

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: P636425

Luminaire Tested: **IFLD-S-SA3C-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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: 11096.8 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - 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

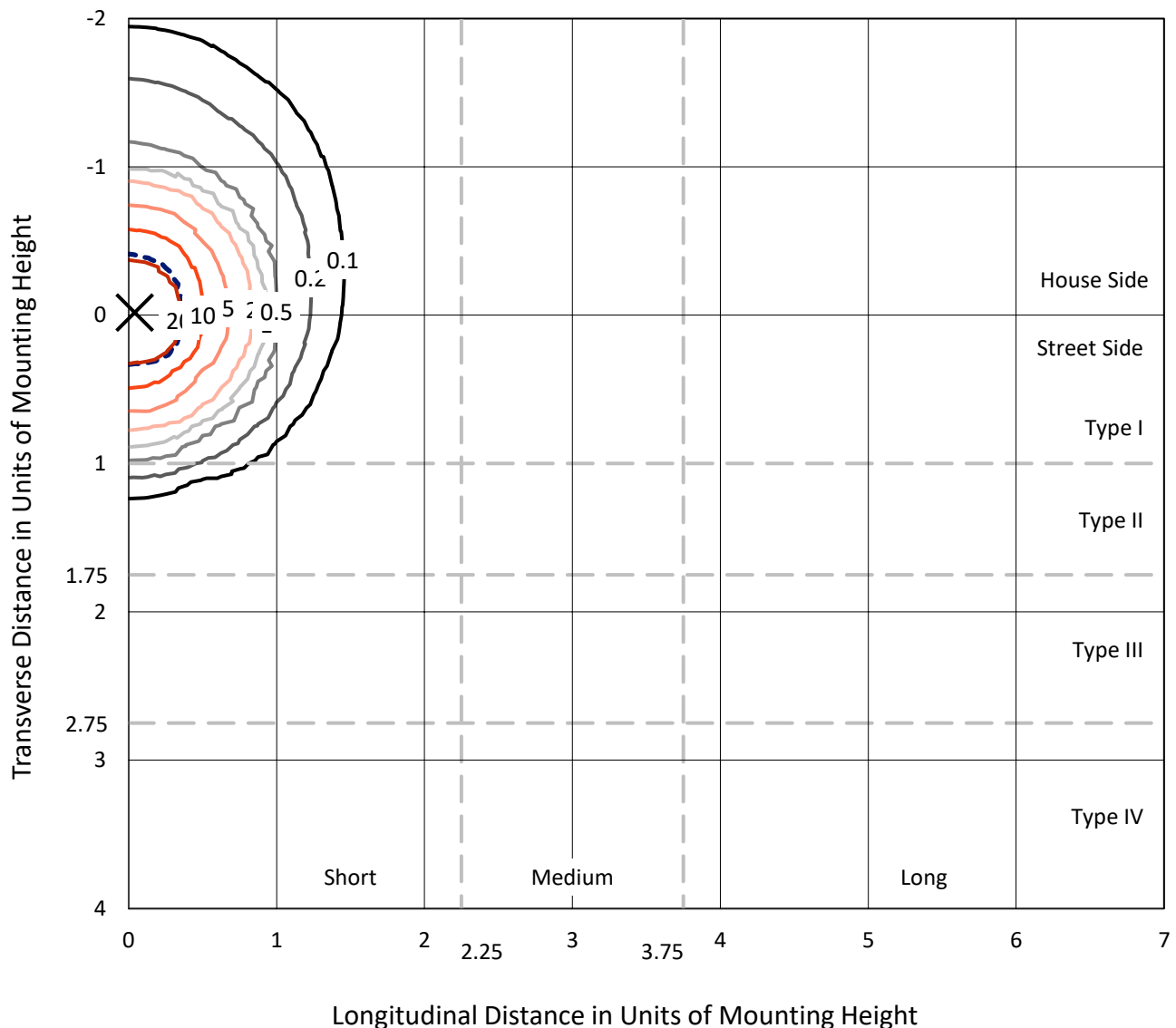


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

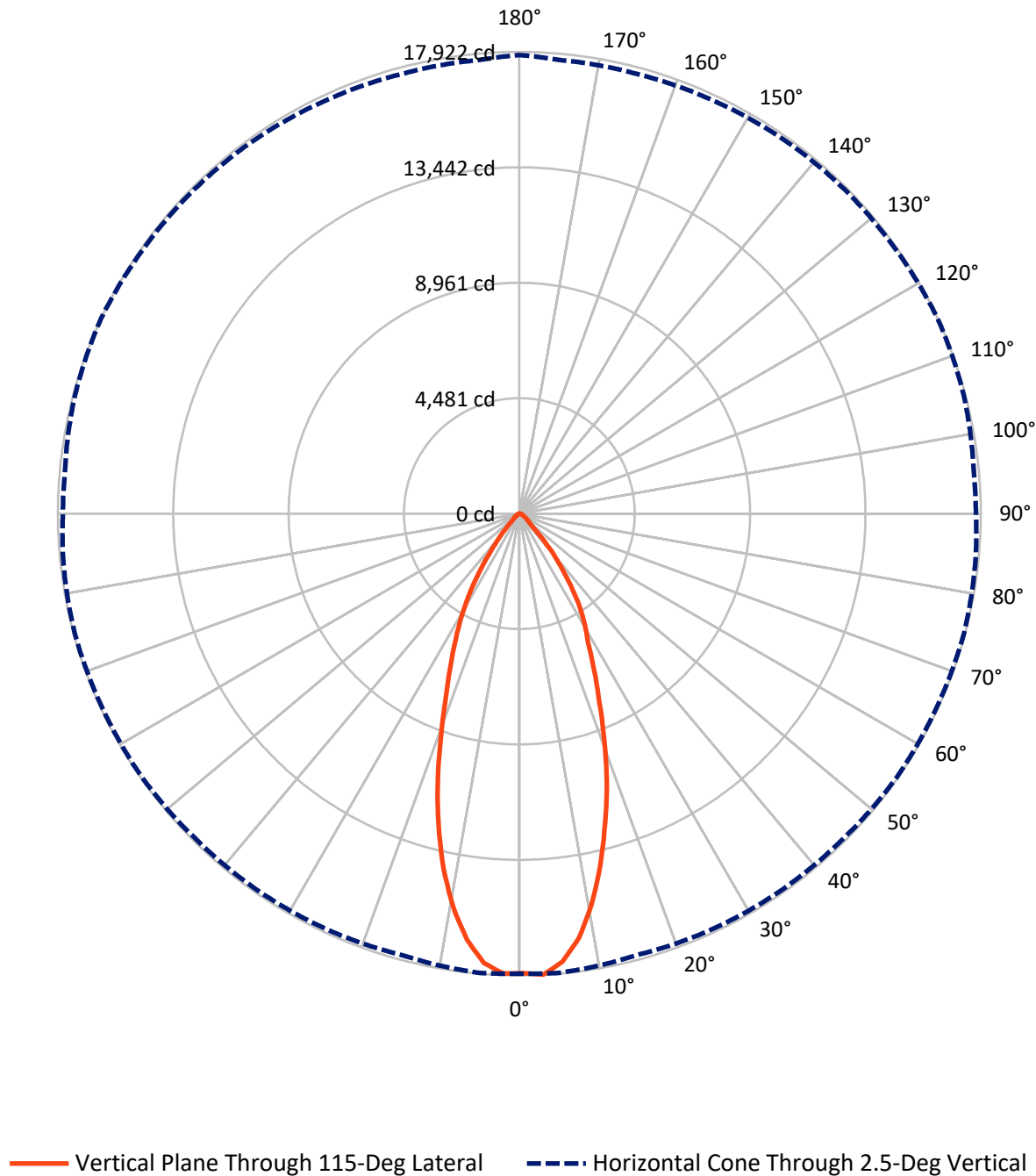


Based on 20 foot mounting height. Maximum calculated value = 44.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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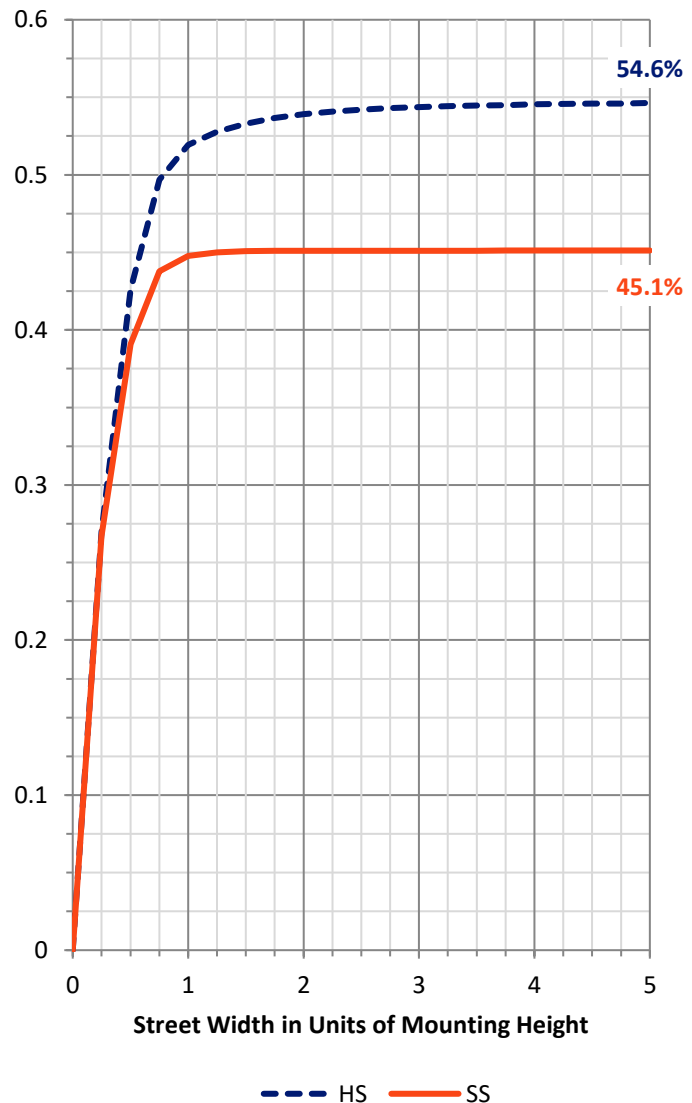
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6124.2	0.0	6124.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4972.7	0.0	4972.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	11096.8	0.0	11096.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1599.9	14.4
10°-20°	3381.4	30.5
20°-30°	3052.0	27.5
30°-40°	2019.7	18.2
40°-50°	605.0	5.5
50°-60°	242.7	2.2
60°-70°	125.7	1.1
70°-80°	54.6	0.5
80°-90°	15.9	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°	11096.8	100.0
