

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: P637528

Luminaire Tested: **IFLD-S-SA3D-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16126.6 lumens
Efficiency: N/A
Efficacy: 87.6 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



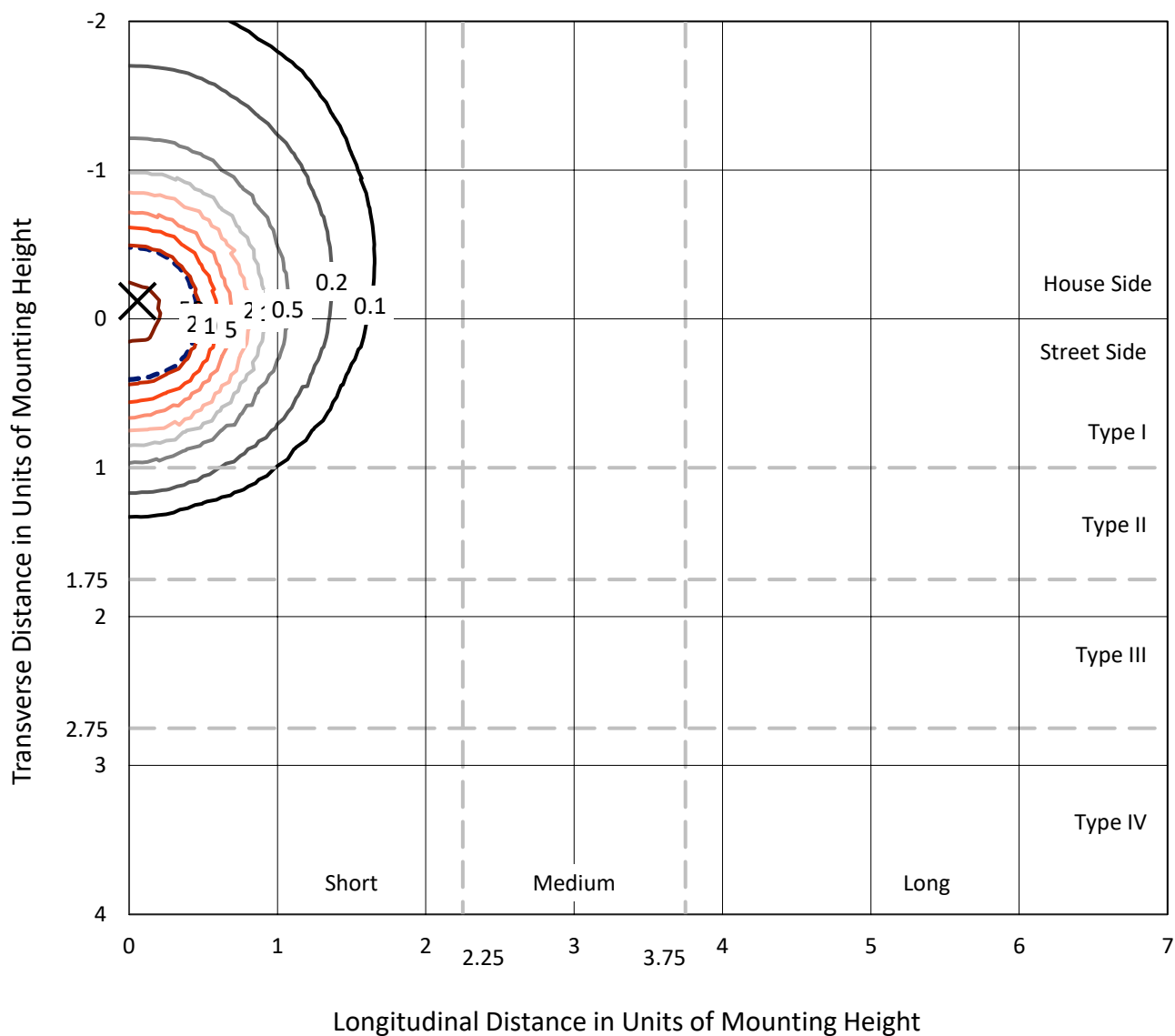
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

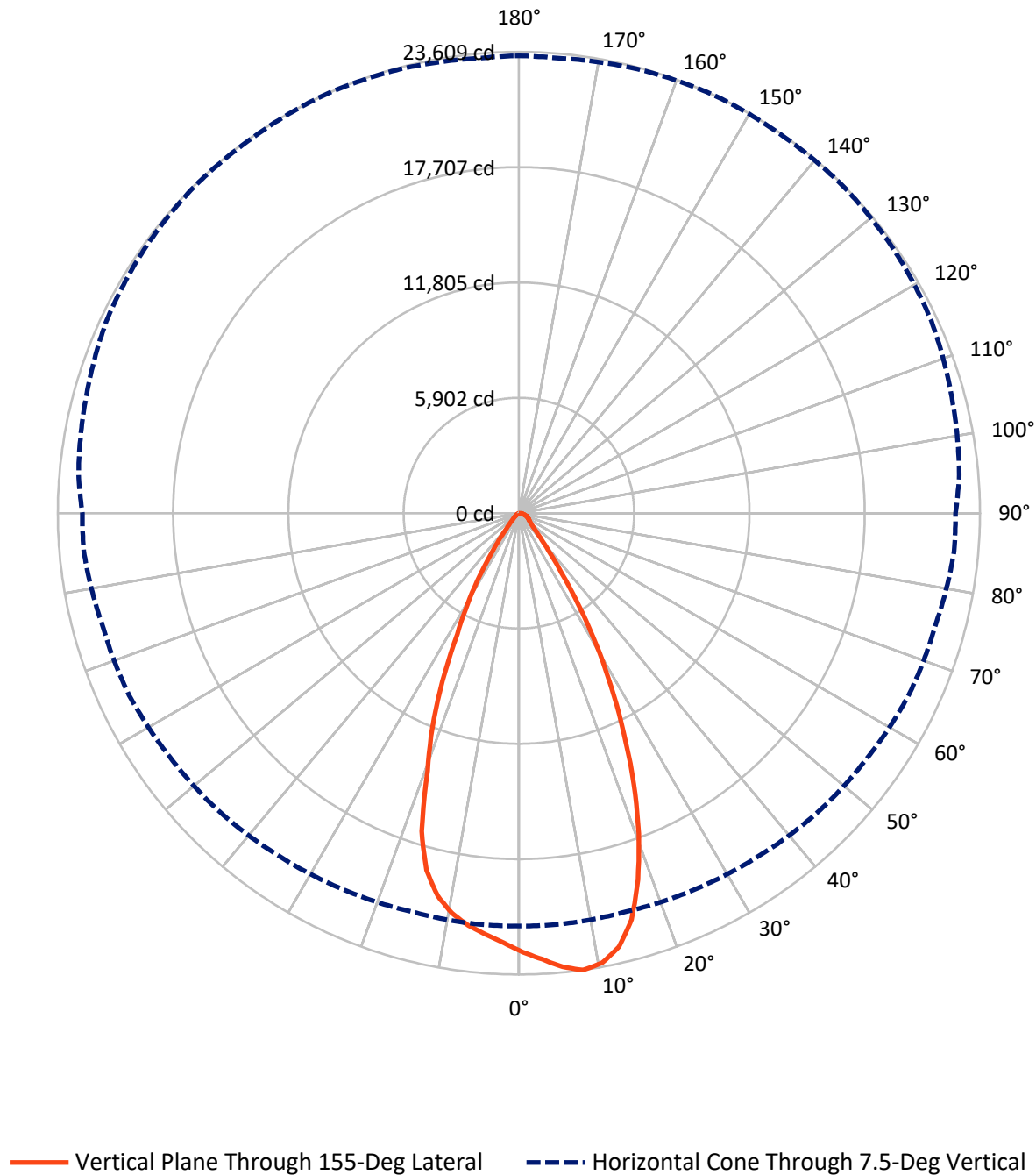


Based on 20 foot mounting height. Maximum calculated value = 57.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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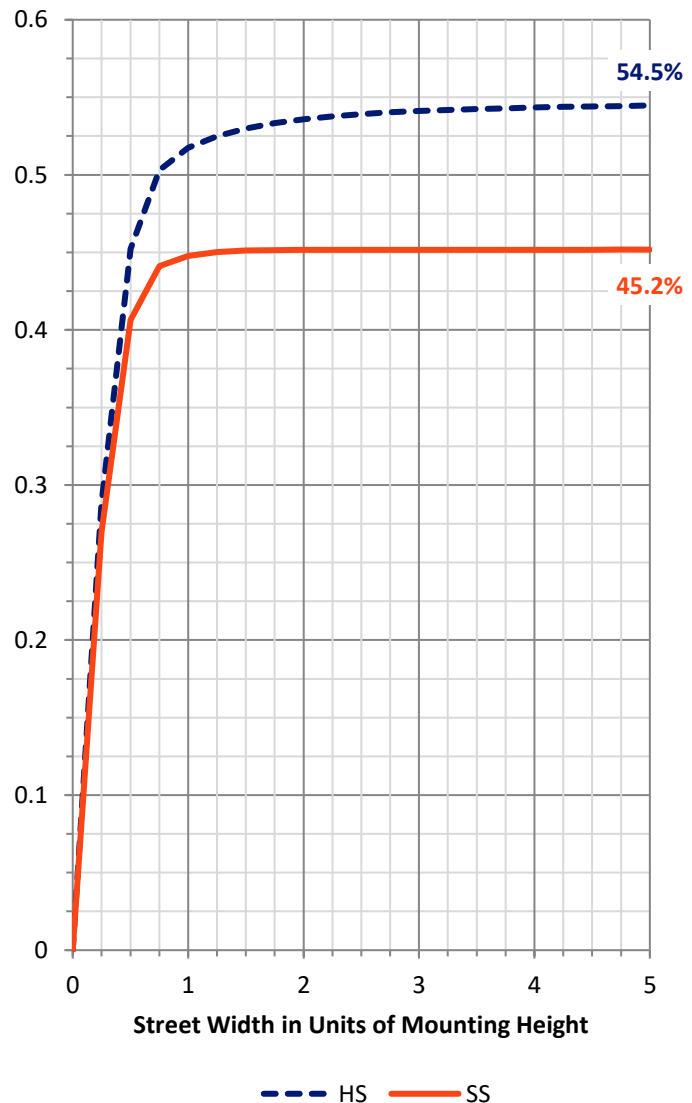
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8902.5	0.0	8902.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7224.1	0.0	7224.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	16126.6	0.0	16126.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2142.2	13.3
10°-20°	5554.8	34.4
20°-30°	5089.8	31.6
30°-40°	2056.3	12.8
40°-50°	603.2	3.7
50°-60°	337.3	2.1
60°-70°	204.9	1.3
70°-80°	104.1	0.6
80°-90°	34.0	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°	16126.6	100.0
0°-180°	16126.6	100.0

Coefficient of Utilization



