

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: P636542

Luminaire Tested: **IFLD-S-SA3D-950-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636542
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-950-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (48) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13936.3 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 184.1
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

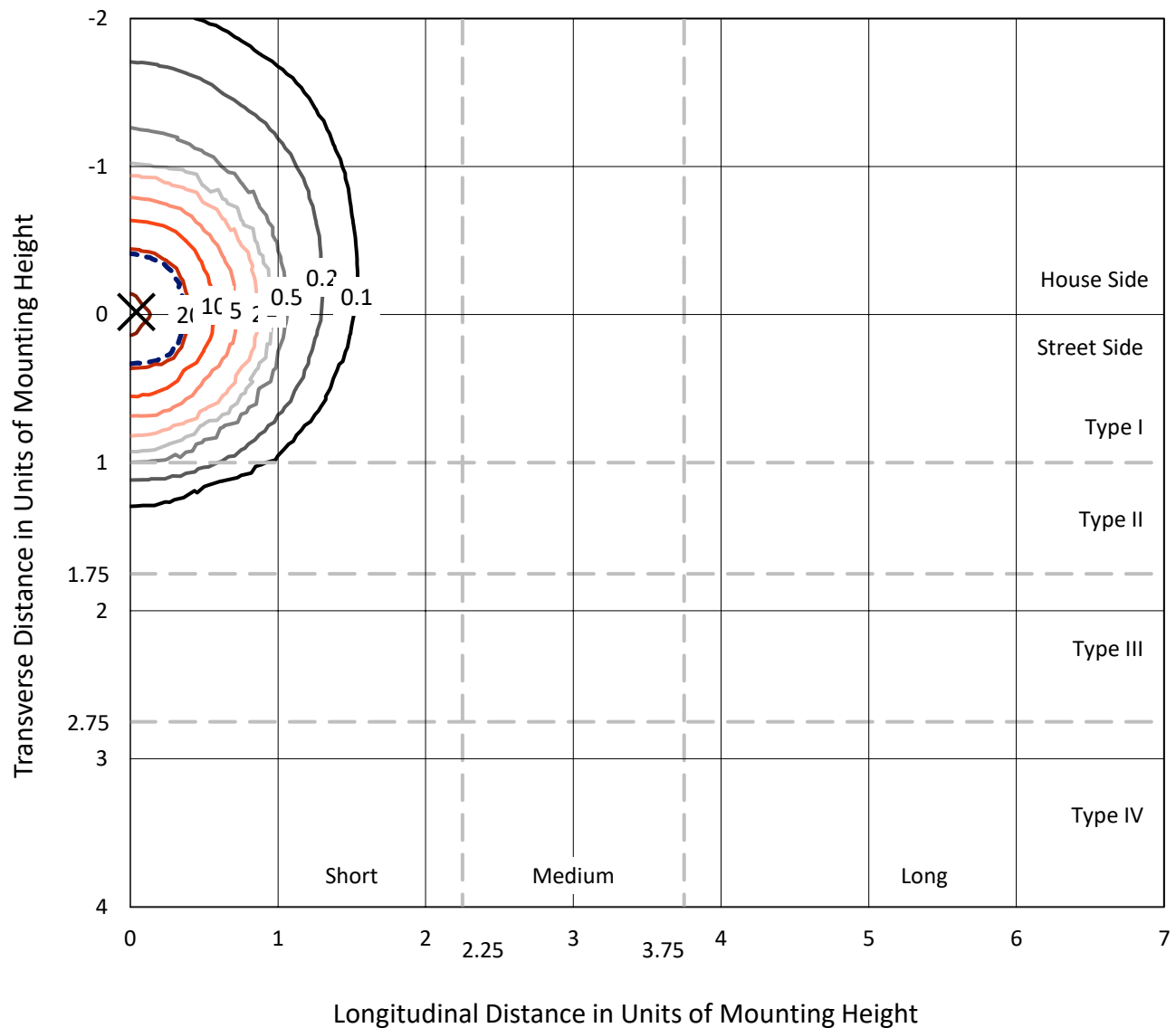


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

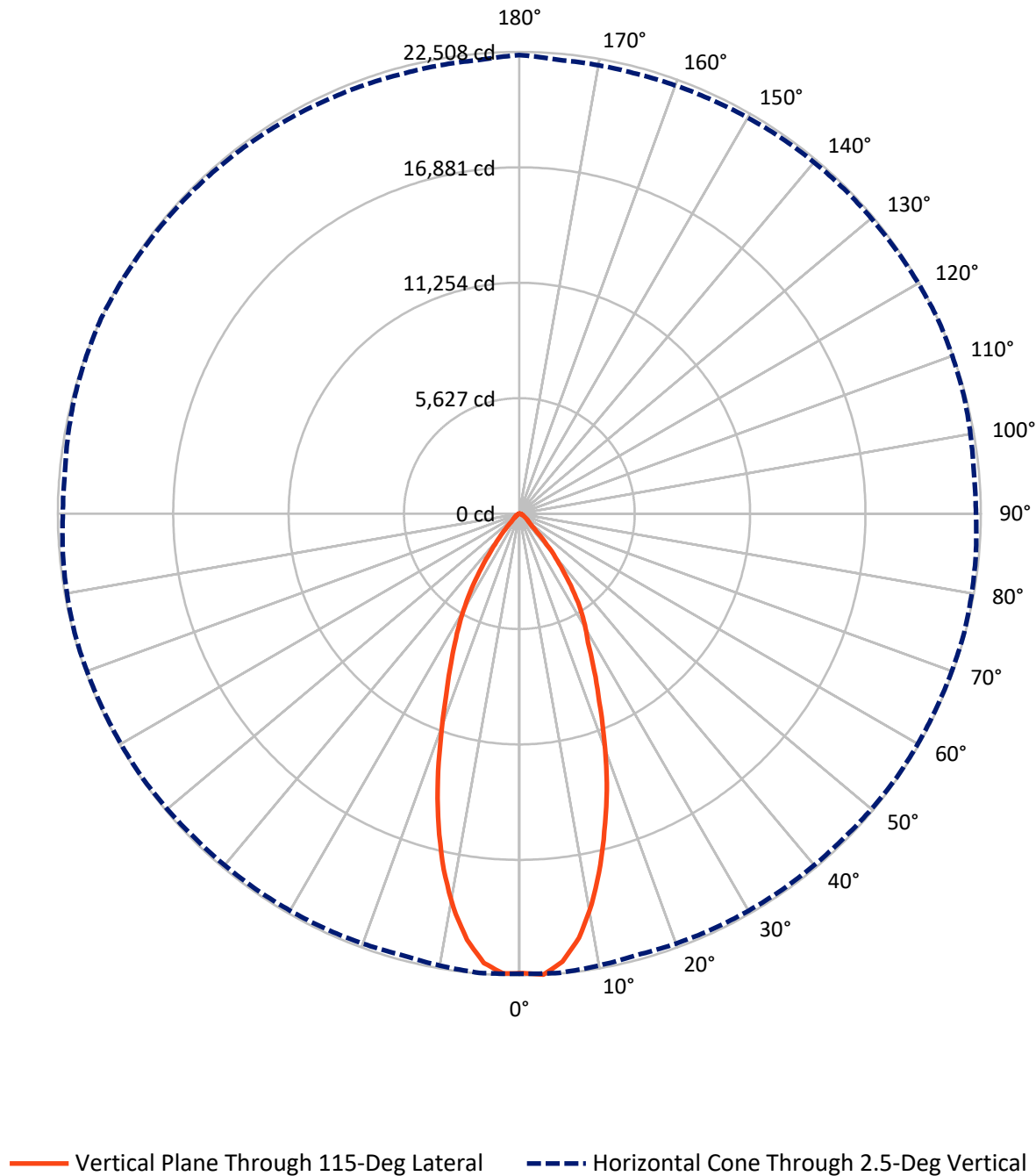


Based on 20 foot mounting height. Maximum calculated value = 56 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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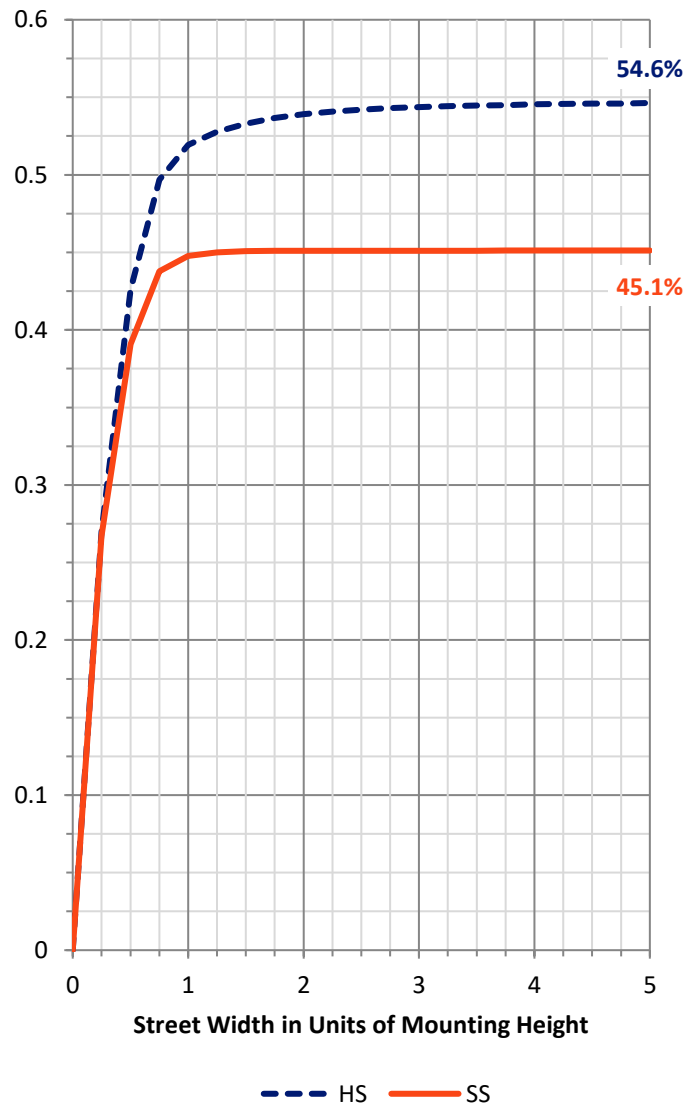
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7691.2	0.0	7691.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6245.1	0.0	6245.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	13936.3	0.0	13936.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2009.3	14.4
10°-20°	4246.7	30.5
20°-30°	3832.9	27.5
30°-40°	2536.4	18.2
40°-50°	759.8	5.5
50°-60°	304.8	2.2
