

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: P636432

Luminaire Tested: **IFLD-S-SA6E-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27720 lumens
Efficiency: N/A
Efficacy: 59.7 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): 464.2
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

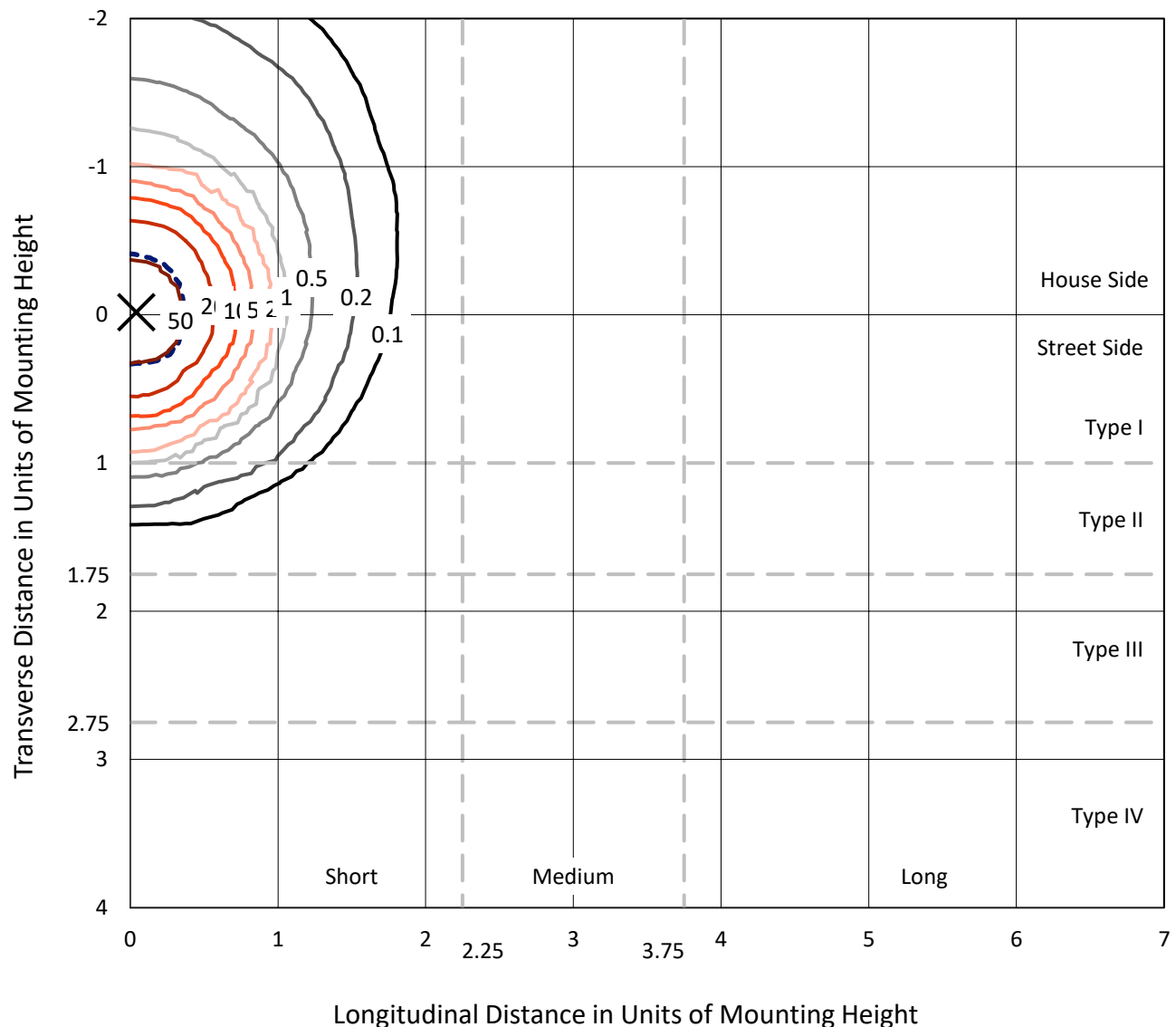


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Iso-Footcandle Lines of Horizontal Illumination

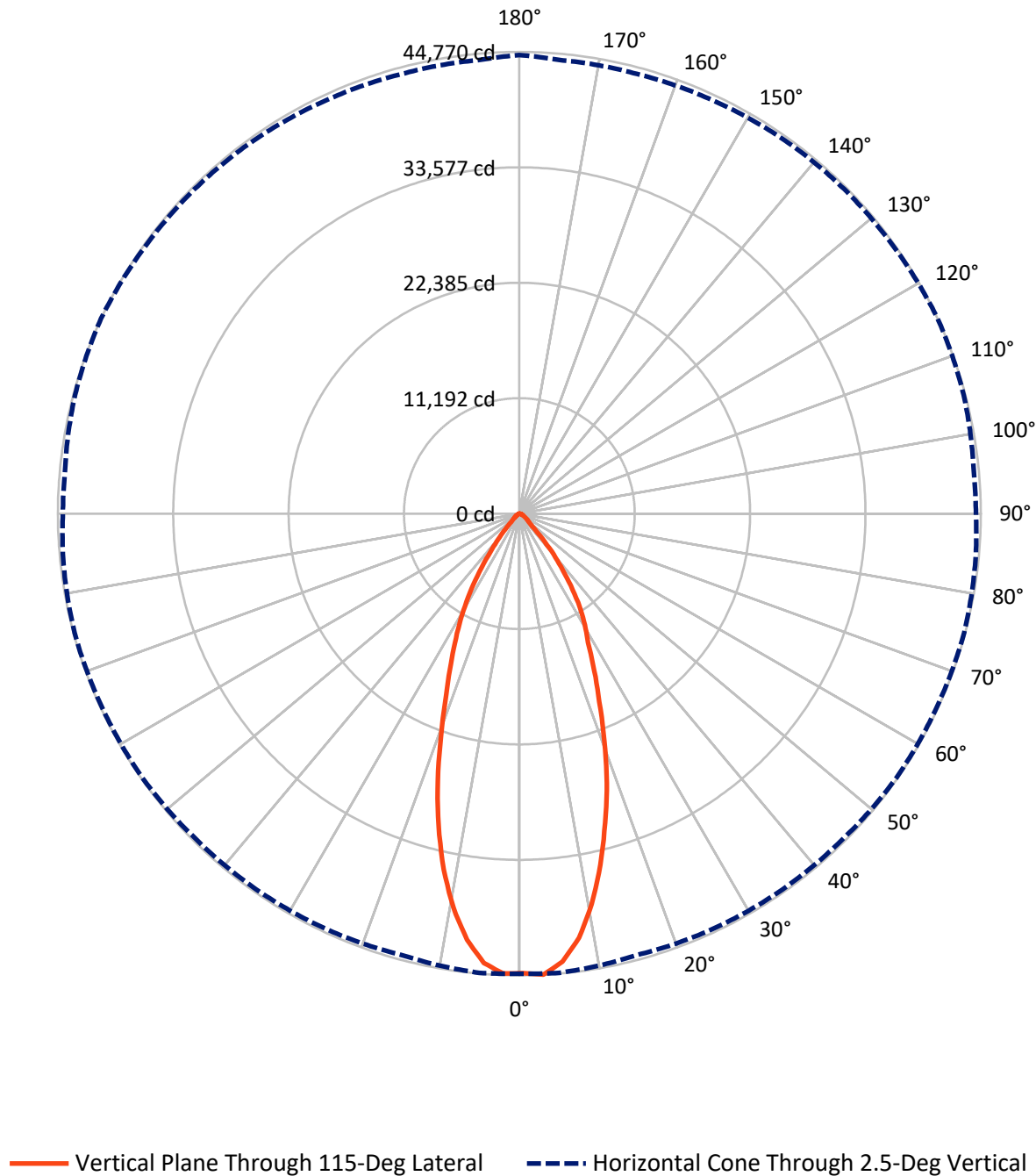
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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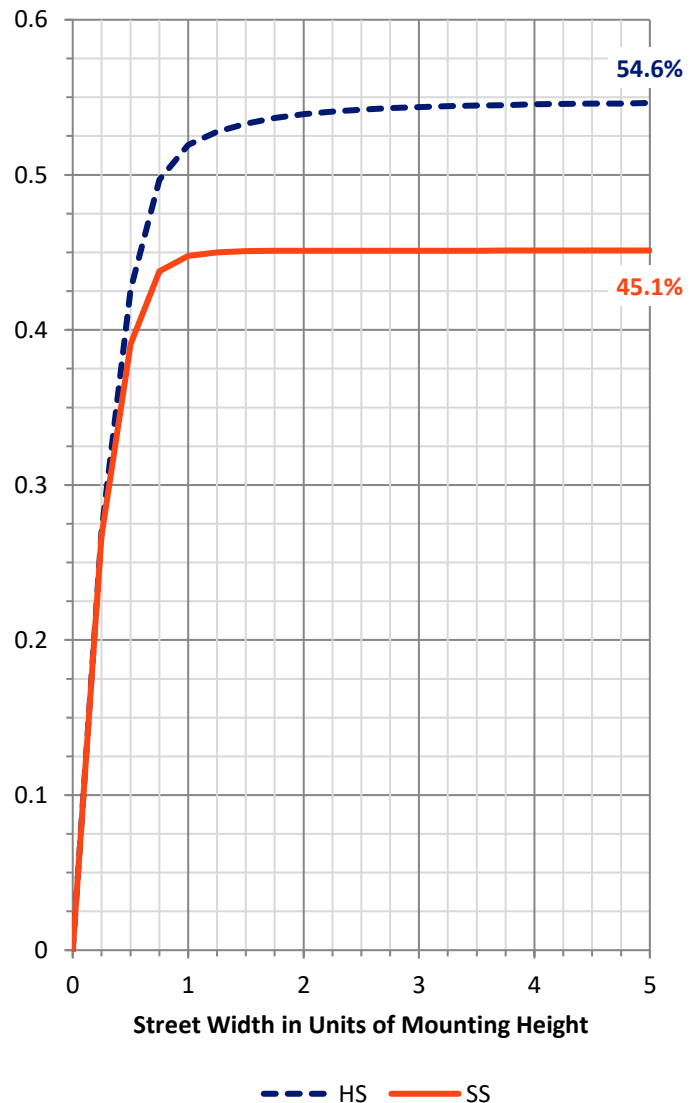
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15298.2	0.0	15298.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12421.8	0.0	12421.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	27720.0	0.0	27720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3996.7	14.4
10°-20°	8446.9	30.5
20°-30°	7623.9	27.5
30°-40°	5045.2	18.2
40°-50°	1511.3	5.5
50°-60°	606.2	2.2
60°-70°	313.9	1.1
70°-80°	136.3	0.5
80°-90°	39.6	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°	27720.0	100.0
0°-180°	27720.0	100.0

Coefficient of Utilization



