

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: P636504

Luminaire Tested: **IFLD-L-SA8D-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636504
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30630.5 lumens
Efficiency: N/A
Efficacy: 62.7 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): 488.3
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



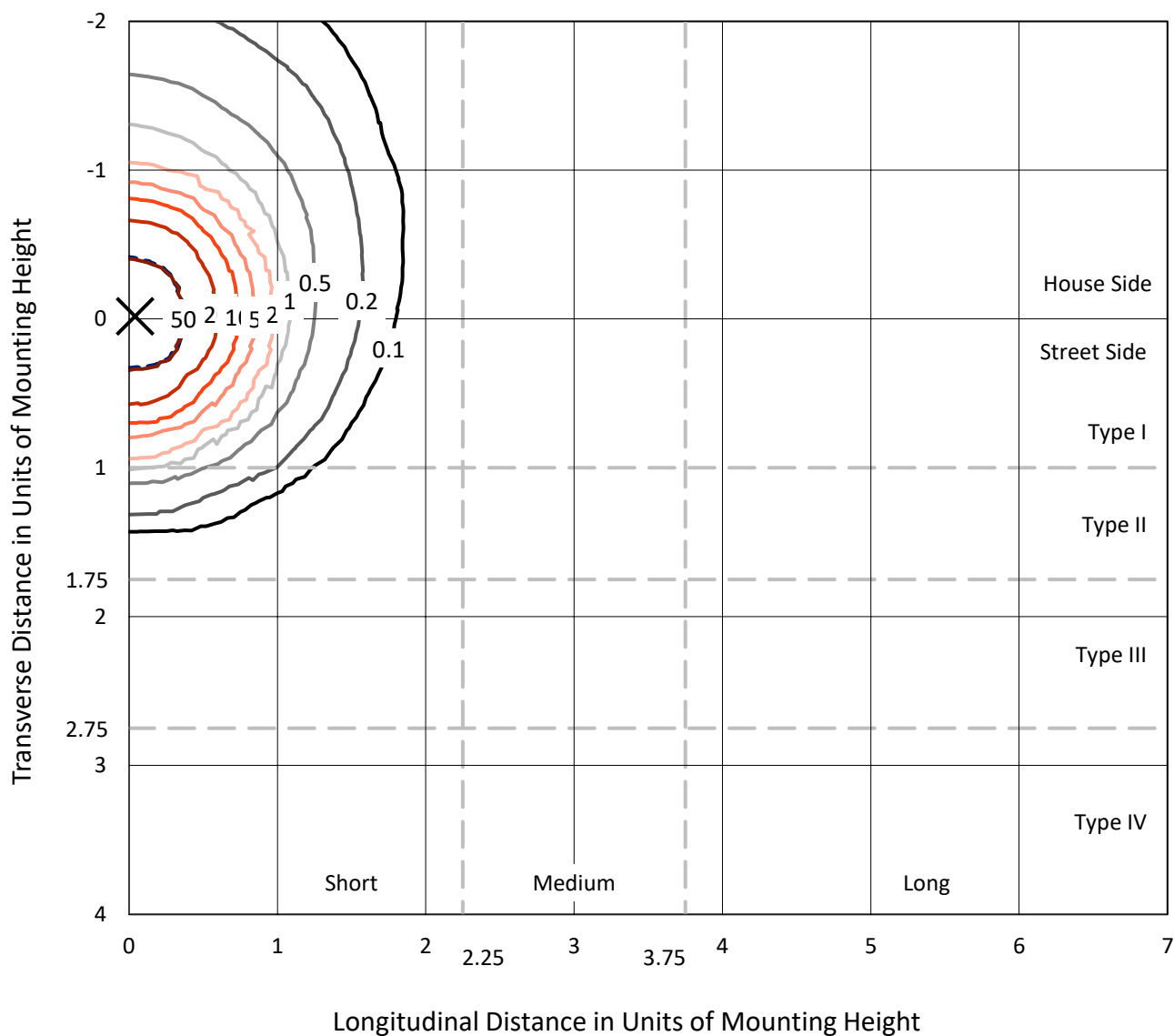
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

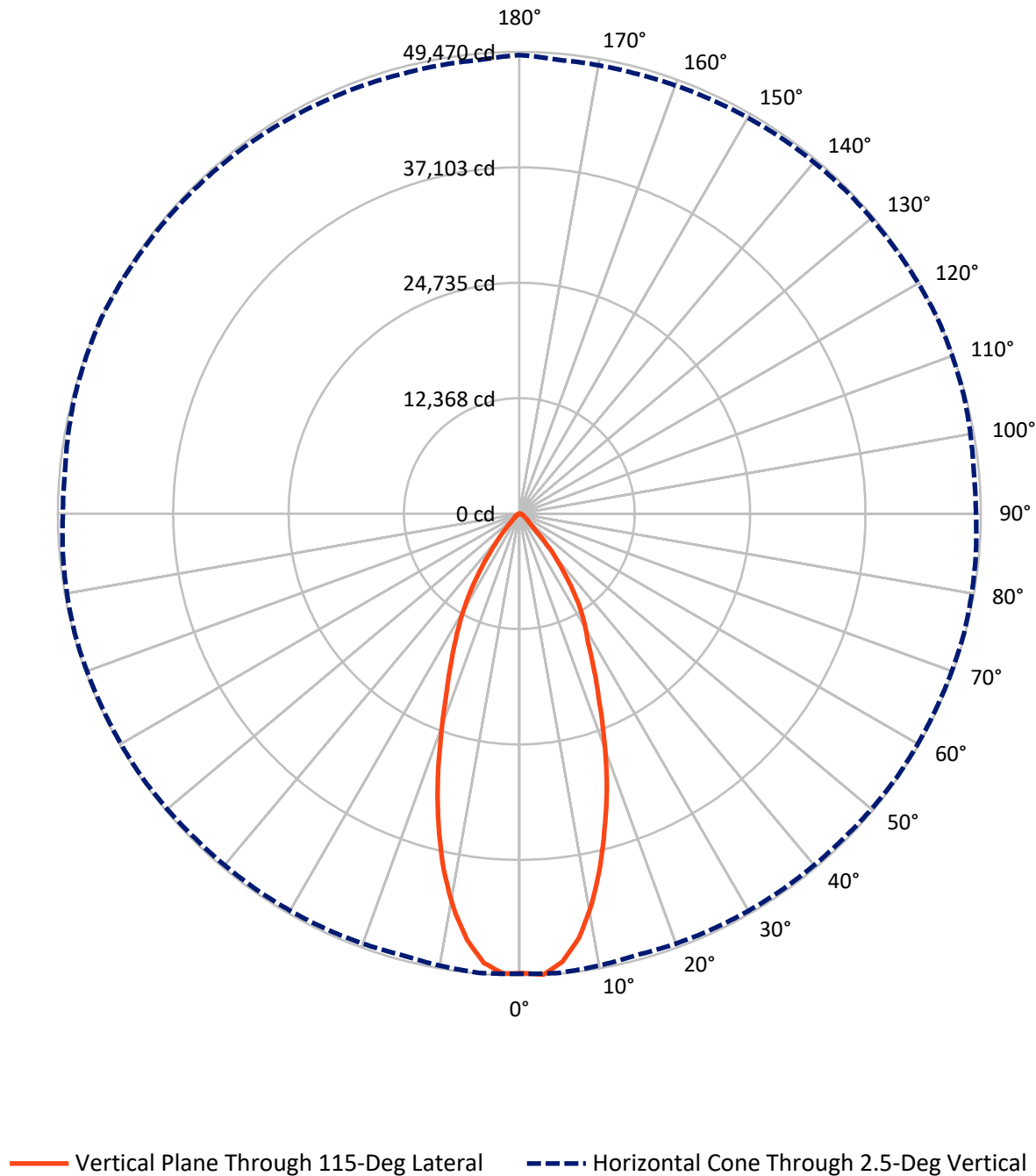


Based on 20 foot mounting height. Maximum calculated value = 123.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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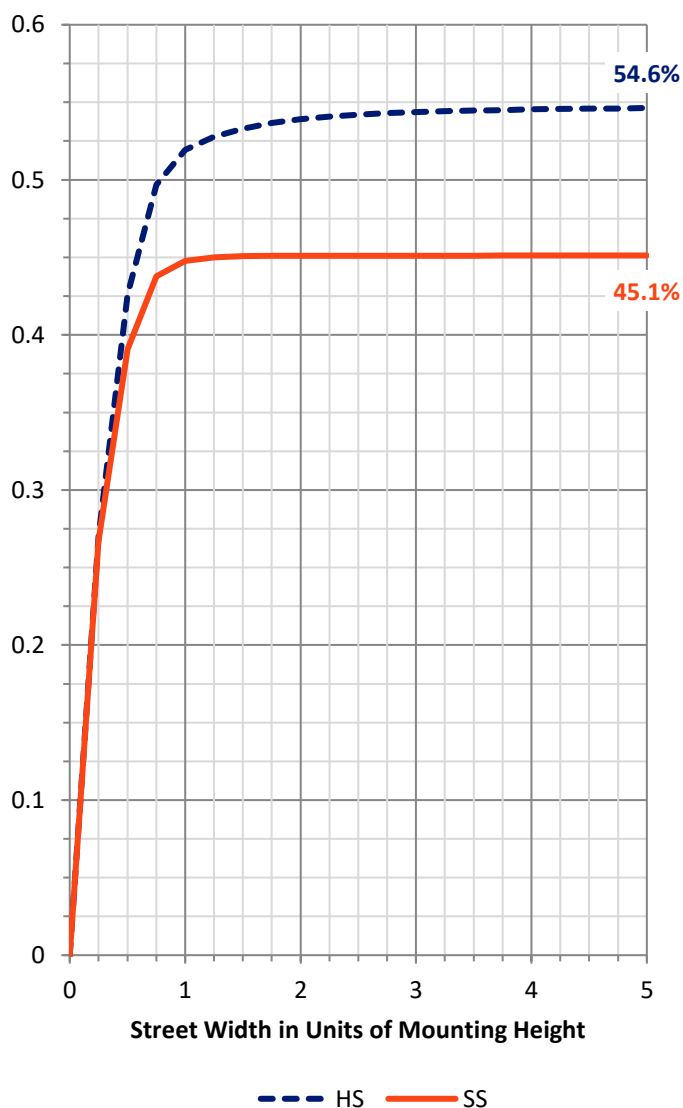
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16904.5	0.0	16904.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13726.1	0.0	13726.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	30630.5	0.0	30630.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4416.3	14.4
10°-20°	9333.8	30.5
20°-30°	8424.3	27.5
30°-40°	5574.9	18.2
40°-50°	1670.0	5.5
50°-60°	669.9	2.2
60°-70°	346.9	1.1
70°-80°	150.6	0.5
80°-90°	43.8	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°	30630.5	100.0
