

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: P637567

Luminaire Tested: **IFLD-M-SA4D-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24575.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 249.7
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



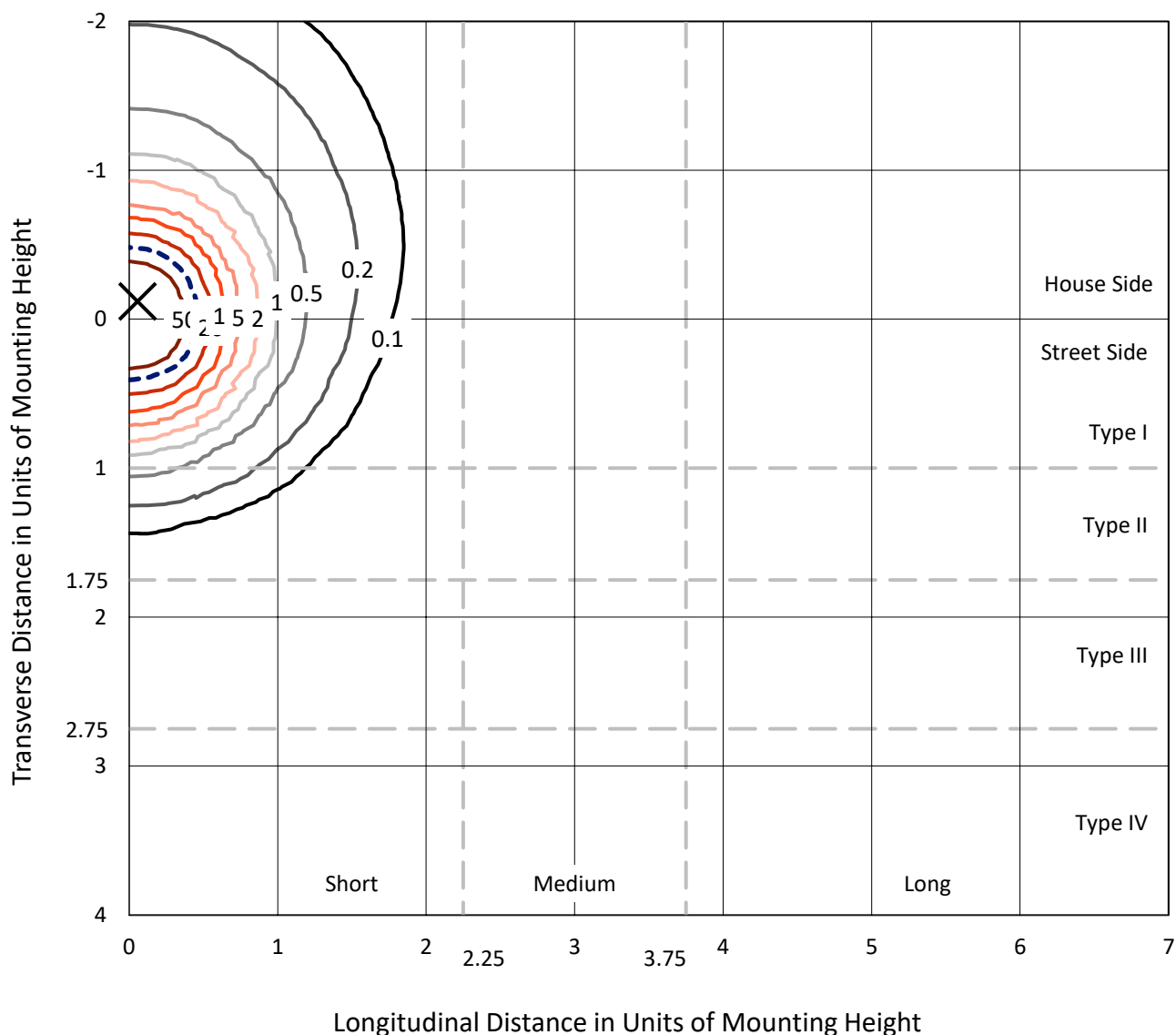