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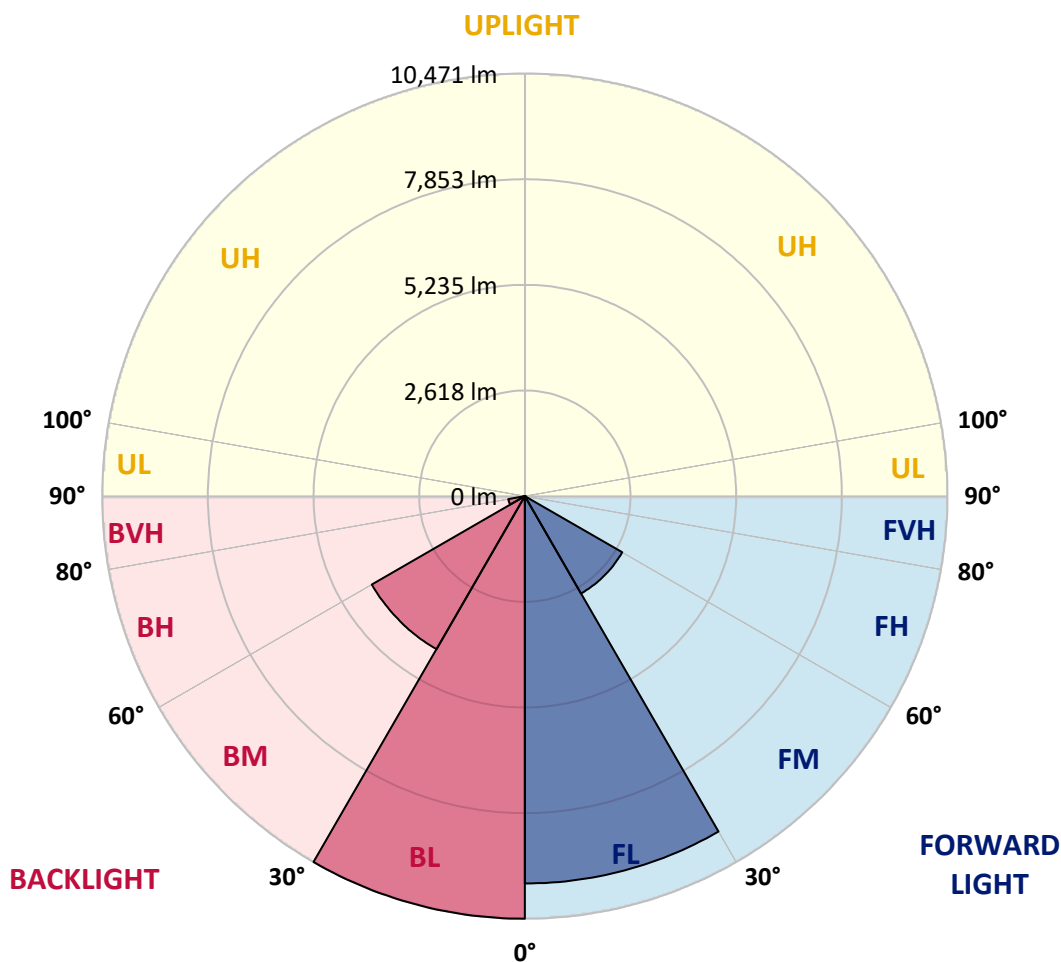
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9596.9	34.6			
FM	(30°-60°)	2784.7	10.0			
FH	(60°-80°)	34.5	0.1			G0/660
FVH	(80°-90°)	5.7	0.0			G0/10
BL	(0°-30°)	10470.6	37.8	B5		
BM	(30°-60°)	4378.0	15.8	B3/5000		
BH	(60°-80°)	415.7	1.5	B1/500		G1/500
BVH	(80°-90°)	33.9	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°	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0
2.5°	44616.7	44696.1	44299.2	44435.3	44492.0	44509.0	44650.7	44628.0	44667.7	44458.0
5°	44027.1	43874.0	43579.2	43584.9	43567.9	43409.2	43732.3	43709.6	43641.6	43392.1
7.5°	42020.2	42241.3	41685.7	41674.4	41663.0	41470.3	41895.5	41634.7	41691.4	41334.2
10°	39083.5	39111.9	38618.7	38573.3	38613.0	38363.6	38856.8	38754.7	38862.4	38488.3
12.5°	35483.6	35642.3	35098.1	35018.7	35177.5	34826.0	35222.8	35273.8	35115.1	35064.1
15°	27830.2	28249.7	29281.5	30857.5	31265.7	30970.9	31288.4	31282.7	31350.7	30965.2
17.5°	21202.9	21242.5	20998.8	21752.8	26118.1	27535.4	27603.4	27064.8	26656.6	26514.9
20°	18510.0	18646.0	18424.9	18487.3	19184.6	23340.1	23498.9	22688.2	21990.9	21934.2
