

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: P636506

Luminaire Tested: **IFLD-S-SA2B-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6827.2 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 82.4
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



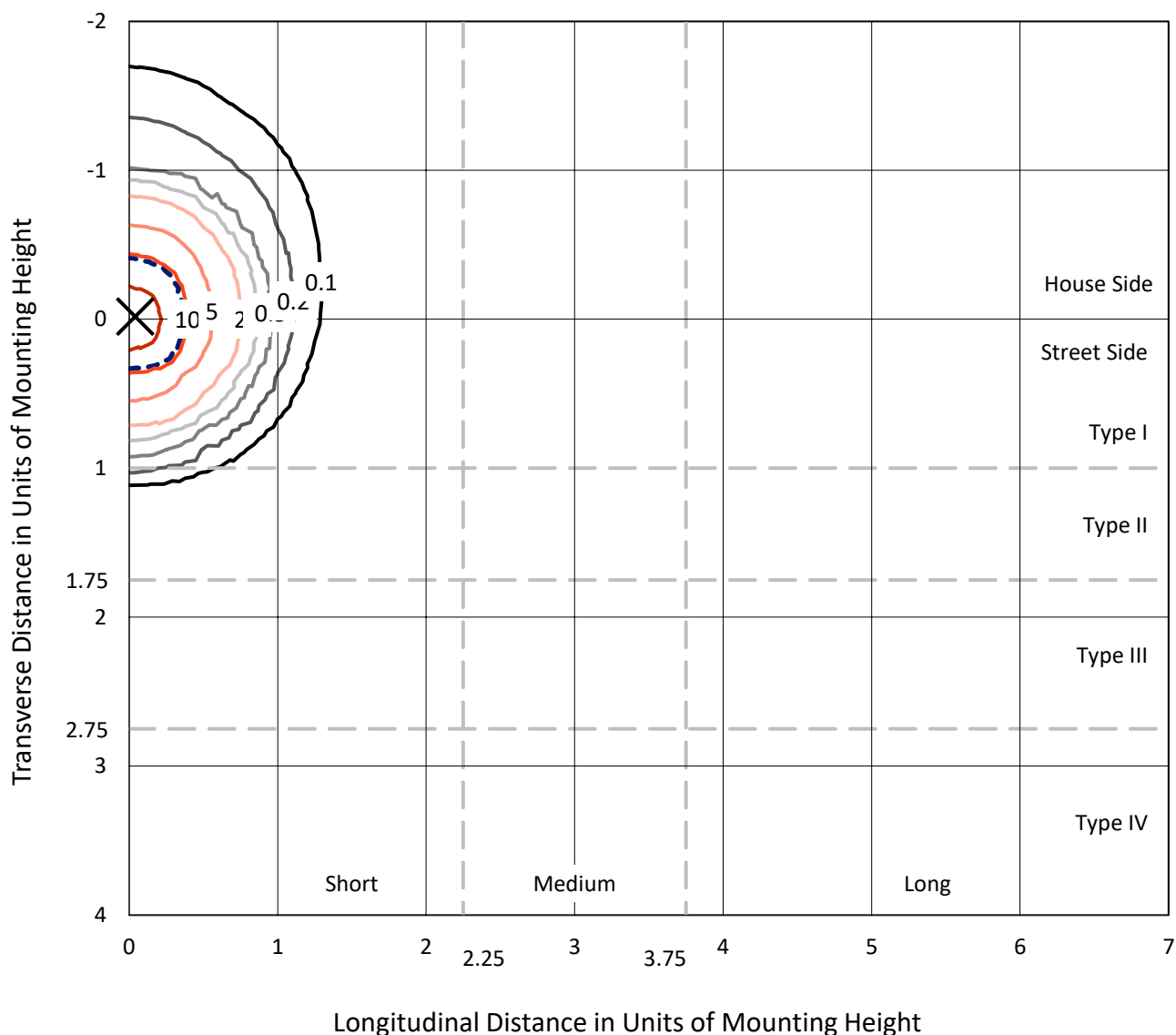
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

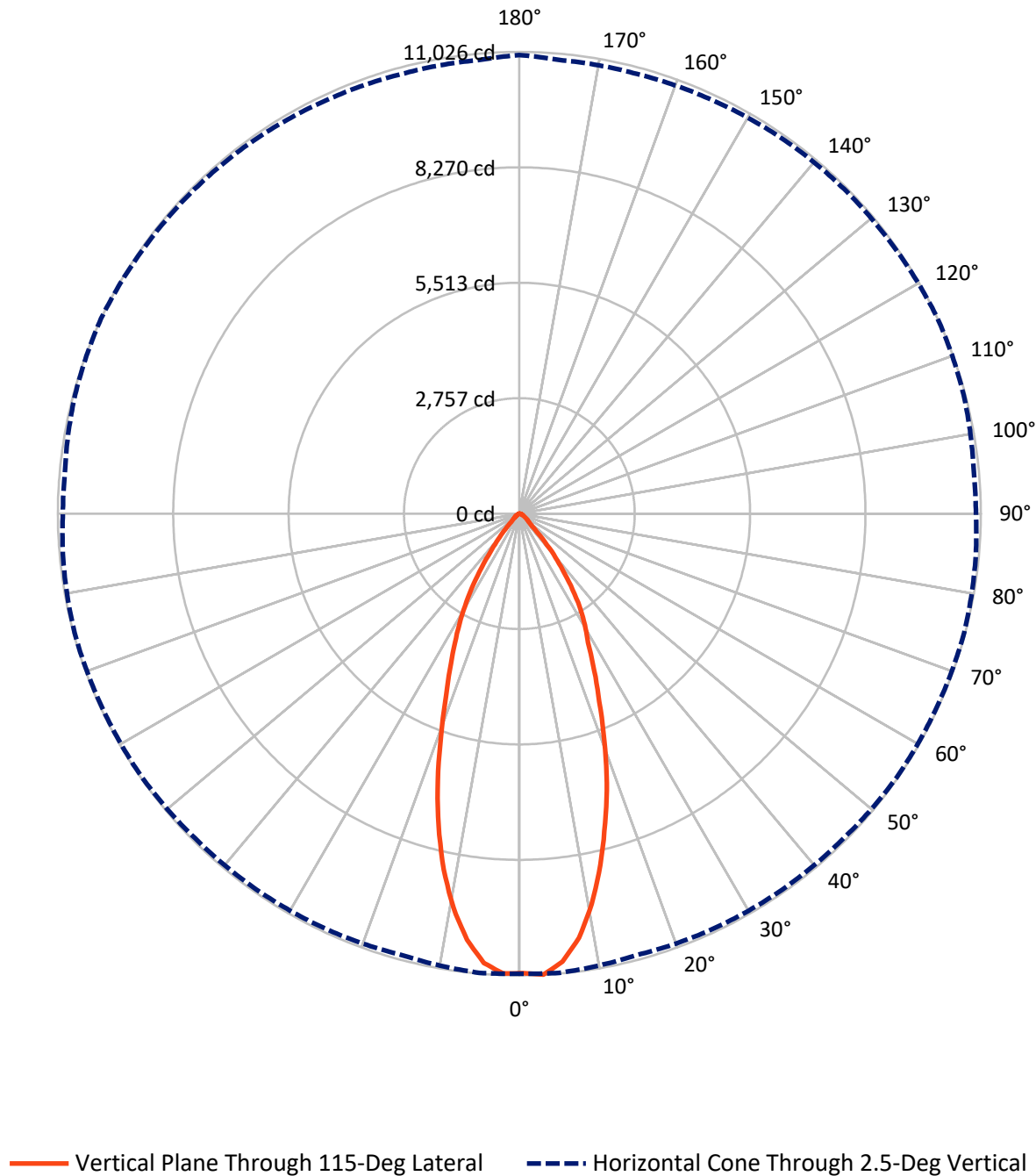


Based on 20 foot mounting height. Maximum calculated value = 27.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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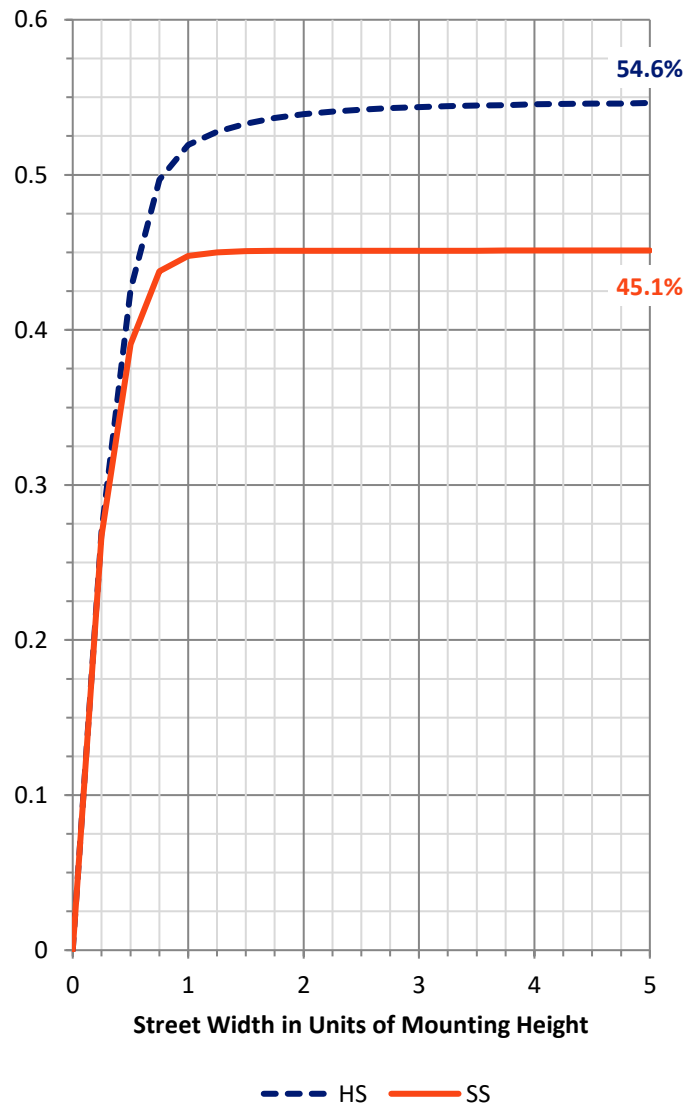
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3767.8	0.0	3767.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3059.4	0.0	3059.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	6827.2	0.0	6827.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.3	14.4
10°-20°	2080.4	30.5
20°-30°	1877.7	27.5
30°-40°	1242.6	18.2
40°-50°	372.2	5.5
50°-60°	149.3	2.2
60°-70°	77.3	1.1
70°-80°	33.6	0.5
80°-90°	9.8	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°	6827.2	100.0
