

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: P636462

Luminaire Tested: **IFLD-M-SA4A-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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: 9780.1 lumens
Efficiency: N/A
Efficacy: 76.1 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): 128.6
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

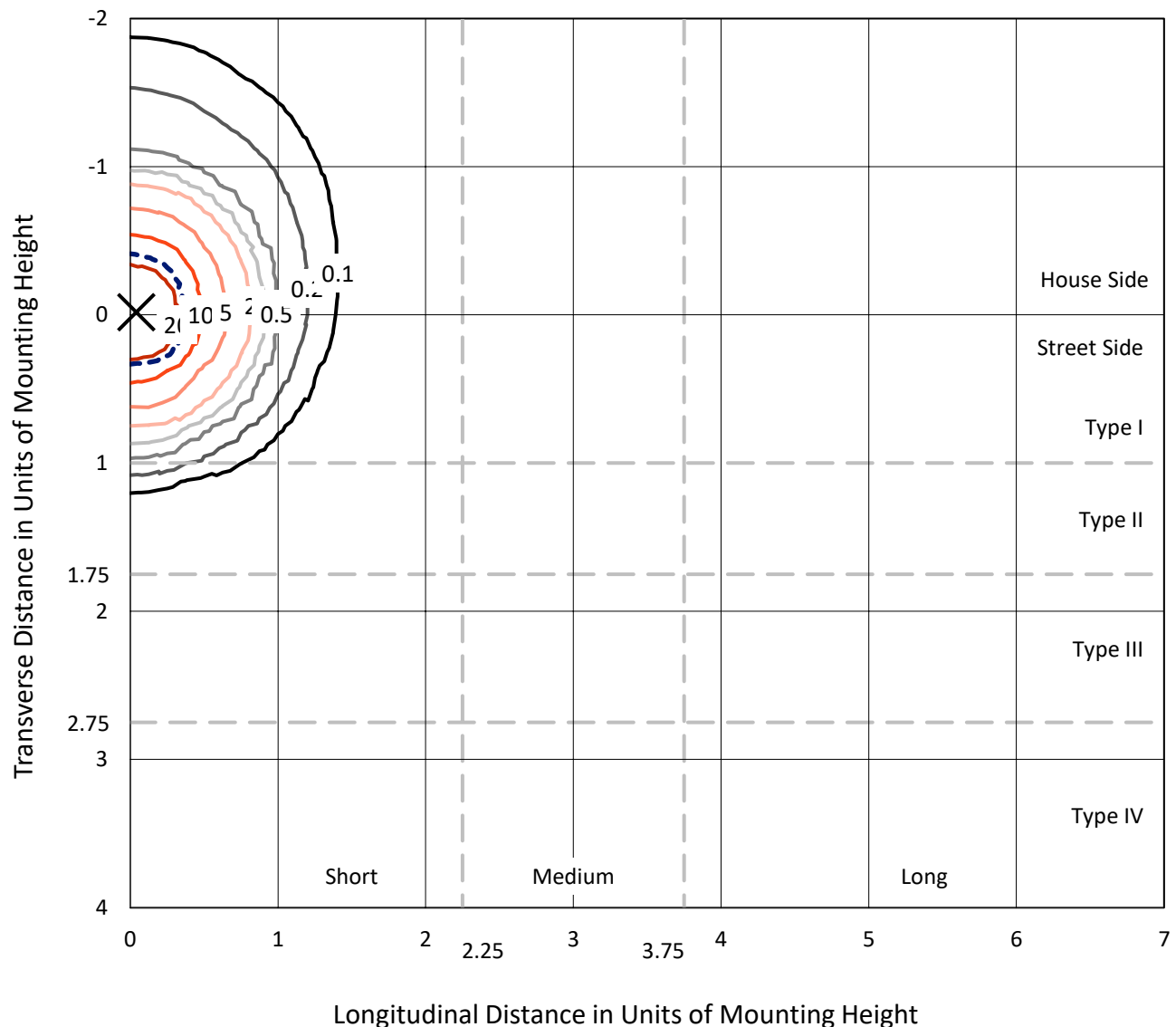


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

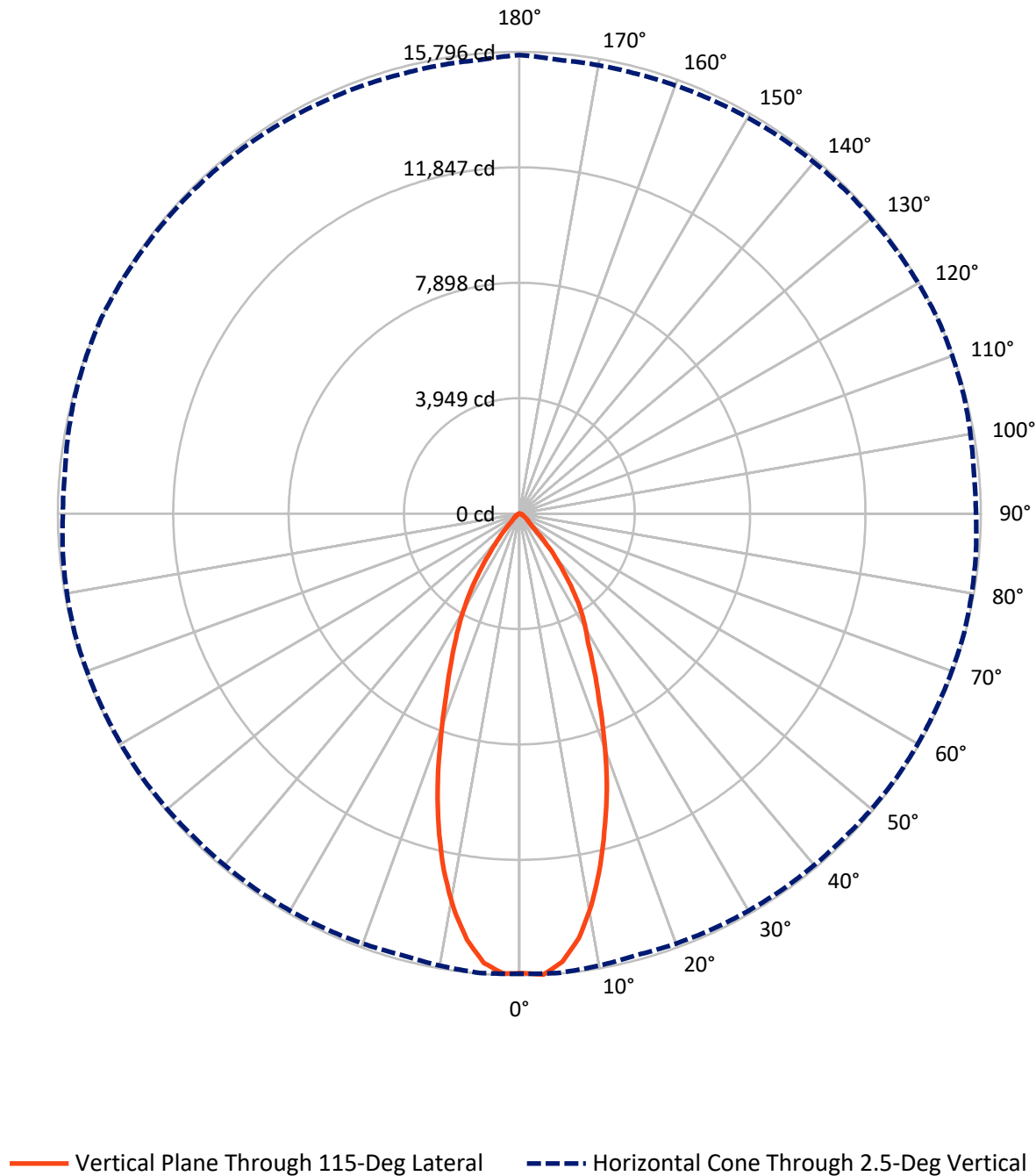


Based on 20 foot mounting height. Maximum calculated value = 39.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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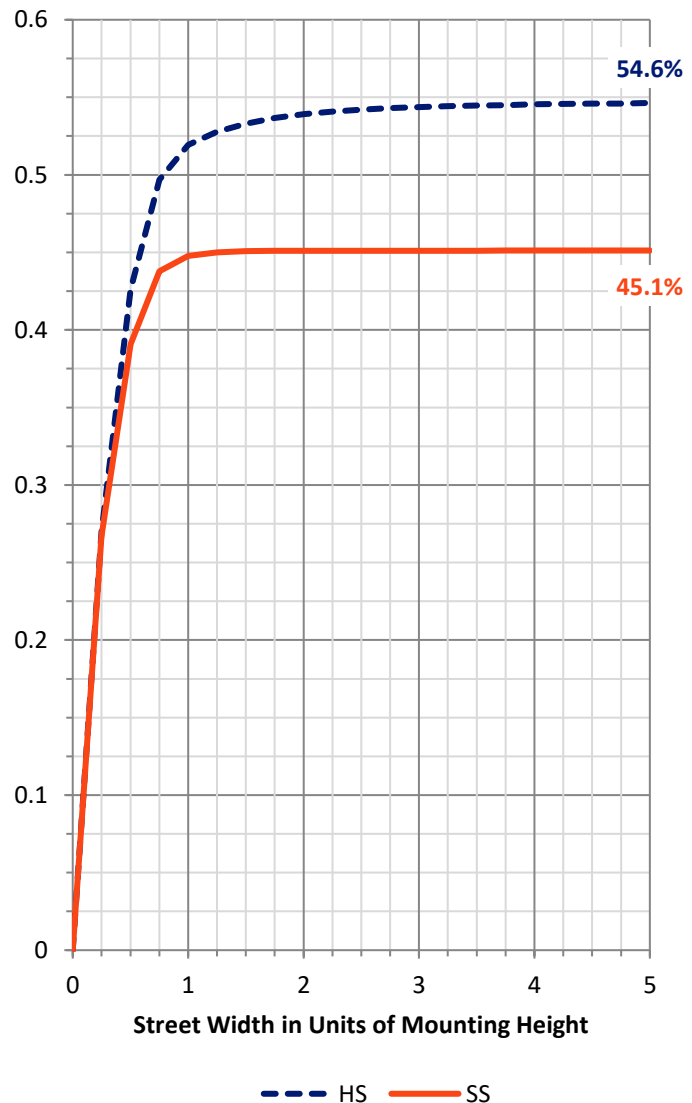
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5397.5	0.0	5397.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4382.6	0.0	4382.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	9780.1	0.0	9780.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.1	14.4
10°-20°	2980.2	30.5
20°-30°	2689.8	27.5
30°-40°	1780.0	18.2
40°-50°	533.2	5.5
50°-60°	213.9	2.2
60°-70°	110.8	1.1
70°-80°	48.1	0.5
