

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: P637753

Luminaire Tested: **IFLD-S-SA2B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8522.2 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

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



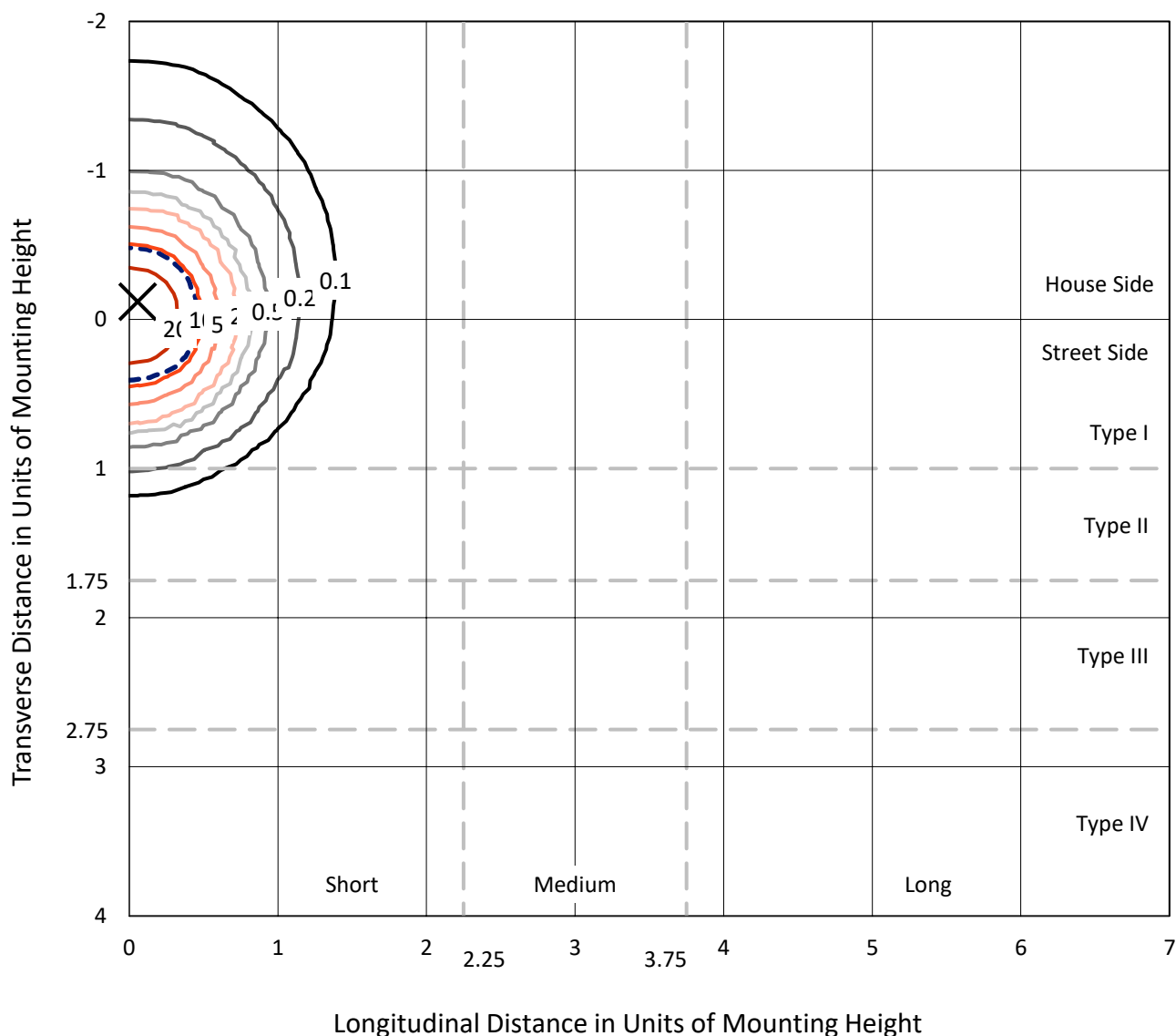
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



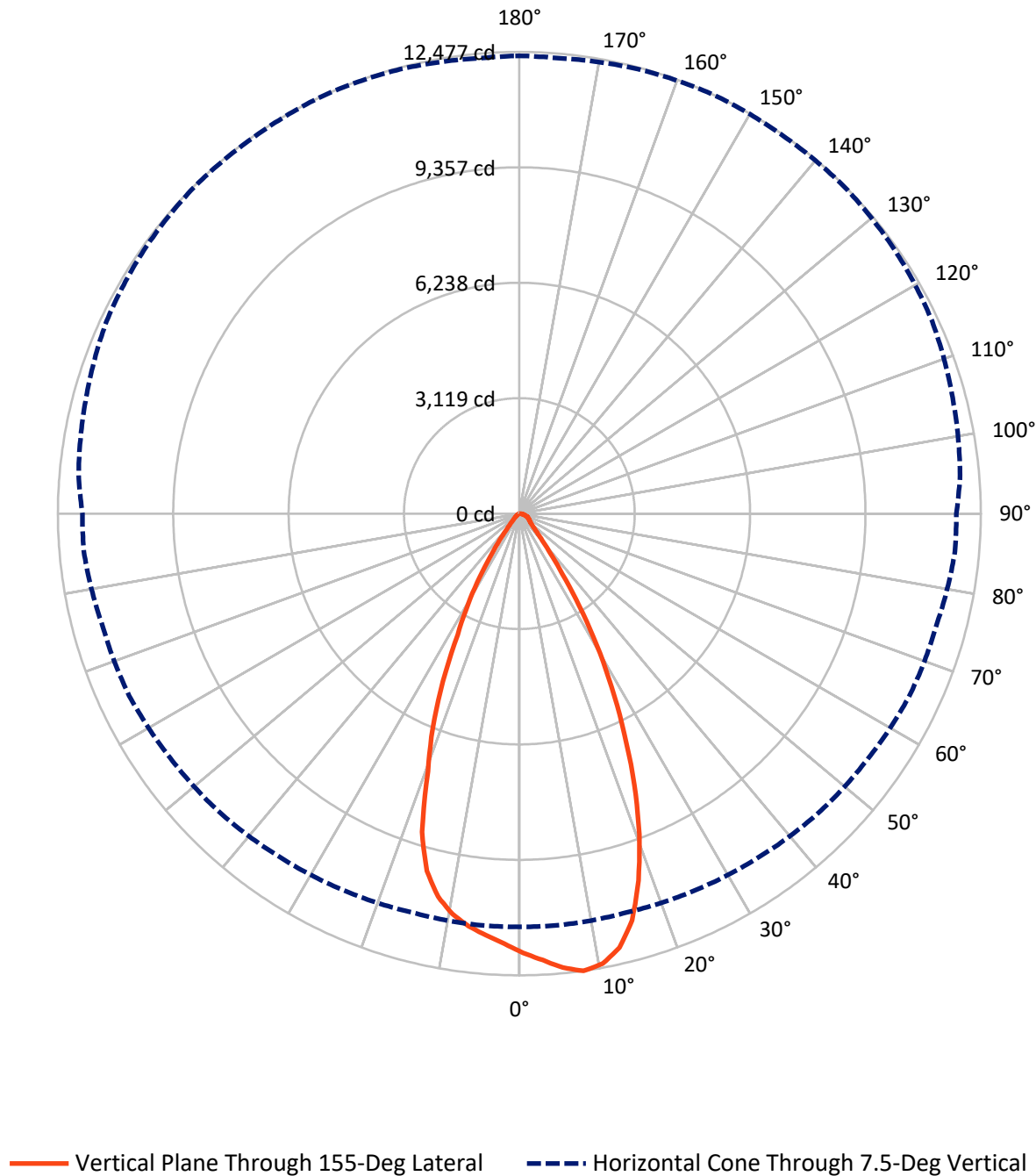
Based on 20 foot mounting height. Maximum calculated value = 30.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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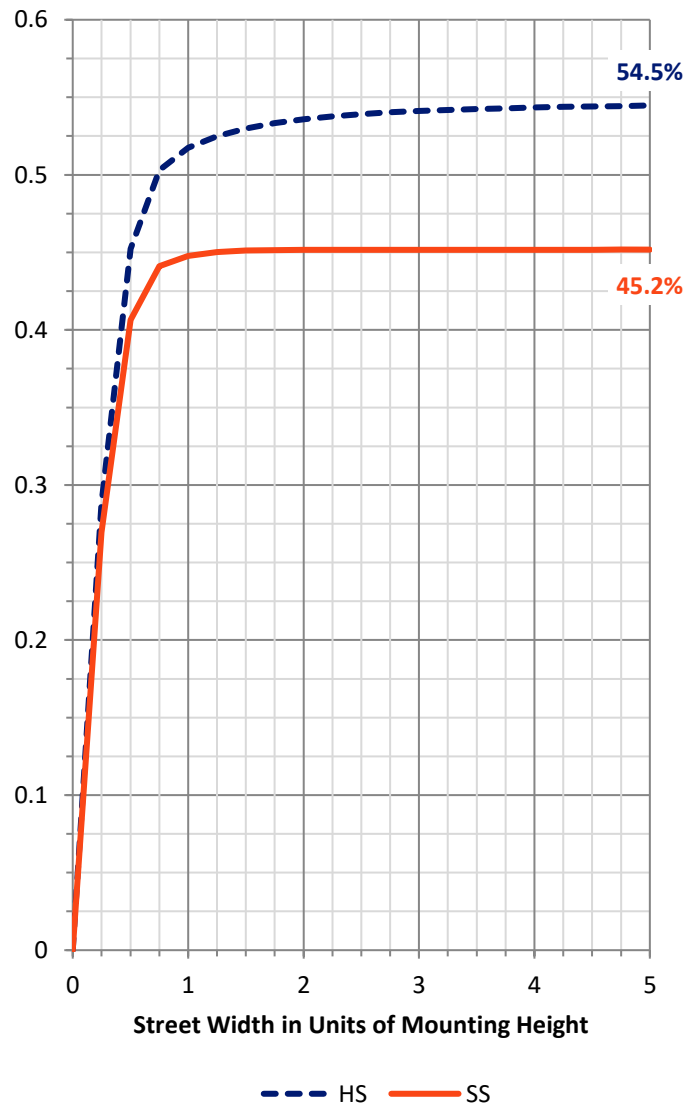
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4704.6	0.0	4704.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3817.7	0.0	3817.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	8522.2	0.0	8522.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.1	13.3
10°-20°	2935.5	34.4
20°-30°	2689.7	31.6
30°-40°	1086.7	12.8
40°-50°	318.8	3.7
50°-60°	178.2	2.1
60°-70°	108.3	1.3
70°-80°	55.0	0.6
80°-90°	18.0	0.2
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°	8522.2	100.0
0°-180°	8522.2	100.0

