

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: P636423

Luminaire Tested: **IFLD-S-SA3A-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7207.8 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 94.8
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



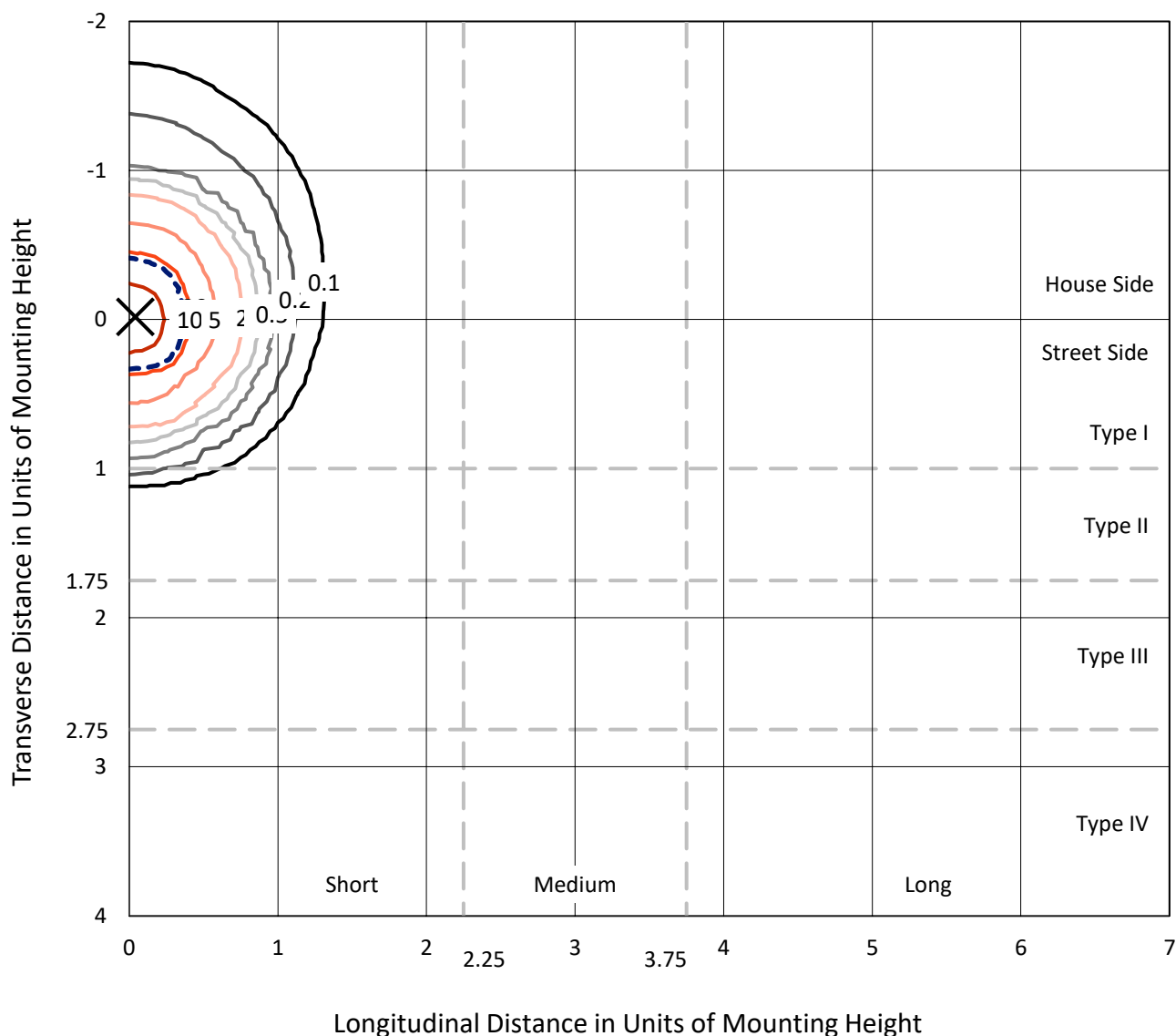
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



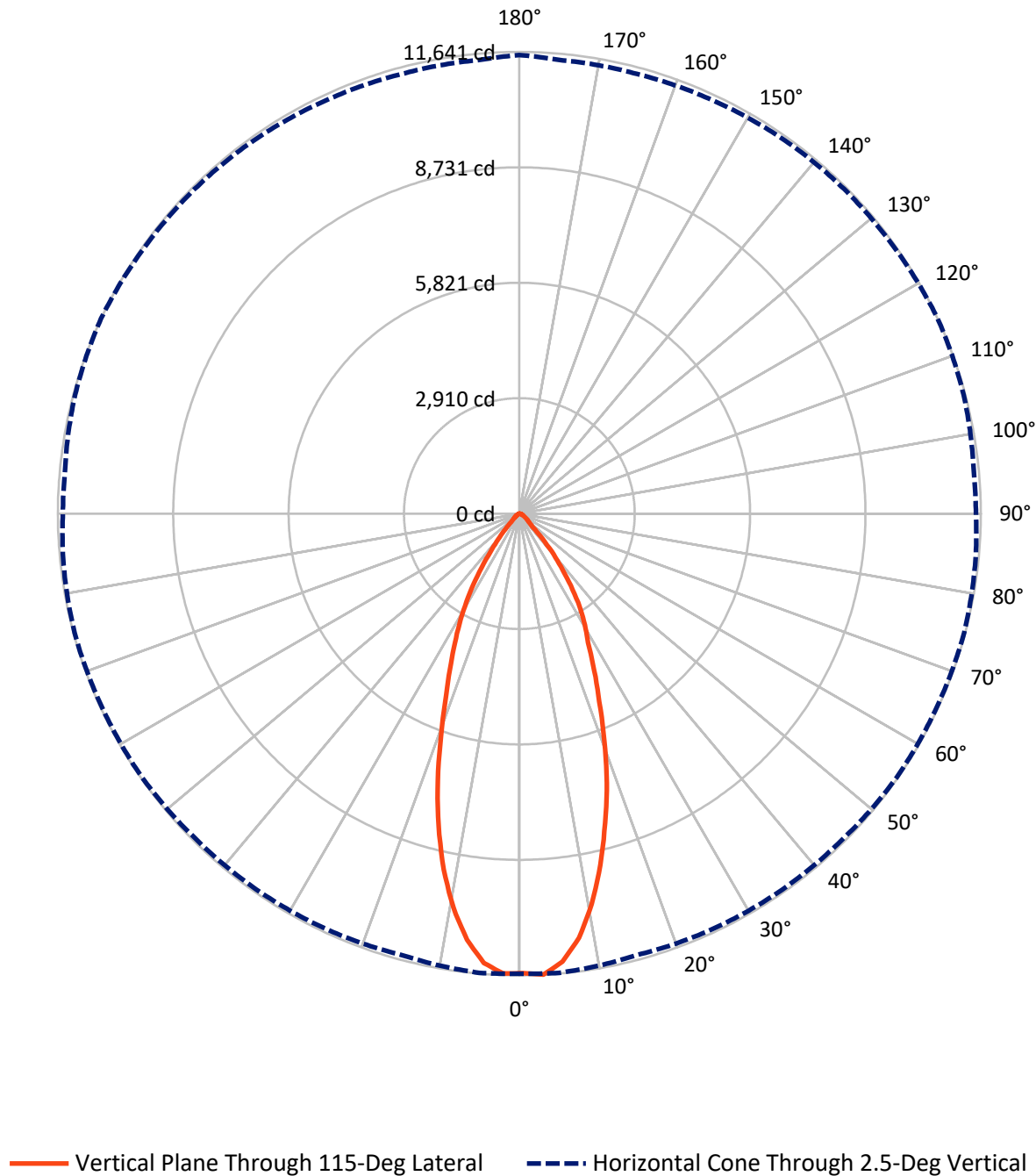
Based on 20 foot mounting height. Maximum calculated value = 29 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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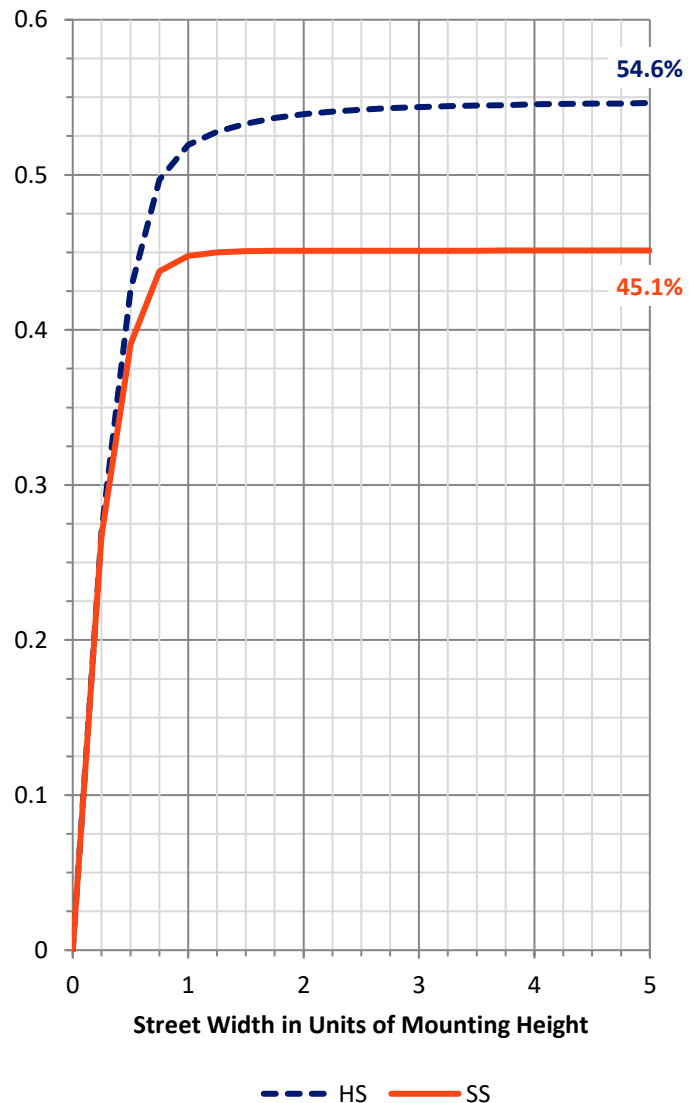
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.9	0.0	3977.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3229.9	0.0	3229.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	7207.8	0.0	7207.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.2	14.4
10°-20°	2196.4	30.5
20°-30°	1982.4	27.5
30°-40°	1311.9	18.2
40°-50°	393.0	5.5
50°-60°	157.6	2.2
60°-70°	81.6	1.1
70°-80°	35.4	0.5
80°-90°	10.3	0.1
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°	7207.8	100.0
