

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: P637694

Luminaire Tested: **IFLD-S-SA2A-760-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637694
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8870.8 lumens
Efficiency: N/A
Efficacy: 139.0 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): 63.8
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



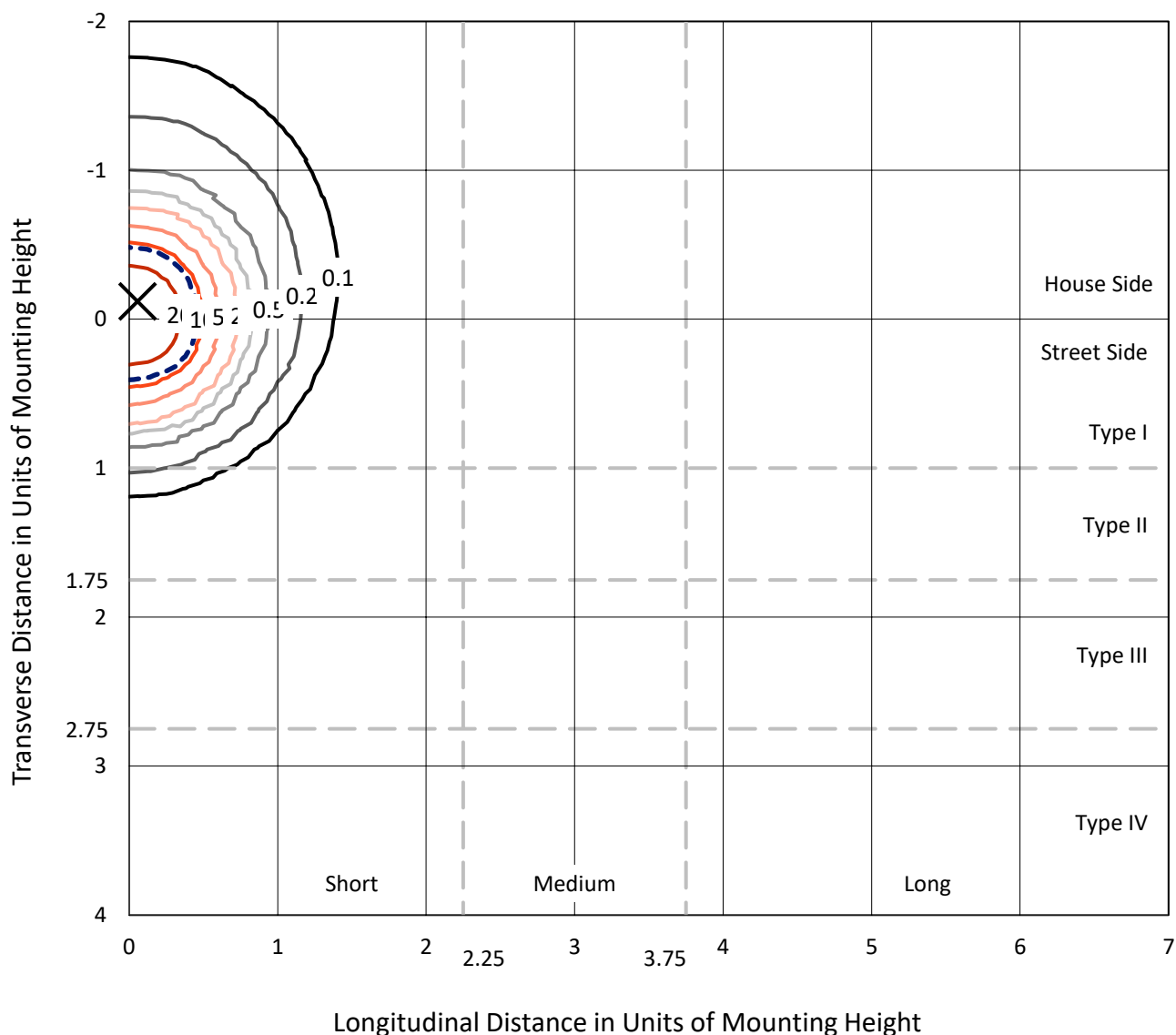
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



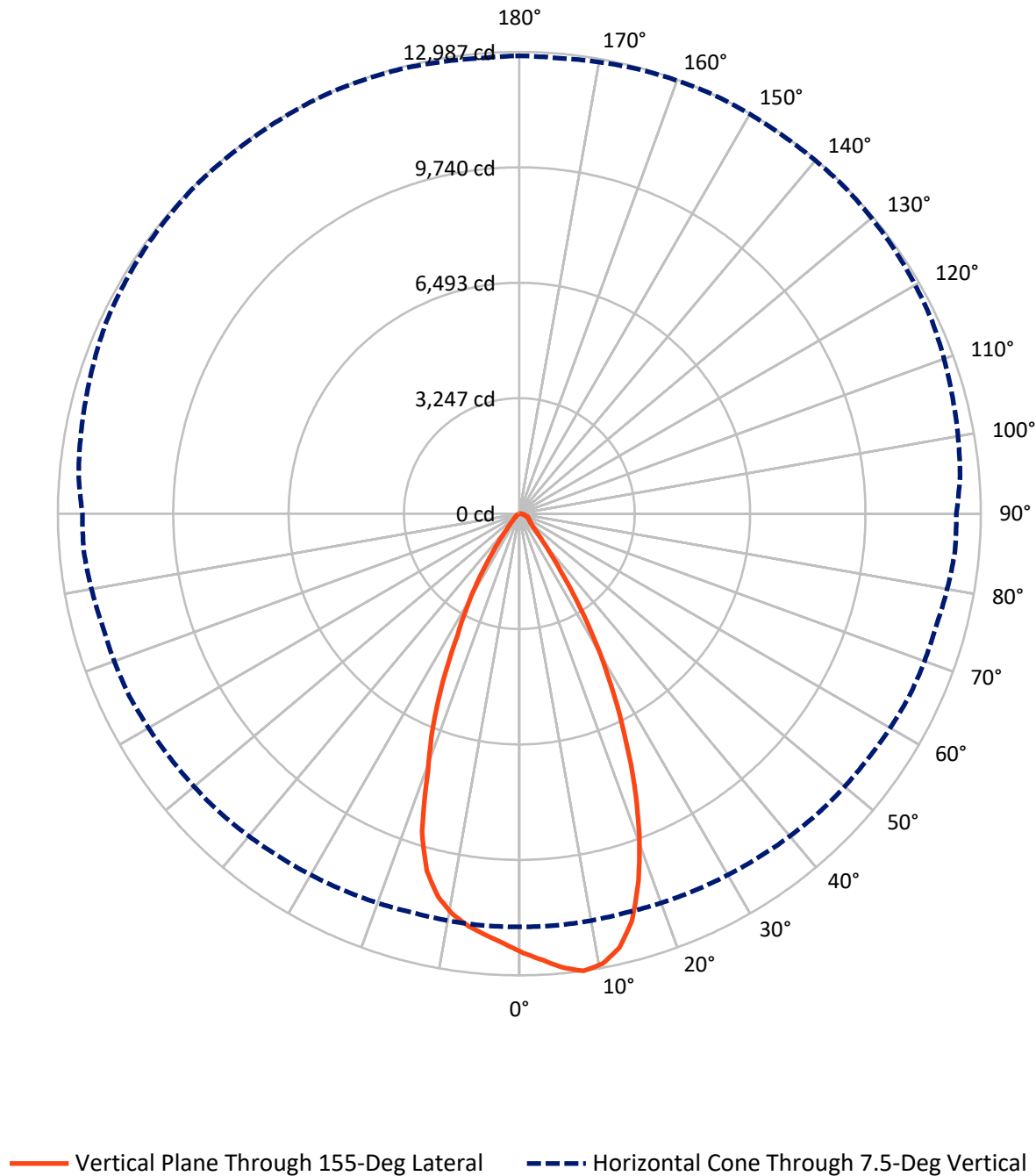
Based on 20 foot mounting height. Maximum calculated value = 31.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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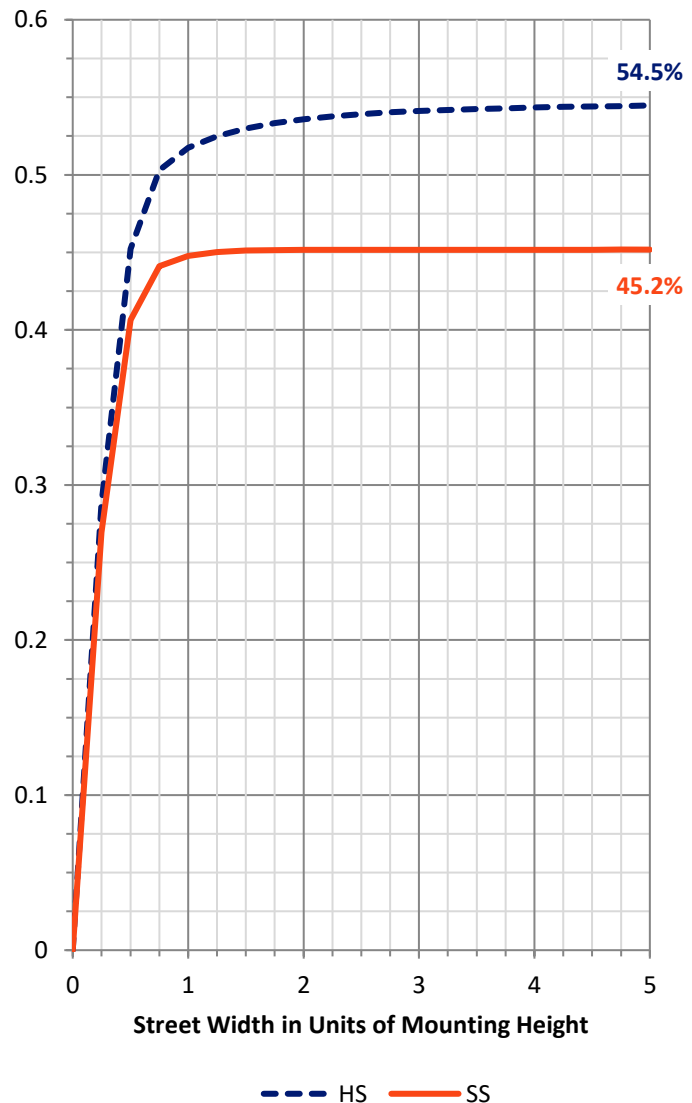
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4897.0	0.0	4897.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3973.8	0.0	3973.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	8870.8	0.0	8870.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.4	13.3
10°-20°	3055.6	34.4
20°-30°	2799.8	31.6
30°-40°	1131.1	12.8
40°-50°	331.8	3.7
50°-60°	185.5	2.1
60°-70°	112.7	1.3
70°-80°	57.2	0.6
