

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: P637731

Luminaire Tested: **IFLD-S-SA3D-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16093.7 lumens
Efficiency: N/A
Efficacy: 87.4 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



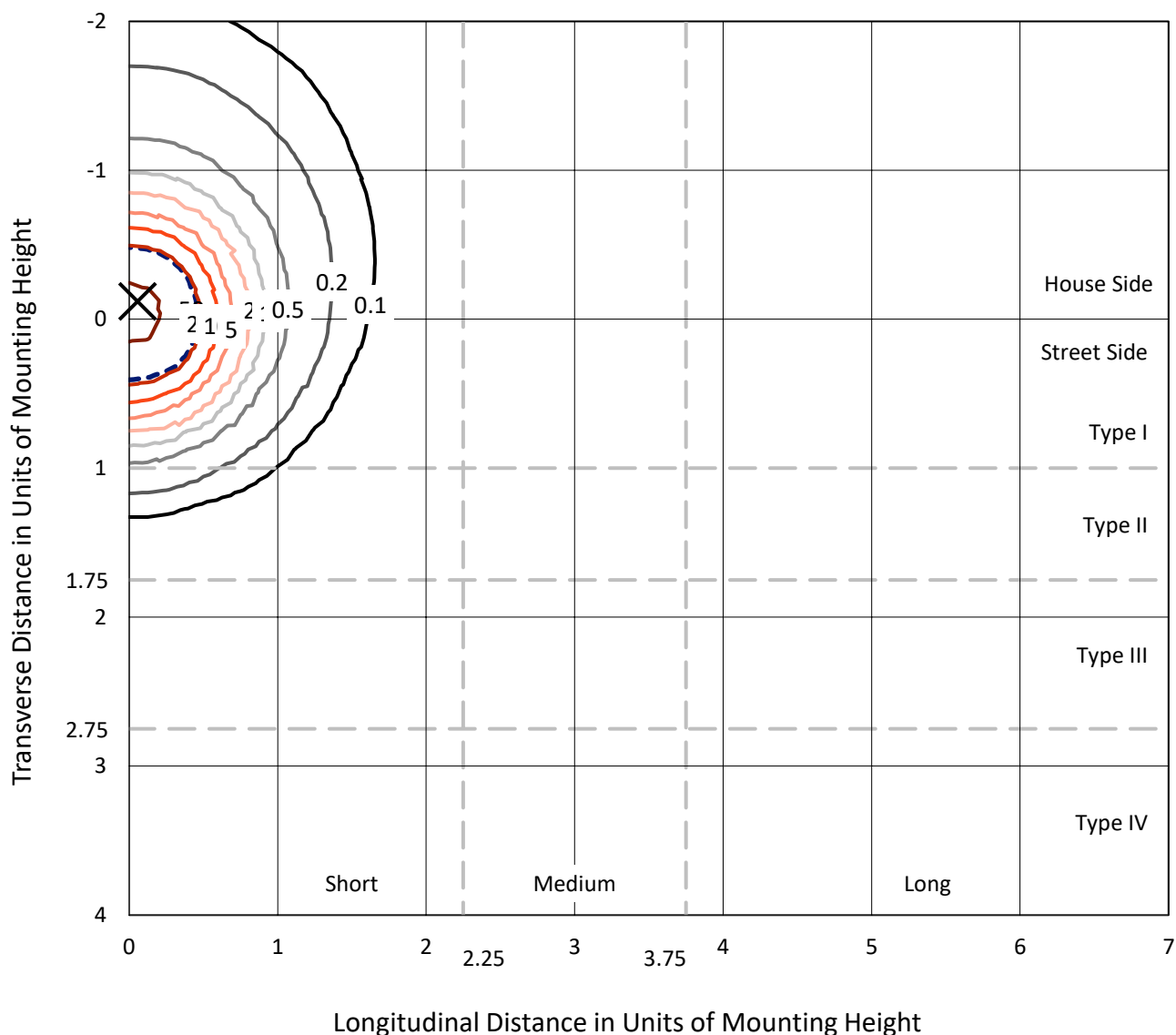
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



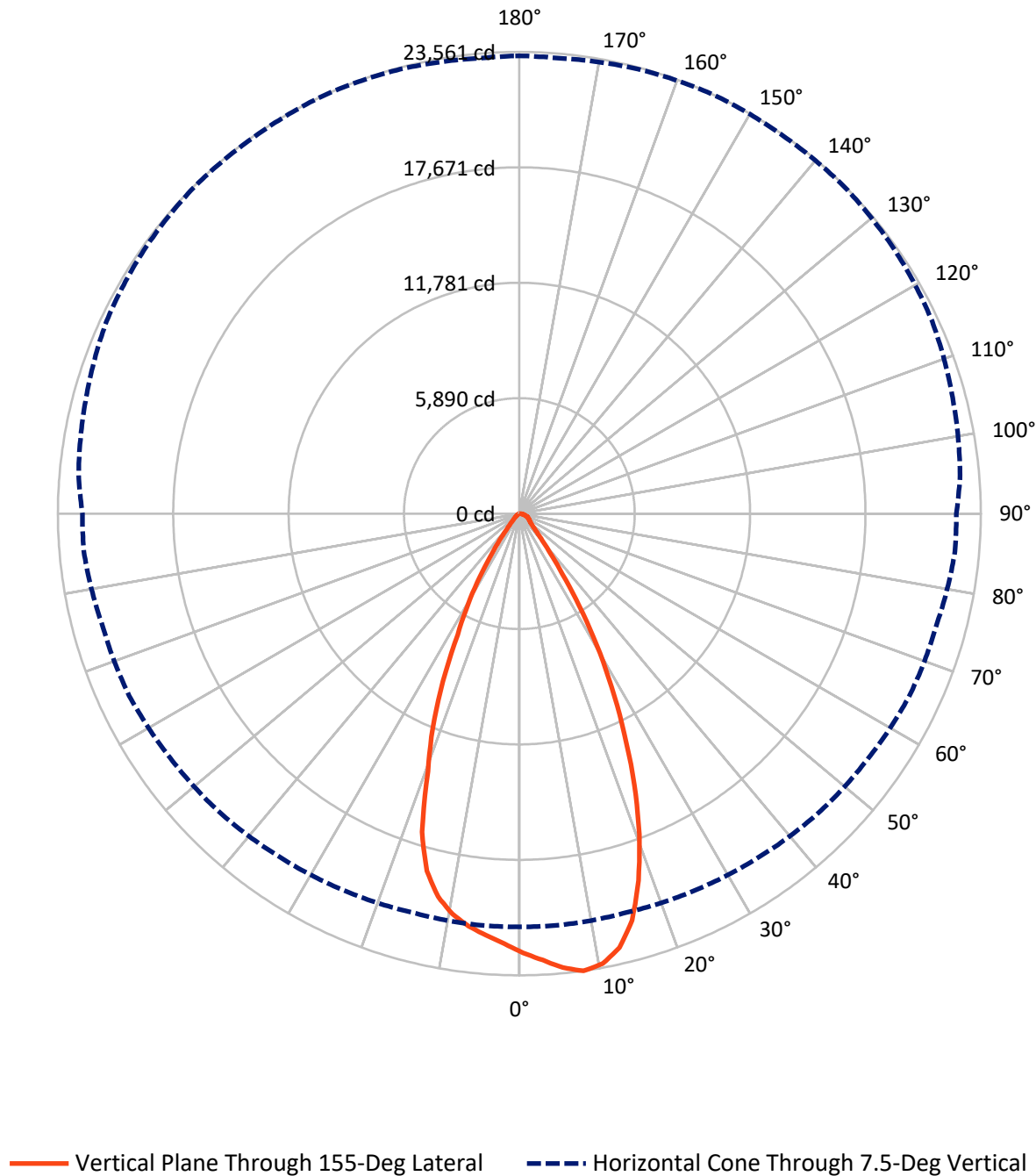
Based on 20 foot mounting height. Maximum calculated value = 57 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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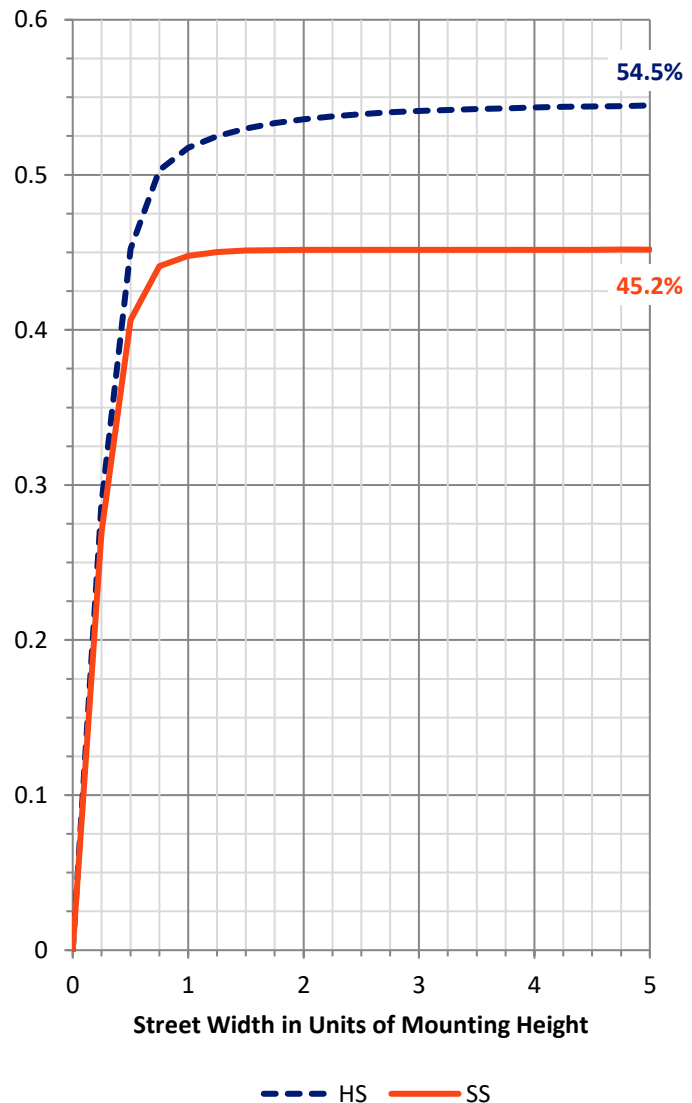
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8884.3	0.0	8884.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7209.4	0.0	7209.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	16093.7	0.0	16093.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2137.9	13.3
10°-20°	5543.5	34.4
20°-30°	5079.4	31.6
30°-40°	2052.1	12.8
40°-50°	602.0	3.7
50°-60°	336.6	2.1
60°-70°	204.4	1.3
70°-80°	103.9	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°	16093.7	100.0
0°-180°	16093.7	100.0

Coefficient of Utilization