0°-180°	7207.8	100.0

Coefficient of Utilization



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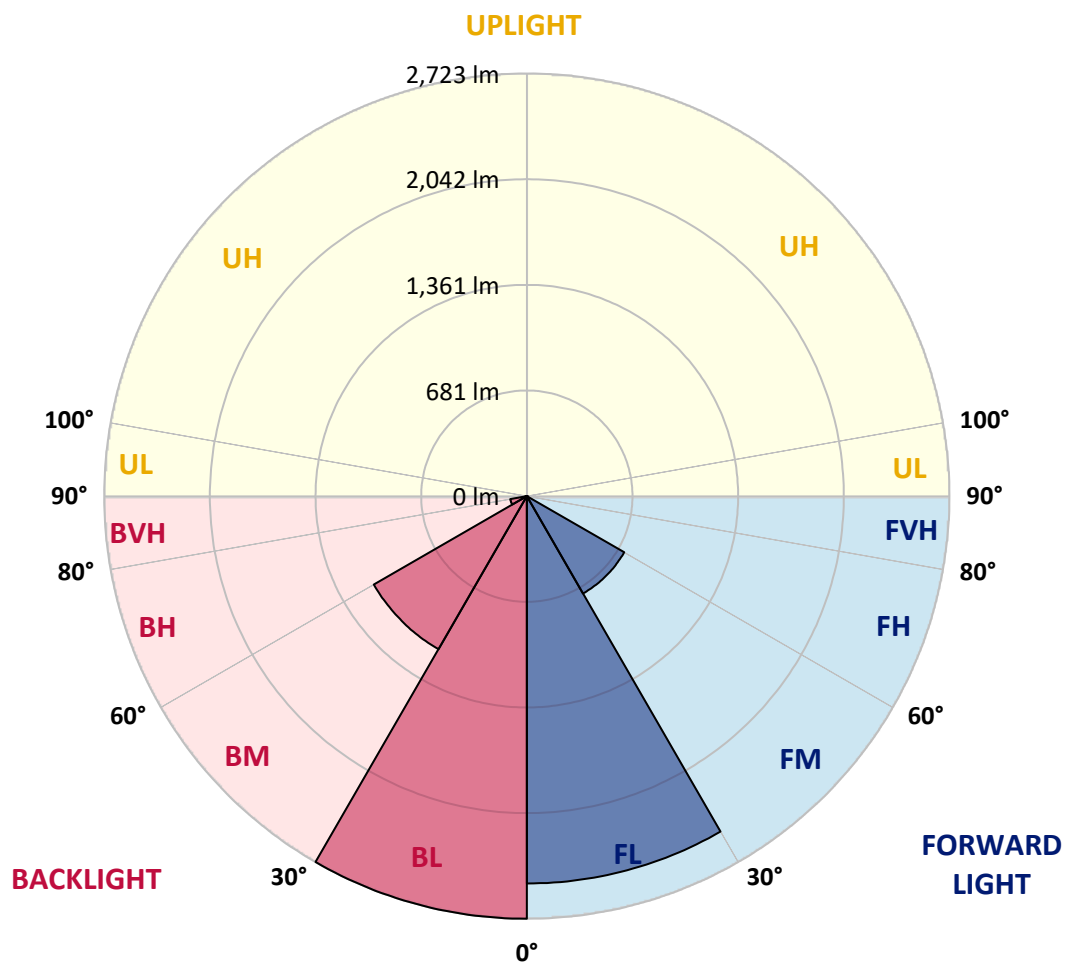
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.4	34.6			
FM	(30°-60°)	724.1	10.0			
FH	(60°-80°)	9.0	0.1			G0/660
FVH	(80°-90°)	1.5	0.0			G0/10
BL	(0°-30°)	2722.6	37.8	B4/5000		
BM	(30°-60°)	1138.4	15.8	B2/2500		
BH	(60°-80°)	108.1	1.5	B0/110		G0/110
BVH	(80°-90°)	8.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6
2.5°	11601.3	11621.9	11518.8	11554.1	11568.9	11573.3	11610.2	11604.3	11614.6	11560.0
5°	11448.0	11408.2	11331.5	11333.0	11328.6	11287.3	11371.3	11365.5	11347.8	11282.9
7.5°	10926.2	10983.7	10839.2	10836.2	10833.3	10783.2	10893.7	10825.9	10840.7	10747.8
10°	10162.6	10169.9	10041.7	10029.9	10040.2	9975.4	10103.6	10077.1	10105.1	10007.8
12.5°	9226.5	9267.8	9126.3	9105.6	9146.9	9055.5	9158.7	9172.0	9130.7	9117.4
15°	7236.4	7345.5	7613.8	8023.6	8129.8	8053.1	8135.7	8134.2	8151.9	8051.6
17.5°	5513.2	5523.5	5460.1	5656.2	6791.3	7159.8	7177.5	7037.4	6931.3	6894.5
20°	4813.0	4848.4	4790.9	4807.1	4988.4	6068.9	6110.2	5899.4	5718.1	5703.4
