

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: P636445

Luminaire Tested: **IFLD-L-SA8C-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26541.8 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

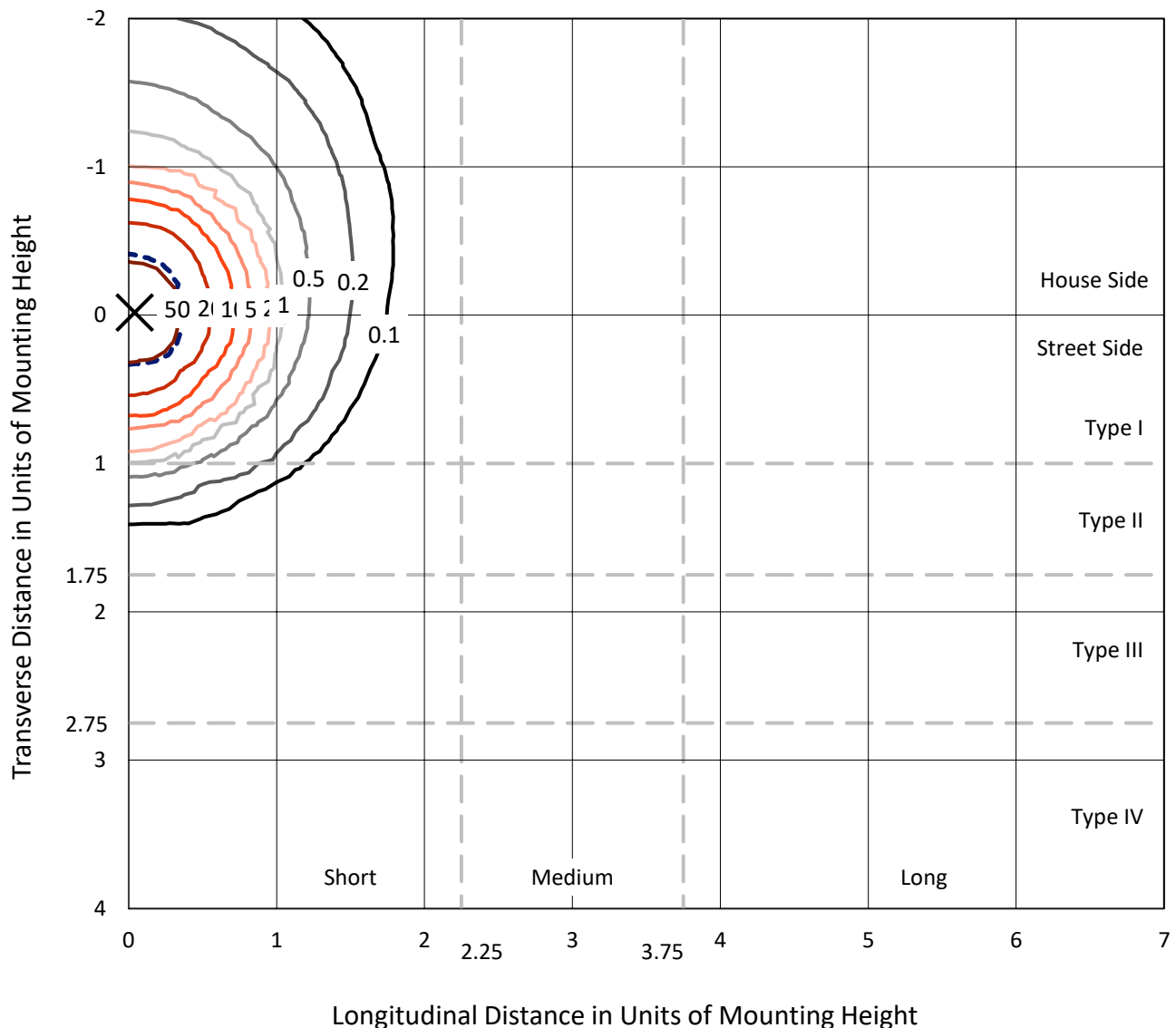
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

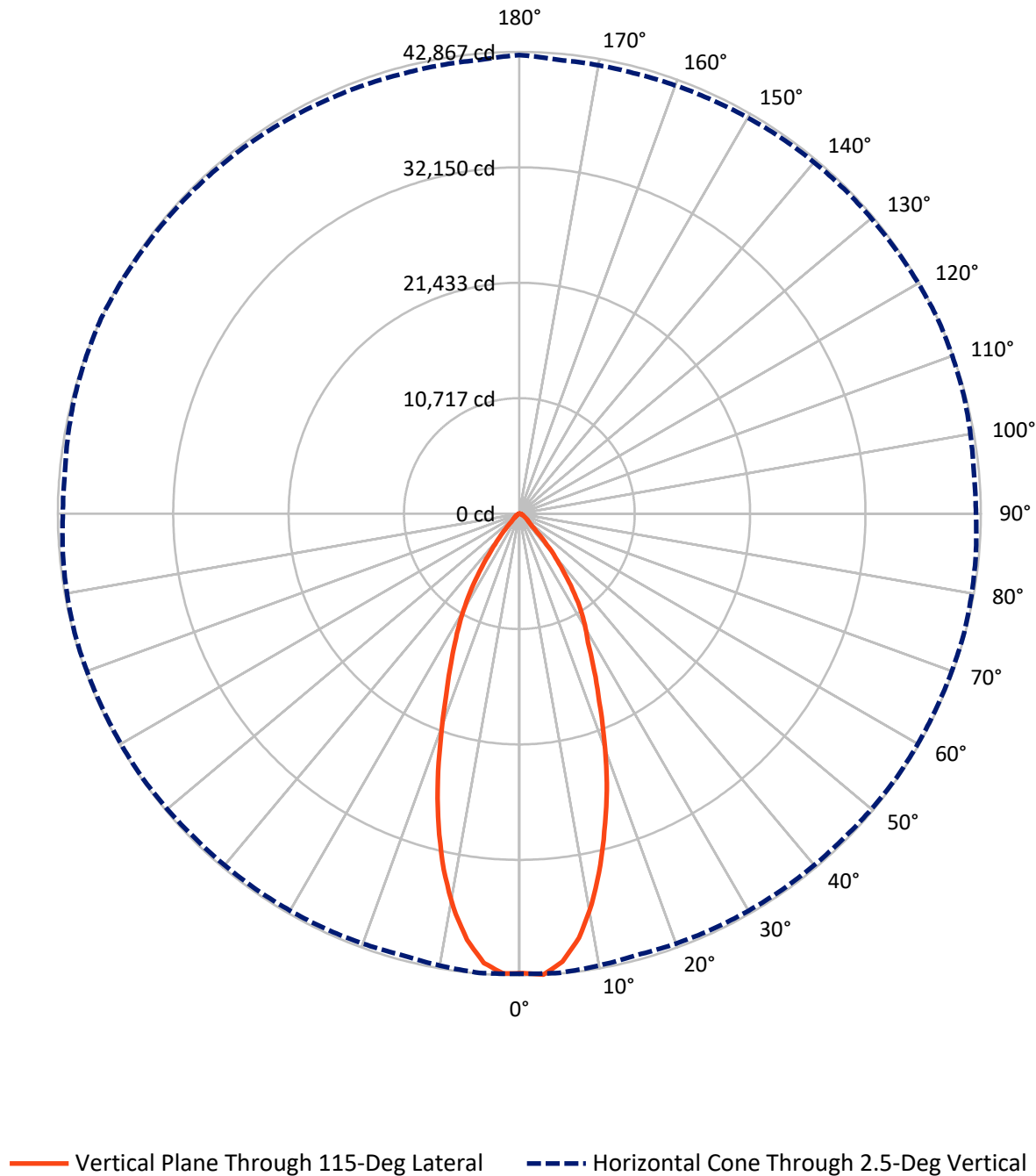
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 106.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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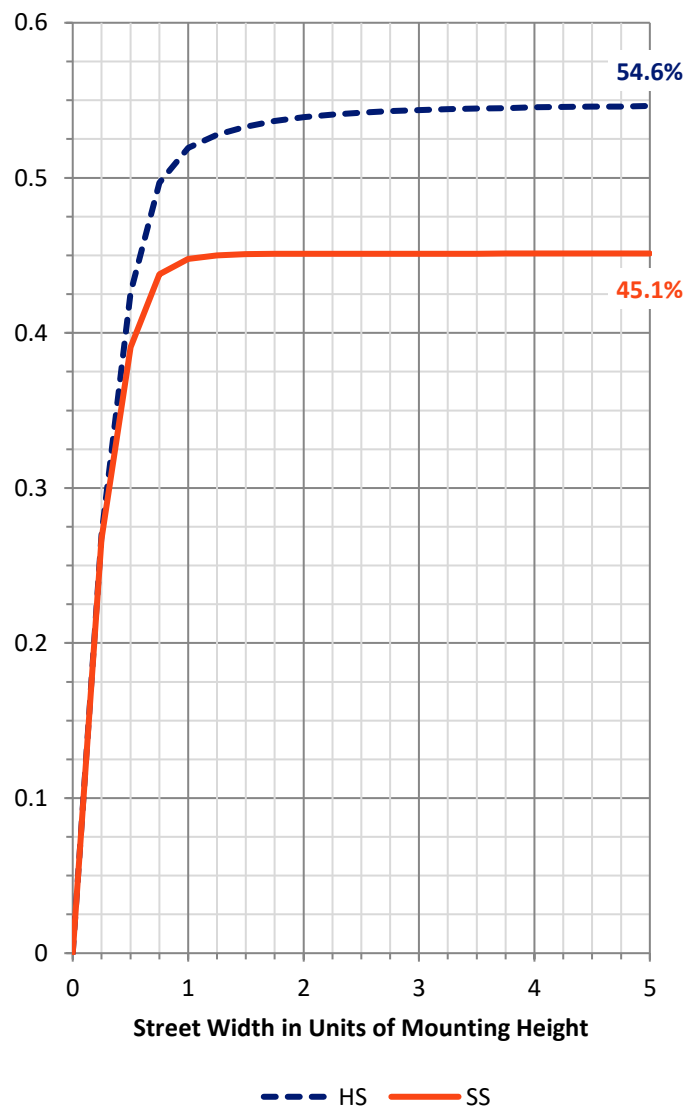
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14648.0	0.0	14648.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11893.8	0.0	11893.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	26541.8	0.0	26541.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3826.8	14.4
10°-20°	8087.9	30.5
20°-30°	7299.8	27.5
30°-40°	4830.7	18.2
40°-50°	1447.1	5.5
50°-60°	580.5	2.2
60°-70°	300.6	1.1
70°-80°	130.5	0.5
80°-90°	38.0	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°	26541.8	100.0
0°-180°	26541.8	100.0

Coefficient of Utilization



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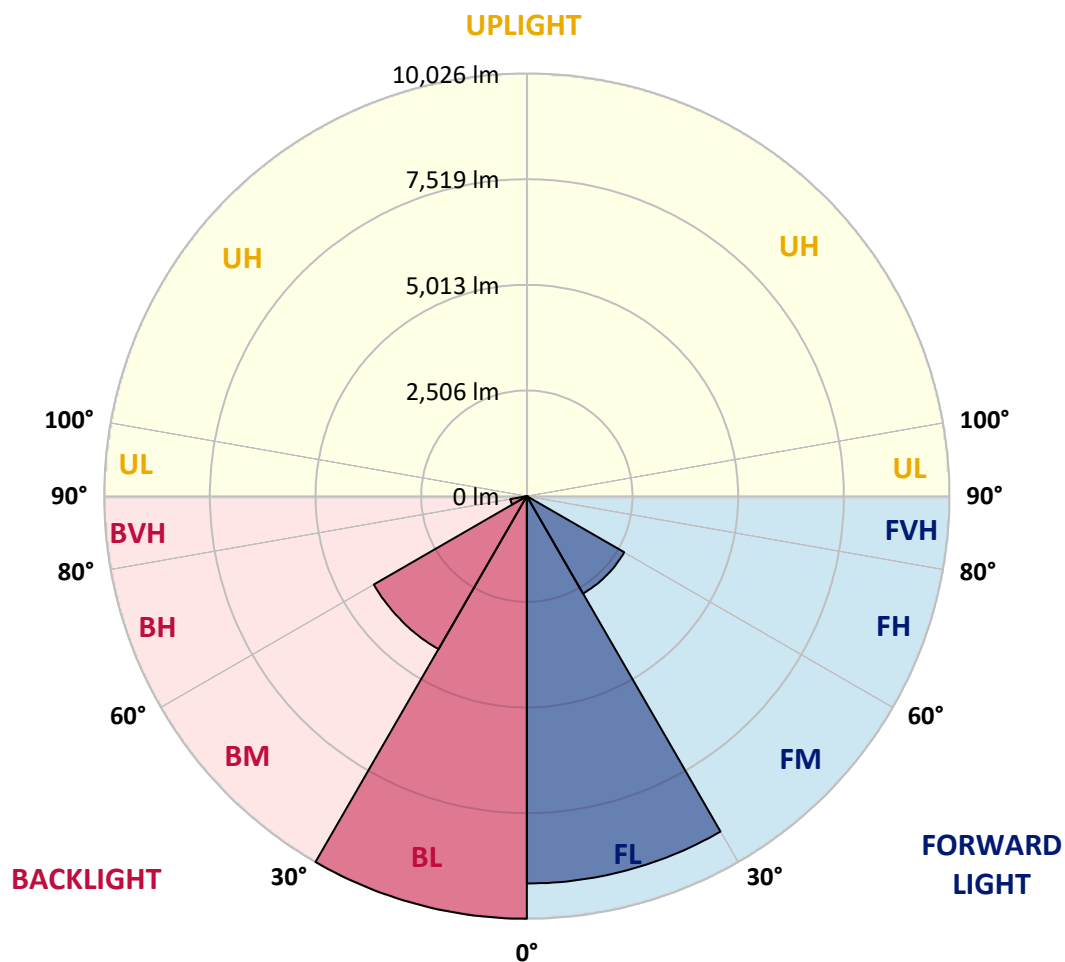