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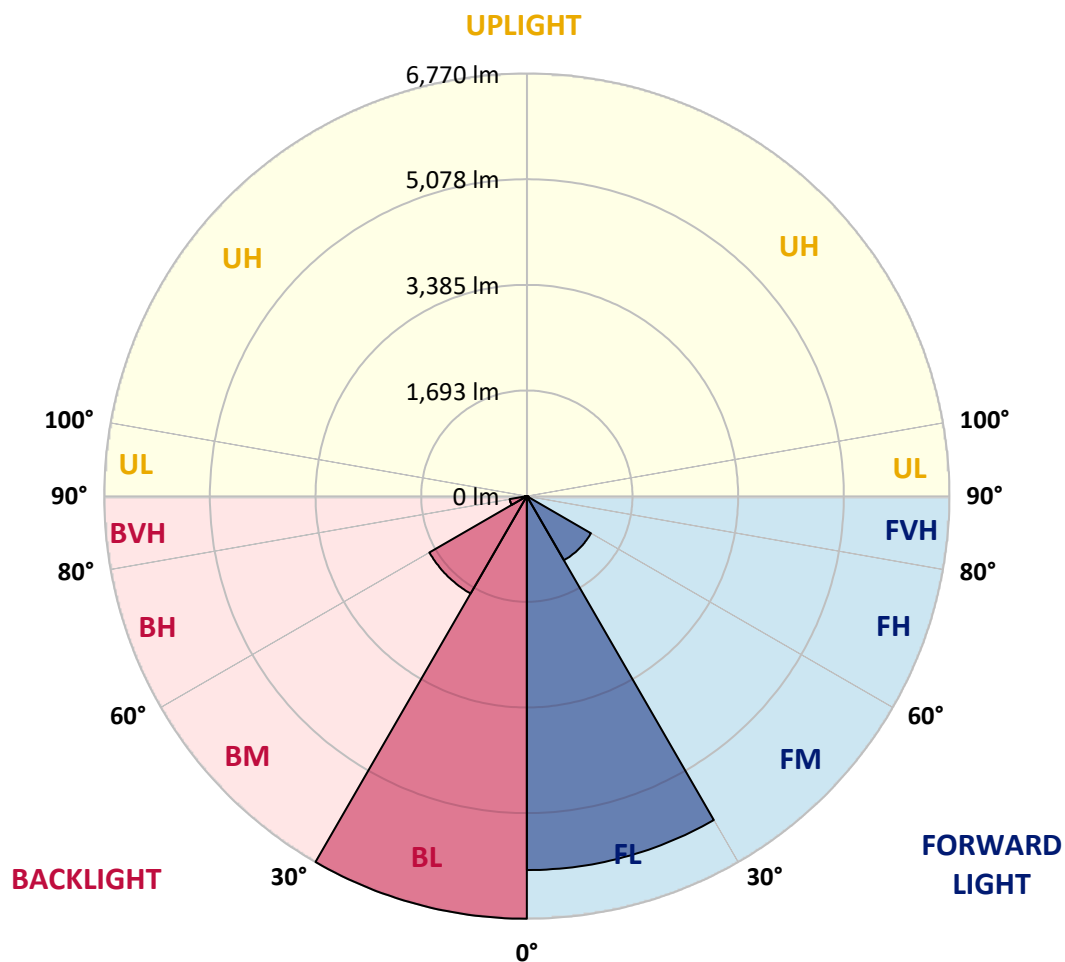
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5990.5	37.2			
FM	(30°-60°)	1187.2	7.4			
FH	(60°-80°)	28.8	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6770.3	42.1	B5		
BM	(30°-60°)	1803.4	11.2	B2/2500		
BH	(60°-80°)	279.5	1.7	B1/500		G1/500
BVH	(80°-90°)	31.0	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°	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8
2.5°	21933.6	22007.8	21859.4	21957.7	22033.8	22215.7	22230.5	22293.6	22315.9	22481.0
5°	21517.9	21575.4	21454.8	21586.6	21694.2	21855.6	21980.0	22154.4	22250.9	22445.8
7.5°	21085.5	21098.5	21074.4	21213.5	21375.0	21597.7	21751.7	21980.0	22039.4	22317.7
10°	20562.2	20467.5	20513.9	20718.0	20959.3	21300.8	21406.5	21634.8	21740.6	22024.5
12.5°	19727.1	19775.3	19717.8	19977.6	20178.0	20565.9	20677.2	20907.3	21109.6	21360.1
15°	18550.5	18522.6	18639.6	18841.8	19059.0	19367.0	19547.0	19797.6	19951.6	20211.4
17.5°	15906.0	16000.6	16483.1	16989.8	17435.1	17795.2	18010.4	18218.3	18329.6	18611.7
20°	13736.6	13617.8	13682.7	13968.5	15236.0	15787.2	16013.6	16063.7	16110.1	16332.8