0°-180°	6827.2	100.0

Coefficient of Utilization



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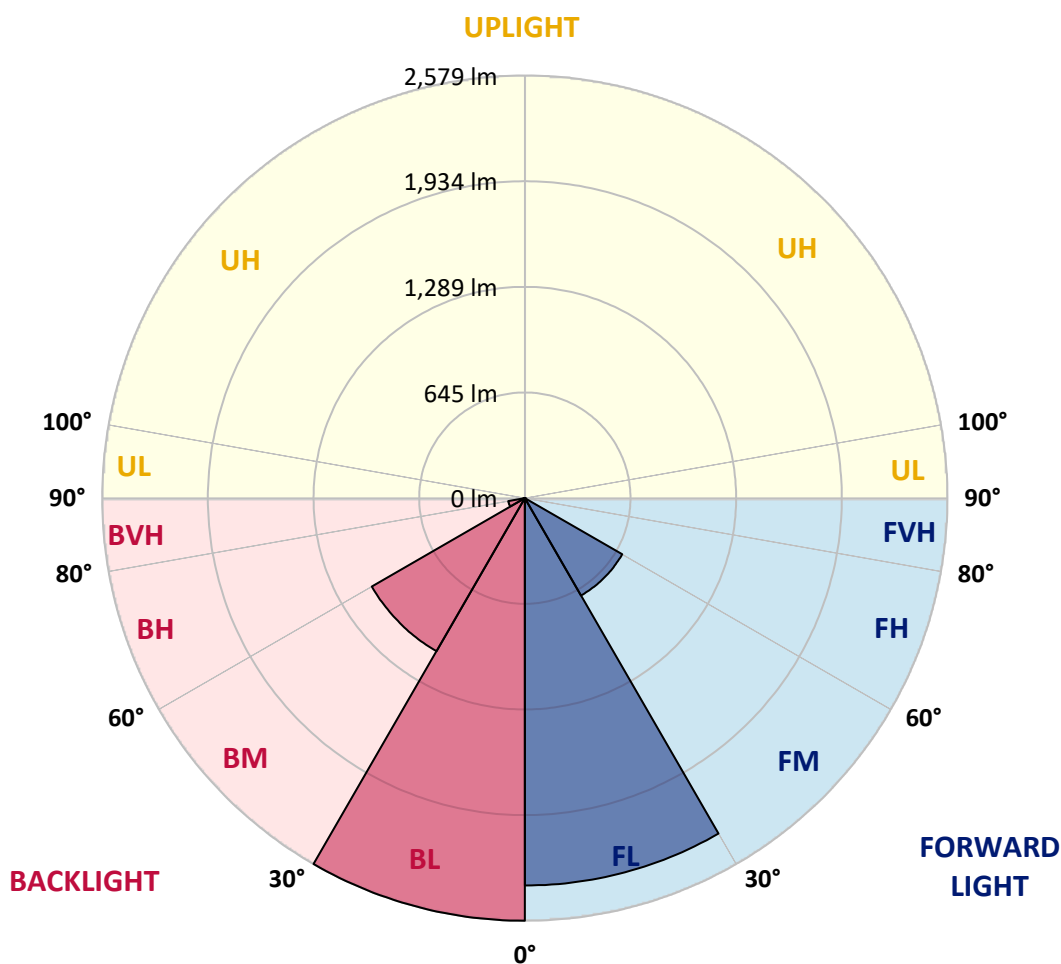
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.6	34.6			
FM	(30°-60°)	685.9	10.0			
FH	(60°-80°)	8.5	0.1			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	2578.8	37.8	B4/5000		
BM	(30°-60°)	1078.3	15.8	B2/2500		
BH	(60°-80°)	102.4	1.5	B0/110		G0/110
BVH	(80°-90°)	8.4	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°	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6
2.5°	10988.6	11008.1	10910.4	10943.9	10957.9	10962.1	10997.0	10991.4	11001.2	10949.5
5°	10843.4	10805.7	10733.1	10734.5	10730.3	10691.2	10770.8	10765.2	10748.4	10687.0
7.5°	10349.1	10403.6	10266.7	10263.9	10261.1	10213.7	10318.4	10254.2	10268.1	10180.2
10°	9625.8	9632.8	9511.3	9500.2	9510.0	9448.5	9570.0	9544.9	9571.4	9479.2
12.5°	8739.2	8778.3	8644.3	8624.7	8663.8	8577.2	8675.0	8687.6	8648.5	8635.9
15°	6854.3	6957.6	7211.7	7599.9	7700.4	7627.8	7706.0	7704.6	7721.3	7626.4
17.5°	5222.0	5231.8	5171.8	5357.5	6432.6	6781.7	6798.4	6665.8	6565.2	6530.3