REPORT NUMBER: P637567

CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

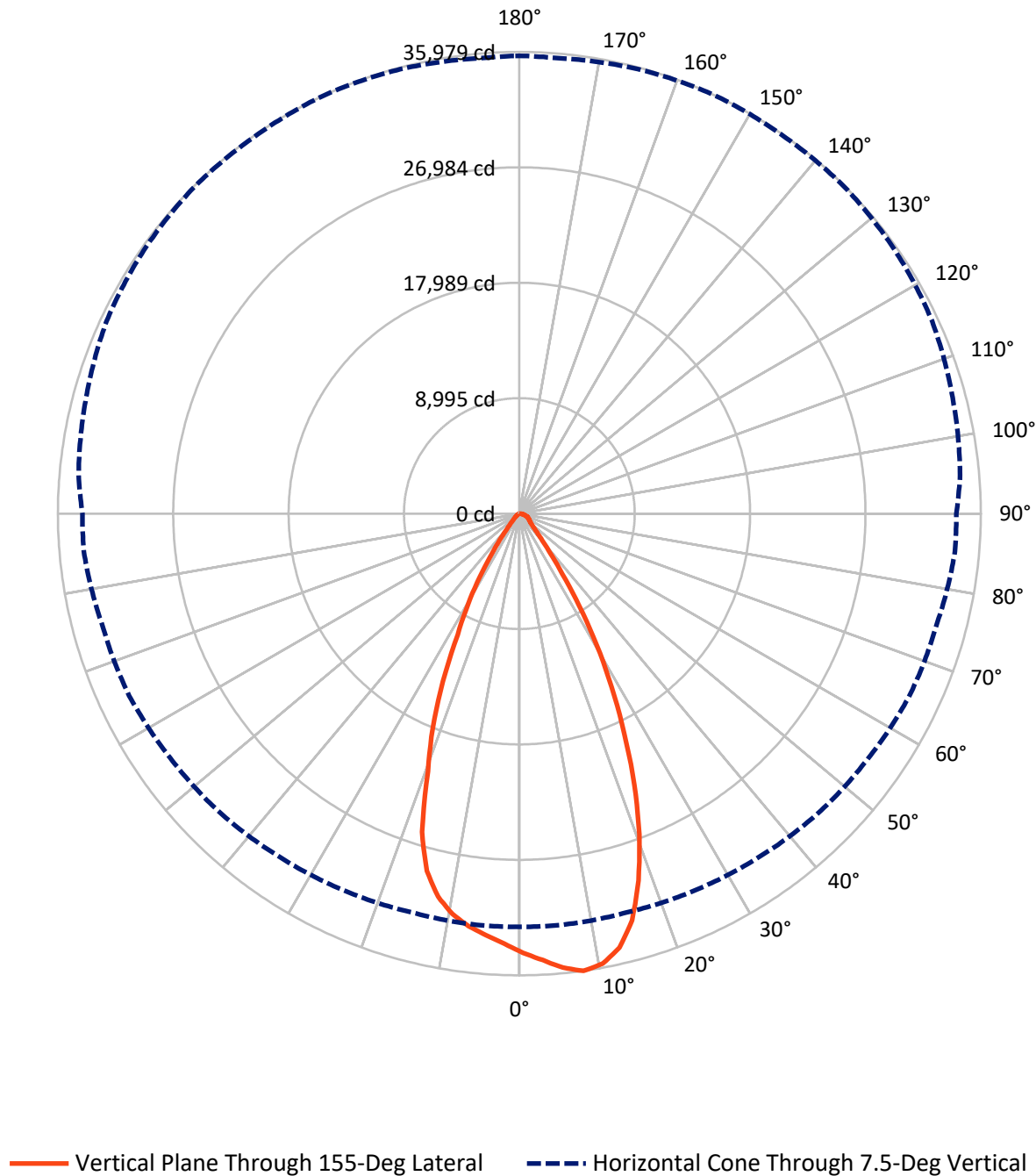


Based on 20 foot mounting height. Maximum calculated value = 87 fc

Type I - Short - N/A

REPORT NUMBER: P637567
CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637567

CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

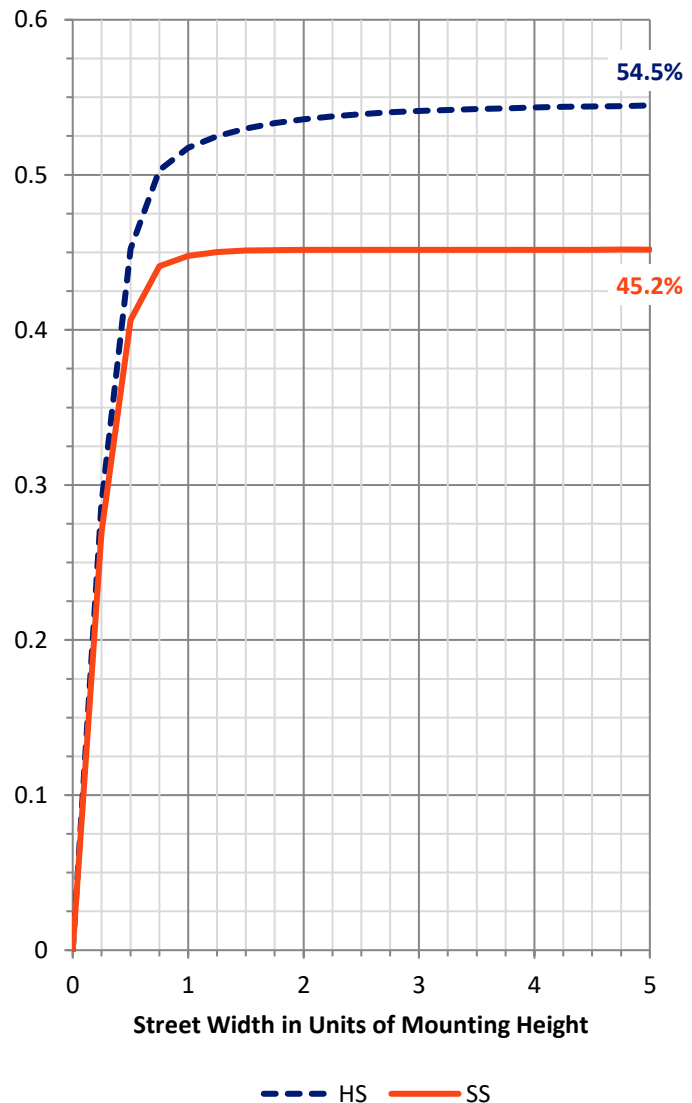
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13566.7	0.0	13566.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11009.0	0.0	11009.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	24575.7	0.0	24575.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3264.6	13.3
10°-20°	8465.2	34.4
20°-30°	7756.5	31.6
30°-40°	3133.6	12.8
40°-50°	919.3	3.7
50°-60°	514.0	2.1
60°-70°	312.2	1.3
70°-80°	158.6	0.6
80°-90°	51.9	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°	24575.7	100.0
0°-180°	24575.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637567

