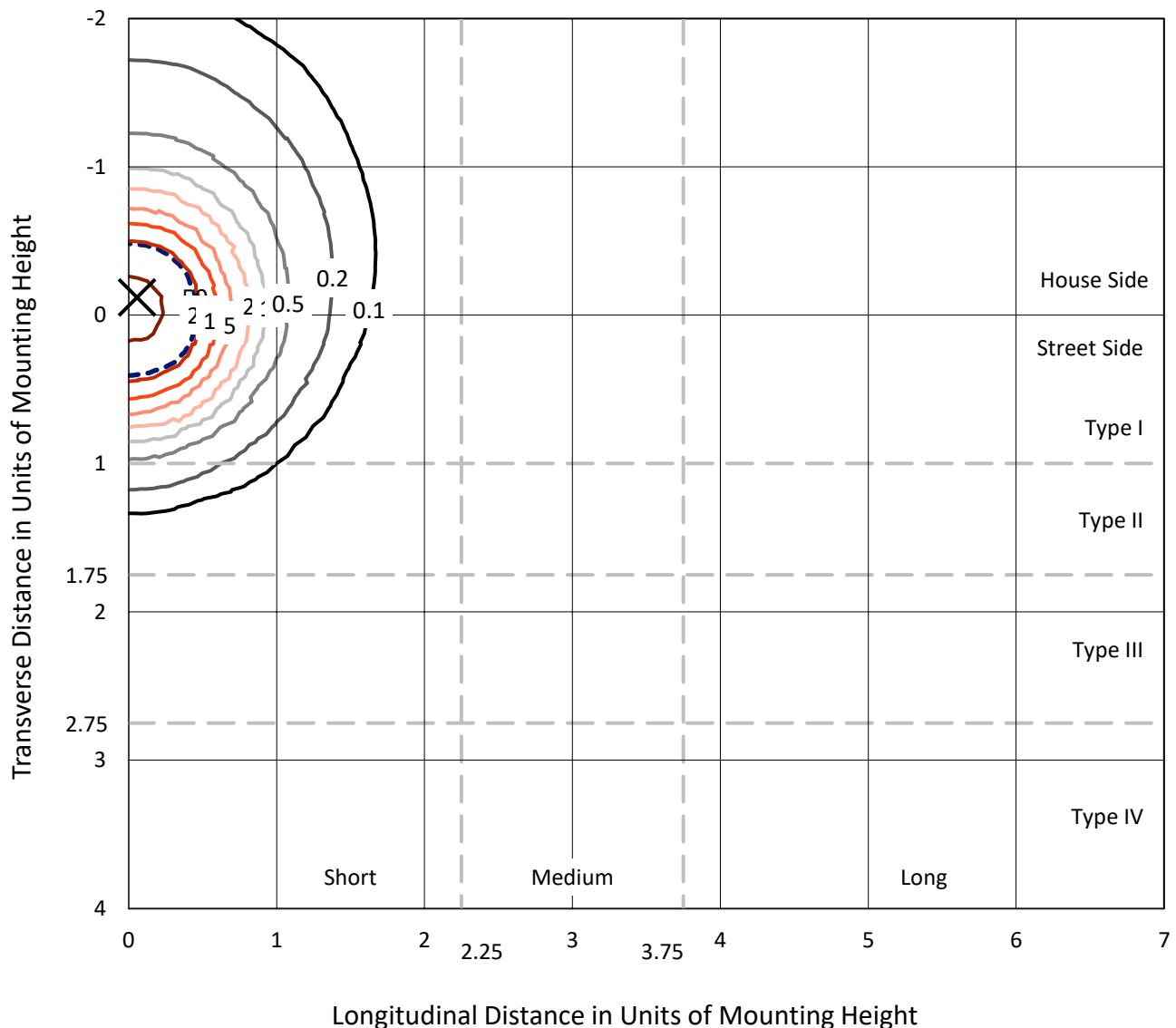


REPORT NUMBER: P637556

CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



