

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: P637559

Luminaire Tested: **IFLD-S-SA6A-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21202.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 189.6
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



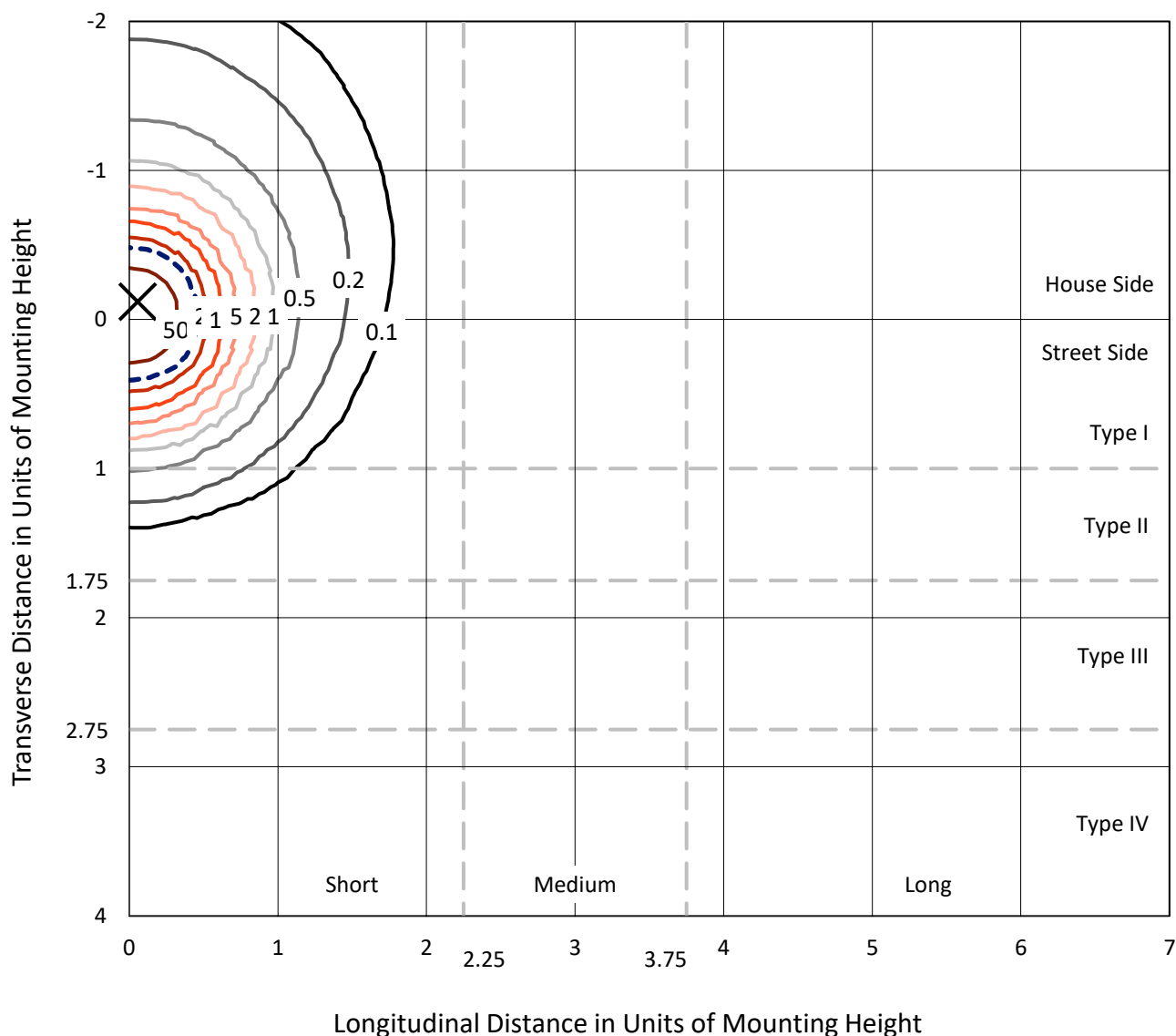
REPORT NUMBER: P637559

CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



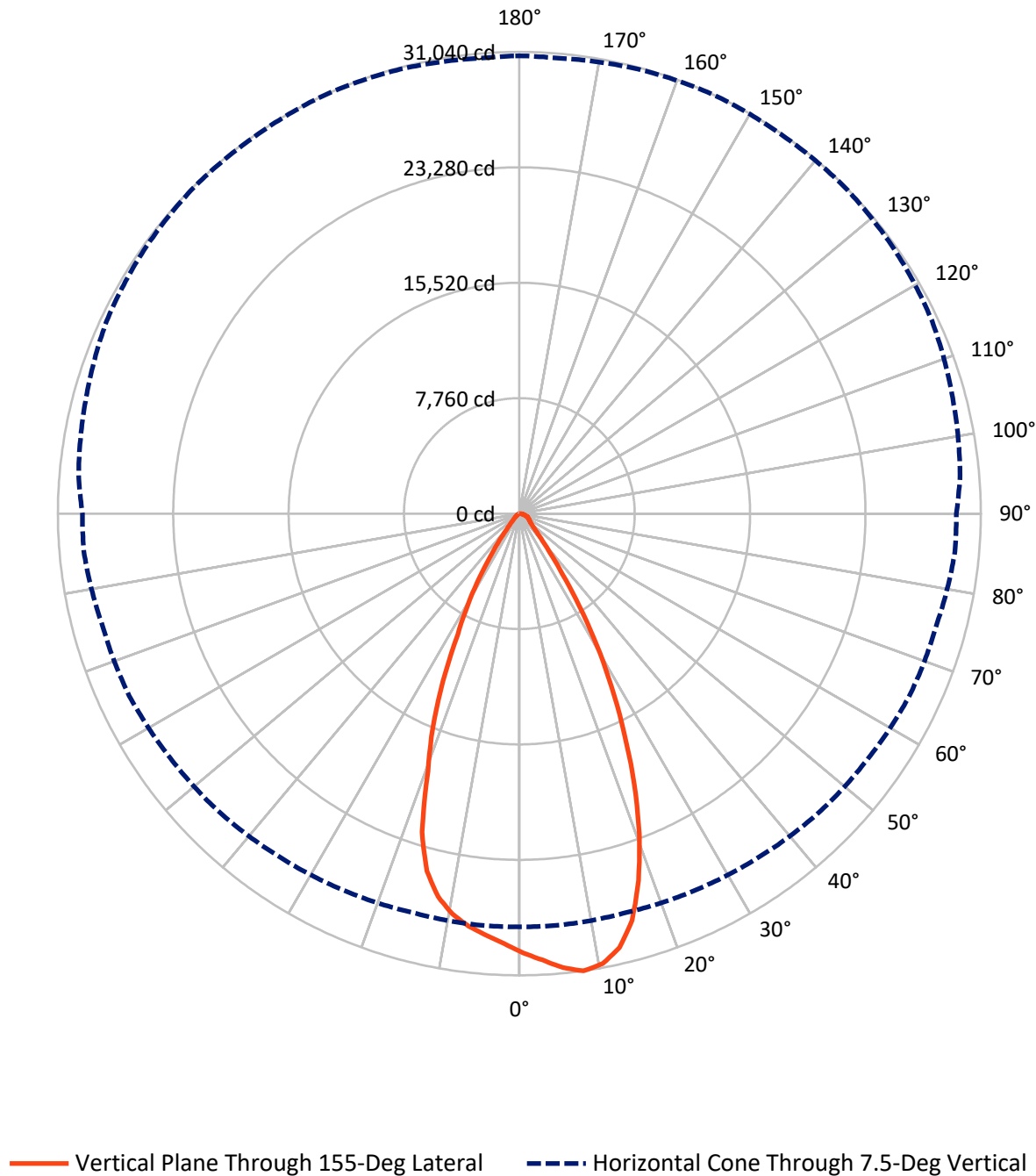
Based on 20 foot mounting height. Maximum calculated value = 75.1 fc