0°-180°	30630.5	100.0

Coefficient of Utilization



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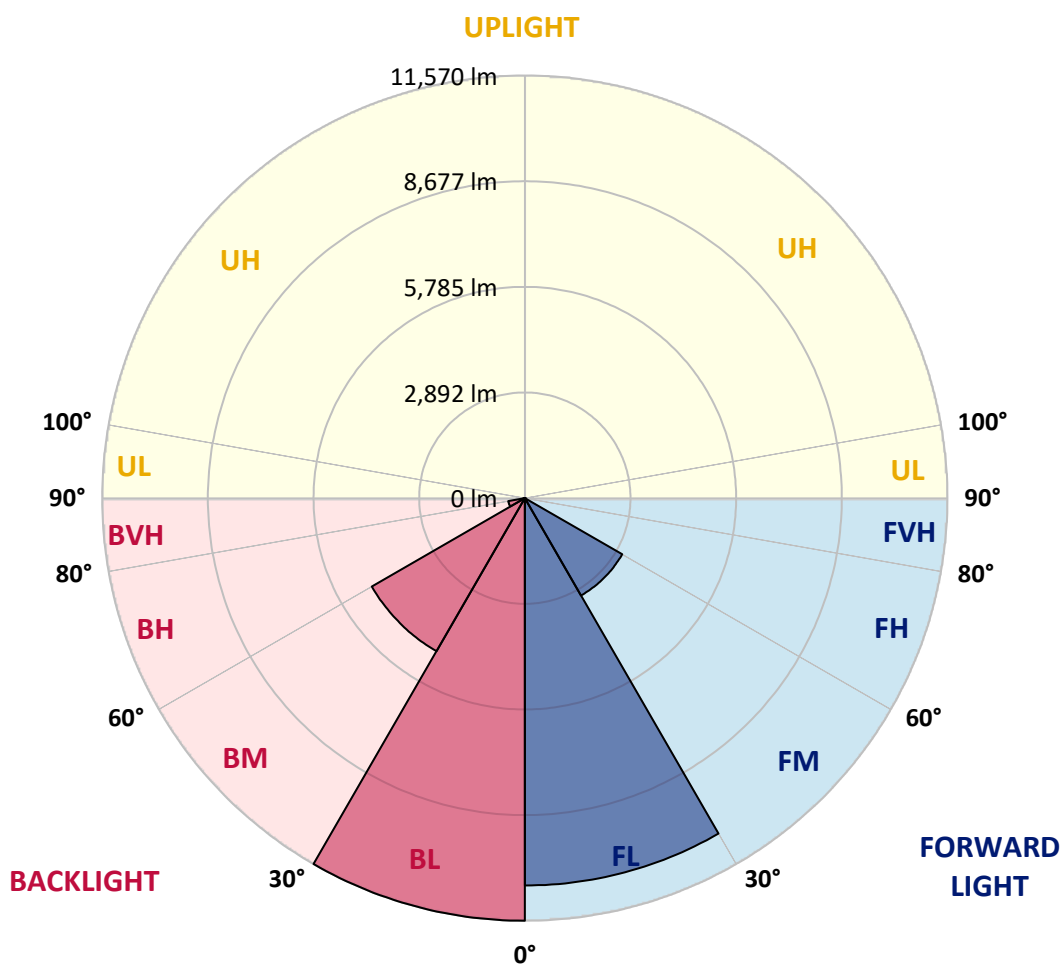
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10604.5	34.6			
FM	(30°-60°)	3077.1	10.0			
FH	(60°-80°)	38.1	0.1			G0/660
FVH	(80°-90°)	6.3	0.0			G0/10
BL	(0°-30°)	11569.9	37.8	B5		
BM	(30°-60°)	4837.7	15.8	B3/5000		
BH	(60°-80°)	459.4	1.5	B1/500		G1/500
BVH	(80°-90°)	37.5	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°	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6
2.5°	49301.2	49388.9	48950.4	49100.7	49163.4	49182.2	49338.8	49313.7	49357.6	49125.8
5°	48649.7	48480.6	48154.8	48161.1	48142.3	47966.9	48324.0	48298.9	48223.7	47948.1
7.5°	46432.1	46676.4	46062.5	46050.0	46037.4	45824.4	46294.3	46006.1	46068.8	45674.1
10°	43187.1	43218.4	42673.4	42623.3	42667.2	42391.5	42936.5	42823.8	42942.8	42529.3
12.5°	39209.2	39384.6	38783.2	38695.5	38870.9	38482.5	38921.0	38977.4	38802.0	38745.6
15°	30752.2	31215.7	32355.9	34097.4	34548.4	34222.7	34573.5	34567.2	34642.4	34216.4
17.5°	23429.0	23472.9	23203.5	24036.7	28860.3	30426.4	30501.6	29906.5	29455.4	29298.8
20°	20453.4	20603.8	20359.5	20428.4	21198.9	25790.7	25966.1	25070.3	24299.8	24237.2