60°-70°	157.8	1.1
70°-80°	68.5	0.5
80°-90°	20.0	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°	13936.3	100.0
0°-180°	13936.3	100.0

Coefficient of Utilization



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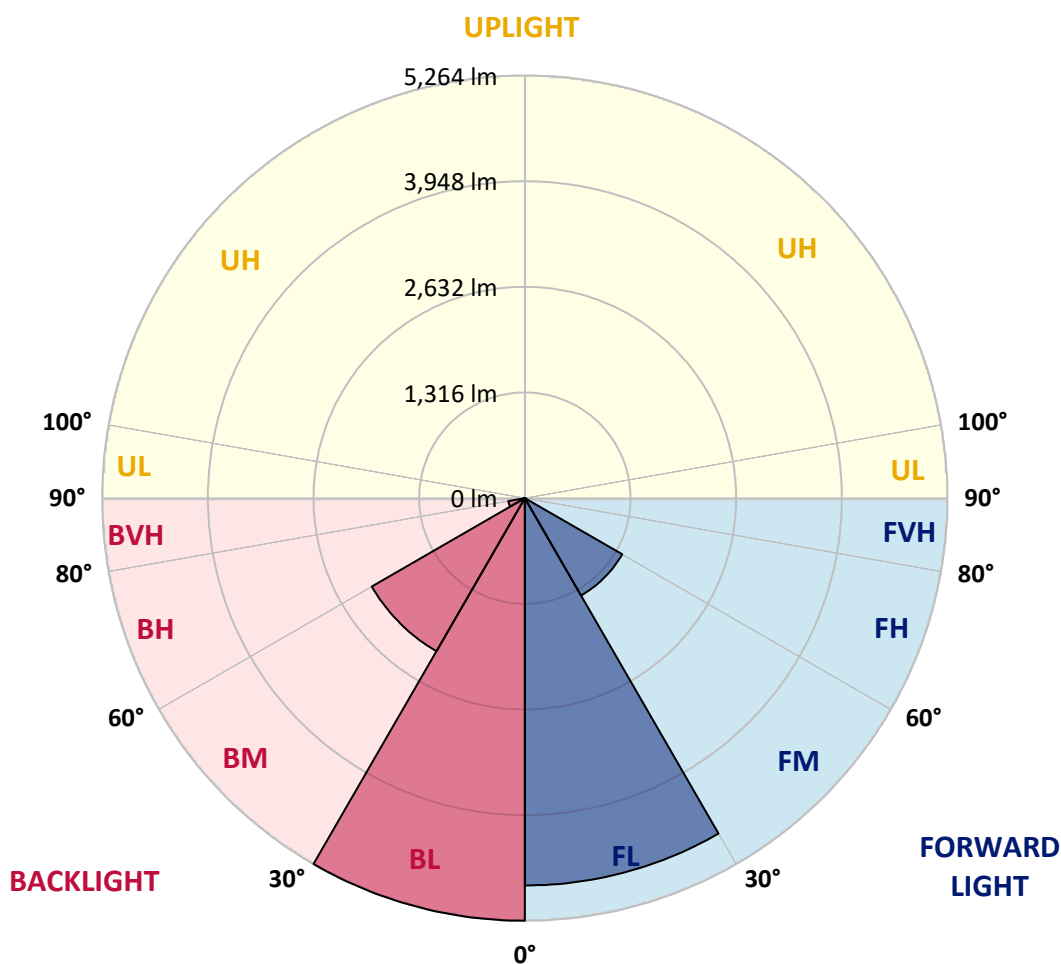
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4824.8	34.6			
FM	(30°-60°)	1400.0	10.0			
FH	(60°-80°)	17.4	0.1			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	5264.1	37.8	B5		
BM	(30°-60°)	2201.0	15.8	B2/2500		
BH	(60°-80°)	209.0	1.5	B1/500		G1/500
BVH	(80°-90°)	17.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4
2.5°	22430.9	22470.8	22271.3	22339.7	22368.2	22376.8	22448.0	22436.6	22456.6	22351.1
5°	22134.5	22057.6	21909.4	21912.2	21903.7	21823.8	21986.3	21974.9	21940.7	21815.3
7.5°	21125.6	21236.7	20957.4	20951.7	20946.0	20849.1	21062.9	20931.7	20960.2	20780.7
10°	19649.2	19663.4	19415.4	19392.6	19412.6	19287.2	19535.2	19483.8	19538.0	19349.9
12.5°	17839.3	17919.1	17645.5	17605.6	17685.4	17508.7	17708.2	17733.8	17654.0	17628.4
15°	13991.5	14202.5	14721.2	15513.5	15718.8	15570.5	15730.2	15727.3	15761.5	15567.7
17.5°	10659.7	10679.6	10557.1	10936.2	13130.8	13843.3	13877.5	13606.8	13401.6	13330.3
