

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: P636463

Luminaire Tested: **IFLD-M-SA4B-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12095.5 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 166.1
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



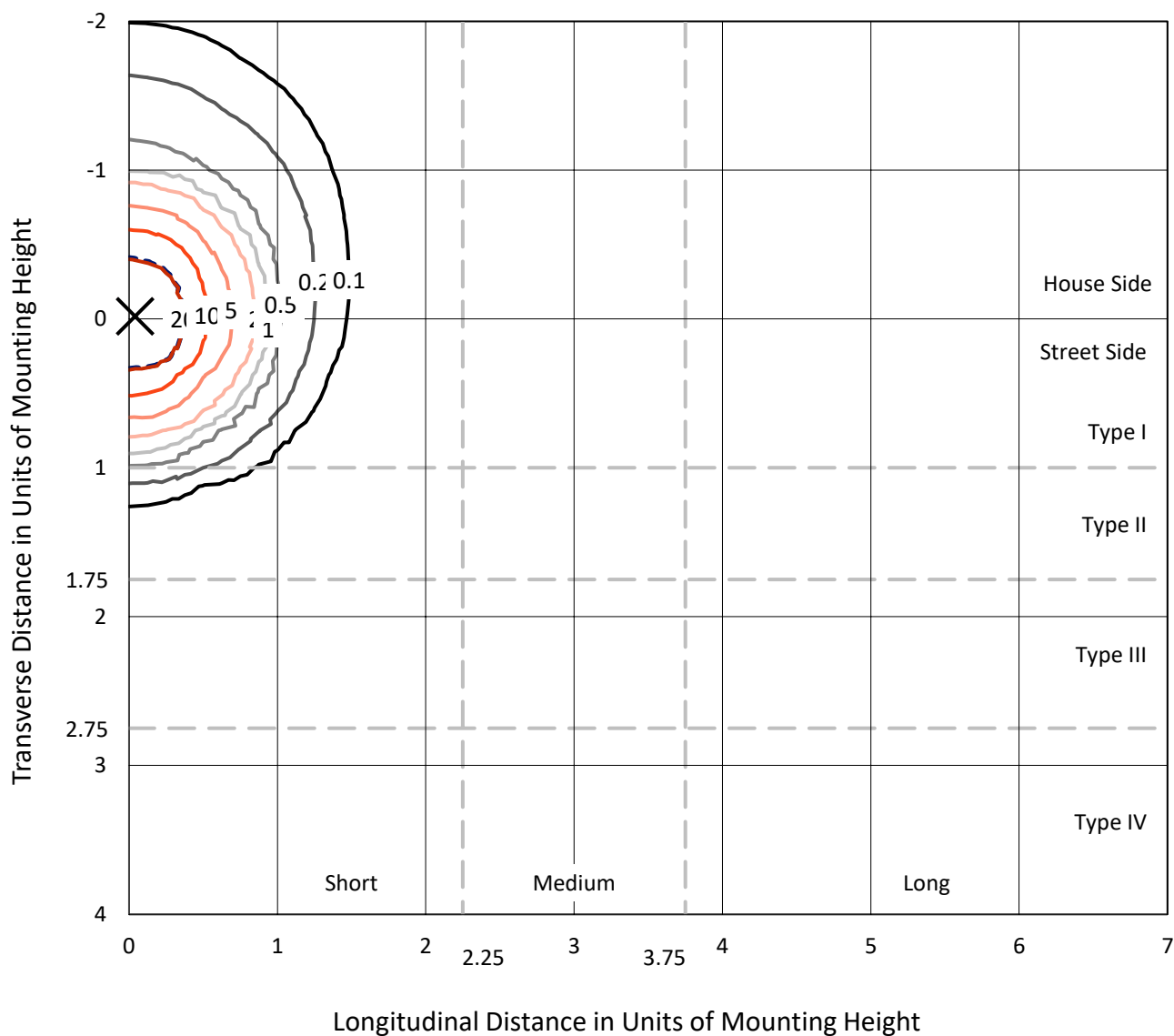
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

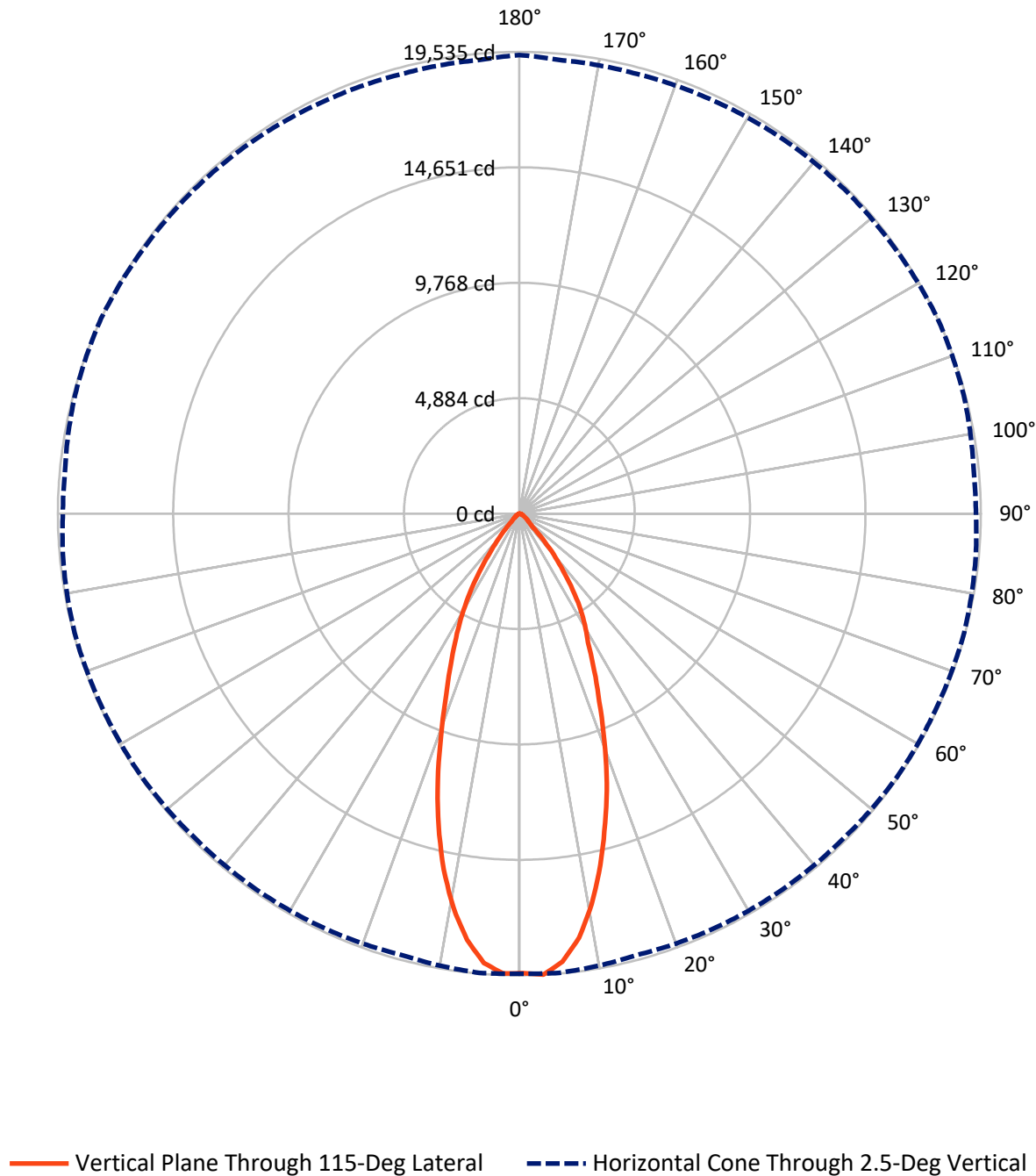


Based on 20 foot mounting height. Maximum calculated value = 48.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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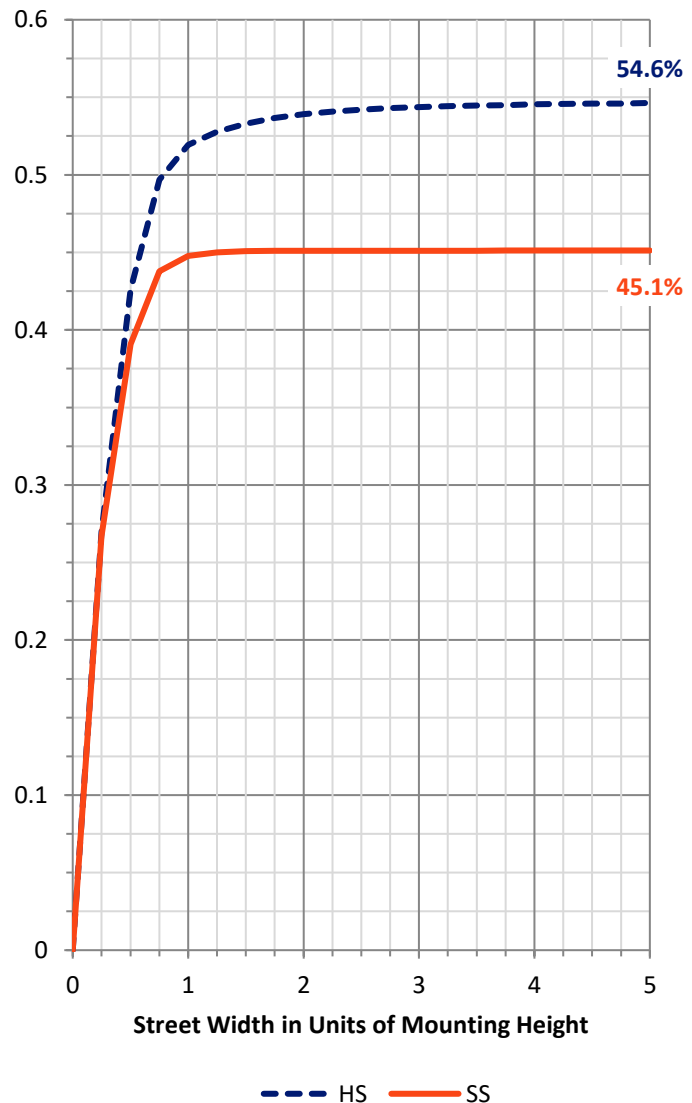
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6675.3	0.0	6675.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5420.2	0.0	5420.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	12095.5	0.0	12095.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1743.9	14.4
10°-20°	3685.8	30.5
20°-30°	3326.6	27.5
30°-40°	2201.4	18.2
40°-50°	659.5	5.5
50°-60°	264.5	2.2
60°-70°	137.0	1.1
70°-80°	59.5	0.5
80°-90°	17.3	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°	12095.5	100.0
0°-180°	12095.5	100.0