Type I - Short - N/A

REPORT NUMBER: P637559

CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637559

CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

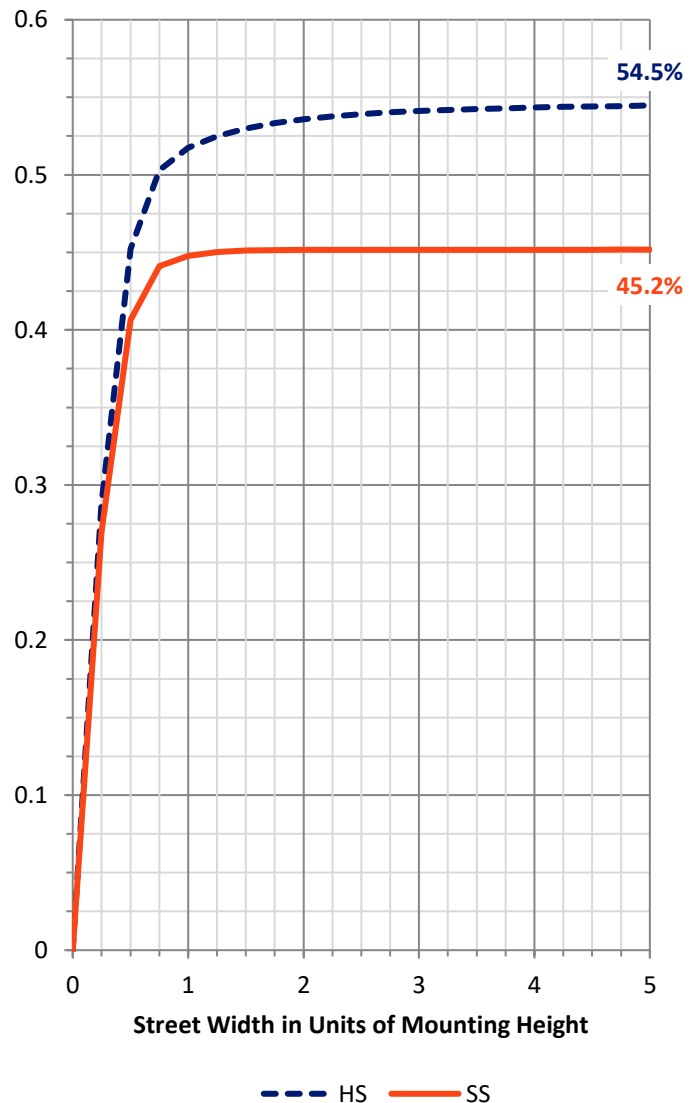
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11704.6	0.0	11704.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9497.9	0.0	9497.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	21202.5	0.0	21202.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2816.5	13.3
10°-20°	7303.3	34.4
20°-30°	6691.8	31.6
30°-40°	2703.5	12.8
40°-50°	793.1	3.7
50°-60°	443.4	2.1
60°-70°	269.3	1.3
70°-80°	136.8	0.6
80°-90°	44.8	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°	21202.5	100.0
0°-180°	21202.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637559