0°-180°	11096.8	100.0

Coefficient of Utilization



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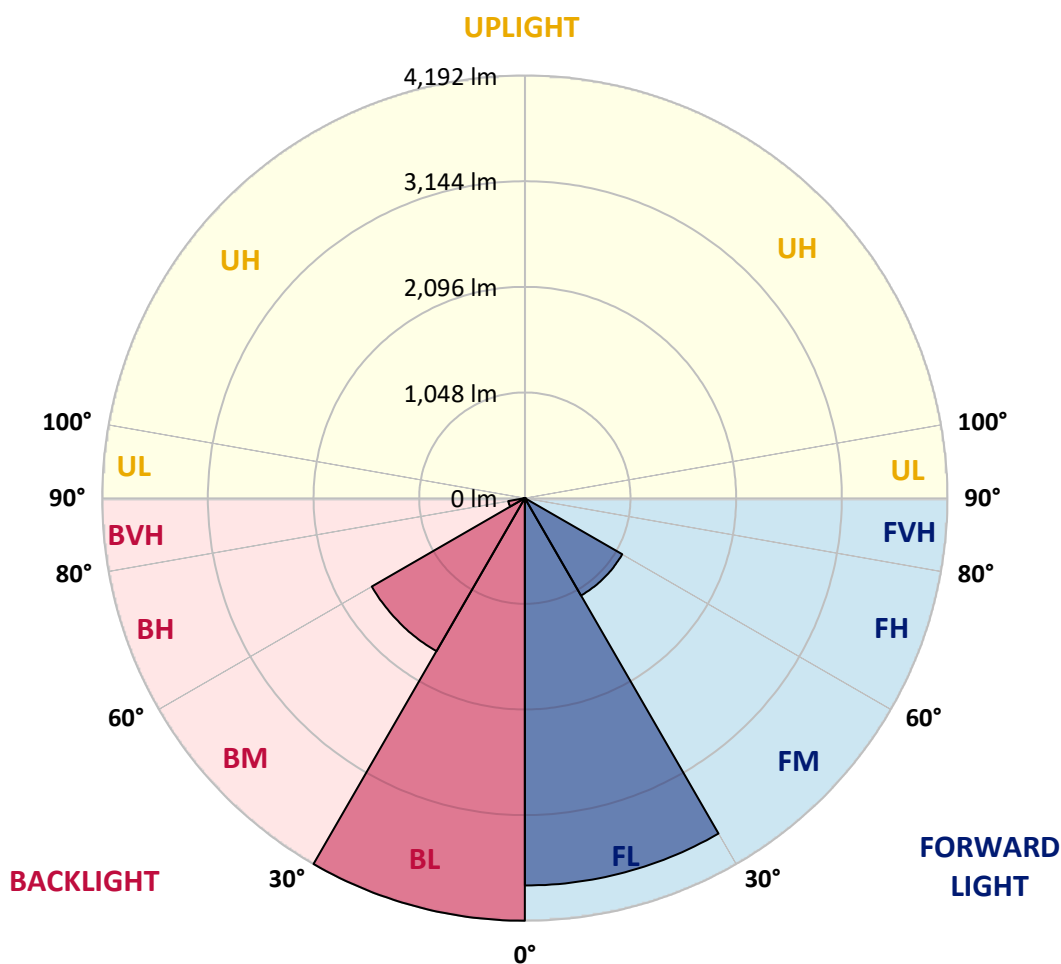
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3841.8	34.6			
FM	(30°-60°)	1114.8	10.0			
FH	(60°-80°)	13.8	0.1			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	4191.6	37.8	B4/5000		
BM	(30°-60°)	1752.6	15.8	B2/2500		
BH	(60°-80°)	166.4	1.5	B1/500		G1/500
BVH	(80°-90°)	13.6	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°	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1
2.5°	17860.8	17892.6	17733.7	17788.2	17810.9	17817.7	17874.5	17865.4	17881.3	17797.3
5°	17624.8	17563.5	17445.5	17447.8	17441.0	17377.4	17506.8	17497.7	17470.5	17370.6
7.5°	16821.4	16909.9	16687.5	16683.0	16678.4	16601.3	16771.5	16667.1	16689.8	16546.8
10°	15645.8	15657.2	15459.7	15441.6	15457.5	15357.6	15555.0	15514.2	15557.3	15407.5
12.5°	14204.7	14268.2	14050.4	14018.6	14082.1	13941.4	14100.3	14120.7	14057.2	14036.8
15°	11140.9	11308.8	11721.9	12352.8	12516.2	12398.2	12525.3	12523.0	12550.2	12395.9
17.5°	8487.9	8503.8	8406.2	8708.0	10455.5	11022.9	11050.1	10834.5	10671.1	10614.4
