

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: P636434

Luminaire Tested: **IFLD-M-SA4B-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636434
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11965.1 lumens
Efficiency: N/A
Efficacy: 72.0 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): 166.1
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



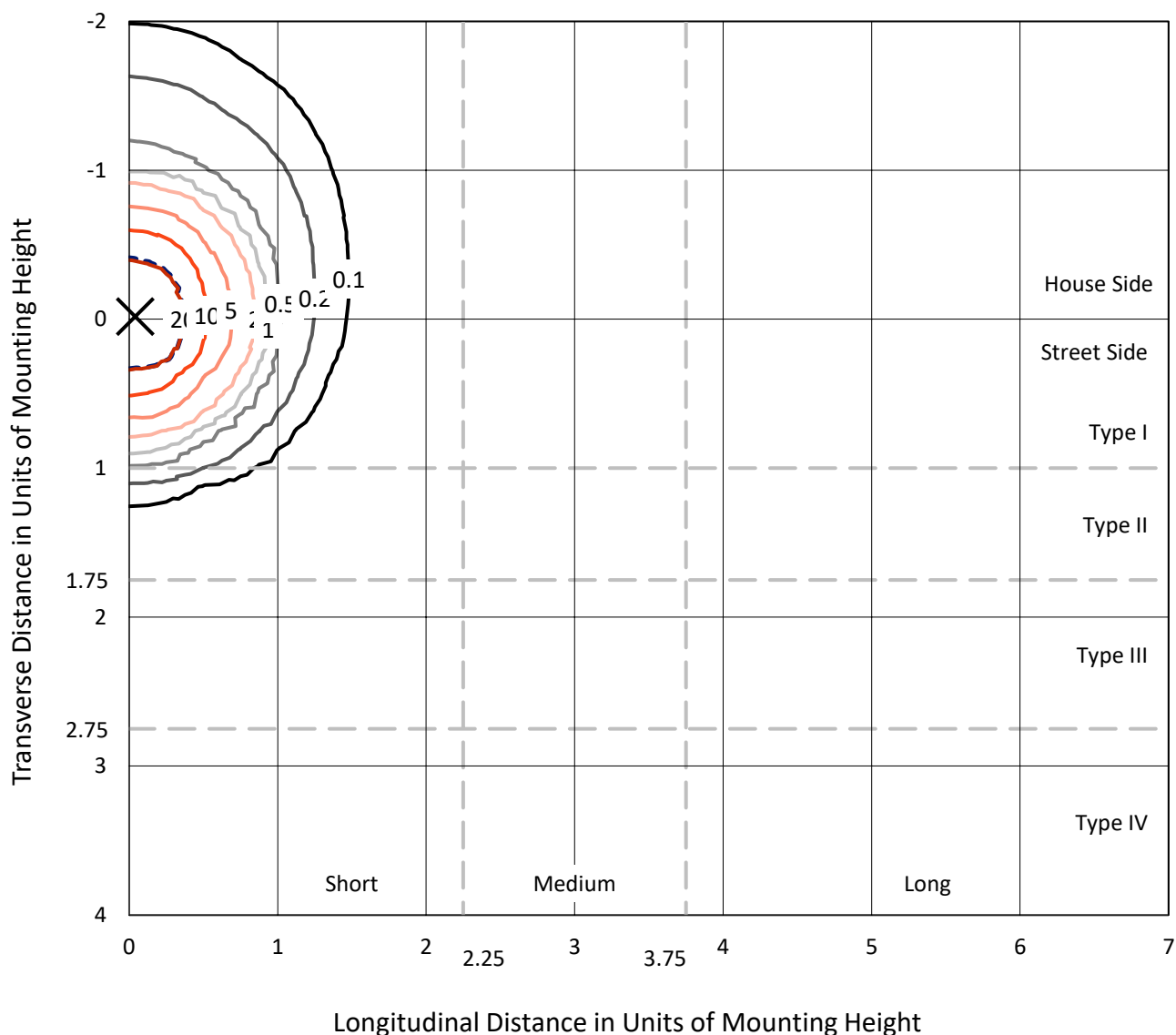
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

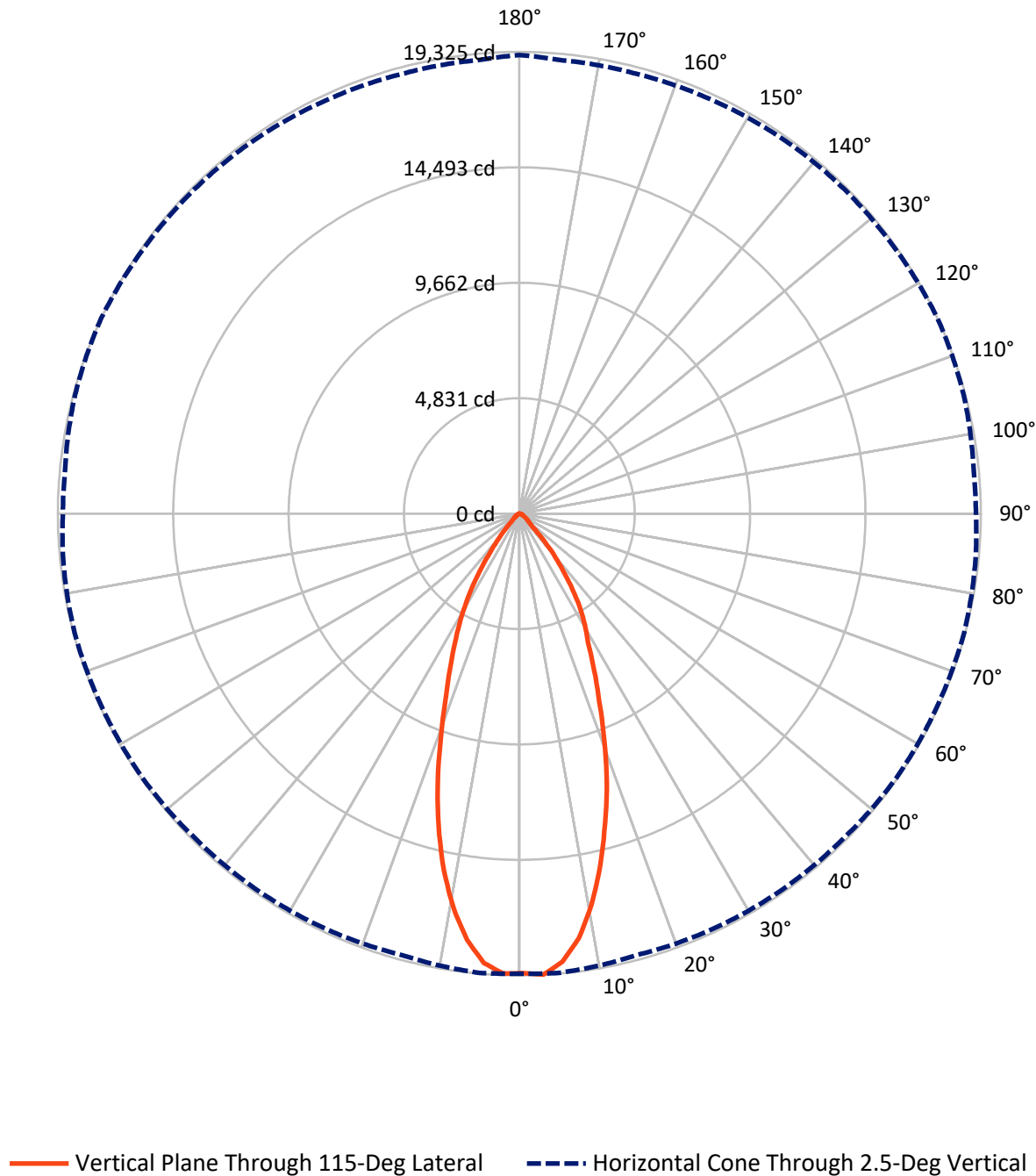


Based on 20 foot mounting height. Maximum calculated value = 48.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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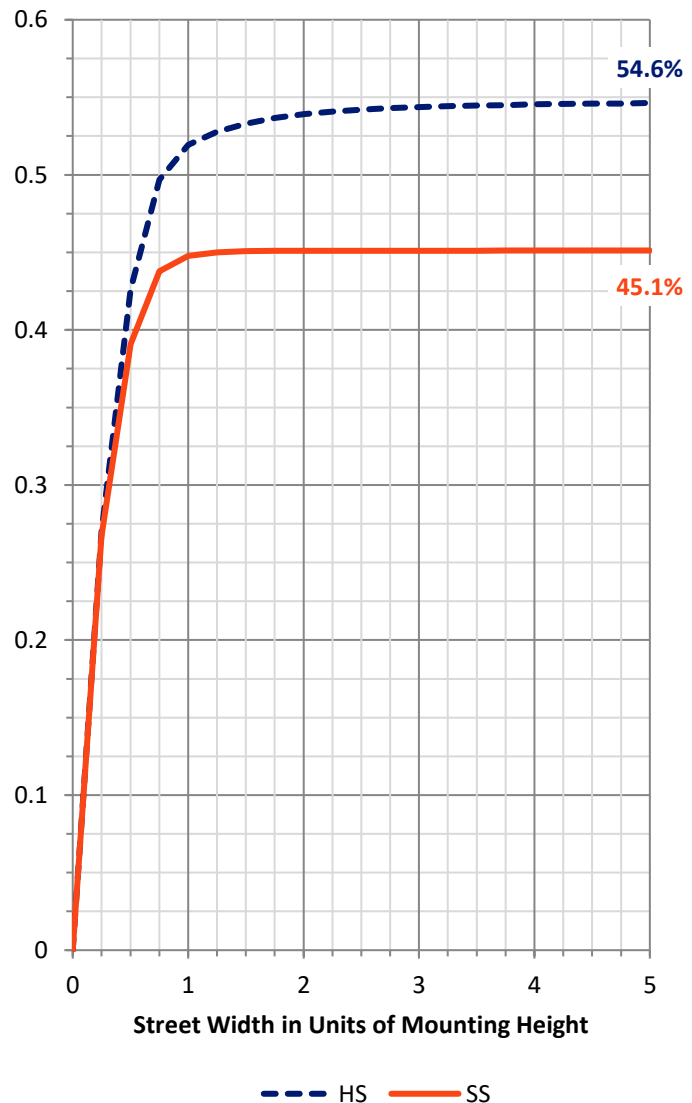
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6603.4	0.0	6603.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5361.7	0.0	5361.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	11965.1	0.0	11965.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1725.1	14.4
10°-20°	3646.0	30.5
20°-30°	3290.8	27.5
30°-40°	2177.7	18.2
40°-50°	652.3	5.5
50°-60°	261.7	2.2
60°-70°	135.5	1.1
70°-80°	58.8	0.5