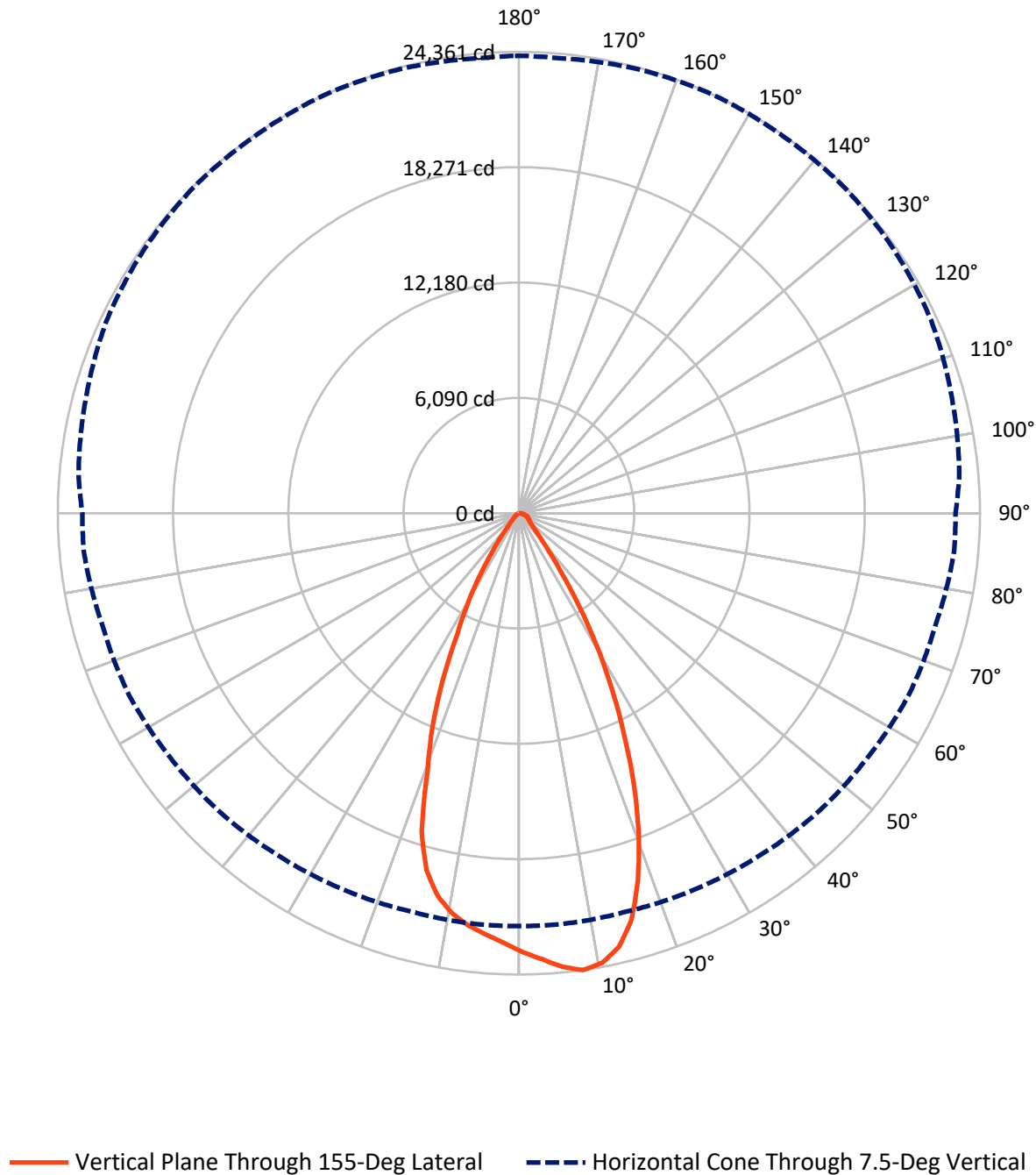
Based on 20 foot mounting height. Maximum calculated value = 58.9 fc