22.5°	11311.0	11272.1	11489.2	11810.2	12110.9	13382.1	13690.2	13573.2	13669.8	13879.5
25°	8399.3	8596.0	8789.0	9405.1	9794.9	10418.4	11003.0	11054.9	11090.2	11222.0
27.5°	6836.7	6768.1	6764.4	6936.9	7512.2	8031.9	8529.2	8644.3	8623.9	8750.1
30°	5374.4	5352.1	5274.2	5315.0	5257.5	5719.5	5953.4	6426.6	6400.6	6404.3
32.5°	3876.7	3793.2	3761.7	3822.9	3763.5	3720.9	3925.0	4459.5	4450.2	4487.3
35°	2345.7	2334.6	2360.6	2414.4	2295.6	2291.9	2334.6	2837.5	2898.7	2958.1
37.5°	1295.3	1284.2	1304.6	1503.2	1464.2	1429.0	1440.1	1705.5	1881.8	1926.3
40°	853.7	851.8	866.7	901.9	968.7	955.7	961.3	1080.1	1247.1	1286.1
42.5°	571.6	573.4	582.7	623.5	632.8	699.6	688.5	716.3	872.2	905.6
45°	456.5	454.7	460.2	441.7	452.8	521.5	528.9	530.8	664.4	684.8
47.5°	360.0	360.0	365.6	341.5	335.9	378.6	417.6	423.1	530.8	558.6
50°	252.4	252.4	280.2	269.1	282.1	295.1	337.8	343.3	434.3	463.9
52.5°	185.6	189.3	193.0	194.9	237.5	235.7	272.8	298.8	328.5	380.4
55°	141.0	144.8	135.5	144.8	176.3	196.7	204.1	241.3	261.7	319.2
57.5°	92.8	102.1	94.6	111.3	118.8	152.2	163.3	198.6	211.6	261.7
60°	13.0	14.8	24.1	77.9	83.5	100.2	126.2	157.7	170.7	213.4