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9189.0	34.6			
FM	(30°-60°)	2666.4	10.0			
FH	(60°-80°)	33.0	0.1			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	10025.5	37.8	B5		
BM	(30°-60°)	4191.9	15.8	B3/5000		
BH	(60°-80°)	398.1	1.5	B1/500		G1/500
BVH	(80°-90°)	32.5	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°	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0
2.5°	42720.3	42796.3	42416.3	42546.6	42600.9	42617.2	42752.9	42731.2	42769.2	42568.3
5°	42155.8	42009.2	41727.0	41732.4	41716.1	41564.1	41873.5	41851.8	41786.7	41547.8
7.5°	40234.2	40445.9	39913.9	39903.1	39892.2	39707.6	40114.8	39865.1	39919.3	39577.4
10°	37422.3	37449.5	36977.2	36933.8	36971.8	36733.0	37205.2	37107.5	37210.6	36852.4
12.5°	33975.4	34127.4	33606.3	33530.3	33682.3	33345.7	33725.7	33774.6	33622.6	33573.7
15°	26647.3	27049.0	28036.9	29546.0	29936.8	29654.5	29958.5	29953.1	30018.2	29649.1
17.5°	20301.7	20339.6	20106.2	20828.2	25007.9	26365.0	26430.1	25914.5	25523.6	25387.9
20°	17723.2	17853.5	17641.8	17701.5	18369.2	22348.1	22500.1	21723.9	21056.2	21001.9
22.5°	15671.4	15752.8	15600.8	15649.6	15682.2	16149.0	18792.6	18108.6	17788.4	17544.1