20°	7409.9	7464.3	7375.8	7400.8	7679.9	9343.5	9407.0	9082.5	8803.3	8780.6
22.5°	6552.0	6586.0	6522.5	6542.9	6556.5	6751.7	7857.0	7571.0	7437.1	7335.0
25°	5825.8	5825.8	5791.7	5798.5	5784.9	5496.7	6064.1	6390.9	6313.7	6277.4
27.5°	5163.1	5172.2	5129.0	5154.0	4988.3	4523.1	4455.0	5419.5	5337.8	5272.0
30°	4534.4	4563.9	4523.1	4536.7	4175.8	3794.6	3599.4	4520.8	4622.9	4604.8
32.5°	3413.3	3547.2	3876.3	3889.9	3399.7	3106.9	3020.7	3628.9	4017.0	3982.9
35°	2115.2	2108.4	2122.0	2775.6	2607.6	2407.9	2439.7	2741.5	3179.5	3163.7
37.5°	1613.6	1611.3	1636.3	1570.5	1708.9	1826.9	1851.9	1851.9	2321.7	2324.0
40°	1223.3	1214.2	1211.9	1107.5	928.2	1370.8	1329.9	1295.9	1613.6	1647.6
42.5°	780.7	807.9	787.5	674.0	606.0	748.9	835.2	807.9	996.3	1021.3
45°	435.7	435.7	417.6	354.0	351.8	379.0	476.6	444.8	510.6	544.7
47.5°	211.1	206.5	226.9	279.1	290.5	281.4	340.4	354.0	385.8	417.6
50°	170.2	170.2	161.1	145.2	240.6	231.5	251.9	270.1	288.2	315.5
52.5°	143.0	143.0	131.6	122.6	138.4	177.0	179.3	213.3	211.1	249.6
55°	72.6	74.9	106.7	106.7	93.0	145.2	147.5	172.5	177.0	208.8
57.5°	6.8	9.1	13.6	65.8	72.6	79.4	111.2	127.1	147.5	161.1
60°	2.3	2.3	4.5	9.1	43.1	54.5	70.4	84.0	102.1	133.9