Coefficient of Utilization



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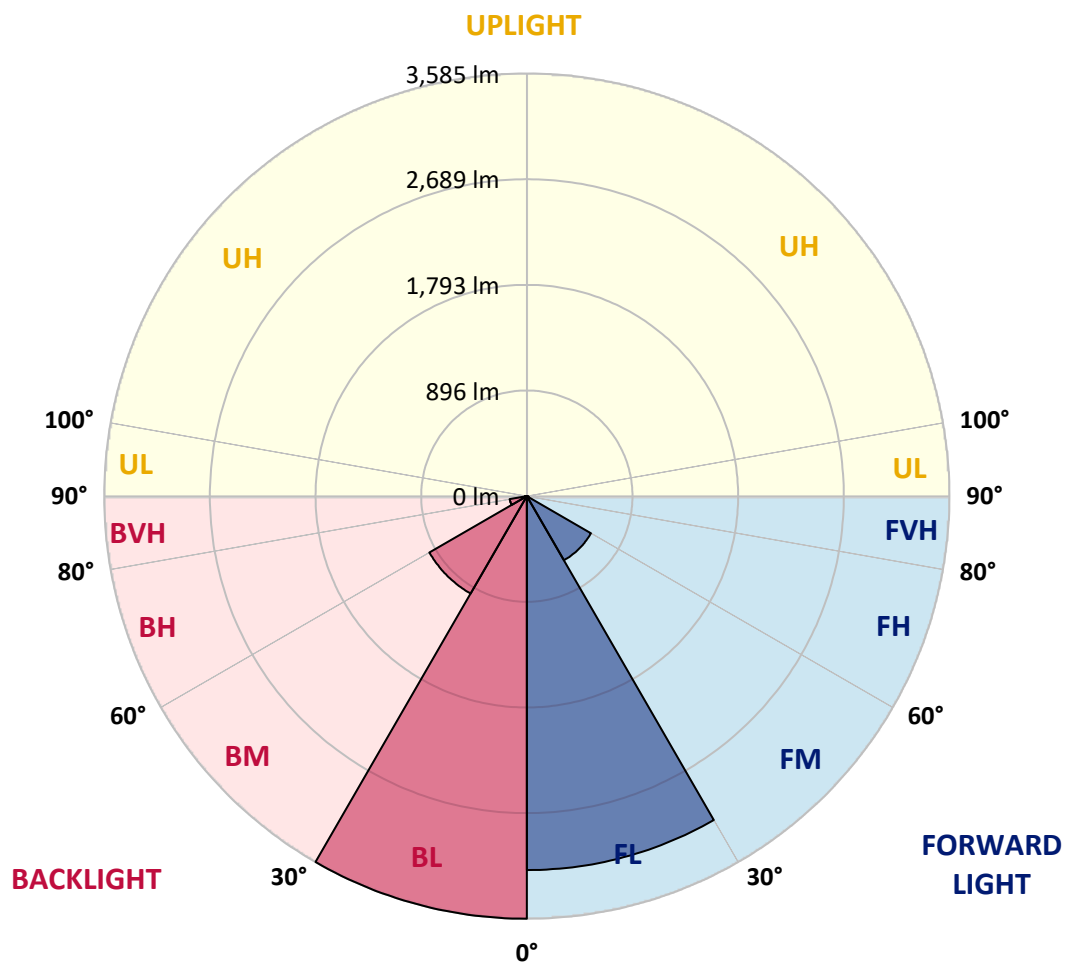
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3172.2	37.2			
FM	(30°-60°)	628.7	7.4			
FH	(60°-80°)	15.2	0.2			G0/660
FVH	(80°-90°)	1.6	0.0			G0/10
BL	(0°-30°)	3585.1	42.1	B4/5000		
BM	(30°-60°)	955.0	11.2	B1/1000		
BH	(60°-80°)	148.0	1.7	B1/500		G1/500
BVH	(80°-90°)	16.4	0.2			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°	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1
2.5°	11614.7	11654.0	11575.4	11627.4	11667.7	11764.0	11771.9	11805.3	11817.1	11904.6
5°	11394.5	11425.0	11361.1	11430.9	11487.9	11573.4	11639.2	11731.6	11782.7	11885.9
7.5°	11165.6	11172.4	11159.7	11233.4	11318.9	11436.8	11518.4	11639.2	11670.7	11818.1
10°	10888.4	10838.3	10862.9	10971.0	11098.7	11279.6	11335.6	11456.4	11512.5	11662.8
12.5°	10446.2	10471.8	10441.3	10578.9	10685.0	10890.4	10949.4	11071.2	11178.3	11311.0
15°	9823.2	9808.4	9870.3	9977.5	10092.4	10255.6	10350.9	10483.6	10565.1	10702.7
17.5°	8422.8	8472.9	8728.4	8996.7	9232.6	9423.2	9537.2	9647.3	9706.2	9855.6