80°-90°	14.0	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°	9780.1	100.0
0°-180°	9780.1	100.0

Coefficient of Utilization



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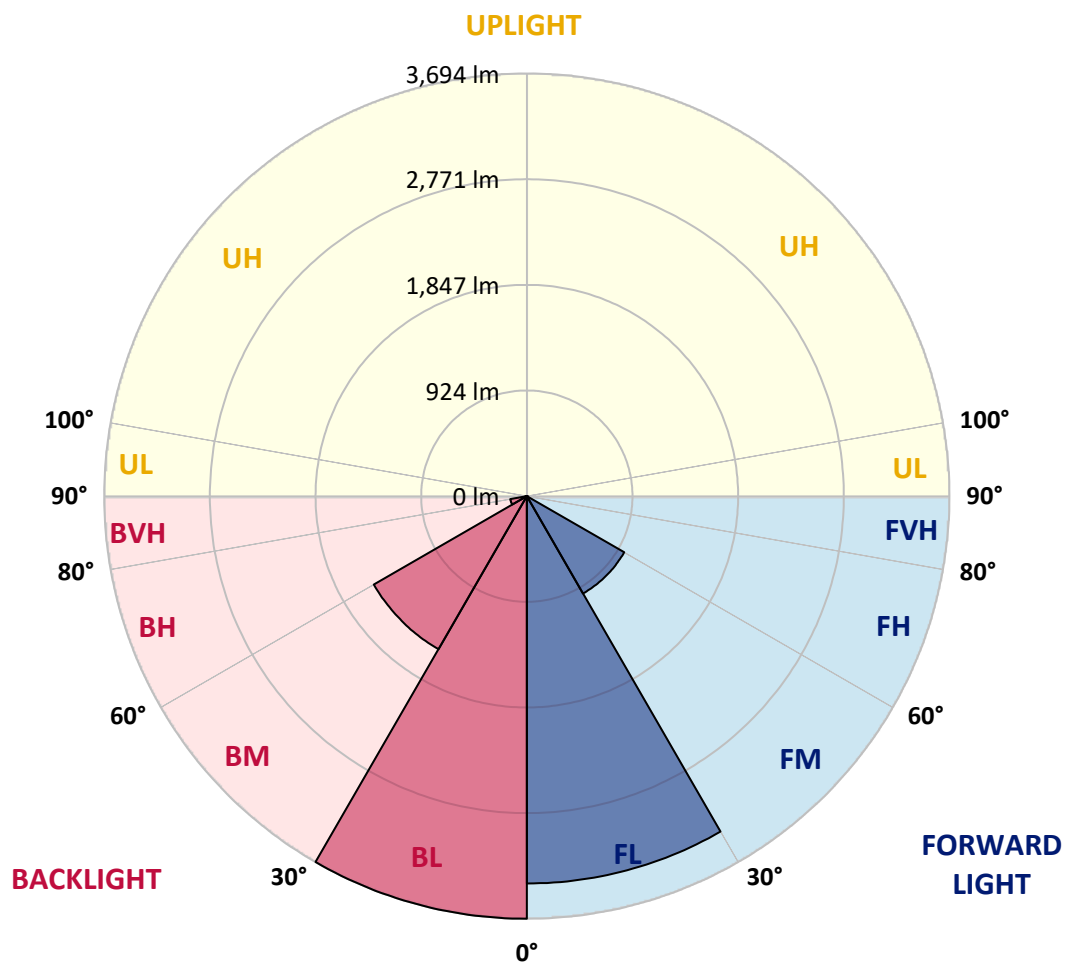
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3386.0	34.6			
FM	(30°-60°)	982.5	10.0			
FH	(60°-80°)	12.2	0.1			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	3694.2	37.8	B4/5000		
BM	(30°-60°)	1544.6	15.8	B2/2500		
BH	(60°-80°)	146.7	1.5	B1/500		G1/500
BVH	(80°-90°)	12.0	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°	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6
2.5°	15741.6	15769.6	15629.6	15677.6	15697.6	15703.6	15753.6	15745.6	15759.6	15685.6
5°	15533.5	15479.5	15375.5	15377.5	15371.5	15315.5	15429.5	15421.5	15397.5	15309.5
7.5°	14825.5	14903.5	14707.5	14703.5	14699.5	14631.5	14781.5	14689.5	14709.5	14583.4
10°	13789.4	13799.4	13625.4	13609.4	13623.4	13535.3	13709.4	13673.4	13711.4	13579.3
12.5°	12519.2	12575.2	12383.2	12355.2	12411.2	12287.2	12427.2	12445.2	12389.2	12371.2
15°	9819.0	9967.0	10331.0	10887.1	11031.1	10927.1	11039.1	11037.1	11061.1	10925.1
17.5°	7480.7	7494.7	7408.7	7674.8	9214.9	9715.0	9739.0	9548.9	9404.9	9354.9