80°-90°	18.7	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°	8870.8	100.0
0°-180°	8870.8	100.0

Coefficient of Utilization



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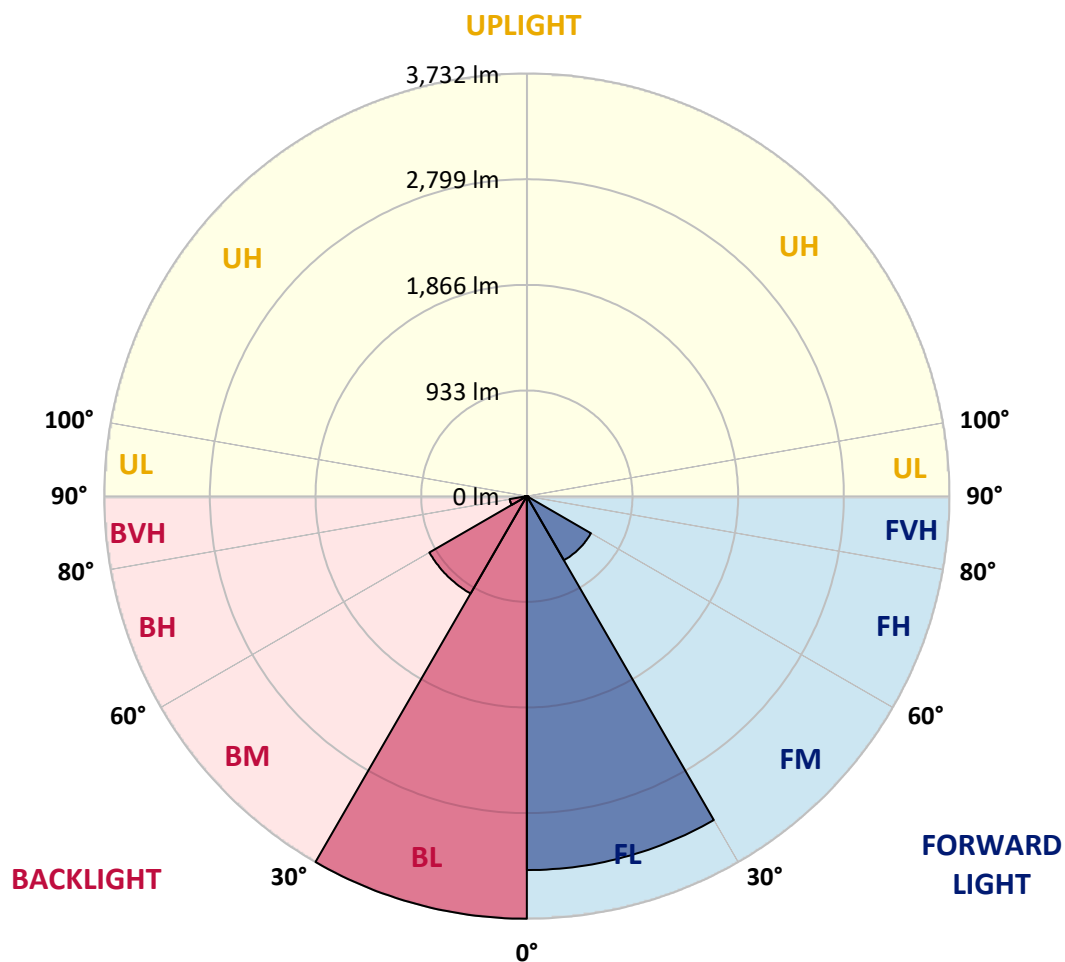
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3301.9	37.2			
FM	(30°-60°)	654.4	7.4			
FH	(60°-80°)	15.8	0.2			G0/660
FVH	(80°-90°)	1.6	0.0			G0/10
BL	(0°-30°)	3731.8	42.1	B4/5000		
BM	(30°-60°)	994.1	11.2	B1/1000		
BH	(60°-80°)	154.1	1.7	B1/500		G1/500
BVH	(80°-90°)	17.1	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°	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7
2.5°	12089.7	12130.6	12048.8	12103.0	12144.9	12245.2	12253.4	12288.2	12300.4	12391.5
5°	11860.6	11892.3	11825.8	11898.4	11957.8	12046.7	12115.3	12211.4	12264.6	12372.0
7.5°	11622.2	11629.4	11616.1	11692.8	11781.8	11904.6	11989.5	12115.3	12148.0	12301.5
10°	11333.8	11281.6	11307.2	11419.7	11552.7	11740.9	11799.2	11925.0	11983.3	12139.8
12.5°	10873.5	10900.1	10868.4	11011.6	11122.0	11335.8	11397.2	11524.0	11635.5	11773.6
15°	10225.0	10209.6	10274.1	10385.6	10505.2	10675.0	10774.3	10912.3	10997.2	11140.5
17.5°	8767.3	8819.5	9085.4	9364.7	9610.2	9808.6	9927.3	10041.9	10103.2	10258.7