62.5°	1.9	1.9	5.6	13.0	55.7	66.8	94.6	109.5	126.2	159.6
65°	0.0	0.0	1.9	3.7	11.1	39.0	48.3	59.4	87.2	115.1
67.5°	0.0	0.0	1.9	3.7	5.6	13.0	20.4	39.0	50.1	79.8
70°	0.0	0.0	1.9	3.7	5.6	7.4	11.1	14.8	29.7	46.4
72.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0	29.7
75°	0.0	0.0	1.9	3.7	5.6	9.3	11.1	11.1	11.1	13.0
77.5°	0.0	0.0	1.9	3.7	7.4	11.1	13.0	11.1	9.3	9.3
80°	0.0	0.0	1.9	5.6	9.3	13.0	14.8	11.1	7.4	5.6
82.5°	0.0	0.0	1.9	5.6	9.3	13.0	14.8	13.0	7.4	5.6
85°	0.0	0.0	1.9	5.6	7.4	9.3	14.8	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°
22419.8	0°	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8	22419.8
22477.3	2.5°	22644.4	22727.9	22874.5	22915.3	23041.5	22896.7	22816.9	22824.4	22651.8
22421.7	5°	22644.4	22835.5	23091.6	23214.1	23306.9	23299.4	23279.0	23227.1	23100.9
22310.3	7.5°	22585.0	22896.7	23249.3	23412.6	23524.0	23514.7	23561.1	23477.6	23323.6
22111.7	10°	22393.8	22664.8	23099.0	23232.6	23412.6	23416.4	23358.8	23375.5	23100.9
21386.1	12.5°	21792.5	22004.1	22384.5	22536.7	22755.7	22791.0	22727.9	22703.7	22443.9
20196.6	15°	20629.0	20751.4	21133.7	21285.9	21503.0	21473.3	21536.4	21510.5	21282.2
