

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: P636442

Luminaire Tested: **IFLD-L-SA7E-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29573.7 lumens
Efficiency: N/A
Efficacy: 55.5 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): 532.7
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



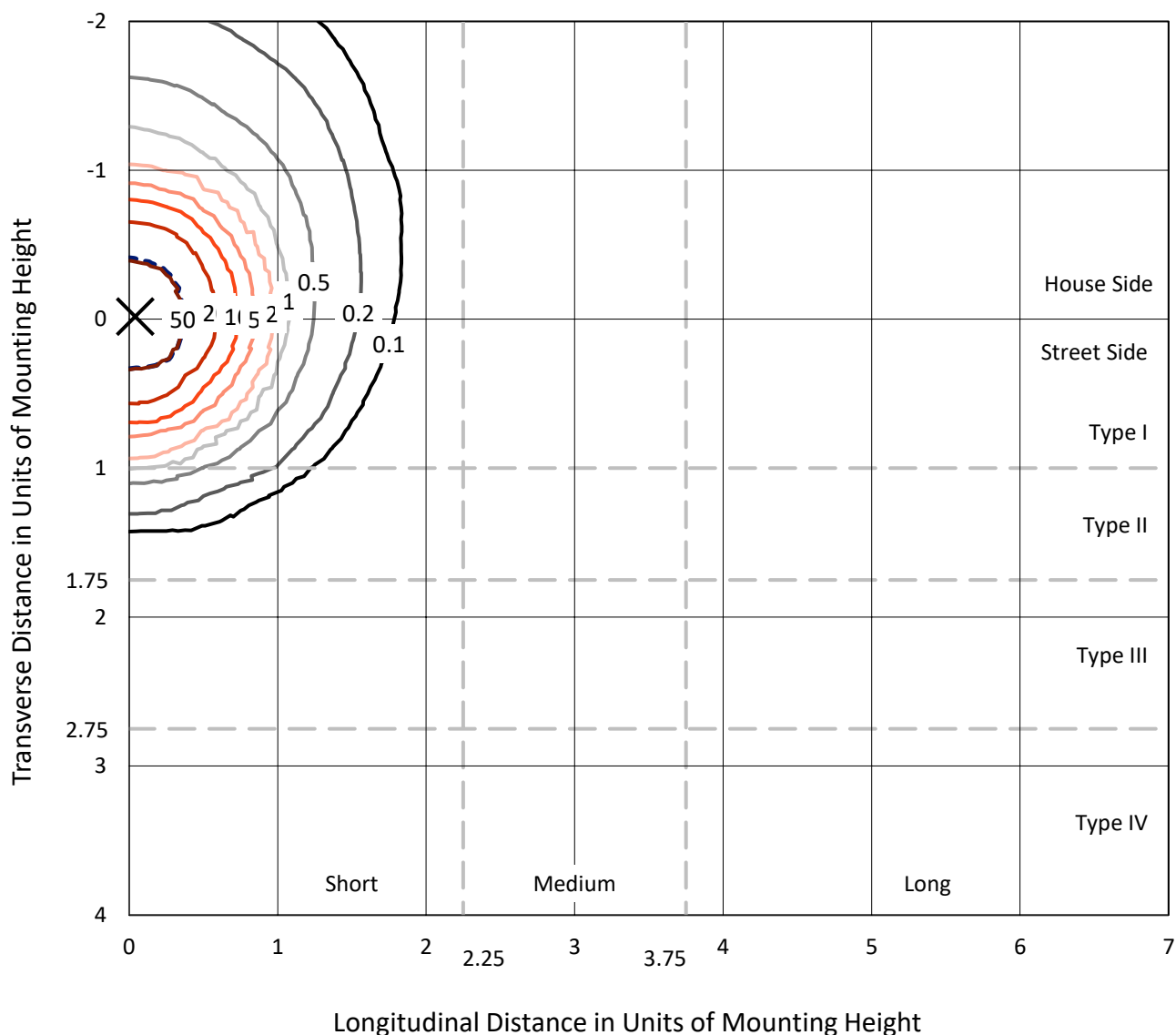
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

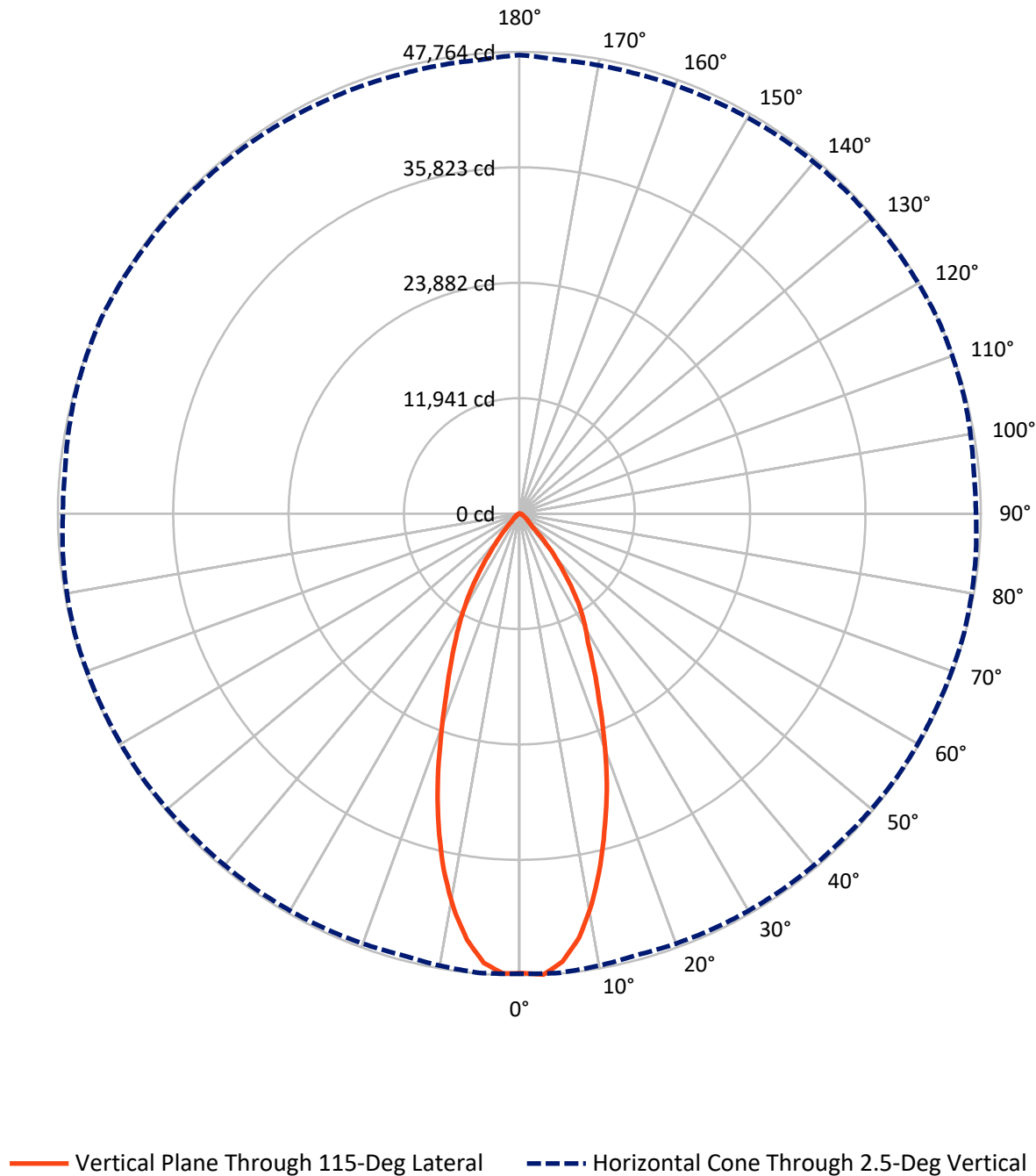


Based on 20 foot mounting height. Maximum calculated value = 118.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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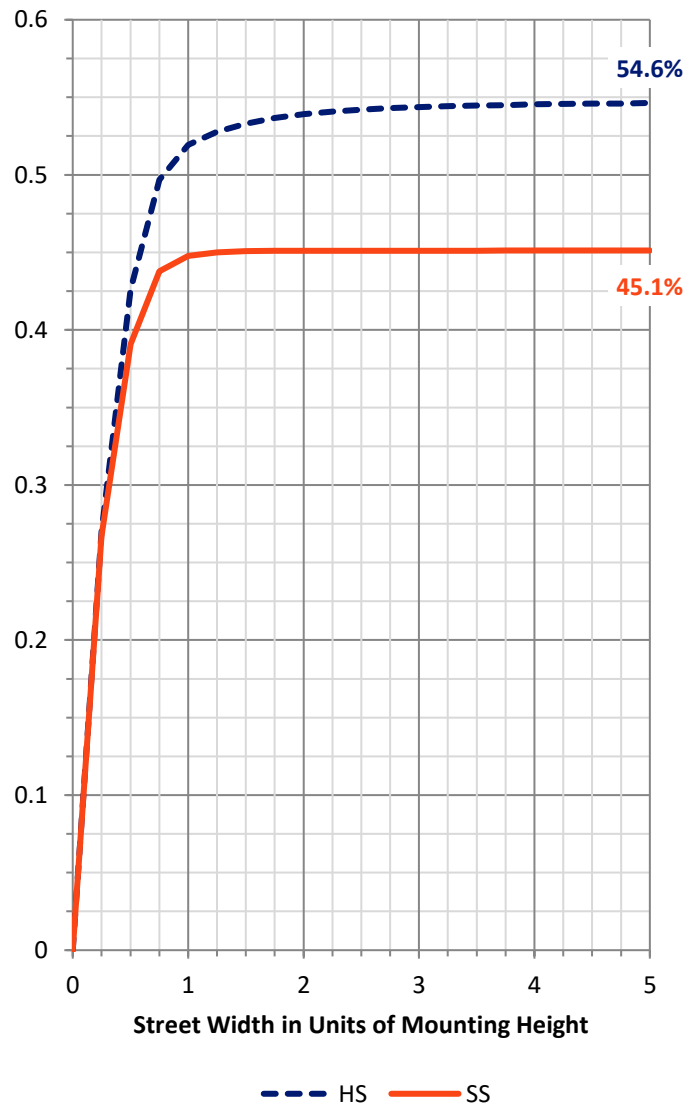
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16321.3	0.0	16321.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13252.5	0.0	13252.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	29573.7	0.0	29573.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4264.0	14.4
10°-20°	9011.8	30.5
20°-30°	8133.7	27.5
30°-40°	5382.5	18.2
40°-50°	1612.4	5.5
50°-60°	646.8	2.2
60°-70°	334.9	1.1
70°-80°	145.4	0.5
80°-90°	42.3	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°	29573.7	100.0
0°-180°	29573.7	100.0