22.5°	16367.0	16452.1	16293.3	16344.3	16378.4	16865.9	19626.8	18912.5	18578.0	18322.9
25°	14552.9	14552.9	14467.8	14484.8	14450.8	13730.8	15148.1	15964.5	15771.7	15681.0
27.5°	12897.5	12920.1	12812.4	12874.8	12460.9	11298.7	11128.7	13538.1	13334.0	13169.6
30°	11327.1	11400.8	11298.7	11332.8	10431.3	9478.9	8991.4	11293.1	11548.2	11502.8
32.5°	8526.5	8861.0	9683.0	9717.0	8492.5	7761.2	7545.7	9065.1	10034.5	9949.5
35°	5283.7	5266.7	5300.7	6933.4	6513.9	6015.0	6094.4	6848.4	7942.6	7902.9
37.5°	4030.8	4025.1	4087.5	3923.1	4268.9	4563.7	4626.1	4626.1	5799.6	5805.3
40°	3055.7	3033.0	3027.4	2766.6	2318.7	3424.2	3322.2	3237.1	4030.8	4115.8
42.5°	1950.2	2018.2	1967.2	1683.8	1513.7	1870.8	2086.3	2018.2	2488.8	2551.1
45°	1088.5	1088.5	1043.1	884.4	878.7	946.8	1190.5	1111.2	1275.6	1360.6
47.5°	527.2	515.9	566.9	697.3	725.7	703.0	850.4	884.4	963.8	1043.1
50°	425.2	425.2	402.5	362.8	600.9	578.3	629.3	674.6	720.0	788.0
52.5°	357.2	357.2	328.8	306.1	345.8	442.2	447.9	532.9	527.2	623.6
55°	181.4	187.1	266.5	266.5	232.4	362.8	368.5	430.9	442.2	521.6
57.5°	17.0	22.7	34.0	164.4	181.4	198.4	277.8	317.5	368.5	402.5
60°	5.7	5.7	11.3	22.7	107.7	136.1	175.7	209.8	255.1	334.5
62.5°	0.0	0.0	5.7	11.3	22.7	85.0	96.4	107.7	153.1	209.8