18589.5	17.5°	18927.2	18966.2	19367.0	19495.1	19699.2	19779.0	19684.4	19805.0	19608.3
16371.8	20°	16486.8	16696.5	17147.5	17344.2	17463.0	17605.9	17481.5	17617.0	17386.9
13680.9	22.5°	14011.2	14135.6	14543.8	14827.8	15048.6	15076.4	15030.0	15124.7	14814.8
11309.2	25°	11307.3	11513.3	11836.2	12207.4	12424.5	12558.1	12437.5	12498.7	12448.6
8770.5	27.5°	8918.9	9102.7	9345.8	9622.3	9948.9	10123.3	10026.8	10130.8	9885.8
6539.8	30°	6545.4	6638.2	6912.8	7206.0	7564.2	7775.8	7785.0	7890.8	7746.1
4581.9	32.5°	4615.4	4697.0	4865.9	5060.7	5402.2	5637.9	5600.8	5615.6	5526.5
2986.0	35°	3000.8	3110.3	3230.9	3323.7	3529.7	3789.5	3769.1	3750.6	3689.3
1963.4	37.5°	2006.1	2048.8	2115.6	2199.1	2332.7	2496.0	2549.9	2483.0	2457.1
1325.0	40°	1356.6	1430.8	1475.4	1538.5	1601.5	1738.9	1776.0	1763.0	1737.0
927.9	42.5°	963.2	1020.7	1076.4	1137.6	1171.0	1256.4	1328.7	1308.3	1297.2
705.2	45°	731.2	783.1	848.1	894.5	927.9	978.0	1046.7	1054.1	1037.4
566.0	47.5°	586.4	632.8	684.8	742.3	781.3	812.8	872.2	894.5	883.4
476.9	50°	497.4	532.6	582.7	640.2	682.9	710.8	762.7	786.9	779.4
399.0	52.5°	423.1	465.8	512.2	560.4	612.4	640.2	688.5	723.8	718.2
330.3	55°	350.7	406.4	454.7	502.9	562.3	590.1	632.8	679.2	669.9