Coefficient of Utilization



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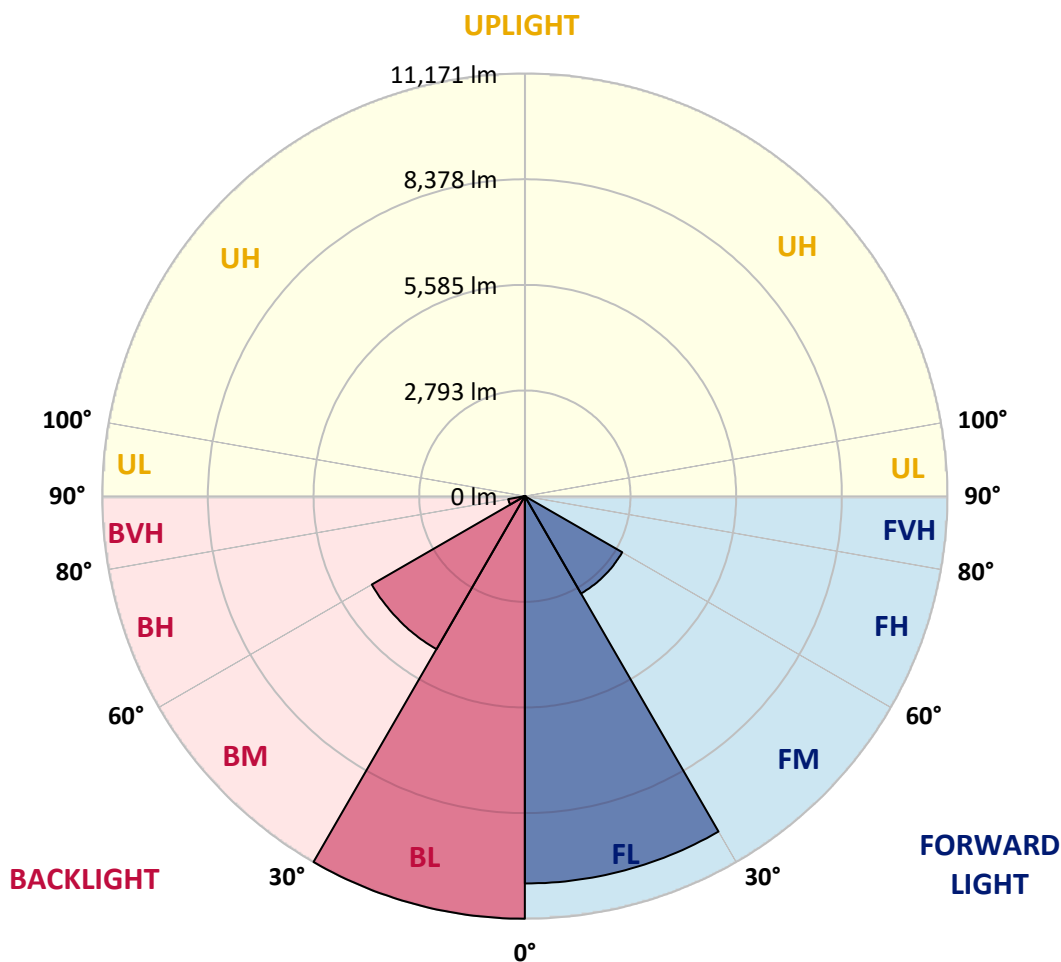
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10238.7	34.6			
FM	(30°-60°)	2970.9	10.0			
FH	(60°-80°)	36.8	0.1			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	11170.8	37.8	B5		
BM	(30°-60°)	4670.8	15.8	B3/5000		
BH	(60°-80°)	443.5	1.5	B1/500		G1/500
BVH	(80°-90°)	36.2	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°	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9
2.5°	47600.4	47685.0	47261.7	47406.8	47467.3	47485.4	47636.7	47612.5	47654.8	47431.0
5°	46971.3	46808.0	46493.5	46499.6	46481.4	46312.1	46656.8	46632.6	46560.0	46293.9
7.5°	44830.2	45066.1	44473.4	44461.3	44449.2	44243.5	44697.2	44418.9	44479.4	44098.4
10°	41697.2	41727.4	41201.2	41152.8	41195.2	40929.1	41455.3	41346.4	41461.3	41062.1
12.5°	37856.5	38025.9	37445.2	37360.5	37529.9	37154.9	37578.3	37632.7	37463.4	37408.9
15°	29691.3	30138.8	31239.6	32921.1	33356.5	33042.0	33380.7	33374.7	33447.3	33036.0
17.5°	22620.8	22663.1	22403.0	23207.4	27864.7	29376.7	29449.3	28874.7	28439.3	28288.0
20°	19747.8	19893.0	19657.1	19723.6	20467.6	24901.0	25070.3	24205.4	23461.5	23401.0