22.5°	4255.8	4277.9	4236.6	4249.9	4258.7	4385.5	5103.4	4917.7	4830.7	4764.4
25°	3784.1	3784.1	3762.0	3766.4	3757.5	3570.3	3938.8	4151.1	4101.0	4077.4
27.5°	3353.6	3359.5	3331.5	3347.7	3240.1	2937.9	2893.7	3520.2	3467.1	3424.4
30°	2945.3	2964.5	2937.9	2946.8	2712.4	2464.7	2338.0	2936.4	3002.8	2991.0
32.5°	2217.1	2304.0	2517.8	2526.6	2208.2	2018.1	1962.1	2357.1	2609.2	2587.1
35°	1373.9	1369.5	1378.3	1802.8	1693.8	1564.0	1584.7	1780.7	2065.2	2054.9
37.5°	1048.1	1046.6	1062.8	1020.1	1110.0	1186.7	1202.9	1202.9	1508.0	1509.5
40°	794.5	788.7	787.2	719.4	602.9	890.4	863.8	841.7	1048.1	1070.2
42.5°	507.1	524.8	511.5	437.8	393.6	486.5	542.5	524.8	647.1	663.4
45°	283.0	283.0	271.2	230.0	228.5	246.2	309.6	288.9	331.7	353.8
47.5°	137.1	134.1	147.4	181.3	188.7	182.8	221.1	230.0	250.6	271.2
50°	110.6	110.6	104.7	94.3	156.3	150.4	163.6	175.4	187.2	204.9
52.5°	92.9	92.9	85.5	79.6	89.9	115.0	116.5	138.6	137.1	162.2
55°	47.2	48.6	69.3	69.3	60.4	94.3	95.8	112.0	115.0	135.6
57.5°	4.4	5.9	8.8	42.7	47.2	51.6	72.2	82.6	95.8	104.7
60°	1.5	1.5	2.9	5.9	28.0	35.4	45.7	54.5	66.3	87.0