25°	13934.3	13934.3	13852.9	13869.2	13836.6	13147.2	14504.3	15285.9	15101.4	15014.5
27.5°	12349.3	12371.0	12267.8	12327.6	11931.3	10818.5	10655.7	12962.7	12767.2	12609.8
30°	10845.6	10916.2	10818.5	10851.1	9988.0	9076.0	8609.2	10813.1	11057.3	11013.9
32.5°	8164.1	8484.4	9271.4	9304.0	8131.5	7431.3	7225.0	8679.8	9608.0	9526.6
35°	5059.1	5042.8	5075.4	6638.7	6237.1	5759.4	5835.4	6557.3	7605.0	7567.0
37.5°	3859.5	3854.1	3913.8	3756.3	4087.5	4369.7	4429.5	4429.5	5553.1	5558.5
40°	2925.8	2904.1	2898.7	2649.0	2220.2	3278.7	3181.0	3099.5	3859.5	3940.9
42.5°	1867.3	1932.5	1883.6	1612.2	1449.3	1791.3	1997.6	1932.5	2383.0	2442.7
45°	1042.2	1042.2	998.8	846.8	841.4	906.5	1139.9	1063.9	1221.4	1302.8
47.5°	504.8	494.0	542.8	667.7	694.8	673.1	814.2	846.8	922.8	998.8
50°	407.1	407.1	385.4	347.4	575.4	553.7	602.5	646.0	689.4	754.5
52.5°	342.0	342.0	314.8	293.1	331.1	423.4	428.8	510.3	504.8	597.1
55°	173.7	179.1	255.1	255.1	222.6	347.4	352.8	412.5	423.4	499.4
57.5°	16.3	21.7	32.6	157.4	173.7	190.0	266.0	304.0	352.8	385.4
60°	5.4	5.4	10.9	21.7	103.1	130.3	168.3	200.8	244.3	320.3
62.5°	0.0	0.0	5.4	10.9	21.7	81.4	92.3	103.1	146.6	200.8
65°	0.0	0.0	5.4	5.4	10.9	27.1	38.0	65.1	92.3	124.8