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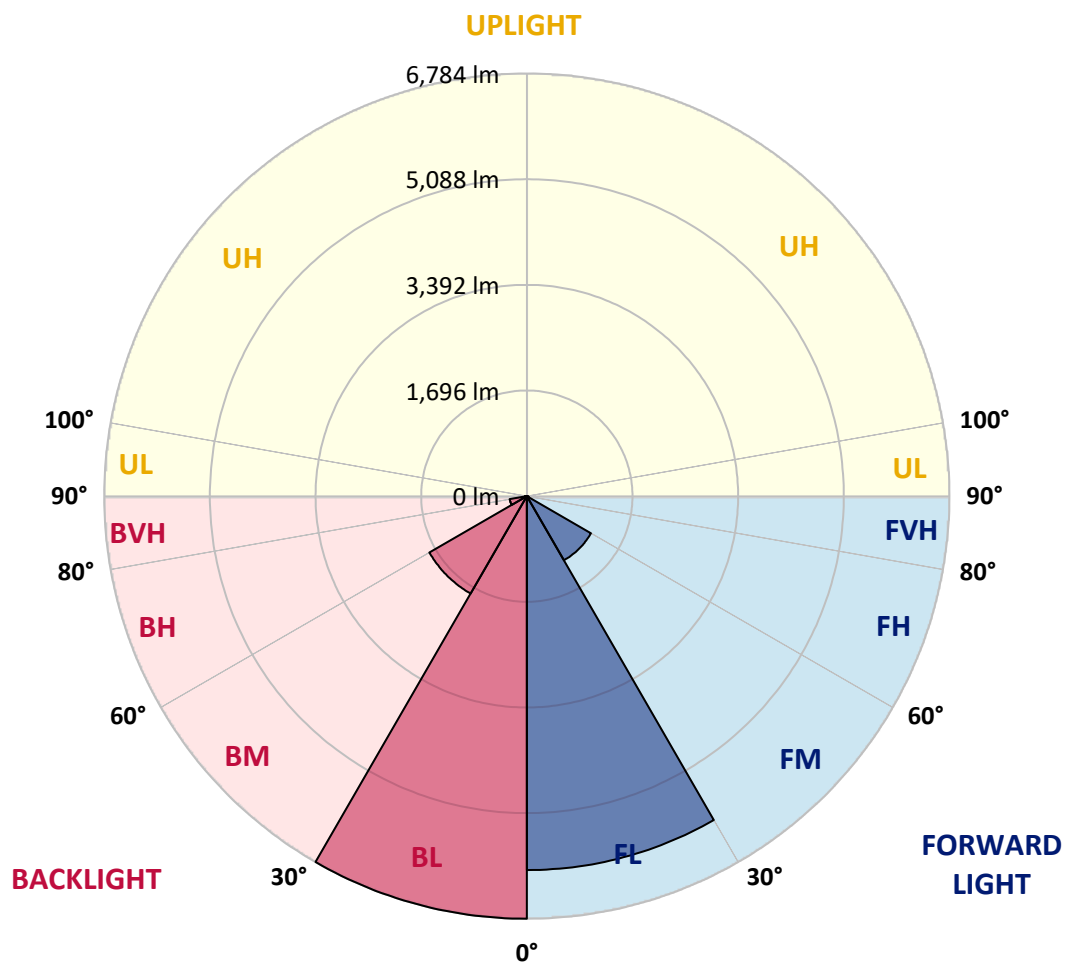
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6002.7	37.2			
FM	(30°-60°)	1189.6	7.4			
FH	(60°-80°)	28.8	0.2			G0/660
FVH	(80°-90°)	3.0	0.0			G0/10
BL	(0°-30°)	6784.1	42.1	B5		
BM	(30°-60°)	1807.1	11.2	B2/2500		
BH	(60°-80°)	280.1	1.7	B1/500		G1/500
BVH	(80°-90°)	31.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6
2.5°	21978.3	22052.7	21904.0	22002.5	22078.8	22261.0	22275.9	22339.1	22361.4	22526.9
5°	21561.8	21619.4	21498.6	21630.6	21738.5	21900.2	22024.8	22199.6	22296.3	22491.6
7.5°	21128.5	21141.5	21117.4	21256.8	21418.6	21641.8	21796.1	22024.8	22084.3	22363.3
10°	20604.1	20509.3	20555.8	20760.3	21002.1	21344.2	21450.2	21678.9	21784.9	22069.5
12.5°	19767.3	19815.7	19758.0	20018.3	20219.2	20607.8	20719.4	20950.0	21152.7	21403.7
15°	18588.3	18560.4	18677.6	18880.3	19097.9	19406.5	19586.9	19838.0	19992.3	20252.7
17.5°	15938.4	16033.3	16516.8	17024.4	17470.7	17831.5	18047.2	18255.5	18367.0	18649.7
20°	13764.6	13645.6	13710.7	13997.0	15267.1	15819.4	16046.3	16096.5	16143.0	16366.1
22.5°	11334.1	11295.1	11512.6	11834.3	12135.6	13409.4	13718.1	13600.9	13697.6	13907.8