80°-90°	17.1	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°	11965.1	100.0
0°-180°	11965.1	100.0

Coefficient of Utilization



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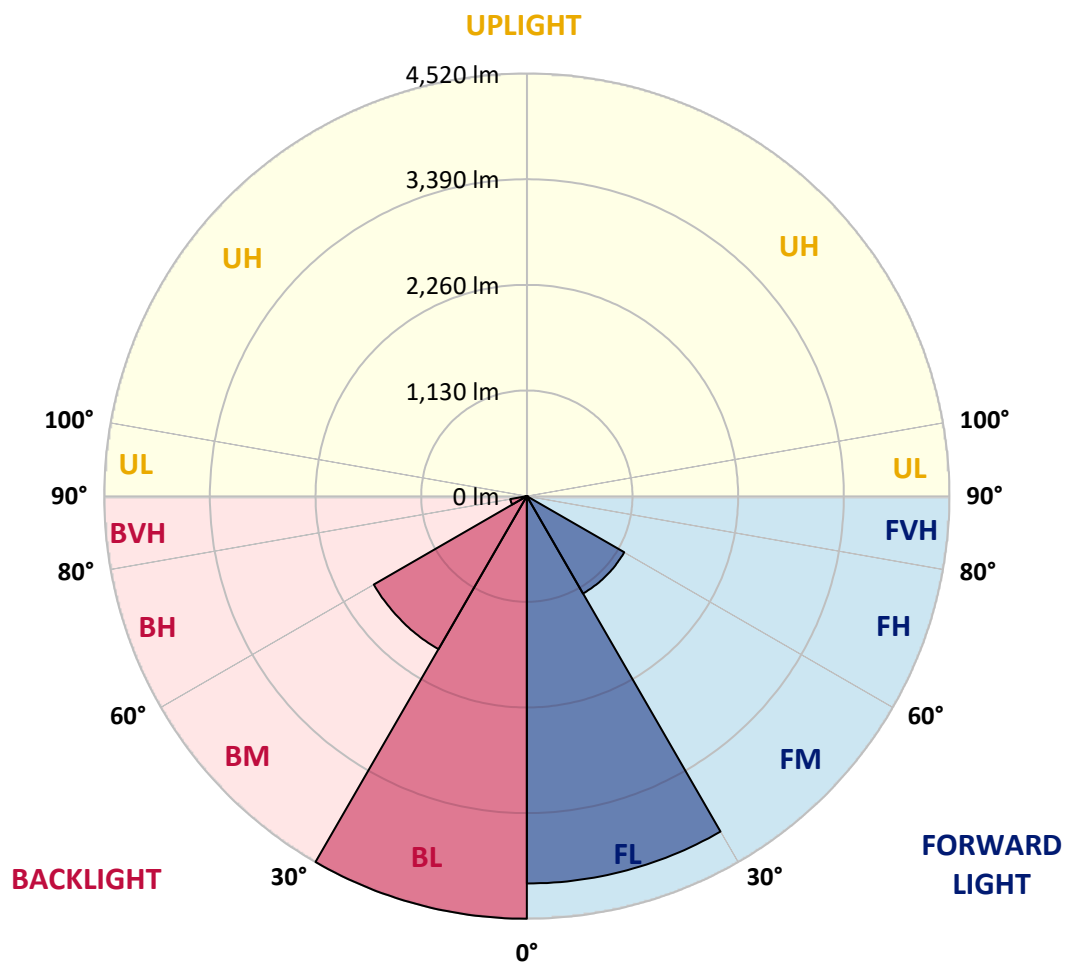
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4142.4	34.6			
FM	(30°-60°)	1202.0	10.0			
FH	(60°-80°)	14.9	0.1			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	4519.5	37.8	B4/5000		
BM	(30°-60°)	1889.7	15.8	B2/2500		
BH	(60°-80°)	179.4	1.5	B1/500		G1/500
BVH	(80°-90°)	14.7	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°	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0
2.5°	19258.4	19292.7	19121.4	19180.1	19204.6	19211.9	19273.1	19263.3	19280.4	19189.9
5°	19003.9	18937.9	18810.6	18813.1	18805.7	18737.2	18876.7	18866.9	18837.5	18729.9
7.5°	18137.7	18233.1	17993.3	17988.4	17983.5	17900.3	18083.8	17971.3	17995.7	17841.6
10°	16870.1	16882.3	16669.4	16649.9	16667.0	16559.3	16772.2	16728.2	16774.7	16613.1
12.5°	15316.2	15384.7	15149.8	15115.5	15184.1	15032.3	15203.6	15225.7	15157.1	15135.1
15°	12012.7	12193.7	12639.1	13319.4	13495.6	13368.3	13505.4	13502.9	13532.3	13365.9
17.5°	9152.0	9169.2	9063.9	9389.4	11273.6	11885.4	11914.8	11682.3	11506.1	11444.9