20°	6530.6	6578.7	6500.6	6522.6	6768.7	8234.8	8290.8	8004.8	7758.8	7738.8
22.5°	5774.6	5804.6	5748.6	5766.6	5778.6	5950.6	6924.7	6672.7	6554.7	6464.6
25°	5134.5	5134.5	5104.5	5110.5	5098.5	4844.5	5344.5	5632.6	5564.6	5532.5
27.5°	4550.5	4558.5	4520.4	4542.5	4396.4	3986.4	3926.4	4776.5	4704.5	4646.5
30°	3996.4	4022.4	3986.4	3998.4	3680.4	3344.3	3172.3	3984.4	4074.4	4058.4
32.5°	3008.3	3126.3	3416.3	3428.3	2996.3	2738.3	2662.3	3198.3	3540.4	3510.3
35°	1864.2	1858.2	1870.2	2446.2	2298.2	2122.2	2150.2	2416.2	2802.3	2788.3
37.5°	1422.1	1420.1	1442.1	1384.1	1506.1	1610.2	1632.2	1632.2	2046.2	2048.2
40°	1078.1	1070.1	1068.1	976.1	818.1	1208.1	1172.1	1142.1	1422.1	1452.1
42.5°	688.1	712.1	694.1	594.1	534.1	660.1	736.1	712.1	878.1	900.1
45°	384.0	384.0	368.0	312.0	310.0	334.0	420.0	392.0	450.0	480.0
47.5°	186.0	182.0	200.0	246.0	256.0	248.0	300.0	312.0	340.0	368.0
50°	150.0	150.0	142.0	128.0	212.0	204.0	222.0	238.0	254.0	278.0
52.5°	126.0	126.0	116.0	108.0	122.0	156.0	158.0	188.0	186.0	220.0
55°	64.0	66.0	94.0	94.0	82.0	128.0	130.0	152.0	156.0	184.0
57.5°	6.0	8.0	12.0	58.0	64.0	70.0	98.0	112.0	130.0	142.0