20°	7274.0	7211.1	7245.5	7396.9	8068.1	8359.9	8479.8	8506.3	8530.9	8648.8
22.5°	5989.6	5969.0	6084.0	6254.0	6413.2	7086.3	7249.5	7187.5	7238.6	7349.7
25°	4447.7	4551.9	4654.1	4980.4	5186.7	5516.9	5826.5	5854.0	5872.7	5942.5
27.5°	3620.3	3583.9	3582.0	3673.4	3978.0	4253.2	4516.5	4577.5	4566.7	4633.5
30°	2845.9	2834.1	2792.9	2814.5	2784.0	3028.7	3152.5	3403.1	3389.4	3391.3
32.5°	2052.9	2008.7	1992.0	2024.4	1992.9	1970.3	2078.4	2361.5	2356.5	2376.2
35°	1242.1	1236.3	1250.0	1278.5	1215.6	1213.6	1236.3	1502.6	1535.0	1566.4
37.5°	685.9	680.0	690.8	796.0	775.4	756.7	762.6	903.1	996.5	1020.1
40°	452.0	451.1	458.9	477.6	513.0	506.1	509.0	571.9	660.4	681.0
42.5°	302.7	303.7	308.6	330.2	335.1	370.5	364.6	379.3	461.9	479.6
45°	241.7	240.8	243.7	233.9	239.8	276.1	280.1	281.1	351.8	362.6
47.5°	190.6	190.6	193.6	180.8	177.9	200.5	221.1	224.1	281.1	295.8
50°	133.6	133.6	148.4	142.5	149.4	156.3	178.9	181.8	230.0	245.7
52.5°	98.3	100.2	102.2	103.2	125.8	124.8	144.5	158.2	173.9	201.5
55°	74.7	76.7	71.7	76.7	93.4	104.2	108.1	127.8	138.6	169.0
57.5°	49.1	54.0	50.1	59.0	62.9	80.6	86.5	105.2	112.0	138.6
60°	6.9	7.9	12.8	41.3	44.2	53.1	66.8	83.5	90.4	113.0