65°	0.0	0.0	5.7	5.7	11.3	28.3	39.7	68.0	96.4	130.4
67.5°	0.0	0.0	5.7	5.7	11.3	17.0	22.7	34.0	45.4	85.0
70°	0.0	0.0	5.7	5.7	11.3	17.0	17.0	22.7	28.3	39.7
72.5°	0.0	0.0	5.7	5.7	11.3	22.7	17.0	17.0	22.7	28.3
75°	0.0	0.0	5.7	5.7	11.3	17.0	17.0	17.0	17.0	17.0
77.5°	0.0	0.0	5.7	5.7	11.3	17.0	17.0	17.0	11.3	11.3
80°	0.0	0.0	5.7	5.7	11.3	17.0	22.7	22.7	11.3	11.3
82.5°	0.0	0.0	5.7	11.3	11.3	28.3	34.0	28.3	11.3	5.7
85°	0.0	0.0	5.7	5.7	17.0	28.3	28.3	17.0	11.3	5.7
87.5°	0.0	0.0	0.0	5.7	5.7	11.3	17.0	17.0	5.7	5.7
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°
44560.0	0°	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0	44560.0
44287.9	2.5°	44265.2	44611.0	44769.8	44605.4	44526.0	44412.6	44248.2	44134.8	44157.5
43256.1	5°	43159.7	43522.5	43647.3	43505.5	43386.5	43324.1	43295.8	43352.5	43499.9
41181.2	7.5°	41169.8	41402.3	41538.3	41470.3	41305.9	41493.0	41544.0	41510.0	41725.4
38374.9	10°	38386.2	38641.3	38516.6	38545.0	38352.2	38448.6	38420.2	38545.0	38760.4
35024.4	12.5°	34797.6	35041.4	34945.0	34928.0	34723.9	34905.3	34792.0	34928.0	35211.5
30806.5	15°	31027.6	31180.7	31118.3	31021.9	30840.5	30902.9	31254.4	31231.7	31356.4