20°	7989.7	8048.4	7953.0	7979.9	8280.9	10074.6	10143.1	9793.2	9492.2	9467.7
22.5°	7064.7	7101.4	7032.9	7054.9	7069.6	7280.0	8471.7	8163.4	8019.0	7908.9
25°	6281.6	6281.6	6244.9	6252.3	6237.6	5926.8	6538.6	6890.9	6807.7	6768.6
27.5°	5567.1	5576.9	5530.4	5557.3	5378.7	4877.0	4803.6	5843.6	5755.5	5684.5
30°	4889.2	4921.1	4877.0	4891.7	4502.6	4091.5	3881.0	4874.6	4984.7	4965.1
32.5°	3680.4	3824.8	4179.6	4194.3	3665.7	3350.0	3257.0	3912.9	4331.3	4294.6
35°	2280.7	2273.3	2288.0	2992.8	2811.7	2596.3	2630.6	2956.1	3428.3	3411.2
37.5°	1739.9	1737.4	1764.3	1693.4	1842.6	1969.9	1996.8	1996.8	2503.4	2505.8
40°	1319.0	1309.2	1306.7	1194.2	1000.9	1478.0	1434.0	1397.3	1739.9	1776.6
42.5°	841.8	871.2	849.1	726.8	653.4	807.5	900.5	871.2	1074.3	1101.2
45°	469.8	469.8	450.3	381.7	379.3	408.7	513.9	479.6	550.6	587.3
47.5°	227.6	222.7	244.7	301.0	313.2	303.4	367.1	381.7	416.0	450.3
50°	183.5	183.5	173.7	156.6	259.4	249.6	271.6	291.2	310.8	340.1
52.5°	154.2	154.2	141.9	132.1	149.3	190.9	193.3	230.0	227.6	269.2
55°	78.3	80.8	115.0	115.0	100.3	156.6	159.1	186.0	190.9	225.1
57.5°	7.3	9.8	14.7	71.0	78.3	85.6	119.9	137.0	159.1	173.7