60°	2.0	2.0	4.0	8.0	38.0	48.0	62.0	74.0	90.0	118.0
62.5°	0.0	0.0	2.0	4.0	8.0	30.0	34.0	38.0	54.0	74.0
65°	0.0	0.0	2.0	2.0	4.0	10.0	14.0	24.0	34.0	46.0
67.5°	0.0	0.0	2.0	2.0	4.0	6.0	8.0	12.0	16.0	30.0
70°	0.0	0.0	2.0	2.0	4.0	6.0	6.0	8.0	10.0	14.0
72.5°	0.0	0.0	2.0	2.0	4.0	8.0	6.0	6.0	8.0	10.0
75°	0.0	0.0	2.0	2.0	4.0	6.0	6.0	6.0	6.0	6.0
77.5°	0.0	0.0	2.0	2.0	4.0	6.0	6.0	6.0	4.0	4.0
80°	0.0	0.0	2.0	2.0	4.0	6.0	8.0	8.0	4.0	4.0
82.5°	0.0	0.0	2.0	4.0	4.0	10.0	12.0	10.0	4.0	2.0
85°	0.0	0.0	2.0	2.0	6.0	10.0	10.0	6.0	4.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	6.0	6.0	2.0	2.0
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°
15721.6	0°	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6	15721.6
15625.6	2.5°	15617.6	15739.6	15795.6	15737.6	15709.6	15669.6	15611.6	15571.5	15579.5
15261.5	5°	15227.5	15355.5	15399.5	15349.5	15307.5	15285.5	15275.5	15295.5	15347.5
14529.4	7.5°	14525.4	14607.5	14655.5	14631.5	14573.4	14639.5	14657.5	14645.5	14721.5
13539.3	10°	13543.3	13633.4	13589.3	13599.4	13531.3	13565.3	13555.3	13599.4	13675.4
12357.2	12.5°	12277.2	12363.2	12329.2	12323.2	12251.2	12315.2	12275.2	12323.2	12423.2