Type I - Short - N/A

REPORT NUMBER: P637556

CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637556

CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

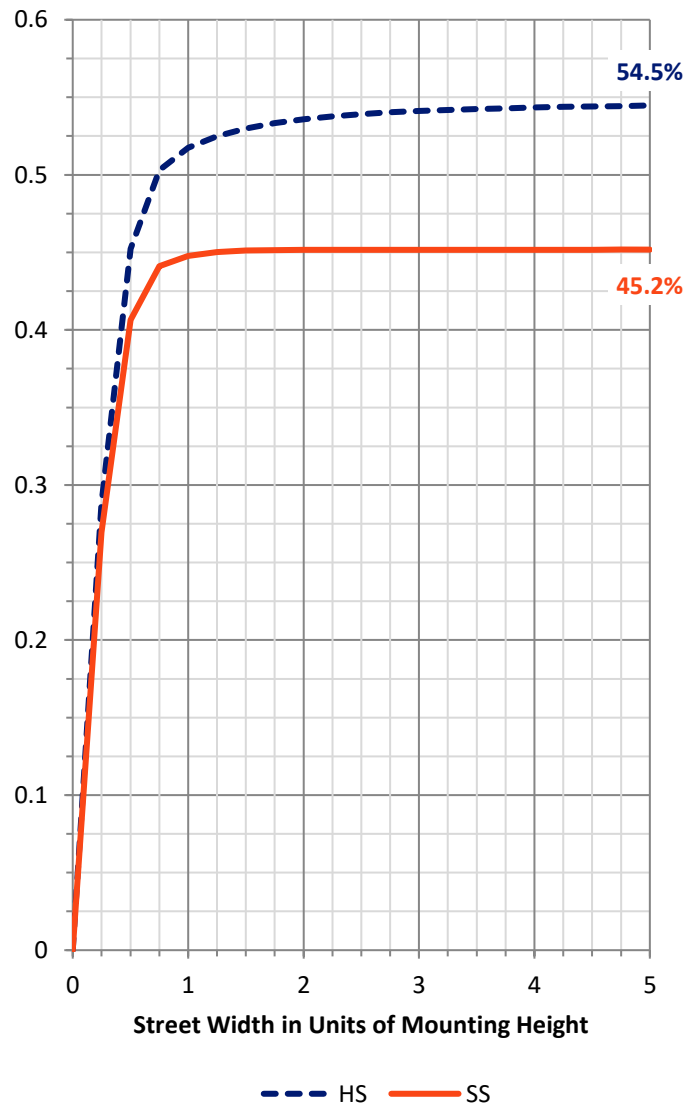
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9185.9	0.0	9185.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7454.1	0.0	7454.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	16640.0	0.0	16640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2210.4	13.3
10°-20°	5731.7	34.4
20°-30°	5251.8	31.6
30°-40°	2121.7	12.8
40°-50°	622.4	3.7
50°-60°	348.0	2.1
60°-70°	211.4	1.3
70°-80°	107.4	0.6
80°-90°	35.1	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°	16640.0	100.0
0°-180°	16640.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637556