Coefficient of Utilization



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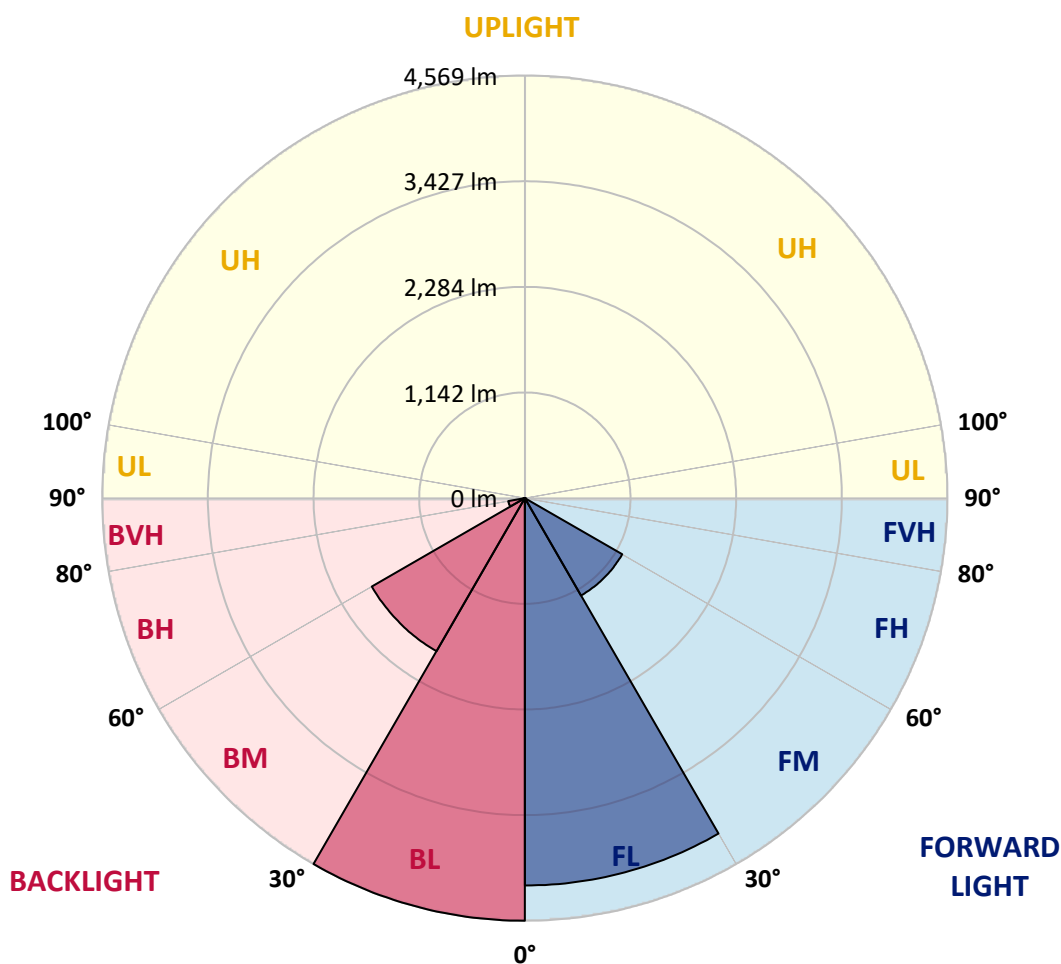
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4187.6	34.6			
FM	(30°-60°)	1215.1	10.0			
FH	(60°-80°)	15.0	0.1			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	4568.8	37.8	B4/5000		
BM	(30°-60°)	1910.3	15.8	B2/2500		
BH	(60°-80°)	181.4	1.5	B1/500		G1/500
BVH	(80°-90°)	14.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6
2.5°	19468.3	19503.0	19329.8	19389.2	19413.9	19421.3	19483.2	19473.3	19490.6	19399.1
5°	19211.0	19144.3	19015.6	19018.1	19010.7	18941.4	19082.4	19072.5	19042.8	18934.0
7.5°	18335.3	18431.8	18189.4	18184.4	18179.5	18095.4	18280.9	18167.1	18191.9	18036.0
10°	17053.9	17066.3	16851.1	16831.3	16848.6	16739.8	16955.0	16910.5	16957.5	16794.2
12.5°	15483.1	15552.4	15314.9	15280.3	15349.5	15196.2	15369.3	15391.6	15322.3	15300.1
15°	12143.6	12326.6	12776.9	13464.6	13642.7	13514.0	13652.6	13650.1	13679.8	13511.6
17.5°	9251.8	9269.1	9162.7	9491.7	11396.5	12014.9	12044.6	11809.6	11631.5	11569.7
20°	8076.8	8136.1	8039.6	8066.9	8371.1	10184.4	10253.6	9899.9	9595.6	9570.9