20°	7571.5	7506.1	7541.9	7699.4	8398.0	8701.9	8826.6	8854.3	8879.8	9002.6
22.5°	6234.6	6213.1	6332.8	6509.8	6675.5	7376.2	7546.0	7481.5	7534.7	7650.3
25°	4629.7	4738.1	4844.5	5184.1	5398.9	5742.6	6064.8	6093.4	6112.9	6185.5
27.5°	3768.4	3730.5	3728.5	3823.6	4140.7	4427.1	4701.3	4764.7	4753.4	4823.0
30°	2962.3	2950.1	2907.1	2929.6	2897.9	3152.6	3281.5	3542.3	3528.0	3530.0
32.5°	2136.8	2090.8	2073.4	2107.2	2074.5	2050.9	2163.4	2458.0	2452.9	2473.4
35°	1293.0	1286.8	1301.1	1330.8	1265.3	1263.3	1286.8	1564.0	1597.8	1630.5
37.5°	714.0	707.9	719.1	828.6	807.1	787.6	793.8	940.0	1037.2	1061.8
40°	470.5	469.5	477.7	497.1	534.0	526.8	529.9	595.3	687.4	708.9
42.5°	315.1	316.1	321.2	343.7	348.8	385.6	379.5	394.8	480.8	499.2
45°	251.6	250.6	253.7	243.5	249.6	287.4	291.5	292.6	366.2	377.5
47.5°	198.4	198.4	201.5	188.2	185.1	208.7	230.2	233.2	292.6	307.9
50°	139.1	139.1	154.5	148.3	155.5	162.6	186.2	189.2	239.4	255.7
52.5°	102.3	104.3	106.4	107.4	130.9	129.9	150.4	164.7	181.1	209.7
55°	77.7	79.8	74.7	79.8	97.2	108.4	112.5	133.0	144.2	175.9
57.5°	51.1	56.3	52.2	61.4	65.5	83.9	90.0	109.5	116.6	144.2