20°	4558.8	4592.3	4537.9	4553.2	4725.0	5748.4	5787.5	5587.8	5416.1	5402.1
22.5°	4031.0	4052.0	4012.9	4025.4	4033.8	4153.9	4833.9	4657.9	4575.6	4512.7
25°	3584.2	3584.2	3563.3	3567.5	3559.1	3381.8	3730.8	3931.9	3884.4	3862.1
27.5°	3176.5	3182.1	3155.6	3170.9	3069.0	2782.8	2740.9	3334.3	3284.0	3243.5
30°	2789.7	2807.9	2782.8	2791.1	2569.1	2334.6	2214.5	2781.4	2844.2	2833.0
32.5°	2100.0	2182.4	2384.8	2393.2	2091.6	1911.5	1858.4	2232.6	2471.4	2450.4
35°	1301.3	1297.1	1305.5	1707.6	1604.3	1481.4	1501.0	1686.7	1956.2	1946.4
37.5°	992.7	991.3	1006.7	966.2	1051.4	1124.0	1139.4	1139.4	1428.4	1429.8
40°	752.6	747.0	745.6	681.4	571.1	843.3	818.2	797.3	992.7	1013.7
42.5°	480.3	497.1	484.5	414.7	372.8	460.8	513.8	497.1	613.0	628.3
45°	268.1	268.1	256.9	217.8	216.4	233.2	293.2	273.7	314.2	335.1
47.5°	129.9	127.1	139.6	171.7	178.7	173.1	209.4	217.8	237.4	256.9
50°	104.7	104.7	99.1	89.4	148.0	142.4	155.0	166.2	177.3	194.1
52.5°	88.0	88.0	81.0	75.4	85.2	108.9	110.3	131.2	129.9	153.6
55°	44.7	46.1	65.6	65.6	57.2	89.4	90.8	106.1	108.9	128.5
57.5°	4.2	5.6	8.4	40.5	44.7	48.9	68.4	78.2	90.8	99.1
60°	1.4	1.4	2.8	5.6	26.5	33.5	43.3	51.7	62.8	82.4