22.5°	7141.7	7178.8	7109.5	7131.8	7146.6	7359.4	8564.1	8252.4	8106.4	7995.1
25°	6350.1	6350.1	6313.0	6320.4	6305.6	5991.4	6609.8	6966.0	6881.9	6842.4
27.5°	5627.8	5637.6	5590.6	5617.9	5437.3	4930.2	4855.9	5907.3	5818.2	5746.5
30°	4942.5	4974.7	4930.2	4945.0	4551.7	4136.1	3923.3	4927.7	5039.0	5019.2
32.5°	3720.5	3866.5	4225.1	4240.0	3705.7	3386.5	3292.5	3955.5	4378.5	4341.4
35°	2305.5	2298.1	2312.9	3025.4	2842.3	2624.6	2659.3	2988.3	3465.7	3448.4
37.5°	1758.8	1756.4	1783.6	1711.8	1862.7	1991.4	2018.6	2018.6	2530.6	2533.1
40°	1333.3	1323.4	1321.0	1207.2	1011.8	1494.1	1449.6	1412.5	1758.8	1795.9
42.5°	851.0	880.7	858.4	734.7	660.5	816.3	910.3	880.7	1086.0	1113.2
45°	475.0	475.0	455.2	385.9	383.4	413.1	519.5	484.9	556.6	593.7
47.5°	230.1	225.1	247.4	304.3	316.6	306.7	371.1	385.9	420.5	455.2
50°	185.5	185.5	175.6	158.3	262.2	252.3	274.6	294.4	314.2	343.8
52.5°	155.8	155.8	143.5	133.6	150.9	193.0	195.4	232.5	230.1	272.1
55°	79.2	81.6	116.3	116.3	101.4	158.3	160.8	188.0	193.0	227.6
57.5°	7.4	9.9	14.8	71.7	79.2	86.6	121.2	138.5	160.8	175.6
60°	2.5	2.5	4.9	9.9	47.0	59.4	76.7	91.5	111.3	146.0
62.5°	0.0	0.0	2.5	4.9	9.9	37.1	42.1	47.0	66.8	91.5