20°	9305.8	9374.3	9263.1	9294.4	9645.0	11734.2	11814.0	11406.4	11055.9	11027.4
22.5°	8228.5	8271.2	8191.4	8217.1	8234.2	8479.3	9867.3	9508.2	9340.0	9211.8
25°	7316.4	7316.4	7273.7	7282.2	7265.1	6903.1	7615.7	8026.1	7929.2	7883.6
27.5°	6484.2	6495.6	6441.4	6472.8	6264.7	5680.4	5594.9	6806.2	6703.6	6621.0
30°	5694.7	5731.7	5680.4	5697.5	5244.3	4765.5	4520.4	5677.6	5805.8	5783.0
32.5°	4286.7	4454.8	4868.1	4885.2	4269.6	3901.9	3793.6	4557.4	5044.8	5002.1
35°	2656.4	2647.8	2664.9	3485.8	3274.9	3024.0	3063.9	3443.0	3993.1	3973.2
37.5°	2026.5	2023.6	2055.0	1972.3	2146.2	2294.4	2325.7	2325.7	2915.7	2918.6
40°	1536.2	1524.8	1522.0	1390.9	1165.7	1721.5	1670.2	1627.5	2026.5	2069.2
42.5°	980.5	1014.7	989.0	846.5	761.0	940.6	1048.9	1014.7	1251.2	1282.6
45°	547.2	547.2	524.4	444.6	441.8	476.0	598.5	558.6	641.3	684.0
47.5°	265.1	259.4	285.0	350.6	364.8	353.4	427.5	444.6	484.5	524.4
50°	213.8	213.8	202.4	182.4	302.1	290.7	316.4	339.2	362.0	396.2
52.5°	179.6	179.6	165.3	153.9	173.9	222.3	225.2	267.9	265.1	313.5
55°	91.2	94.1	134.0	134.0	116.9	182.4	185.3	216.6	222.3	262.2
57.5°	8.6	11.4	17.1	82.7	91.2	99.8	139.7	159.6	185.3	202.4