10869.1	15°	10947.1	11001.1	10979.1	10945.1	10881.1	10903.1	11027.1	11019.1	11063.1
9324.9	17.5°	9284.9	9544.9	9687.0	9717.0	9665.0	9709.0	9797.0	9775.0	9875.0
7696.8	20°	7682.8	7944.8	8294.8	8578.9	8584.9	8590.9	8646.9	8660.9	8746.9
6466.6	22.5°	6438.6	6624.7	7000.7	7376.7	7636.8	7690.8	7684.8	7704.8	7728.8
5488.5	25°	5474.5	5610.6	5954.6	6214.6	6670.7	6822.7	6866.7	6822.7	6836.7
4626.5	27.5°	4678.5	4886.5	5000.5	5278.5	5724.6	6076.6	6062.6	6036.6	6040.6
4026.4	30°	4024.4	4248.4	4416.4	4500.4	4836.5	5344.5	5396.5	5322.5	5324.5
3496.3	32.5°	3474.3	3544.4	3792.4	3860.4	4076.4	4538.5	4716.5	4660.5	4650.5
2796.3	35°	2878.3	2916.3	3030.3	3164.3	3292.3	3642.4	3936.4	3884.4	3910.4
2056.2	37.5°	2048.2	2204.2	2314.2	2424.2	2516.2	2736.3	3090.3	3042.3	3068.3
1456.1	40°	1444.1	1514.2	1704.2	1752.2	1888.2	1990.2	2290.2	2274.2	2306.2
904.1	42.5°	888.1	938.1	1034.1	1080.1	1172.1	1230.1	1406.1	1426.1	1468.1
500.0	45°	504.1	526.1	592.1	642.1	710.1	734.1	796.1	824.1	848.1
388.0	47.5°	384.0	408.0	452.0	496.0	552.1	572.1	616.1	658.1	680.1
300.0	50°	314.0	336.0	382.0	418.0	474.0	492.0	528.1	574.1	602.1
228.0	52.5°	238.0	270.0	326.0	364.0	422.0	444.0	478.0	524.1	550.1