65°	0.0	0.0	2.5	2.5	4.9	12.4	17.3	29.7	42.1	56.9
67.5°	0.0	0.0	2.5	2.5	4.9	7.4	9.9	14.8	19.8	37.1
70°	0.0	0.0	2.5	2.5	4.9	7.4	7.4	9.9	12.4	17.3
72.5°	0.0	0.0	2.5	2.5	4.9	9.9	7.4	7.4	9.9	12.4
75°	0.0	0.0	2.5	2.5	4.9	7.4	7.4	7.4	7.4	7.4
77.5°	0.0	0.0	2.5	2.5	4.9	7.4	7.4	7.4	4.9	4.9
80°	0.0	0.0	2.5	2.5	4.9	7.4	9.9	9.9	4.9	4.9
82.5°	0.0	0.0	2.5	4.9	4.9	12.4	14.8	12.4	4.9	2.5
85°	0.0	0.0	2.5	2.5	7.4	12.4	12.4	7.4	4.9	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	4.9	7.4	7.4	2.5	2.5
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°
19443.6	0°	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6	19443.6
19324.8	2.5°	19314.9	19465.8	19535.1	19463.4	19428.7	19379.3	19307.5	19258.1	19267.9
18874.6	5°	18832.6	18990.9	19045.3	18983.5	18931.5	18904.3	18891.9	18916.7	18981.0
17969.2	7.5°	17964.3	18065.7	18125.1	18095.4	18023.7	18105.3	18127.6	18112.7	18206.7
16744.7	10°	16749.7	16861.0	16806.6	16818.9	16734.8	16776.9	16764.5	16818.9	16912.9
15282.8	12.5°	15183.8	15290.2	15248.1	15240.7	15151.6	15230.8	15181.3	15240.7	15364.4
13442.3	15°	13538.8	13605.6	13578.3	13536.3	13457.1	13484.3	13637.7	13627.8	13682.2