62.5°	0.0	0.0	1.4	2.8	5.6	20.9	23.7	26.5	37.7	51.7
65°	0.0	0.0	1.4	1.4	2.8	7.0	9.8	16.8	23.7	32.1
67.5°	0.0	0.0	1.4	1.4	2.8	4.2	5.6	8.4	11.2	20.9
70°	0.0	0.0	1.4	1.4	2.8	4.2	4.2	5.6	7.0	9.8
72.5°	0.0	0.0	1.4	1.4	2.8	5.6	4.2	4.2	5.6	7.0
75°	0.0	0.0	1.4	1.4	2.8	4.2	4.2	4.2	4.2	4.2
77.5°	0.0	0.0	1.4	1.4	2.8	4.2	4.2	4.2	2.8	2.8
80°	0.0	0.0	1.4	1.4	2.8	4.2	5.6	5.6	2.8	2.8
82.5°	0.0	0.0	1.4	2.8	2.8	7.0	8.4	7.0	2.8	1.4
85°	0.0	0.0	1.4	1.4	4.2	7.0	7.0	4.2	2.8	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	4.2	4.2	1.4	1.4
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°
10974.6	0°	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6	10974.6
10907.6	2.5°	10902.0	10987.2	11026.3	10985.8	10966.3	10938.3	10897.8	10869.9	10875.5
10653.5	5°	10629.8	10719.1	10749.8	10714.9	10685.6	10670.2	10663.3	10677.2	10713.5
10142.5	7.5°	10139.7	10196.9	10230.4	10213.7	10173.2	10219.3	10231.8	10223.4	10276.5
9451.3	10°	9454.1	9516.9	9486.2	9493.2	9445.7	9469.5	9462.5	9493.2	9546.3
8626.1	12.5°	8570.3	8630.3	8606.6	8602.4	8552.1	8596.8	8568.9	8602.4	8672.2
7587.3	15°	7641.8	7679.5	7664.1	7640.4	7595.7	7611.0	7697.6	7692.0	7722.7