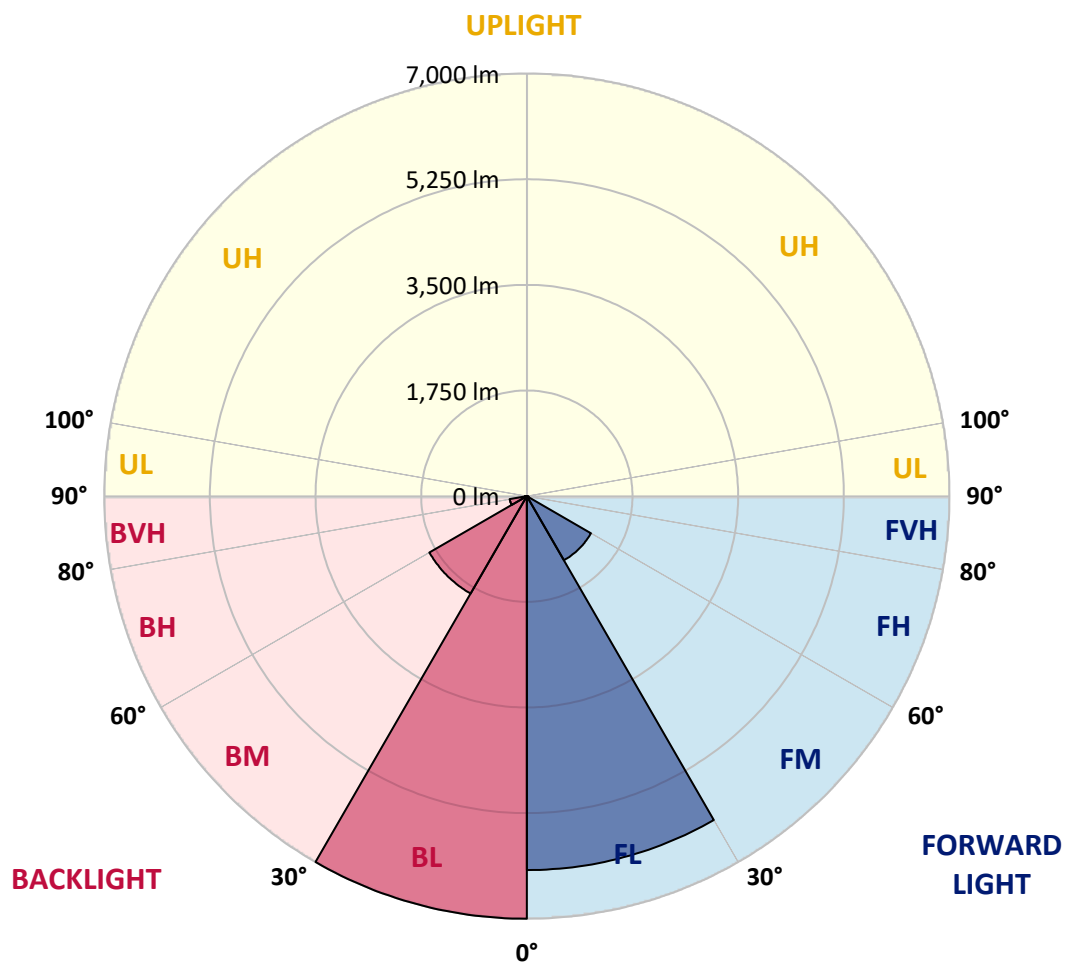
CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6193.8	37.2			
FM	(30°-60°)	1227.5	7.4			
FH	(60°-80°)	29.7	0.2			G0/660
FVH	(80°-90°)	3.0	0.0			G0/10
BL	(0°-30°)	7000.1	42.1	B5		
BM	(30°-60°)	1864.7	11.2	B2/2500		
BH	(60°-80°)	289.0	1.7	B1/500		G1/500
BVH	(80°-90°)	32.1	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 I Short