60°	2.4	2.4	4.9	9.8	46.5	58.7	75.9	90.5	110.1	144.4
62.5°	0.0	0.0	2.4	4.9	9.8	36.7	41.6	46.5	66.1	90.5
65°	0.0	0.0	2.4	2.4	4.9	12.2	17.1	29.4	41.6	56.3
67.5°	0.0	0.0	2.4	2.4	4.9	7.3	9.8	14.7	19.6	36.7
70°	0.0	0.0	2.4	2.4	4.9	7.3	7.3	9.8	12.2	17.1
72.5°	0.0	0.0	2.4	2.4	4.9	9.8	7.3	7.3	9.8	12.2
75°	0.0	0.0	2.4	2.4	4.9	7.3	7.3	7.3	7.3	7.3
77.5°	0.0	0.0	2.4	2.4	4.9	7.3	7.3	7.3	4.9	4.9
80°	0.0	0.0	2.4	2.4	4.9	7.3	9.8	9.8	4.9	4.9
82.5°	0.0	0.0	2.4	4.9	4.9	12.2	14.7	12.2	4.9	2.4
85°	0.0	0.0	2.4	2.4	7.3	12.2	12.2	7.3	4.9	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	7.3	7.3	2.4	2.4
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°
19234.0	0°	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0	19234.0
19116.5	2.5°	19106.7	19256.0	19324.5	19253.5	19219.3	19170.3	19099.4	19050.4	19060.2
18671.1	5°	18629.5	18786.1	18840.0	18778.8	18727.4	18700.5	18688.3	18712.7	18776.4
17775.5	7.5°	17770.6	17870.9	17929.7	17900.3	17829.3	17910.1	17932.1	17917.4	18010.4
16564.2	10°	16569.1	16679.2	16625.4	16637.6	16554.4	16596.0	16583.8	16637.6	16730.6
15118.0	12.5°	15020.1	15125.3	15083.7	15076.4	14988.3	15066.6	15017.7	15076.4	15198.7