25°	8416.4	8613.6	8807.0	9424.3	9814.8	10439.7	11025.4	11077.5	11112.8	11244.9
27.5°	6850.7	6781.9	6778.2	6951.1	7527.6	8048.2	8546.6	8661.9	8641.5	8767.9
30°	5385.3	5363.0	5284.9	5325.8	5268.2	5731.2	5965.5	6439.7	6413.7	6417.4
32.5°	3884.7	3801.0	3769.4	3830.7	3771.2	3728.5	3933.0	4468.6	4459.3	4496.5
35°	2350.5	2339.3	2365.4	2419.3	2300.3	2296.6	2339.3	2843.3	2904.7	2964.2
37.5°	1298.0	1286.8	1307.3	1506.3	1467.2	1431.9	1443.0	1709.0	1885.6	1930.2
40°	855.4	853.5	868.4	903.8	970.7	957.7	963.3	1082.3	1249.6	1288.7
42.5°	572.7	574.6	583.9	624.8	634.1	701.1	689.9	717.8	874.0	907.5
45°	457.5	455.6	461.2	442.6	453.7	522.5	530.0	531.8	665.7	686.2
47.5°	360.8	360.8	366.3	342.2	336.6	379.4	418.4	424.0	531.8	559.7
50°	252.9	252.9	280.8	269.6	282.7	295.7	338.4	344.0	435.1	464.9
52.5°	186.0	189.7	193.4	195.3	238.0	236.2	273.4	299.4	329.1	381.2
55°	141.3	145.0	135.7	145.0	176.7	197.1	204.6	241.7	262.2	319.8
57.5°	93.0	102.3	94.8	111.6	119.0	152.5	163.6	199.0	212.0	262.2
60°	13.0	14.9	24.2	78.1	83.7	100.4	126.5	158.1	171.1	213.9
62.5°	1.9	1.9	5.6	13.0	55.8	66.9	94.8	109.7	126.5	159.9