280.2	57.5°	306.2	352.6	402.7	449.1	512.2	549.3	588.3	636.5	634.7
230.1	60°	256.1	302.5	358.2	397.1	463.9	515.9	551.2	601.3	605.0
174.4	62.5°	204.1	261.7	304.3	358.2	419.4	480.6	514.1	564.2	582.7
133.6	65°	152.2	215.3	263.5	317.3	374.9	443.5	473.2	523.3	541.9
96.5	67.5°	113.2	161.5	222.7	269.1	334.0	393.4	428.7	475.1	488.1
57.5	70°	85.4	124.3	185.6	226.4	293.2	341.5	376.7	412.0	428.7
39.0	72.5°	50.1	92.8	146.6	194.9	252.4	293.2	319.2	347.0	358.2
18.6	75°	35.3	70.5	115.1	161.5	204.1	237.5	261.7	285.8	296.9
9.3	77.5°	18.6	52.0	90.9	129.9	159.6	187.4	211.6	230.1	237.5
7.4	80°	11.1	37.1	74.2	102.1	122.5	146.6	170.7	183.7	181.9
5.6	82.5°	7.4	29.7	53.8	74.2	89.1	107.6	124.3	133.6	133.6
3.7	85°	5.6	20.4	37.1	57.5	59.4	74.2	77.9	87.2	89.1
3.7	87.5°	3.7	13.0	20.4	33.4	31.5	39.0	40.8	46.4	50.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22419.8
22512.6
23141.7
23358.8
23021.1
22384.5
21354.6
19560.0
17368.3
14772.1
12417.1
9948.9
7772.0
5576.6
3635.5
2451.5
1740.7
1287.9
1035.5
877.8
777.6
714.5
669.9
632.8
605.0
580.9
540.0
488.1
425.0
354.5
293.2
235.7
180.0
131.8
87.2
48.3
0.0

(END OF REPORT)