22.5°	18085.5	18179.4	18004.0	18060.4	18098.0	18636.7	21687.5	20898.2	20528.6	20246.7
25°	16080.8	16080.8	15986.9	16005.7	15968.1	15172.5	16738.6	17640.7	17427.7	17327.5
27.5°	14251.6	14276.7	14157.7	14226.6	13769.3	12485.0	12297.1	14959.5	14734.0	14552.3
30°	12516.4	12597.8	12485.0	12522.6	11526.6	10474.2	9935.4	12478.8	12760.7	12710.6
32.5°	9421.7	9791.3	10699.7	10737.3	9384.1	8576.0	8338.0	10016.9	11088.1	10994.1
35°	5838.5	5819.7	5857.3	7661.4	7197.9	6646.6	6734.3	7567.5	8776.5	8732.6
37.5°	4454.0	4447.8	4516.7	4335.0	4717.1	5042.9	5111.8	5111.8	6408.5	6414.8
40°	3376.5	3351.5	3345.2	3057.1	2562.2	3783.7	3671.0	3577.0	4454.0	4548.0
42.5°	2155.0	2230.1	2173.8	1860.5	1672.6	2067.3	2305.3	2230.1	2750.1	2819.0
45°	1202.8	1202.8	1152.7	977.3	971.0	1046.2	1315.5	1227.8	1409.5	1503.5
47.5°	582.6	570.1	626.4	770.5	801.8	776.8	939.7	977.3	1065.0	1152.7
50°	469.8	469.8	444.8	400.9	664.0	639.0	695.4	745.5	795.6	870.8
52.5°	394.7	394.7	363.3	338.3	382.1	488.6	494.9	588.9	582.6	689.1
55°	200.5	206.7	294.4	294.4	256.8	400.9	407.2	476.1	488.6	576.3
57.5°	18.8	25.1	37.6	181.7	200.5	219.3	307.0	350.8	407.2	444.8
60°	6.3	6.3	12.5	25.1	119.0	150.3	194.2	231.8	281.9	369.6