11532.6	17.5°	11483.1	11804.7	11980.3	12017.4	11953.1	12007.5	12116.4	12089.2	12212.8
9518.9	20°	9501.6	9825.7	10258.6	10609.9	10617.3	10624.7	10694.0	10711.3	10817.7
7997.6	22.5°	7963.0	8193.0	8658.1	9123.1	9444.7	9511.5	9504.1	9528.8	9558.5
6787.9	25°	6770.6	6938.8	7364.3	7685.9	8249.9	8437.9	8492.3	8437.9	8455.2
5721.8	27.5°	5786.1	6043.3	6184.3	6528.2	7079.8	7515.2	7497.9	7465.7	7470.7
4979.6	30°	4977.2	5254.2	5462.0	5565.9	5981.5	6609.8	6674.1	6582.6	6585.1
4324.1	32.5°	4296.9	4383.5	4690.2	4774.3	5041.5	5612.9	5833.1	5763.8	5751.4
3458.3	35°	3559.7	3606.7	3747.7	3913.5	4071.8	4504.7	4868.3	4804.0	4836.2
2543.0	37.5°	2533.1	2726.1	2862.1	2998.2	3112.0	3384.1	3821.9	3762.6	3794.7
1800.9	40°	1786.0	1872.6	2107.6	2167.0	2335.2	2461.4	2832.4	2812.6	2852.2
1118.1	42.5°	1098.3	1160.2	1278.9	1335.8	1449.6	1521.3	1739.0	1763.8	1815.7
618.4	45°	623.4	650.6	732.2	794.1	878.2	907.9	984.5	1019.2	1048.9
479.9	47.5°	475.0	504.6	559.1	613.5	682.8	707.5	761.9	813.9	841.1
371.1	50°	388.4	415.6	472.5	517.0	586.3	608.5	653.1	710.0	744.6
282.0	52.5°	294.4	334.0	403.2	450.2	522.0	549.2	591.2	648.1	680.3