6509.4	17.5°	6481.5	6663.0	6762.1	6783.0	6746.7	6777.5	6838.9	6823.5	6893.4
5372.8	20°	5363.0	5546.0	5790.3	5988.6	5992.8	5997.0	6036.0	6045.8	6105.9
4514.1	22.5°	4494.6	4624.4	4886.9	5149.4	5330.9	5368.6	5364.4	5378.4	5395.2
3831.3	25°	3821.6	3916.5	4156.7	4338.2	4656.5	4762.7	4793.4	4762.7	4772.4
3229.6	27.5°	3265.9	3411.1	3490.7	3684.7	3996.1	4241.8	4232.1	4213.9	4216.7
2810.7	30°	2809.3	2965.7	3083.0	3141.6	3376.2	3730.8	3767.1	3715.5	3716.9
2440.7	32.5°	2425.3	2474.2	2647.3	2694.8	2845.6	3168.1	3292.4	3253.3	3246.3
1952.0	35°	2009.2	2035.8	2115.3	2208.9	2298.2	2542.6	2747.8	2711.5	2729.7
1435.4	37.5°	1429.8	1538.7	1615.5	1692.3	1756.5	1910.1	2157.2	2123.7	2141.9
1016.5	40°	1008.1	1057.0	1189.6	1223.1	1318.1	1389.3	1598.7	1587.6	1609.9
631.1	42.5°	619.9	654.8	721.9	754.0	818.2	858.7	981.6	995.5	1024.9
349.1	45°	351.9	367.2	413.3	448.2	495.7	512.4	555.7	575.3	592.0
270.9	47.5°	268.1	284.8	315.6	346.3	385.4	399.3	430.0	459.4	474.7
209.4	50°	219.2	234.6	266.7	291.8	330.9	343.5	368.6	400.7	420.3
159.2	52.5°	166.2	188.5	227.6	254.1	294.6	310.0	333.7	365.8	384.0