65°	0.0	0.0	1.9	3.7	11.2	39.1	48.3	59.5	87.4	115.3
67.5°	0.0	0.0	1.9	3.7	5.6	13.0	20.5	39.1	50.2	80.0
70°	0.0	0.0	1.9	3.7	5.6	7.4	11.2	14.9	29.8	46.5
72.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	11.2	13.0	29.8
75°	0.0	0.0	1.9	3.7	5.6	9.3	11.2	11.2	11.2	13.0
77.5°	0.0	0.0	1.9	3.7	7.4	11.2	13.0	11.2	9.3	9.3
80°	0.0	0.0	1.9	5.6	9.3	13.0	14.9	11.2	7.4	5.6
82.5°	0.0	0.0	1.9	5.6	9.3	13.0	14.9	13.0	7.4	5.6
85°	0.0	0.0	1.9	5.6	7.4	9.3	14.9	13.0	7.4	3.7
87.5°	0.0	0.0	0.0	1.9	1.9	3.7	7.4	5.6	3.7	1.9
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°
22465.6	0°	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6	22465.6
22523.2	2.5°	22690.6	22774.2	22921.1	22962.1	23088.5	22943.5	22863.5	22870.9	22698.0
22467.4	5°	22690.6	22882.1	23138.7	23261.4	23354.4	23347.0	23326.5	23274.5	23148.0
22355.8	7.5°	22631.1	22943.5	23296.8	23460.4	23572.0	23562.7	23609.2	23525.5	23371.2
22156.9	10°	22439.5	22711.0	23146.2	23280.0	23460.4	23464.1	23406.5	23423.2	23148.0
21429.8	12.5°	21837.0	22049.0	22430.2	22582.7	22802.1	22837.5	22774.2	22750.1	22489.7
20237.8	15°	20671.1	20793.8	21176.9	21329.3	21546.9	21517.2	21580.4	21554.4	21325.6