232.5	55°	242.4	272.1	334.0	398.3	465.1	502.2	529.4	598.6	633.3
190.5	57.5°	207.8	230.1	269.6	346.3	403.2	457.6	479.9	544.2	578.9
150.9	60°	158.3	193.0	227.6	287.0	351.3	408.2	432.9	489.8	517.0
108.8	62.5°	131.1	153.4	197.9	230.1	301.8	361.2	385.9	437.9	457.6
71.7	65°	91.5	123.7	165.7	185.5	252.3	309.2	343.8	383.4	403.2
42.1	67.5°	54.4	91.5	131.1	158.3	205.3	262.2	299.3	336.4	353.7
24.7	70°	34.6	71.7	103.9	133.6	160.8	215.2	259.7	291.9	284.5
14.8	72.5°	19.8	44.5	76.7	108.8	133.6	180.6	222.6	247.4	175.6
9.9	75°	12.4	32.2	64.3	89.1	108.8	143.5	183.1	188.0	108.8
4.9	77.5°	9.9	24.7	49.5	71.7	74.2	106.4	128.6	146.0	81.6
4.9	80°	4.9	19.8	42.1	59.4	47.0	74.2	98.9	113.8	64.3
2.5	82.5°	4.9	12.4	32.2	42.1	34.6	56.9	71.7	81.6	54.4
2.5	85°	2.5	9.9	17.3	24.7	24.7	37.1	32.2	39.6	34.6
2.5	87.5°	2.5	4.9	9.9	12.4	9.9	14.8	17.3	17.3	14.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19443.6
19401.5
19114.6
18300.7
16950.1
15386.7
13694.6
12193.1
10795.4
9504.1
8428.0
7478.1
6587.6
5781.1
4865.8
3821.9
2867.1
1875.1
1046.4
853.4
759.4
702.5
643.2
593.7
522.0
460.1
403.2
351.3
262.2
155.8
101.4
81.6
66.8
59.4
34.6
12.4
0.0

(END OF REPORT)