62.5°	0.0	0.0	2.3	4.5	9.1	34.0	38.6	43.1	61.3	84.0
65°	0.0	0.0	2.3	2.3	4.5	11.3	15.9	27.2	38.6	52.2
67.5°	0.0	0.0	2.3	2.3	4.5	6.8	9.1	13.6	18.2	34.0
70°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	9.1	11.3	15.9
72.5°	0.0	0.0	2.3	2.3	4.5	9.1	6.8	6.8	9.1	11.3
75°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	6.8	6.8	6.8
77.5°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	6.8	4.5	4.5
80°	0.0	0.0	2.3	2.3	4.5	6.8	9.1	9.1	4.5	4.5
82.5°	0.0	0.0	2.3	4.5	4.5	11.3	13.6	11.3	4.5	2.3
85°	0.0	0.0	2.3	2.3	6.8	11.3	11.3	6.8	4.5	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	6.8	2.3	2.3
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°
17838.1	0°	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1
17729.2	2.5°	17720.1	17858.6	17922.1	17856.3	17824.5	17779.1	17713.3	17667.9	17677.0
17316.2	5°	17277.6	17422.8	17472.8	17416.0	17368.4	17343.4	17332.0	17354.7	17413.7
16485.5	7.5°	16481.0	16574.0	16628.5	16601.3	16535.5	16610.4	16630.8	16617.2	16703.4
15362.1	10°	15366.7	15468.8	15418.9	15430.2	15353.1	15391.6	15380.3	15430.2	15516.5
14020.9	12.5°	13930.1	14027.7	13989.1	13982.3	13900.6	13973.2	13927.8	13982.3	14095.8