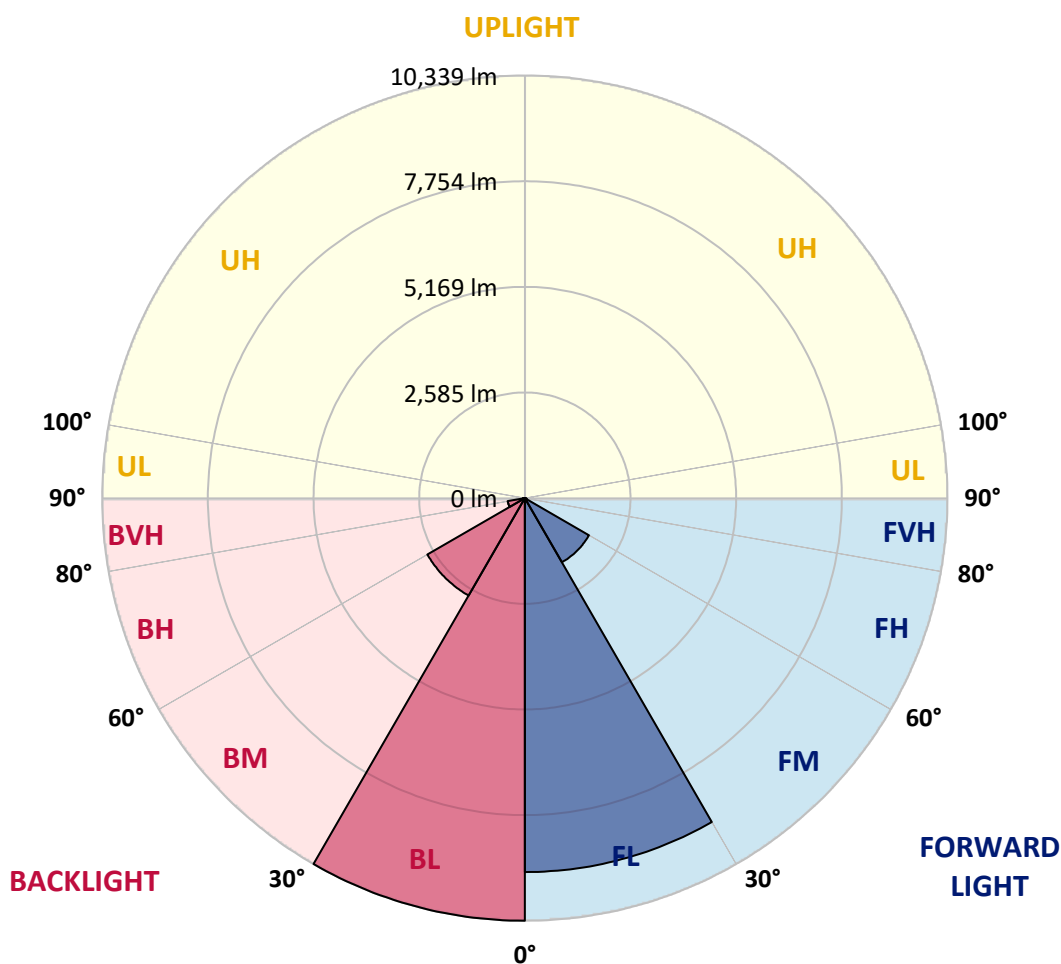
CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9147.7	37.2			
FM	(30°-60°)	1812.9	7.4			
FH	(60°-80°)	43.9	0.2			G0/660
FVH	(80°-90°)	4.5	0.0			G0/10
BL	(0°-30°)	10338.5	42.1	B5		
BM	(30°-60°)	2753.9	11.2	B3/5000		
BH	(60°-80°)	426.9	1.7	B1/500		G1/500
BVH	(80°-90°)	47.4	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: P637567

CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9
2.5°	33493.5	33606.8	33380.1	33530.3	33646.5	33924.2	33946.9	34043.2	34077.2	34329.5
5°	32858.7	32946.5	32762.3	32963.5	33127.9	33374.4	33564.3	33830.7	33978.1	34275.6
7.5°	32198.4	32218.2	32181.4	32393.9	32640.5	32980.5	33215.7	33564.3	33655.0	34080.1
10°	31399.2	31254.7	31325.6	31637.3	32005.7	32527.1	32688.6	33037.2	33198.7	33632.3
12.5°	30124.0	30197.7	30109.8	30506.6	30812.6	31404.9	31574.9	31926.3	32235.2	32617.8
15°	28327.3	28284.8	28463.3	28772.2	29103.8	29574.2	29849.1	30231.7	30466.9	30863.6
17.5°	24289.1	24433.6	25170.4	25944.0	26624.2	27173.9	27502.7	27820.1	27990.1	28420.8
20°	20976.3	20794.9	20894.1	21330.5	23266.0	24107.7	24453.4	24529.9	24600.8	24940.9
22.5°	17272.4	17212.9	17544.5	18034.7	18493.8	20435.0	20905.4	20726.9	20874.3	21194.5
25°	12826.1	13126.5	13421.2	14362.0	14957.1	15909.3	16802.0	16881.3	16935.2	17136.4
27.5°	10440.0	10335.1	10329.4	10593.0	11471.5	12265.0	13024.4	13200.1	13169.0	13361.7
30°	8206.9	8172.9	8053.8	8116.2	8028.3	8734.0	9091.0	9813.7	9774.0	9779.7
32.5°	5919.9	5792.4	5744.2	5837.8	5747.1	5681.9	5993.6	6809.8	6795.6	6852.3
35°	3582.0	3565.0	3604.7	3686.9	3505.5	3499.8	3565.0	4333.0	4426.5	4517.2
37.5°	1978.0	1961.0	1992.2	2295.4	2235.9	2182.1	2199.1	2604.3	2873.5	2941.6
40°	1303.6	1300.7	1323.4	1377.3	1479.3	1459.4	1467.9	1649.3	1904.4	1963.9
42.5°	872.8	875.7	889.8	952.2	966.3	1068.4	1051.4	1093.9	1331.9	1382.9
45°	697.1	694.3	702.8	674.5	691.5	796.3	807.7	810.5	1014.5	1045.7
47.5°	549.8	549.8	558.3	521.4	512.9	578.1	637.6	646.1	810.5	853.0
50°	385.4	385.4	427.9	410.9	430.7	450.6	515.8	524.3	663.1	708.5
52.5°	283.4	289.1	294.7	297.6	362.7	359.9	416.6	456.3	501.6	580.9
55°	215.4	221.0	206.9	221.0	269.2	300.4	311.7	368.4	399.6	487.4
57.5°	141.7	155.9	144.5	170.0	181.4	232.4	249.4	303.2	323.1	399.6
60°	19.8	22.7	36.8	119.0	127.5	153.0	192.7	240.9	260.7	325.9
62.5°	2.8	2.8	8.5	19.8	85.0	102.0	144.5	167.2	192.7	243.7
65°	0.0	0.0	2.8	5.7	17.0	59.5	73.7	90.7	133.2	175.7
67.5°	0.0	0.0	2.8	5.7	8.5	19.8	31.2	59.5	76.5	121.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	17.0	22.7	45.3	70.8
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	17.0	19.8	45.3
75°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	17.0	17.0	19.8
77.5°	0.0	0.0	2.8	5.7	11.3	17.0	19.8	17.0	14.2	14.2
80°	0.0	0.0	2.8	8.5	14.2	19.8	22.7	17.0	11.3	8.5
82.5°	0.0	0.0	2.8	8.5	14.2	19.8	22.7	19.8	11.3	8.5
85°	0.0	0.0	2.8	8.5	11.3	14.2	22.7	19.8	11.3	5.7
87.5°	0.0	0.0	0.0	2.8	2.8	5.7	11.3	8.5	5.7	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637567