60°	2.9	2.9	5.7	11.4	54.2	68.4	88.4	105.5	128.3	168.2
62.5°	0.0	0.0	2.9	5.7	11.4	42.8	48.5	54.2	77.0	105.5
65°	0.0	0.0	2.9	2.9	5.7	14.3	20.0	34.2	48.5	65.6
67.5°	0.0	0.0	2.9	2.9	5.7	8.6	11.4	17.1	22.8	42.8
70°	0.0	0.0	2.9	2.9	5.7	8.6	8.6	11.4	14.3	20.0
72.5°	0.0	0.0	2.9	2.9	5.7	11.4	8.6	8.6	11.4	14.3
75°	0.0	0.0	2.9	2.9	5.7	8.6	8.6	8.6	8.6	8.6
77.5°	0.0	0.0	2.9	2.9	5.7	8.6	8.6	8.6	5.7	5.7
80°	0.0	0.0	2.9	2.9	5.7	8.6	11.4	11.4	5.7	5.7
82.5°	0.0	0.0	2.9	5.7	5.7	14.3	17.1	14.3	5.7	2.9
85°	0.0	0.0	2.9	2.9	8.6	14.3	14.3	8.6	5.7	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.7	8.6	8.6	2.9	2.9
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°
22402.4	0°	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4	22402.4
22265.6	2.5°	22254.2	22428.1	22507.9	22425.2	22385.3	22328.3	22245.7	22188.7	22200.1
21746.9	5°	21698.4	21880.9	21943.6	21872.3	21812.4	21781.1	21766.8	21795.3	21869.5
20703.7	7.5°	20698.0	20814.9	20883.3	20849.1	20766.4	20860.5	20886.1	20869.0	20977.3
19292.9	10°	19298.6	19426.8	19364.1	19378.4	19281.5	19329.9	19315.7	19378.4	19486.7
17608.4	12.5°	17494.4	17617.0	17568.5	17560.0	17457.4	17548.6	17491.6	17560.0	17702.5