18627.4	17.5°	18965.8	19004.9	19406.5	19534.9	19739.4	19819.4	19724.5	19845.4	19648.3
16405.2	20°	16520.5	16730.6	17182.5	17379.6	17498.6	17641.8	17517.2	17653.0	17422.4
13708.8	22.5°	14039.8	14164.4	14573.5	14858.0	15079.3	15107.2	15060.7	15155.6	14845.0
11332.3	25°	11330.4	11536.8	11860.4	12232.3	12449.9	12583.8	12462.9	12524.3	12474.0
8788.4	27.5°	8937.1	9121.2	9364.8	9641.9	9969.2	10144.0	10047.3	10151.4	9906.0
6553.1	30°	6558.7	6651.7	6926.9	7220.7	7579.6	7791.6	7800.9	7906.9	7761.9
4591.3	32.5°	4624.8	4706.6	4875.8	5071.1	5413.2	5649.4	5612.2	5627.1	5537.8
2992.1	35°	3006.9	3116.7	3237.5	3330.5	3536.9	3797.3	3776.8	3758.2	3696.8
1967.4	37.5°	2010.2	2053.0	2119.9	2203.6	2337.5	2501.1	2555.1	2488.1	2462.1
1327.7	40°	1359.4	1433.7	1478.4	1541.6	1604.8	1742.4	1779.6	1766.6	1740.6
929.8	42.5°	965.1	1022.8	1078.6	1139.9	1173.4	1258.9	1331.5	1311.0	1299.8
706.6	45°	732.7	784.7	849.8	896.3	929.8	980.0	1048.8	1056.2	1039.5
567.2	47.5°	587.6	634.1	686.2	743.8	782.9	814.5	874.0	896.3	885.2
477.9	50°	498.4	533.7	583.9	641.6	684.3	712.2	764.3	788.5	781.0
399.8	52.5°	424.0	466.8	513.2	561.6	613.7	641.6	689.9	725.2	719.7