62.5°	0.0	0.0	6.3	12.5	25.1	94.0	106.5	119.0	169.1	231.8
65°	0.0	0.0	6.3	6.3	12.5	31.3	43.9	75.2	106.5	144.1
67.5°	0.0	0.0	6.3	6.3	12.5	18.8	25.1	37.6	50.1	94.0
70°	0.0	0.0	6.3	6.3	12.5	18.8	18.8	25.1	31.3	43.9
72.5°	0.0	0.0	6.3	6.3	12.5	25.1	18.8	18.8	25.1	31.3
75°	0.0	0.0	6.3	6.3	12.5	18.8	18.8	18.8	18.8	18.8
77.5°	0.0	0.0	6.3	6.3	12.5	18.8	18.8	18.8	12.5	12.5
80°	0.0	0.0	6.3	6.3	12.5	18.8	25.1	25.1	12.5	12.5
82.5°	0.0	0.0	6.3	12.5	12.5	31.3	37.6	31.3	12.5	6.3
85°	0.0	0.0	6.3	6.3	18.8	31.3	31.3	18.8	12.5	6.3
87.5°	0.0	0.0	0.0	6.3	6.3	12.5	18.8	18.8	6.3	6.3
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°
49238.6	0°	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6	49238.6
48937.9	2.5°	48912.8	49294.9	49470.3	49288.7	49201.0	49075.7	48894.0	48768.7	48793.8
47797.7	5°	47691.2	48092.2	48230.0	48073.4	47941.8	47872.9	47841.6	47904.2	48067.1
45505.0	7.5°	45492.4	45749.3	45899.6	45824.4	45642.8	45849.5	45905.9	45868.3	46106.3
42404.1	10°	42416.6	42698.5	42560.7	42592.0	42379.0	42485.5	42454.2	42592.0	42830.0
38701.8	12.5°	38451.2	38720.6	38614.1	38595.3	38369.7	38570.2	38444.9	38595.3	38908.5
34041.0	15°	34285.3	34454.5	34385.6	34279.1	34078.6	34147.5	34535.9	34510.8	34648.7