CATALOG NUMBER: IFLD-M-SA4D-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
34235.9	0°	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9	34235.9
34323.8	2.5°	34578.8	34706.4	34930.2	34992.6	35185.3	34964.2	34842.4	34853.7	34590.2
34238.8	5°	34578.8	34870.7	35261.8	35448.8	35590.5	35579.2	35548.0	35468.7	35276.0
34068.7	7.5°	34488.1	34964.2	35502.7	35752.1	35922.1	35907.9	35978.8	35851.2	35616.0
33765.5	10°	34196.3	34610.0	35273.1	35477.2	35752.1	35757.7	35669.9	35695.4	35276.0
32657.5	12.5°	33278.1	33601.1	34182.1	34414.5	34748.9	34802.7	34706.4	34669.5	34272.8
30841.0	15°	31501.3	31688.3	32272.1	32504.4	32836.0	32790.7	32887.0	32847.3	32498.8
28386.8	17.5°	28902.6	28962.1	29574.2	29769.8	30081.5	30203.3	30058.8	30243.0	29942.6
25000.4	20°	25176.1	25496.3	26184.9	26485.3	26666.7	26884.9	26695.0	26901.9	26550.5
20891.3	22.5°	21395.7	21585.6	22209.0	22642.6	22979.8	23022.3	22951.5	23096.0	22622.8
17269.6	25°	17266.7	17581.3	18074.4	18641.2	18972.7	19176.8	18992.6	19086.1	19009.6
13392.8	27.5°	13619.6	13900.1	14271.3	14693.6	15192.4	15458.7	15311.4	15470.1	15096.0
9986.5	30°	9995.0	10136.7	10556.2	11003.9	11550.8	11873.9	11888.1	12049.6	11828.6
6996.8	32.5°	7047.8	7172.5	7430.4	7728.0	8249.4	8609.3	8552.6	8575.3	8439.3
4559.7	35°	4582.4	4749.6	4933.8	5075.5	5390.0	5786.8	5755.6	5727.2	5633.7
2998.2	37.5°	3063.4	3128.6	3230.6	3358.1	3562.2	3811.5	3893.7	3791.7	3752.0
2023.4	40°	2071.6	2184.9	2252.9	2349.3	2445.6	2655.3	2712.0	2692.2	2652.5
1416.9	42.5°	1470.8	1558.6	1643.6	1737.2	1788.2	1918.5	2029.0	1997.9	1980.9
1076.9	45°	1116.5	1195.9	1295.1	1365.9	1416.9	1493.4	1598.3	1609.6	1584.1
864.3	47.5°	895.5	966.3	1045.7	1133.5	1193.1	1241.2	1331.9	1365.9	1348.9
728.3	50°	759.5	813.3	889.8	977.7	1042.9	1085.4	1164.7	1201.6	1190.2
609.3	52.5°	646.1	711.3	782.1	855.8	935.2	977.7	1051.4	1105.2	1096.7
504.4	55°	535.6	620.6	694.3	768.0	858.7	901.2	966.3	1037.2	1023.0
427.9	57.5°	467.6	538.4	614.9	685.8	782.1	838.8	898.3	972.0	969.2
351.4	60°	391.1	461.9	546.9	606.4	708.5	787.8	841.7	918.2	923.8
266.4	62.5°	311.7	399.6	464.8	546.9	640.5	734.0	785.0	861.5	889.8
204.0	65°	232.4	328.7	402.4	484.6	572.4	677.3	722.6	799.2	827.5
147.4	67.5°	172.9	246.5	340.1	410.9	510.1	600.8	654.6	725.5	745.3
87.8	70°	130.4	189.9	283.4	345.7	447.8	521.4	575.3	629.1	654.6
59.5	72.5°	76.5	141.7	223.9	297.6	385.4	447.8	487.4	529.9	546.9
28.3	75°	53.8	107.7	175.7	246.5	311.7	362.7	399.6	436.4	453.4
14.2	77.5°	28.3	79.3	138.9	198.4	243.7	286.2	323.1	351.4	362.7
11.3	80°	17.0	56.7	113.4	155.9	187.0	223.9	260.7	280.6	277.7
8.5	82.5°	11.3	45.3	82.2	113.4	136.0	164.4	189.9	204.0	204.0
5.7	85°	8.5	31.2	56.7	87.8	90.7	113.4	119.0	133.2	136.0
5.7	87.5°	5.7	19.8	31.2	51.0	48.2	59.5	62.3	70.8	76.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34235.9
34377.6
35338.3
35669.9
35154.1
34182.1
32609.3
29868.9
26522.2
22557.6
18961.4
15192.4
11868.2
8515.8
5551.5
3743.5
2658.2
1966.7
1581.3
1340.4
1187.4
1091.0
1023.0
966.3
923.8
887.0
824.7
745.3
649.0
541.3
447.8
359.9
274.9
201.2
133.2
73.7
0.0

(END OF REPORT)