331.0	55°	351.5	407.2	455.6	503.9	563.5	591.3	634.1	680.6	671.3
280.8	57.5°	306.8	353.3	403.5	450.0	513.2	550.4	589.5	637.8	636.0
230.6	60°	256.6	303.1	358.9	397.9	464.9	517.0	552.3	602.5	606.2
174.8	62.5°	204.6	262.2	305.0	358.9	420.3	481.6	515.1	565.3	583.9
133.9	65°	152.5	215.7	264.1	318.0	375.6	444.4	474.2	524.4	543.0
96.7	67.5°	113.4	161.8	223.1	269.6	334.7	394.2	429.6	476.1	489.1
57.6	70°	85.5	124.6	186.0	226.9	293.8	342.2	377.5	412.8	429.6
39.1	72.5°	50.2	93.0	146.9	195.3	252.9	293.8	319.8	347.7	358.9
18.6	75°	35.3	70.7	115.3	161.8	204.6	238.0	262.2	286.4	297.5
9.3	77.5°	18.6	52.1	91.1	130.2	159.9	187.8	212.0	230.6	238.0
7.4	80°	11.2	37.2	74.4	102.3	122.7	146.9	171.1	184.1	182.2
5.6	82.5°	7.4	29.8	53.9	74.4	89.3	107.9	124.6	133.9	133.9
3.7	85°	5.6	20.5	37.2	57.6	59.5	74.4	78.1	87.4	89.3
3.7	87.5°	3.7	13.0	20.5	33.5	31.6	39.1	40.9	46.5	50.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22465.6
22558.5
23188.9
23406.5
23068.1
22430.2
21398.2
19599.9
17403.8
14802.2
12442.4
9969.2
7787.9
5588.0
3642.9
2456.5
1744.3
1290.5
1037.6
879.6
779.2
715.9
671.3
634.1
606.2
582.0
541.1
489.1
425.8
355.2
293.8
236.2
180.4
132.0
87.4
48.3
0.0

(END OF REPORT)