13297.4	15°	13392.8	13458.9	13432.0	13390.4	13312.0	13339.0	13490.7	13480.9	13534.7
11408.2	17.5°	11359.3	11677.4	11851.2	11887.9	11824.2	11878.1	11985.7	11958.8	12081.2
9416.3	20°	9399.2	9719.8	10148.0	10495.5	10502.8	10510.2	10578.7	10595.8	10701.0
7911.4	22.5°	7877.1	8104.7	8564.7	9024.8	9342.9	9409.0	9401.6	9426.1	9455.5
6714.8	25°	6697.6	6864.0	7284.9	7603.0	8161.0	8346.9	8400.8	8346.9	8364.1
5660.1	27.5°	5723.7	5978.2	6117.7	6457.8	7003.5	7434.2	7417.1	7385.3	7390.1
4925.9	30°	4923.5	5197.6	5403.1	5505.9	5917.0	6538.6	6602.2	6511.6	6514.1
4277.5	32.5°	4250.6	4336.2	4639.6	4722.8	4987.1	5552.4	5770.2	5701.7	5689.4
3421.0	35°	3521.3	3567.8	3707.3	3871.3	4027.9	4456.1	4815.8	4752.2	4784.0
2515.6	37.5°	2505.8	2696.7	2831.3	2965.8	3078.4	3347.6	3780.7	3722.0	3753.8
1781.5	40°	1766.8	1852.4	2084.9	2143.6	2310.0	2434.8	2801.9	2782.3	2821.5
1106.1	42.5°	1086.5	1147.7	1265.1	1321.4	1434.0	1504.9	1720.3	1744.8	1796.1
611.8	45°	616.7	643.6	724.3	785.5	868.7	898.1	973.9	1008.2	1037.6
474.7	47.5°	469.8	499.2	553.0	606.9	675.4	699.9	753.7	805.1	832.0
367.1	50°	384.2	411.1	467.4	511.4	580.0	602.0	646.0	702.3	736.6
279.0	52.5°	291.2	330.4	398.9	445.4	516.3	543.2	584.8	641.1	672.9