62.5°	0.0	0.0	1.5	2.9	5.9	22.1	25.1	28.0	39.8	54.5
65°	0.0	0.0	1.5	1.5	2.9	7.4	10.3	17.7	25.1	33.9
67.5°	0.0	0.0	1.5	1.5	2.9	4.4	5.9	8.8	11.8	22.1
70°	0.0	0.0	1.5	1.5	2.9	4.4	4.4	5.9	7.4	10.3
72.5°	0.0	0.0	1.5	1.5	2.9	5.9	4.4	4.4	5.9	7.4
75°	0.0	0.0	1.5	1.5	2.9	4.4	4.4	4.4	4.4	4.4
77.5°	0.0	0.0	1.5	1.5	2.9	4.4	4.4	4.4	2.9	2.9
80°	0.0	0.0	1.5	1.5	2.9	4.4	5.9	5.9	2.9	2.9
82.5°	0.0	0.0	1.5	2.9	2.9	7.4	8.8	7.4	2.9	1.5
85°	0.0	0.0	1.5	1.5	4.4	7.4	7.4	4.4	2.9	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	4.4	4.4	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11586.6	0°	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6	11586.6
11515.8	2.5°	11509.9	11599.8	11641.1	11598.4	11577.7	11548.2	11505.5	11476.0	11481.9
11247.5	5°	11222.5	11316.8	11349.2	11312.4	11281.4	11265.2	11257.8	11272.6	11310.9
10708.0	7.5°	10705.0	10765.5	10800.9	10783.2	10740.4	10789.1	10802.3	10793.5	10849.5
9978.3	10°	9981.3	10047.6	10015.2	10022.5	9972.4	9997.5	9990.1	10022.5	10078.5
9107.1	12.5°	9048.1	9111.5	9086.5	9082.0	9029.0	9076.1	9046.7	9082.0	9155.7
8010.4	15°	8067.9	8107.7	8091.4	8066.4	8019.2	8035.4	8126.8	8120.9	8153.3