22.5°	17461.5	17552.3	17382.9	17437.3	17473.6	17993.8	20939.3	20177.2	19820.4	19548.2
25°	15526.1	15526.1	15435.3	15453.5	15417.2	14649.1	16161.1	17032.1	16826.5	16729.7
27.5°	13760.0	13784.1	13669.2	13735.8	13294.2	12054.3	11872.9	14443.4	14225.7	14050.3
30°	12084.6	12163.2	12054.3	12090.6	11128.9	10112.8	9592.7	12048.3	12320.4	12272.1
32.5°	9096.7	9453.5	10330.5	10366.8	9060.4	8280.2	8050.3	9671.3	10705.5	10614.8
35°	5637.0	5618.9	5655.2	7397.1	6949.5	6417.3	6502.0	7306.4	8473.7	8431.4
37.5°	4300.4	4294.3	4360.8	4185.4	4554.4	4868.9	4935.4	4935.4	6187.4	6193.5
40°	3260.1	3235.9	3229.8	2951.6	2473.8	3653.2	3544.3	3453.6	4300.4	4391.1
42.5°	2080.6	2153.2	2098.8	1796.4	1614.9	1995.9	2225.8	2153.2	2655.2	2721.7
45°	1161.3	1161.3	1112.9	943.5	937.5	1010.1	1270.1	1185.5	1360.9	1451.6
47.5°	562.5	550.4	604.8	743.9	774.2	750.0	907.2	943.5	1028.2	1112.9
50°	453.6	453.6	429.4	387.1	641.1	616.9	671.4	719.8	768.1	840.7
52.5°	381.0	381.0	350.8	326.6	368.9	471.8	477.8	568.5	562.5	665.3
55°	193.5	199.6	284.3	284.3	248.0	387.1	393.1	459.7	471.8	556.4
57.5°	18.1	24.2	36.3	175.4	193.5	211.7	296.4	338.7	393.1	429.4
60°	6.0	6.0	12.1	24.2	114.9	145.2	187.5	223.8	272.2	356.9
62.5°	0.0	0.0	6.0	12.1	24.2	90.7	102.8	114.9	163.3	223.8