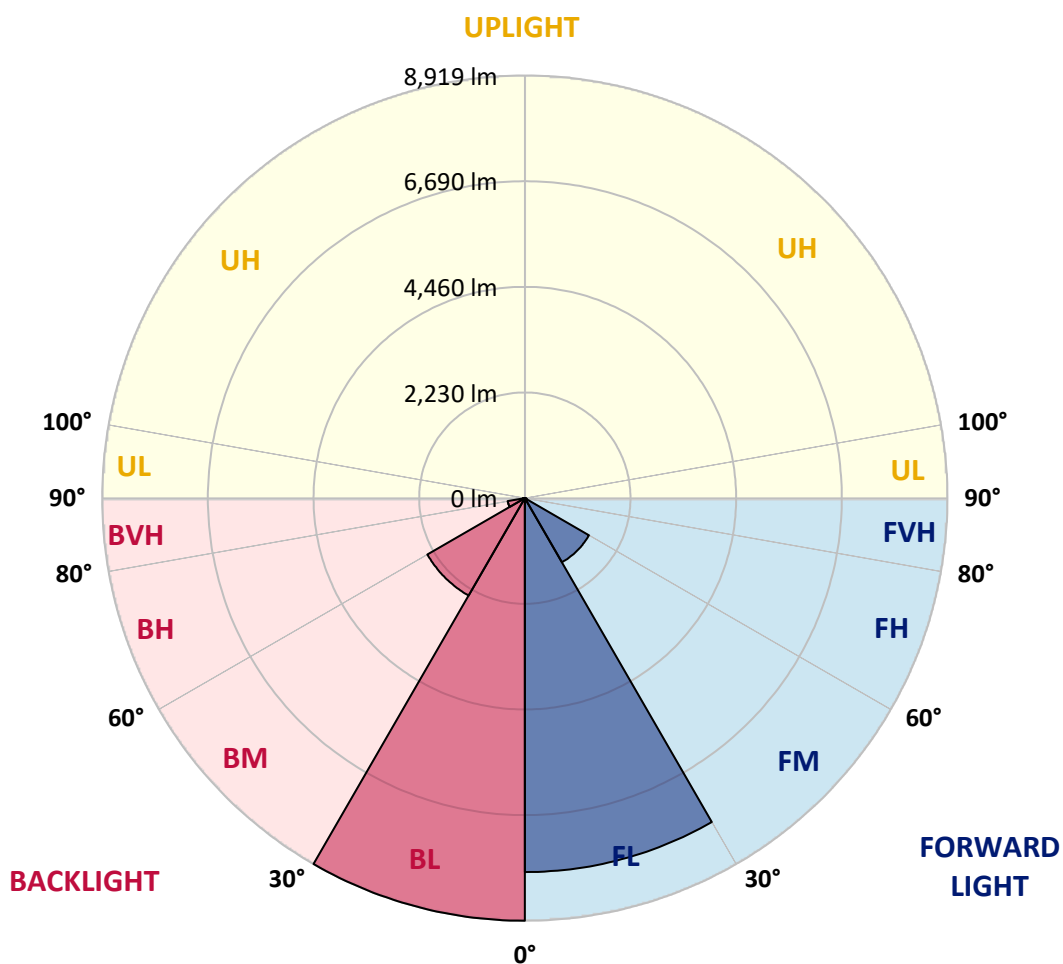
CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7892.1	37.2			
FM	(30°-60°)	1564.1	7.4			
FH	(60°-80°)	37.9	0.2			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	8919.5	42.1	B5		
BM	(30°-60°)	2375.9	11.2	B2/2500		
BH	(60°-80°)	368.3	1.7	B1/500		G1/500
BVH	(80°-90°)	40.9	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