26429.9	17.5°	26316.5	27053.5	27456.0	27541.0	27393.6	27518.4	27767.8	27705.4	27988.9
21815.1	20°	21775.4	22518.1	23510.2	24315.2	24332.3	24349.3	24508.0	24547.7	24791.5
18328.6	22.5°	18249.2	18776.4	19842.2	20908.1	21645.1	21798.1	21781.1	21837.8	21905.8
15556.3	25°	15516.6	15902.1	16877.2	17614.2	18906.8	19337.7	19462.4	19337.7	19377.4
13112.9	27.5°	13260.3	13849.9	14173.0	14961.0	16225.3	17223.1	17183.4	17109.7	17121.0
11412.1	30°	11406.5	12041.4	12517.6	12755.7	13708.2	15148.1	15295.5	15085.8	15091.4
9909.8	32.5°	9847.4	10045.8	10748.8	10941.6	11553.9	12863.4	13368.0	13209.3	13180.9
7925.6	35°	8158.0	8265.7	8588.9	8968.7	9331.5	10323.6	11157.0	11009.6	11083.3
5827.9	37.5°	5805.3	6247.5	6559.3	6871.1	7131.9	7755.5	8758.9	8622.9	8696.6
4127.2	40°	4093.2	4291.6	4830.2	4966.2	5351.7	5640.9	6491.2	6445.9	6536.6
2562.5	42.5°	2517.1	2658.9	2931.0	3061.4	3322.2	3486.6	3985.5	4042.1	4161.2
1417.3	45°	1428.6	1491.0	1678.1	1819.8	2012.6	2080.6	2256.3	2335.7	2403.7
1099.8	47.5°	1088.5	1156.5	1281.2	1406.0	1564.7	1621.4	1746.1	1865.2	1927.5
850.4	50°	890.1	952.4	1082.8	1184.9	1343.6	1394.6	1496.7	1627.1	1706.4
646.3	52.5°	674.6	765.3	924.1	1031.8	1196.2	1258.6	1354.9	1485.3	1559.0