6872.3	17.5°	6842.9	7034.5	7139.2	7161.3	7122.9	7155.4	7220.2	7204.0	7277.7
5672.4	20°	5662.1	5855.2	6113.2	6322.5	6326.9	6331.3	6372.6	6382.9	6446.3
4765.8	22.5°	4745.2	4882.3	5159.4	5436.5	5628.2	5668.0	5663.6	5678.3	5696.0
4045.0	25°	4034.7	4134.9	4388.5	4580.1	4916.2	5028.2	5060.6	5028.2	5038.5
3409.6	27.5°	3448.0	3601.3	3685.3	3890.2	4218.9	4478.4	4468.1	4448.9	4451.8
2967.4	30°	2965.9	3131.0	3254.9	3316.8	3564.4	3938.8	3977.2	3922.6	3924.1
2576.8	32.5°	2560.5	2612.1	2794.9	2845.0	3004.3	3344.8	3476.0	3434.7	3427.3
2060.8	35°	2121.3	2149.3	2233.3	2332.1	2426.4	2684.4	2901.1	2862.7	2881.9
1515.4	37.5°	1509.5	1624.5	1705.6	1786.6	1854.4	2016.6	2277.5	2242.1	2261.3
1073.2	40°	1064.3	1115.9	1255.9	1291.3	1391.6	1466.7	1687.9	1676.1	1699.7
666.3	42.5°	654.5	691.4	762.1	796.0	863.8	906.6	1036.3	1051.0	1082.0
368.5	45°	371.5	387.7	436.3	473.2	523.3	541.0	586.7	607.3	625.0
286.0	47.5°	283.0	300.7	333.2	365.6	406.9	421.6	454.0	485.0	501.2
221.1	50°	231.4	247.7	281.6	308.1	349.4	362.6	389.2	423.1	443.7
168.0	52.5°	175.4	199.0	240.3	268.3	311.0	327.3	352.3	386.2	405.4