230.0	55°	239.8	269.2	330.4	394.0	460.0	496.8	523.7	592.2	626.4
188.4	57.5°	205.6	227.6	266.7	342.6	398.9	452.7	474.7	538.4	572.6
149.3	60°	156.6	190.9	225.1	283.9	347.5	403.8	428.2	484.5	511.4
107.7	62.5°	129.7	151.7	195.8	227.6	298.5	357.3	381.7	433.1	452.7
71.0	65°	90.5	122.4	164.0	183.5	249.6	305.9	340.1	379.3	398.9
41.6	67.5°	53.8	90.5	129.7	156.6	203.1	259.4	296.1	332.8	349.9
24.5	70°	34.3	71.0	102.8	132.1	159.1	212.9	256.9	288.8	281.4
14.7	72.5°	19.6	44.0	75.9	107.7	132.1	178.6	220.2	244.7	173.7
9.8	75°	12.2	31.8	63.6	88.1	107.7	141.9	181.1	186.0	107.7
4.9	77.5°	9.8	24.5	48.9	71.0	73.4	105.2	127.2	144.4	80.8
4.9	80°	4.9	19.6	41.6	58.7	46.5	73.4	97.9	112.6	63.6
2.4	82.5°	4.9	12.2	31.8	41.6	34.3	56.3	71.0	80.8	53.8
2.4	85°	2.4	9.8	17.1	24.5	24.5	36.7	31.8	39.2	34.3
2.4	87.5°	2.4	4.9	9.8	12.2	9.8	14.7	17.1	17.1	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19234.0
19192.4
18908.5
18103.4
16767.3
15220.8
13547.0
12061.6
10679.0
9401.6
8337.2
7397.5
6516.5
5718.8
4813.4
3780.7
2836.2
1854.9
1035.1
844.2
751.2
695.0
636.2
587.3
516.3
455.2
398.9
347.5
259.4
154.2
100.3
80.8
66.1
58.7
34.3
12.2
0.0

(END OF REPORT)