65°	0.0	0.0	6.0	6.0	12.1	30.2	42.3	72.6	102.8	139.1
67.5°	0.0	0.0	6.0	6.0	12.1	18.1	24.2	36.3	48.4	90.7
70°	0.0	0.0	6.0	6.0	12.1	18.1	18.1	24.2	30.2	42.3
72.5°	0.0	0.0	6.0	6.0	12.1	24.2	18.1	18.1	24.2	30.2
75°	0.0	0.0	6.0	6.0	12.1	18.1	18.1	18.1	18.1	18.1
77.5°	0.0	0.0	6.0	6.0	12.1	18.1	18.1	18.1	12.1	12.1
80°	0.0	0.0	6.0	6.0	12.1	18.1	24.2	24.2	12.1	12.1
82.5°	0.0	0.0	6.0	12.1	12.1	30.2	36.3	30.2	12.1	6.0
85°	0.0	0.0	6.0	6.0	18.1	30.2	30.2	18.1	12.1	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	18.1	6.0	6.0
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°
47539.9	0°	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9	47539.9
47249.6	2.5°	47225.4	47594.3	47763.7	47588.3	47503.6	47382.6	47207.2	47086.3	47110.4
46148.8	5°	46045.9	46433.0	46566.1	46414.9	46287.9	46221.3	46191.1	46251.6	46408.8
43935.1	7.5°	43923.0	44171.0	44316.1	44243.5	44068.1	44267.7	44322.2	44285.9	44515.7
40941.1	10°	40953.2	41225.4	41092.4	41122.6	40917.0	41019.8	40989.5	41122.6	41352.4
37366.6	12.5°	37124.7	37384.7	37281.9	37263.8	37046.0	37239.6	37118.6	37263.8	37566.2
32866.6	15°	33102.5	33265.8	33199.3	33096.5	32902.9	32969.4	33344.4	33320.3	33453.3