REPORT NUMBER: P637556

CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7
2.5°	22678.0	22754.8	22601.3	22703.0	22781.6	22969.7	22985.0	23050.3	23073.3	23244.1
5°	22248.2	22307.7	22183.0	22319.2	22430.5	22597.4	22726.0	22906.4	23006.1	23207.6
7.5°	21801.1	21814.6	21789.6	21933.5	22100.5	22330.7	22490.0	22726.0	22787.4	23075.2
10°	21260.1	21162.2	21210.2	21421.2	21670.7	22023.7	22133.1	22369.1	22478.5	22772.0
12.5°	20396.6	20446.5	20387.0	20655.6	20862.9	21263.9	21379.0	21616.9	21826.1	22085.1
15°	19180.1	19151.3	19272.2	19481.3	19705.8	20024.4	20210.5	20469.5	20628.8	20897.4
17.5°	16445.8	16543.7	17042.6	17566.4	18026.9	18399.2	18621.7	18836.6	18951.8	19243.4
20°	14202.8	14080.0	14147.1	14442.6	15753.2	16323.0	16557.1	16608.9	16656.9	16887.2
22.5°	11694.9	11654.7	11879.1	12211.1	12521.9	13836.3	14154.8	14033.9	14133.7	14350.5
25°	8684.4	8887.8	9087.3	9724.4	10127.3	10772.0	11376.4	11430.2	11466.6	11602.8
27.5°	7068.8	6997.8	6993.9	7172.4	7767.2	8304.5	8818.7	8937.7	8916.6	9047.0
30°	5556.8	5533.8	5453.2	5495.4	5435.9	5913.7	6155.4	6644.7	6617.9	6621.7
32.5°	4008.3	3922.0	3889.4	3952.7	3891.3	3847.1	4058.2	4610.8	4601.2	4639.6
35°	2425.3	2413.8	2440.7	2496.3	2373.5	2369.7	2413.8	2933.8	2997.1	3058.5
37.5°	1339.3	1327.8	1348.9	1554.2	1513.9	1477.5	1489.0	1763.4	1945.6	1991.7
40°	882.6	880.7	896.1	932.5	1001.6	988.2	993.9	1116.7	1289.4	1329.7
42.5°	591.0	592.9	602.5	644.7	654.3	723.4	711.9	740.6	901.8	936.4
45°	472.0	470.1	475.9	456.7	468.2	539.2	546.9	548.8	686.9	708.0
47.5°	372.2	372.2	378.0	353.1	347.3	391.4	431.7	437.5	548.8	577.6
50°	261.0	261.0	289.7	278.2	291.7	305.1	349.2	355.0	449.0	479.7
52.5°	191.9	195.7	199.6	201.5	245.6	243.7	282.1	308.9	339.6	393.3
55°	145.8	149.7	140.1	149.7	182.3	203.4	211.1	249.4	270.5	330.0
57.5°	95.9	105.5	97.9	115.1	122.8	157.3	168.9	205.3	218.7	270.5
60°	13.4	15.4	24.9	80.6	86.3	103.6	130.5	163.1	176.5	220.7
62.5°	1.9	1.9	5.8	13.4	57.6	69.1	97.9	113.2	130.5	165.0
65°	0.0	0.0	1.9	3.8	11.5	40.3	49.9	61.4	90.2	119.0
67.5°	0.0	0.0	1.9	3.8	5.8	13.4	21.1	40.3	51.8	82.5
70°	0.0	0.0	1.9	3.8	5.8	7.7	11.5	15.4	30.7	48.0
72.5°	0.0	0.0	1.9	3.8	5.8	7.7	9.6	11.5	13.4	30.7
75°	0.0	0.0	1.9	3.8	5.8	9.6	11.5	11.5	11.5	13.4
77.5°	0.0	0.0	1.9	3.8	7.7	11.5	13.4	11.5	9.6	9.6
80°	0.0	0.0	1.9	5.8	9.6	13.4	15.4	11.5	7.7	5.8
82.5°	0.0	0.0	1.9	5.8	9.6	13.4	15.4	13.4	7.7	5.8
85°	0.0	0.0	1.9	5.8	7.7	9.6	15.4	13.4	7.7	3.8
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	7.7	5.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637556