62.5°	1.0	1.0	2.9	6.9	29.5	35.4	50.1	58.0	66.8	84.5
65°	0.0	0.0	1.0	2.0	5.9	20.6	25.6	31.4	46.2	60.9
67.5°	0.0	0.0	1.0	2.0	2.9	6.9	10.8	20.6	26.5	42.3
70°	0.0	0.0	1.0	2.0	2.9	3.9	5.9	7.9	15.7	24.6
72.5°	0.0	0.0	1.0	2.0	2.9	3.9	4.9	5.9	6.9	15.7
75°	0.0	0.0	1.0	2.0	2.9	4.9	5.9	5.9	5.9	6.9
77.5°	0.0	0.0	1.0	2.0	3.9	5.9	6.9	5.9	4.9	4.9
80°	0.0	0.0	1.0	2.9	4.9	6.9	7.9	5.9	3.9	2.9
82.5°	0.0	0.0	1.0	2.9	4.9	6.9	7.9	6.9	3.9	2.9
85°	0.0	0.0	1.0	2.9	3.9	4.9	7.9	6.9	3.9	2.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	3.9	2.9	2.0	1.0
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°
11872.1	0°	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1	11872.1
11902.6	2.5°	11991.0	12035.3	12112.9	12134.5	12201.3	12124.7	12082.4	12086.4	11995.0
11873.1	5°	11991.0	12092.3	12227.9	12292.7	12341.9	12337.9	12327.1	12299.6	12232.8
11814.1	7.5°	11959.6	12124.7	12311.4	12397.9	12456.8	12451.9	12476.5	12432.3	12350.7
11709.0	10°	11858.4	12001.8	12231.8	12302.6	12397.9	12399.8	12369.4	12378.2	12232.8
11324.8	12.5°	11540.0	11652.0	11853.5	11934.0	12050.0	12068.7	12035.3	12022.5	11884.9
10694.8	15°	10923.8	10988.7	11191.1	11271.7	11386.7	11370.9	11404.4	11390.6	11269.7