12332.4	15°	12420.9	12482.2	12457.2	12418.6	12346.0	12371.0	12511.7	12502.6	12552.5
10580.3	17.5°	10534.9	10830.0	10991.1	11025.2	10966.1	11016.1	11115.9	11091.0	11204.4
8733.0	20°	8717.1	9014.4	9411.5	9733.8	9740.6	9747.4	9811.0	9826.9	9924.5
7337.2	22.5°	7305.5	7516.5	7943.2	8369.9	8664.9	8726.2	8719.4	8742.1	8769.3
6227.5	25°	6211.6	6365.9	6756.3	7051.3	7568.7	7741.2	7791.1	7741.2	7757.1
5249.3	27.5°	5308.3	5544.3	5673.7	5989.2	6495.3	6894.7	6878.8	6849.3	6853.8
4568.5	30°	4566.2	4820.4	5011.0	5106.3	5487.6	6064.1	6123.1	6039.1	6041.4
3967.1	32.5°	3942.1	4021.5	4302.9	4380.1	4625.2	5149.5	5351.4	5287.9	5276.5
3172.7	35°	3265.8	3308.9	3438.3	3590.3	3735.6	4132.7	4466.3	4407.3	4436.8
2333.0	37.5°	2324.0	2501.0	2625.8	2750.6	2855.0	3104.7	3506.4	3451.9	3481.4
1652.2	40°	1638.6	1718.0	1933.6	1988.1	2142.4	2258.1	2598.6	2580.4	2616.7
1025.8	42.5°	1007.7	1064.4	1173.3	1225.5	1329.9	1395.7	1595.4	1618.1	1665.8
567.4	45°	571.9	596.9	671.8	728.5	805.7	832.9	903.3	935.0	962.3
440.3	47.5°	435.7	463.0	512.9	562.8	626.4	649.1	699.0	746.7	771.6
340.4	50°	356.3	381.3	433.5	474.3	537.9	558.3	599.1	651.3	683.1
258.7	52.5°	270.1	306.4	369.9	413.0	478.9	503.8	542.4	594.6	624.1