CATALOG NUMBER: IFLD-S-SA3C-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23180.7	0°	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7	23180.7
23240.2	2.5°	23412.9	23499.3	23650.8	23693.1	23823.5	23673.9	23591.4	23599.0	23420.6
23182.7	5°	23412.9	23610.6	23875.3	24002.0	24097.9	24090.2	24069.1	24015.4	23884.9
23067.5	7.5°	23351.5	23673.9	24038.4	24207.3	24322.4	24312.8	24360.8	24274.4	24115.2
22862.2	10°	23153.9	23434.0	23883.0	24021.2	24207.3	24211.1	24151.6	24168.9	23884.9
22112.0	12.5°	22532.2	22750.9	23144.3	23301.6	23528.0	23564.5	23499.3	23474.3	23205.7
20882.1	15°	21329.1	21455.8	21851.0	22008.4	22232.9	22202.2	22267.4	22240.5	22004.5
19220.4	17.5°	19569.6	19609.9	20024.4	20156.8	20367.8	20450.3	20352.5	20477.2	20273.8
16927.5	20°	17046.4	17263.2	17729.5	17932.9	18055.7	18203.4	18074.9	18215.0	17977.0
14145.2	22.5°	14486.8	14615.3	15037.5	15331.0	15559.4	15588.1	15540.2	15638.0	15317.6
11693.0	25°	11691.1	11904.1	12238.0	12621.7	12846.2	12984.4	12859.6	12923.0	12871.2
9068.1	27.5°	9221.6	9411.6	9663.0	9948.9	10286.6	10466.9	10367.2	10474.6	10221.3
6761.8	30°	6767.5	6863.5	7147.4	7450.6	7820.9	8039.7	8049.3	8158.6	8009.0
4737.5	32.5°	4772.0	4856.4	5031.0	5232.5	5585.6	5829.2	5790.9	5806.2	5714.1
3087.3	35°	3102.7	3215.9	3340.6	3436.5	3649.5	3918.1	3897.0	3877.8	3814.5
2030.1	37.5°	2074.2	2118.3	2187.4	2273.8	2411.9	2580.8	2636.4	2567.3	2540.5
1370.0	40°	1402.6	1479.4	1525.4	1590.7	1655.9	1797.9	1836.3	1822.8	1796.0
959.4	42.5°	995.8	1055.3	1112.9	1176.2	1210.7	1299.0	1373.8	1352.7	1341.2
729.1	45°	756.0	809.7	876.9	924.9	959.4	1011.2	1082.2	1089.9	1072.6
585.2	47.5°	606.3	654.3	708.0	767.5	807.8	840.4	901.8	924.9	913.3
493.1	50°	514.2	550.7	602.5	662.0	706.1	734.9	788.6	813.6	805.9
412.5	52.5°	437.5	481.6	529.6	579.5	633.2	662.0	711.9	748.3	742.6
341.5	55°	362.6	420.2	470.1	520.0	581.4	610.2	654.3	702.3	692.7
289.7	57.5°	316.6	364.6	416.4	464.3	529.6	568.0	608.3	658.1	656.2
237.9	60°	264.8	312.8	370.3	410.6	479.7	533.4	569.9	621.7	625.5
180.4	62.5°	211.1	270.5	314.7	370.3	433.6	497.0	531.5	583.3	602.5
138.2	65°	157.3	222.6	272.5	328.1	387.6	458.6	489.3	541.1	560.3
99.8	67.5°	117.0	166.9	230.3	278.2	345.4	406.8	443.2	491.2	504.6
59.5	70°	88.3	128.6	191.9	234.1	303.2	353.1	389.5	426.0	443.2
40.3	72.5°	51.8	95.9	151.6	201.5	261.0	303.2	330.0	358.8	370.3
19.2	75°	36.5	72.9	119.0	166.9	211.1	245.6	270.5	295.5	307.0
9.6	77.5°	19.2	53.7	94.0	134.3	165.0	193.8	218.7	237.9	245.6
7.7	80°	11.5	38.4	76.8	105.5	126.6	151.6	176.5	190.0	188.0
5.8	82.5°	7.7	30.7	55.6	76.8	92.1	111.3	128.6	138.2	138.2
3.8	85°	5.8	21.1	38.4	59.5	61.4	76.8	80.6	90.2	92.1
3.8	87.5°	3.8	13.4	21.1	34.5	32.6	40.3	42.2	48.0	51.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23180.7
23276.7
23927.2
24151.6
23802.4
23144.3
22079.4
20223.9
17957.8
15273.5
12838.5
10286.6
8035.8
5765.9
3758.9
2534.7
1799.8
1331.6
1070.7
907.6
804.0
738.7
692.7
654.3
625.5
600.6
558.4
504.6
439.4
366.5
303.2
243.7
186.1
136.2
90.2
49.9
0.0

(END OF REPORT)