60°	7.2	8.2	13.3	43.0	46.0	55.2	69.6	86.9	94.1	117.6
62.5°	1.0	1.0	3.1	7.2	30.7	36.8	52.2	60.4	69.6	88.0
65°	0.0	0.0	1.0	2.0	6.1	21.5	26.6	32.7	48.1	63.4
67.5°	0.0	0.0	1.0	2.0	3.1	7.2	11.3	21.5	27.6	44.0
70°	0.0	0.0	1.0	2.0	3.1	4.1	6.1	8.2	16.4	25.6
72.5°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	6.1	7.2	16.4
75°	0.0	0.0	1.0	2.0	3.1	5.1	6.1	6.1	6.1	7.2
77.5°	0.0	0.0	1.0	2.0	4.1	6.1	7.2	6.1	5.1	5.1
80°	0.0	0.0	1.0	3.1	5.1	7.2	8.2	6.1	4.1	3.1
82.5°	0.0	0.0	1.0	3.1	5.1	7.2	8.2	7.2	4.1	3.1
85°	0.0	0.0	1.0	3.1	4.1	5.1	8.2	7.2	4.1	2.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	4.1	3.1	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°
12357.7	0°	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7	12357.7
12389.4	2.5°	12481.5	12527.5	12608.3	12630.8	12700.4	12620.6	12576.6	12580.7	12485.6
12358.7	5°	12481.5	12586.8	12728.0	12795.5	12846.7	12842.6	12831.3	12802.7	12733.1
12297.4	7.5°	12448.8	12620.6	12815.0	12905.0	12966.3	12961.2	12986.8	12940.8	12855.9
12187.9	10°	12343.4	12492.7	12732.1	12805.7	12905.0	12907.0	12875.3	12884.5	12733.1
11788.0	12.5°	12012.0	12128.6	12338.3	12422.2	12542.9	12562.3	12527.5	12514.2	12371.0