29204.9	17.5°	29079.6	29893.9	30338.7	30432.7	30269.8	30407.6	30683.3	30614.4	30927.6
24105.6	20°	24061.7	24882.4	25978.7	26868.2	26887.0	26905.8	27081.2	27125.1	27394.4
20253.0	22.5°	20165.3	20747.9	21925.6	23103.3	23917.7	24086.8	24068.0	24130.7	24205.8
17189.6	25°	17145.8	17571.8	18649.3	19463.6	20891.9	21368.0	21505.9	21368.0	21411.9
14489.7	27.5°	14652.5	15304.0	15661.1	16531.9	17928.9	19031.4	18987.5	18906.1	18918.6
12610.3	30°	12604.1	13305.7	13831.9	14095.0	15147.4	16738.6	16901.5	16669.7	16676.0
10950.3	32.5°	10881.3	11100.6	11877.4	12090.4	12766.9	14214.0	14771.6	14596.2	14564.8
8757.7	35°	9014.5	9133.6	9490.6	9910.4	10311.3	11407.6	12328.4	12165.6	12247.0
6439.9	37.5°	6414.8	6903.4	7248.0	7592.5	7880.7	8569.8	9678.6	9528.2	9609.7
4560.5	40°	4522.9	4742.2	5337.3	5487.7	5913.6	6233.1	7172.8	7122.7	7222.9
2831.5	42.5°	2781.4	2938.0	3238.7	3382.8	3671.0	3852.6	4403.9	4466.6	4598.1
1566.1	45°	1578.6	1647.5	1854.3	2010.9	2223.9	2299.1	2493.3	2581.0	2656.1
1215.3	47.5°	1202.8	1277.9	1415.8	1553.6	1729.0	1791.6	1929.5	2061.0	2129.9
939.7	50°	983.5	1052.4	1196.5	1309.3	1484.7	1541.1	1653.8	1797.9	1885.6
714.1	52.5°	745.5	845.7	1021.1	1140.1	1321.8	1390.7	1497.2	1641.3	1722.7