REPORT NUMBER: P637559

CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8
2.5°	28896.2	28994.0	28798.4	28928.0	29028.2	29267.8	29287.4	29370.5	29399.8	29617.4
5°	28348.5	28424.3	28265.4	28439.0	28580.8	28793.5	28957.3	29187.1	29314.3	29571.0
7.5°	27778.9	27796.0	27764.2	27947.6	28160.3	28453.7	28656.6	28957.3	29035.6	29402.3
10°	27089.4	26964.7	27025.9	27294.8	27612.6	28062.5	28201.8	28502.6	28641.9	29016.0
12.5°	25989.2	26052.8	25977.0	26319.3	26583.3	27094.3	27241.0	27544.2	27810.7	28140.7
15°	24439.2	24402.5	24556.5	24823.0	25109.1	25514.9	25752.1	26082.1	26285.0	26627.3
17.5°	20955.2	21079.9	21715.5	22383.0	22969.8	23444.1	23727.7	24001.5	24148.2	24519.8
20°	18097.1	17940.6	18026.2	18402.7	20072.6	20798.7	21097.0	21163.0	21224.1	21517.5
22.5°	14901.6	14850.3	15136.3	15559.3	15955.4	17630.1	18036.0	17882.0	18009.1	18285.4
25°	11065.6	11324.7	11579.0	12390.7	12904.1	13725.6	14495.8	14564.2	14610.7	14784.3
27.5°	9007.0	8916.5	8911.6	9139.0	9896.9	10581.5	11236.7	11388.3	11361.4	11527.7
30°	7080.4	7051.1	6948.4	7002.2	6926.4	7535.2	7843.2	8466.7	8432.4	8437.3
32.5°	5107.4	4997.4	4955.8	5036.5	4958.2	4902.0	5170.9	5875.1	5862.9	5911.8
35°	3090.3	3075.7	3109.9	3180.8	3024.3	3019.4	3075.7	3738.2	3818.9	3897.2
37.5°	1706.5	1691.9	1718.8	1980.4	1929.0	1882.6	1897.2	2246.9	2479.1	2537.8
40°	1124.7	1122.2	1141.8	1188.2	1276.2	1259.1	1266.5	1422.9	1643.0	1694.3
42.5°	753.0	755.5	767.7	821.5	833.7	921.7	907.1	943.7	1149.1	1193.1
45°	601.4	599.0	606.3	581.9	596.6	687.0	696.8	699.2	875.3	902.2
47.5°	474.3	474.3	481.6	449.9	442.5	498.8	550.1	557.4	699.2	735.9
50°	332.5	332.5	369.2	354.5	371.6	388.7	445.0	452.3	572.1	611.2
52.5°	244.5	249.4	254.3	256.7	312.9	310.5	359.4	393.6	432.7	501.2
55°	185.8	190.7	178.5	190.7	232.3	259.2	268.9	317.8	344.7	420.5
57.5°	122.2	134.5	124.7	146.7	156.5	200.5	215.2	261.6	278.7	344.7
60°	17.1	19.6	31.8	102.7	110.0	132.0	166.3	207.8	224.9	281.2
62.5°	2.4	2.4	7.3	17.1	73.3	88.0	124.7	144.2	166.3	210.3
65°	0.0	0.0	2.4	4.9	14.7	51.3	63.6	78.2	114.9	151.6
67.5°	0.0	0.0	2.4	4.9	7.3	17.1	26.9	51.3	66.0	105.1
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.6	39.1	61.1
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	17.1	39.1
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	12.2	12.2
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	14.7	9.8	7.3
82.5°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	17.1	9.8	7.3
85°	0.0	0.0	2.4	7.3	9.8	12.2	19.6	17.1	9.8	4.9
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	9.8	7.3	4.9	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637559