28197.3	17.5°	28076.4	28862.6	29292.1	29382.8	29225.5	29358.6	29624.7	29558.2	29860.6
23274.0	20°	23231.6	24024.0	25082.4	25941.3	25959.4	25977.6	26146.9	26189.3	26449.3
19554.3	22.5°	19469.6	20032.1	21169.2	22306.2	23092.5	23255.8	23237.7	23298.2	23370.7
16596.6	25°	16554.3	16965.6	18005.9	18792.2	20171.2	20630.9	20763.9	20630.9	20673.2
13989.8	27.5°	14147.0	14776.1	15120.8	15961.5	17310.3	18374.8	18332.5	18253.9	18266.0
12175.3	30°	12169.2	12846.7	13354.7	13608.7	14624.9	16161.1	16318.4	16094.6	16100.7
10572.5	32.5°	10506.0	10717.6	11467.6	11673.3	12326.5	13723.7	14262.0	14092.6	14062.4
8455.6	35°	8703.5	8818.5	9163.2	9568.5	9955.6	11014.0	11903.1	11745.9	11824.5
6217.7	37.5°	6193.5	6665.3	6997.9	7330.6	7608.8	8274.1	9344.7	9199.5	9278.1
4403.2	40°	4366.9	4578.6	5153.2	5298.3	5709.6	6018.1	6925.3	6877.0	6973.7
2733.8	42.5°	2685.5	2836.7	3127.0	3266.1	3544.3	3719.7	4252.0	4312.5	4439.5
1512.1	45°	1524.2	1590.7	1790.3	1941.5	2147.2	2219.7	2407.2	2491.9	2564.5
1173.4	47.5°	1161.3	1233.9	1366.9	1500.0	1669.3	1729.8	1862.9	1989.9	2056.4
907.2	50°	949.6	1016.1	1155.2	1264.1	1433.5	1487.9	1596.8	1735.9	1820.5
689.5	52.5°	719.8	816.5	985.9	1100.8	1276.2	1342.7	1445.6	1584.7	1663.3