9843.8	17.5°	10022.7	10043.3	10255.6	10323.4	10431.5	10473.7	10423.6	10487.5	10383.3
8669.5	20°	8730.4	8841.4	9080.2	9184.4	9247.3	9323.0	9257.1	9328.9	9207.0
7244.5	22.5°	7419.5	7485.3	7701.5	7851.9	7968.8	7983.5	7959.0	8009.1	7845.0
5988.6	25°	5987.7	6096.7	6267.7	6464.3	6579.2	6650.0	6586.1	6618.6	6592.0
4644.3	27.5°	4722.9	4820.2	4948.9	5095.4	5268.3	5360.7	5309.6	5364.6	5234.9
3463.1	30°	3466.0	3515.2	3660.6	3815.9	4005.5	4117.6	4122.5	4178.5	4101.8
2426.3	32.5°	2444.0	2487.2	2576.7	2679.9	2860.7	2985.5	2965.8	2973.7	2926.5
1581.2	35°	1589.0	1647.0	1710.9	1760.0	1869.1	2006.7	1995.9	1986.1	1953.6
1039.7	37.5°	1062.3	1084.9	1120.3	1164.5	1235.3	1321.7	1350.2	1314.9	1301.1
701.7	40°	718.4	757.7	781.3	814.7	848.1	920.8	940.5	933.6	919.8
491.4	42.5°	510.0	540.5	570.0	602.4	620.1	665.3	703.6	692.8	686.9
373.4	45°	387.2	414.7	449.1	473.7	491.4	517.9	554.2	558.2	549.3
299.7	47.5°	310.5	335.1	362.6	393.1	413.7	430.4	461.9	473.7	467.8
252.6	50°	263.4	282.0	308.6	339.0	361.6	376.4	403.9	416.7	412.7
211.3	52.5°	224.1	246.7	271.2	296.8	324.3	339.0	364.6	383.3	380.3