CATALOG NUMBER: IFLD-S-SA6A-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
29536.8	0°	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8	29536.8
29612.5	2.5°	29832.6	29942.6	30135.8	30189.5	30355.8	30165.1	30060.0	30069.7	29842.4
29539.2	5°	29832.6	30084.4	30421.8	30583.2	30705.4	30695.6	30668.7	30600.3	30434.0
29392.5	7.5°	29754.4	30165.1	30629.6	30844.8	30991.5	30979.2	31040.4	30930.3	30727.4
29130.9	10°	29502.5	29859.5	30431.6	30607.6	30844.8	30849.7	30773.9	30795.9	30434.0
28175.0	12.5°	28710.4	28989.1	29490.3	29690.8	29979.3	30025.7	29942.6	29910.8	29568.5
26607.8	15°	27177.4	27338.8	27842.4	28042.9	28329.0	28289.9	28373.0	28338.8	28038.0
24490.5	17.5°	24935.5	24986.8	25514.9	25683.6	25952.5	26057.7	25933.0	26091.9	25832.7
21568.8	20°	21720.4	21996.7	22590.8	22850.0	23006.4	23194.7	23030.9	23209.4	22906.2
18023.8	22.5°	18458.9	18622.8	19160.6	19534.7	19825.6	19862.3	19801.2	19925.9	19517.6
14899.2	25°	14896.7	15168.1	15593.5	16082.5	16368.6	16544.6	16385.7	16466.4	16400.3
11554.6	27.5°	11750.2	11992.2	12312.5	12676.8	13107.1	13336.9	13209.8	13346.7	13023.9
8615.8	30°	8623.1	8745.4	9107.2	9493.5	9965.4	10244.1	10256.3	10395.7	10205.0
6036.4	32.5°	6080.4	6188.0	6410.5	6667.2	7117.1	7427.6	7378.7	7398.2	7280.9
3933.8	35°	3953.4	4097.6	4256.6	4378.8	4650.2	4992.5	4965.6	4941.1	4860.4
2586.7	37.5°	2642.9	2699.2	2787.2	2897.2	3073.2	3288.4	3359.3	3271.3	3237.0
1745.7	40°	1787.2	1885.0	1943.7	2026.8	2109.9	2290.9	2339.8	2322.6	2288.4
1222.4	42.5°	1268.9	1344.7	1418.0	1498.7	1542.7	1655.2	1750.5	1723.6	1709.0
929.1	45°	963.3	1031.7	1117.3	1178.4	1222.4	1288.5	1378.9	1388.7	1366.7
745.7	47.5°	772.6	833.7	902.2	978.0	1029.3	1070.9	1149.1	1178.4	1163.8
628.3	50°	655.2	701.7	767.7	843.5	899.7	936.4	1004.9	1036.6	1026.9
525.7	52.5°	557.4	613.7	674.8	738.4	806.8	843.5	907.1	953.5	946.2
435.2	55°	462.1	535.4	599.0	662.6	740.8	777.5	833.7	894.8	882.6
369.2	57.5°	403.4	464.5	530.5	591.7	674.8	723.7	775.0	838.6	836.2
303.2	60°	337.4	398.5	471.9	523.2	611.2	679.7	726.1	792.1	797.0
229.8	62.5°	268.9	344.7	401.0	471.9	552.5	633.2	677.2	743.2	767.7
176.0	65°	200.5	283.6	347.2	418.1	493.9	584.3	623.4	689.5	713.9
127.1	67.5°	149.1	212.7	293.4	354.5	440.1	518.3	564.8	625.9	643.0
75.8	70°	112.5	163.8	244.5	298.3	386.3	449.9	496.3	542.8	564.8
51.3	72.5°	66.0	122.2	193.1	256.7	332.5	386.3	420.5	457.2	471.9
24.4	75°	46.5	92.9	151.6	212.7	268.9	312.9	344.7	376.5	391.2
12.2	77.5°	24.4	68.5	119.8	171.1	210.3	246.9	278.7	303.2	312.9
9.8	80°	14.7	48.9	97.8	134.5	161.4	193.1	224.9	242.0	239.6
7.3	82.5°	9.8	39.1	70.9	97.8	117.4	141.8	163.8	176.0	176.0
4.9	85°	7.3	26.9	48.9	75.8	78.2	97.8	102.7	114.9	117.4
4.9	87.5°	4.9	17.1	26.9	44.0	41.6	51.3	53.8	61.1	66.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
29536.8
29659.0
30487.8
30773.9
30328.9
29490.3
28133.4
25769.2
22881.8
19461.4
16358.8
13107.1
10239.2
7346.9
4789.5
3229.7
2293.3
1696.8
1364.3
1156.4
1024.4
941.3
882.6
833.7
797.0
765.3
711.5
643.0
559.9
467.0
386.3
310.5
237.2
173.6
114.9
63.6
0.0

(END OF REPORT)