15487.9	15°	15599.1	15676.0	15644.7	15596.2	15505.0	15536.3	15713.1	15701.7	15764.4
13287.6	17.5°	13230.5	13601.1	13803.4	13846.2	13772.1	13834.8	13960.2	13928.8	14071.4
10967.5	20°	10947.6	11320.9	11819.7	12224.4	12233.0	12241.5	12321.3	12341.3	12463.8
9214.6	22.5°	9174.7	9439.8	9975.6	10511.5	10882.0	10959.0	10950.4	10978.9	11013.1
7820.9	25°	7801.0	7994.8	8485.0	8855.5	9505.4	9722.0	9784.7	9722.0	9741.9
6592.5	27.5°	6666.6	6963.0	7125.5	7521.6	8157.2	8658.9	8638.9	8601.9	8607.6
5737.4	30°	5734.6	6053.8	6293.2	6412.9	6891.7	7615.7	7689.8	7584.3	7587.2
4982.1	32.5°	4950.8	5050.5	5403.9	5500.9	5808.7	6467.1	6720.7	6640.9	6626.7
3984.6	35°	4101.4	4155.6	4318.0	4509.0	4691.4	5190.2	5609.2	5535.1	5572.1
2930.0	37.5°	2918.6	3140.9	3297.7	3454.4	3585.5	3899.0	4403.5	4335.1	4372.2
2074.9	40°	2057.8	2157.6	2428.4	2496.8	2690.6	2835.9	3263.5	3240.7	3286.3
1288.3	42.5°	1265.5	1336.7	1473.5	1539.1	1670.2	1752.9	2003.7	2032.2	2092.0
712.5	45°	718.2	749.6	843.7	914.9	1011.8	1046.0	1134.4	1174.3	1208.5
552.9	47.5°	547.2	581.4	644.1	706.8	786.7	815.2	877.9	937.7	969.1
427.5	50°	447.5	478.8	544.4	595.7	675.5	701.1	752.4	818.0	857.9
324.9	52.5°	339.2	384.8	464.6	518.7	601.4	632.7	681.2	746.7	783.8