67.5°	0.0	0.0	5.4	5.4	10.9	16.3	21.7	32.6	43.4	81.4
70°	0.0	0.0	5.4	5.4	10.9	16.3	16.3	21.7	27.1	38.0
72.5°	0.0	0.0	5.4	5.4	10.9	21.7	16.3	16.3	21.7	27.1
75°	0.0	0.0	5.4	5.4	10.9	16.3	16.3	16.3	16.3	16.3
77.5°	0.0	0.0	5.4	5.4	10.9	16.3	16.3	16.3	10.9	10.9
80°	0.0	0.0	5.4	5.4	10.9	16.3	21.7	21.7	10.9	10.9
82.5°	0.0	0.0	5.4	10.9	10.9	27.1	32.6	27.1	10.9	5.4
85°	0.0	0.0	5.4	5.4	16.3	27.1	27.1	16.3	10.9	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.9	16.3	16.3	5.4	5.4
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°
42666.0	0°	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0	42666.0
42405.5	2.5°	42383.8	42714.9	42866.9	42709.5	42633.5	42524.9	42367.5	42258.9	42280.6
41417.5	5°	41325.3	41672.7	41792.1	41656.4	41542.4	41482.7	41455.5	41509.8	41651.0
39430.8	7.5°	39419.9	39642.5	39772.8	39707.6	39550.2	39729.4	39778.2	39745.6	39951.9
36743.8	10°	36754.7	36998.9	36879.5	36906.7	36722.1	36814.4	36787.2	36906.7	37112.9
33535.7	12.5°	33318.6	33552.0	33459.7	33443.4	33248.0	33421.7	33313.2	33443.4	33714.9
29497.1	15°	29708.8	29855.4	29795.7	29703.4	29529.7	29589.4	29925.9	29904.2	30023.6