138.6	55°	144.5	162.2	199.0	237.3	277.1	299.2	315.5	356.7	377.4
113.5	57.5°	123.8	137.1	160.7	206.4	240.3	272.7	286.0	324.3	344.9
89.9	60°	94.3	115.0	135.6	171.0	209.3	243.2	258.0	291.9	308.1
64.9	62.5°	78.1	91.4	117.9	137.1	179.8	215.2	230.0	260.9	272.7
42.7	65°	54.5	73.7	98.8	110.6	150.4	184.3	204.9	228.5	240.3
25.1	67.5°	32.4	54.5	78.1	94.3	122.4	156.3	178.4	200.5	210.8
14.7	70°	20.6	42.7	61.9	79.6	95.8	128.2	154.8	173.9	169.5
8.8	72.5°	11.8	26.5	45.7	64.9	79.6	107.6	132.7	147.4	104.7
5.9	75°	7.4	19.2	38.3	53.1	64.9	85.5	109.1	112.0	64.9
2.9	77.5°	5.9	14.7	29.5	42.7	44.2	63.4	76.7	87.0	48.6
2.9	80°	2.9	11.8	25.1	35.4	28.0	44.2	59.0	67.8	38.3
1.5	82.5°	2.9	7.4	19.2	25.1	20.6	33.9	42.7	48.6	32.4
1.5	85°	1.5	5.9	10.3	14.7	14.7	22.1	19.2	23.6	20.6
1.5	87.5°	1.5	2.9	5.9	7.4	5.9	8.8	10.3	10.3	8.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11586.6
11561.5
11390.5
10905.5
10100.7
9169.0
8160.7
7265.9
6433.1
5663.6
5022.3
4456.3
3925.6
3445.0
2899.6
2277.5
1708.5
1117.4
623.6
508.6
452.6
418.6
383.3
353.8
311.0
274.2
240.3
209.3
156.3
92.9
60.4
48.6
39.8
35.4
20.6
7.4
0.0

(END OF REPORT)