11132.3	15°	11370.6	11438.1	11648.8	11732.7	11852.4	11836.0	11870.8	11856.5	11730.7
10246.4	17.5°	10432.6	10454.1	10675.0	10745.6	10858.1	10902.1	10850.0	10916.4	10808.0
9024.1	20°	9087.5	9203.1	9451.6	9560.1	9625.5	9704.3	9635.8	9710.4	9583.6
7540.9	22.5°	7722.9	7791.5	8016.5	8173.0	8294.7	8310.1	8284.5	8336.7	8165.8
6233.6	25°	6232.6	6346.1	6524.1	6728.7	6848.3	6922.0	6855.5	6889.3	6861.6
4834.2	27.5°	4916.1	5017.3	5151.3	5303.8	5483.8	5579.9	5526.8	5584.0	5449.0
3604.7	30°	3607.8	3658.9	3810.3	3971.9	4169.4	4286.0	4291.1	4349.4	4269.6
2525.6	32.5°	2544.0	2589.0	2682.1	2789.5	2977.7	3107.6	3087.1	3095.3	3046.2
1645.9	35°	1654.0	1714.4	1780.9	1832.0	1945.6	2088.8	2077.5	2067.3	2033.5
1082.2	37.5°	1105.8	1129.3	1166.1	1212.1	1285.8	1375.8	1405.5	1368.6	1354.3
730.4	40°	747.7	788.7	813.2	848.0	882.8	958.5	978.9	971.8	957.4
511.5	42.5°	530.9	562.6	593.3	627.0	645.5	692.5	732.4	721.1	715.0
388.7	45°	403.0	431.7	467.5	493.0	511.5	539.1	576.9	581.0	571.8
312.0	47.5°	323.2	348.8	377.5	409.2	430.6	448.0	480.8	493.0	486.9
262.9	50°	274.1	293.6	321.2	352.9	376.4	391.8	420.4	433.7	429.6
219.9	52.5°	233.2	256.7	282.3	308.9	337.6	352.9	379.5	398.9	395.9