213.3	55°	222.4	249.6	306.4	365.4	426.7	460.7	485.7	549.2	581.0
174.8	57.5°	190.6	211.1	247.4	317.7	369.9	419.9	440.3	499.3	531.1
138.4	60°	145.2	177.0	208.8	263.3	322.3	374.5	397.2	449.4	474.3
99.9	62.5°	120.3	140.7	181.6	211.1	276.9	331.3	354.0	401.7	419.9
65.8	65°	84.0	113.5	152.1	170.2	231.5	283.7	315.5	351.8	369.9
38.6	67.5°	49.9	84.0	120.3	145.2	188.4	240.6	274.6	308.6	324.5
22.7	70°	31.8	65.8	95.3	122.6	147.5	197.4	238.3	267.8	261.0
13.6	72.5°	18.2	40.9	70.4	99.9	122.6	165.7	204.3	226.9	161.1
9.1	75°	11.3	29.5	59.0	81.7	99.9	131.6	167.9	172.5	99.9
4.5	77.5°	9.1	22.7	45.4	65.8	68.1	97.6	118.0	133.9	74.9
4.5	80°	4.5	18.2	38.6	54.5	43.1	68.1	90.8	104.4	59.0
2.3	82.5°	4.5	11.3	29.5	38.6	31.8	52.2	65.8	74.9	49.9
2.3	85°	2.3	9.1	15.9	22.7	22.7	34.0	29.5	36.3	31.8
2.3	87.5°	2.3	4.5	9.1	11.3	9.1	13.6	15.9	15.9	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17838.1
17799.6
17536.3
16789.6
15550.5
14116.2
12563.9
11186.3
9904.0
8719.4
7732.1
6860.6
6043.6
5303.8
4464.1
3506.4
2630.3
1720.3
960.0
783.0
696.7
644.5
590.1
544.7
478.9
422.1
369.9
322.3
240.6
143.0
93.0
74.9
61.3
54.5
31.8
11.3
0.0

(END OF REPORT)