267.9	55°	279.3	313.5	384.8	458.9	535.8	578.6	609.9	689.7	729.6
219.5	57.5°	239.4	265.1	310.7	399.0	464.6	527.3	552.9	627.0	666.9
173.9	60°	182.4	222.3	262.2	330.6	404.7	470.3	498.8	564.3	595.7
125.4	62.5°	151.1	176.7	228.0	265.1	347.7	416.1	444.6	504.5	527.3
82.7	65°	105.5	142.5	191.0	213.8	290.7	356.3	396.2	441.8	464.6
48.5	67.5°	62.7	105.5	151.1	182.4	236.6	302.1	344.9	387.6	407.6
28.5	70°	39.9	82.7	119.7	153.9	185.3	248.0	299.3	336.3	327.8
17.1	72.5°	22.8	51.3	88.4	125.4	153.9	208.1	256.5	285.0	202.4
11.4	75°	14.3	37.1	74.1	102.6	125.4	165.3	210.9	216.6	125.4
5.7	77.5°	11.4	28.5	57.0	82.7	85.5	122.6	148.2	168.2	94.1
5.7	80°	5.7	22.8	48.5	68.4	54.2	85.5	114.0	131.1	74.1
2.9	82.5°	5.7	14.3	37.1	48.5	39.9	65.6	82.7	94.1	62.7
2.9	85°	2.9	11.4	20.0	28.5	28.5	42.8	37.1	45.6	39.9
2.9	87.5°	2.9	5.7	11.4	14.3	11.4	17.1	20.0	20.0	17.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22402.4
22354.0
22023.4
21085.7
19529.5
17728.1
15778.6
14048.6
12438.2
10950.4
9710.6
8616.1
7590.0
6660.9
5606.3
4403.5
3303.4
2160.4
1205.6
983.3
875.0
809.5
741.0
684.0
601.4
530.1
464.6
404.7
302.1
179.6
116.9
94.1
77.0
68.4
39.9
14.3
0.0

(END OF REPORT)