25306.5	17.5°	25197.9	25903.6	26289.0	26370.4	26229.3	26348.7	26587.6	26527.9	26799.3
20887.9	20°	20849.9	21561.0	22510.9	23281.8	23298.0	23314.3	23466.3	23504.3	23737.7
17549.5	22.5°	17473.5	17978.4	18998.9	20019.4	20725.1	20871.6	20855.3	20909.6	20974.8
14895.1	25°	14857.1	15226.2	16159.9	16865.6	18103.2	18515.8	18635.2	18515.8	18553.8
12555.5	27.5°	12696.7	13261.2	13570.6	14325.1	15535.6	16491.0	16453.0	16382.5	16393.3
10927.1	30°	10921.6	11529.6	11985.6	12213.6	13125.5	14504.3	14645.4	14444.6	14450.0
9488.6	32.5°	9428.9	9618.9	10292.0	10476.5	11062.8	12316.7	12799.8	12647.8	12620.7
7588.7	35°	7811.3	7914.4	8223.8	8587.5	8934.9	9884.8	10682.8	10541.7	10612.2
5580.2	37.5°	5558.5	5981.9	6280.5	6579.0	6828.7	7425.8	8386.6	8256.4	8326.9
3951.8	40°	3919.2	4109.2	4624.9	4755.1	5124.3	5401.1	6215.3	6171.9	6258.8
2453.6	42.5°	2410.1	2545.8	2806.4	2931.3	3181.0	3338.4	3816.1	3870.3	3984.3
1357.1	45°	1367.9	1427.6	1606.8	1742.5	1927.0	1992.2	2160.4	2236.4	2301.6
1053.1	47.5°	1042.2	1107.4	1226.8	1346.2	1498.2	1552.5	1671.9	1785.9	1845.6
814.2	50°	852.2	911.9	1036.8	1134.5	1286.5	1335.3	1433.1	1557.9	1633.9
618.8	52.5°	646.0	732.8	884.8	987.9	1145.4	1205.1	1297.4	1422.2	1492.8