532.9	55°	555.6	623.6	765.3	912.7	1065.8	1150.8	1213.2	1371.9	1451.3
436.5	57.5°	476.2	527.2	617.9	793.7	924.1	1048.8	1099.8	1247.2	1326.6
345.8	60°	362.8	442.2	521.6	657.6	805.0	935.4	992.1	1122.5	1184.9
249.4	62.5°	300.5	351.5	453.5	527.2	691.6	827.7	884.4	1003.5	1048.8
164.4	65°	209.8	283.5	379.8	425.2	578.3	708.7	788.0	878.7	924.1
96.4	67.5°	124.7	209.8	300.5	362.8	470.5	600.9	686.0	771.0	810.7
56.7	70°	79.4	164.4	238.1	306.1	368.5	493.2	595.3	669.0	652.0
34.0	72.5°	45.4	102.0	175.7	249.4	306.1	413.9	510.2	566.9	402.5
22.7	75°	28.3	73.7	147.4	204.1	249.4	328.8	419.5	430.9	249.4
11.3	77.5°	22.7	56.7	113.4	164.4	170.1	243.8	294.8	334.5	187.1
11.3	80°	11.3	45.4	96.4	136.1	107.7	170.1	226.8	260.8	147.4
5.7	82.5°	11.3	28.3	73.7	96.4	79.4	130.4	164.4	187.1	124.7
5.7	85°	5.7	22.7	39.7	56.7	56.7	85.0	73.7	90.7	79.4
5.7	87.5°	5.7	11.3	22.7	28.3	22.7	34.0	39.7	39.7	34.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
44560.0
44463.6
43806.0
41940.8
38845.4
35262.5
31384.8
27943.5
24740.4
21781.1
19315.0
17138.0
15097.1
13248.9
11151.3
8758.9
6570.6
4297.3
2398.1
1955.9
1740.4
1610.1
1474.0
1360.6
1196.2
1054.5
924.1
805.0
600.9
357.2
232.4
187.1
153.1
136.1
79.4
28.3
0.0

(END OF REPORT)