568.5	55°	592.7	665.3	816.5	973.8	1137.1	1227.8	1294.3	1463.7	1548.4
465.7	57.5°	508.1	562.5	659.3	846.8	985.9	1118.9	1173.4	1330.6	1415.3
368.9	60°	387.1	471.8	556.4	701.6	858.9	998.0	1058.5	1197.6	1264.1
266.1	62.5°	320.6	375.0	483.9	562.5	737.9	883.1	943.5	1070.6	1118.9
175.4	65°	223.8	302.4	405.2	453.6	616.9	756.0	840.7	937.5	985.9
102.8	67.5°	133.1	223.8	320.6	387.1	502.0	641.1	731.8	822.6	864.9
60.5	70°	84.7	175.4	254.0	326.6	393.1	526.2	635.1	713.7	695.6
36.3	72.5°	48.4	108.9	187.5	266.1	326.6	441.5	544.3	604.8	429.4
24.2	75°	30.2	78.6	157.3	217.7	266.1	350.8	447.6	459.7	266.1
12.1	77.5°	24.2	60.5	121.0	175.4	181.4	260.1	314.5	356.9	199.6
12.1	80°	12.1	48.4	102.8	145.2	114.9	181.4	241.9	278.2	157.3
6.0	82.5°	12.1	30.2	78.6	102.8	84.7	139.1	175.4	199.6	133.1
6.0	85°	6.0	24.2	42.3	60.5	60.5	90.7	78.6	96.8	84.7
6.0	87.5°	6.0	12.1	24.2	30.2	24.2	36.3	42.3	42.3	36.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
47539.9
47437.1
46735.4
44745.5
41443.2
37620.6
33483.6
29812.2
26394.9
23237.7
20606.7
18284.1
16106.7
14134.9
11897.1
9344.7
7010.0
4584.6
2558.4
2086.7
1856.8
1717.7
1572.6
1451.6
1276.2
1125.0
985.9
858.9
641.1
381.0
248.0
199.6
163.3
145.2
84.7
30.2
0.0

(END OF REPORT)