510.3	55°	532.0	597.1	732.8	873.9	1020.5	1101.9	1161.6	1313.6	1389.6
418.0	57.5°	456.0	504.8	591.7	760.0	884.8	1004.2	1053.1	1194.2	1270.2
331.1	60°	347.4	423.4	499.4	629.7	770.8	895.7	949.9	1074.8	1134.5
238.8	62.5°	287.7	336.6	434.3	504.8	662.2	792.5	846.8	960.8	1004.2
157.4	65°	200.8	271.4	363.7	407.1	553.7	678.5	754.5	841.4	884.8
92.3	67.5°	119.4	200.8	287.7	347.4	450.5	575.4	656.8	738.2	776.2
54.3	70°	76.0	157.4	228.0	293.1	352.8	472.3	570.0	640.5	624.2
32.6	72.5°	43.4	97.7	168.3	238.8	293.1	396.3	488.5	542.8	385.4
21.7	75°	27.1	70.6	141.1	195.4	238.8	314.8	401.7	412.5	238.8
10.9	77.5°	21.7	54.3	108.6	157.4	162.8	233.4	282.3	320.3	179.1
10.9	80°	10.9	43.4	92.3	130.3	103.1	162.8	217.1	249.7	141.1
5.4	82.5°	10.9	27.1	70.6	92.3	76.0	124.8	157.4	179.1	119.4
5.4	85°	5.4	21.7	38.0	54.3	54.3	81.4	70.6	86.9	76.0
5.4	87.5°	5.4	10.9	21.7	27.1	21.7	32.6	38.0	38.0	32.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
42666.0
42573.8
41944.1
40158.2
37194.4
33763.7
30050.8
26755.8
23688.9
20855.3
18494.0
16409.6
14455.4
12685.8
10677.4
8386.6
6291.3
4114.6
2296.1
1872.7
1666.5
1541.6
1411.3
1302.8
1145.4
1009.7
884.8
770.8
575.4
342.0
222.6
179.1
146.6
130.3
76.0
27.1
0.0

(END OF REPORT)