174.9	55°	185.7	215.2	240.8	266.3	297.8	312.5	335.1	359.7	354.8
148.4	57.5°	162.1	186.7	213.2	237.8	271.2	290.9	311.5	337.1	336.1
121.9	60°	135.6	160.2	189.7	210.3	245.7	273.2	291.9	318.4	320.4
92.4	62.5°	108.1	138.6	161.2	189.7	222.1	254.5	272.2	298.7	308.6
70.8	65°	80.6	114.0	139.5	168.0	198.5	234.9	250.6	277.1	287.0
51.1	67.5°	59.9	85.5	117.9	142.5	176.9	208.3	227.0	251.6	258.5
30.5	70°	45.2	65.8	98.3	119.9	155.3	180.8	199.5	218.2	227.0
20.6	72.5°	26.5	49.1	77.6	103.2	133.6	155.3	169.0	183.8	189.7
9.8	75°	18.7	37.3	60.9	85.5	108.1	125.8	138.6	151.3	157.2
4.9	77.5°	9.8	27.5	48.2	68.8	84.5	99.3	112.0	121.9	125.8
3.9	80°	5.9	19.7	39.3	54.0	64.9	77.6	90.4	97.3	96.3
2.9	82.5°	3.9	15.7	28.5	39.3	47.2	57.0	65.8	70.8	70.8
2.0	85°	2.9	10.8	19.7	30.5	31.4	39.3	41.3	46.2	47.2
2.0	87.5°	2.0	6.9	10.8	17.7	16.7	20.6	21.6	24.6	26.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11872.1
11921.3
12254.4
12369.4
12190.5
11853.5
11308.1
10357.8
9197.2
7822.4
6575.3
5268.3
4115.6
2953.0
1925.1
1298.2
921.8
682.0
548.4
464.8
411.8
378.3
354.8
335.1
320.4
307.6
286.0
258.5
225.0
187.7
155.3
124.8
95.3
69.8
46.2
25.6
0.0

(END OF REPORT)