588.9	55°	613.9	689.1	845.7	1008.6	1177.7	1271.7	1340.6	1516.0	1603.7
482.4	57.5°	526.2	582.6	682.8	877.0	1021.1	1158.9	1215.3	1378.2	1465.9
382.1	60°	400.9	488.6	576.3	726.7	889.6	1033.6	1096.3	1240.4	1309.3
275.6	62.5°	332.0	388.4	501.2	582.6	764.3	914.6	977.3	1108.8	1158.9
181.7	65°	231.8	313.2	419.7	469.8	639.0	783.1	870.8	971.0	1021.1
106.5	67.5°	137.8	231.8	332.0	400.9	519.9	664.0	758.0	852.0	895.8
62.6	70°	87.7	181.7	263.1	338.3	407.2	545.0	657.8	739.2	720.4
37.6	72.5°	50.1	112.8	194.2	275.6	338.3	457.3	563.8	626.4	444.8
25.1	75°	31.3	81.4	162.9	225.5	275.6	363.3	463.6	476.1	275.6
12.5	77.5°	25.1	62.6	125.3	181.7	187.9	269.4	325.8	369.6	206.7
12.5	80°	12.5	50.1	106.5	150.3	119.0	187.9	250.6	288.2	162.9
6.3	82.5°	12.5	31.3	81.4	106.5	87.7	144.1	181.7	206.7	137.8
6.3	85°	6.3	25.1	43.9	62.6	62.6	94.0	81.4	100.2	87.7
6.3	87.5°	6.3	12.5	25.1	31.3	25.1	37.6	43.9	43.9	37.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
49238.6
49132.1
48405.4
46344.4
42924.0
38964.9
34680.0
30877.5
27338.1
24068.0
21343.0
18937.4
16682.2
14640.0
12322.2
9678.6
7260.5
4748.5
2649.9
2161.2
1923.2
1779.1
1628.8
1503.5
1321.8
1165.2
1021.1
889.6
664.0
394.7
256.8
206.7
169.1
150.3
87.7
31.3
0.0

(END OF REPORT)