131.2	55°	136.8	153.6	188.5	224.8	262.5	283.4	298.8	337.9	357.4
107.5	57.5°	117.3	129.9	152.2	195.5	227.6	258.3	270.9	307.2	326.7
85.2	60°	89.4	108.9	128.5	162.0	198.3	230.4	244.3	276.5	291.8
61.4	62.5°	74.0	86.6	111.7	129.9	170.3	203.9	217.8	247.1	258.3
40.5	65°	51.7	69.8	93.5	104.7	142.4	174.5	194.1	216.4	227.6
23.7	67.5°	30.7	51.7	74.0	89.4	115.9	148.0	168.9	189.9	199.7
14.0	70°	19.5	40.5	58.6	75.4	90.8	121.5	146.6	164.8	160.6
8.4	72.5°	11.2	25.1	43.3	61.4	75.4	101.9	125.7	139.6	99.1
5.6	75°	7.0	18.2	36.3	50.3	61.4	81.0	103.3	106.1	61.4
2.8	77.5°	5.6	14.0	27.9	40.5	41.9	60.0	72.6	82.4	46.1
2.8	80°	2.8	11.2	23.7	33.5	26.5	41.9	55.9	64.2	36.3
1.4	82.5°	2.8	7.0	18.2	23.7	19.5	32.1	40.5	46.1	30.7
1.4	85°	1.4	5.6	9.8	14.0	14.0	20.9	18.2	22.3	19.5
1.4	87.5°	1.4	2.8	5.6	7.0	5.6	8.4	9.8	9.8	8.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
10974.6
10950.9
10788.9
10329.6
9567.2
8684.8
7729.7
6882.2
6093.3
5364.4
4757.1
4220.9
3718.3
3263.1
2746.5
2157.2
1618.3
1058.4
590.6
481.7
428.7
396.5
363.0
335.1
294.6
259.7
227.6
198.3
148.0
88.0
57.2
46.1
37.7
33.5
19.5
7.0
0.0

(END OF REPORT)