188.0	55°	196.0	220.0	270.0	322.0	376.0	406.0	428.0	484.0	512.1
154.0	57.5°	168.0	186.0	218.0	280.0	326.0	370.0	388.0	440.0	468.0
122.0	60°	128.0	156.0	184.0	232.0	284.0	330.0	350.0	396.0	418.0
88.0	62.5°	106.0	124.0	160.0	186.0	244.0	292.0	312.0	354.0	370.0
58.0	65°	74.0	100.0	134.0	150.0	204.0	250.0	278.0	310.0	326.0
34.0	67.5°	44.0	74.0	106.0	128.0	166.0	212.0	242.0	272.0	286.0
20.0	70°	28.0	58.0	84.0	108.0	130.0	174.0	210.0	236.0	230.0
12.0	72.5°	16.0	36.0	62.0	88.0	108.0	146.0	180.0	200.0	142.0
8.0	75°	10.0	26.0	52.0	72.0	88.0	116.0	148.0	152.0	88.0
4.0	77.5°	8.0	20.0	40.0	58.0	60.0	86.0	104.0	118.0	66.0
4.0	80°	4.0	16.0	34.0	48.0	38.0	60.0	80.0	92.0	52.0
2.0	82.5°	4.0	10.0	26.0	34.0	28.0	46.0	58.0	66.0	44.0
2.0	85°	2.0	8.0	14.0	20.0	20.0	30.0	26.0	32.0	28.0
2.0	87.5°	2.0	4.0	8.0	10.0	8.0	12.0	14.0	14.0	12.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15721.6
15687.6
15455.5
14797.5
13705.4
12441.2
11073.1
9859.0
8728.9
7684.8
6814.7
6046.6
5326.5
4674.5
3934.4
3090.3
2318.2
1516.2
846.1
690.1
614.1
568.1
520.1
480.0
422.0
372.0
326.0
284.0
212.0
126.0
82.0
66.0
54.0
48.0
28.0
10.0
0.0

(END OF REPORT)