182.1	55°	193.3	224.0	250.6	277.2	309.9	325.3	348.8	374.4	369.3
154.5	57.5°	168.8	194.4	222.0	247.5	282.3	302.8	324.3	350.9	349.8
126.8	60°	141.2	166.7	197.4	218.9	255.7	284.4	303.8	331.4	333.5
96.2	62.5°	112.5	144.2	167.8	197.4	231.2	264.9	283.3	311.0	321.2
73.6	65°	83.9	118.7	145.3	174.9	206.6	244.5	260.8	288.5	298.7
53.2	67.5°	62.4	89.0	122.7	148.3	184.1	216.9	236.3	261.9	269.0
31.7	70°	47.1	68.5	102.3	124.8	161.6	188.2	207.6	227.1	236.3
21.5	72.5°	27.6	51.1	80.8	107.4	139.1	161.6	175.9	191.3	197.4
10.2	75°	19.4	38.9	63.4	89.0	112.5	130.9	144.2	157.5	163.7
5.1	77.5°	10.2	28.6	50.1	71.6	88.0	103.3	116.6	126.8	130.9
4.1	80°	6.1	20.5	40.9	56.3	67.5	80.8	94.1	101.3	100.2
3.1	82.5°	4.1	16.4	29.7	40.9	49.1	59.3	68.5	73.6	73.6
2.0	85°	3.1	11.3	20.5	31.7	32.7	40.9	43.0	48.1	49.1
2.0	87.5°	2.0	7.2	11.3	18.4	17.4	21.5	22.5	25.6	27.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
12357.7
12408.9
12755.6
12875.3
12689.1
12338.3
11770.6
10781.4
9573.4
8142.3
6844.3
5483.8
4283.9
3073.8
2003.9
1351.3
959.5
709.9
570.8
483.8
428.6
393.8
369.3
348.8
333.5
320.2
297.7
269.0
234.2
195.4
161.6
129.9
99.2
72.6
48.1
26.6
0.0

(END OF REPORT)