

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: P636475

Luminaire Tested: **IFLD-L-SA8D-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29523.4 lumens
Efficiency: N/A
Efficacy: 60.5 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): 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



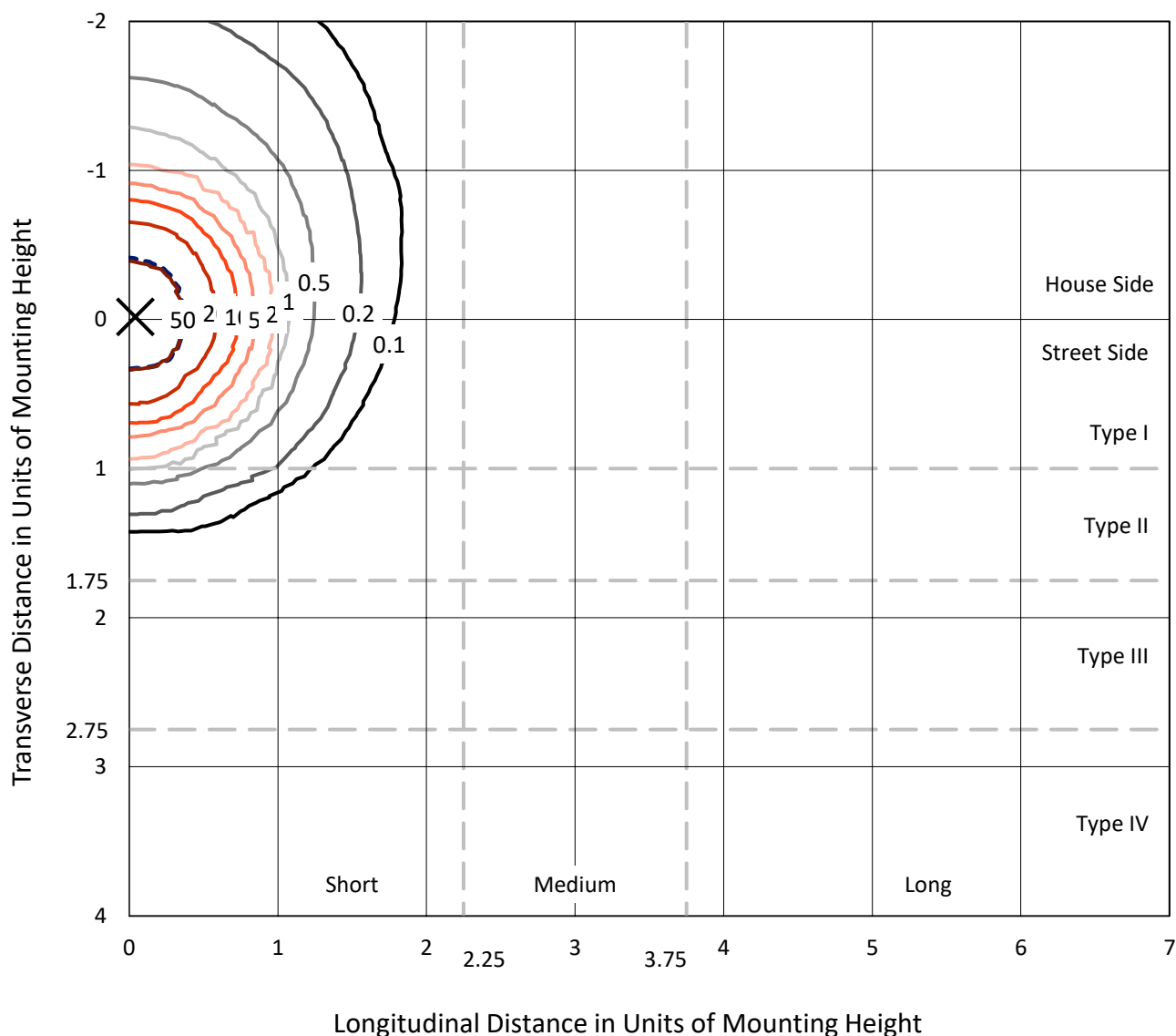
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

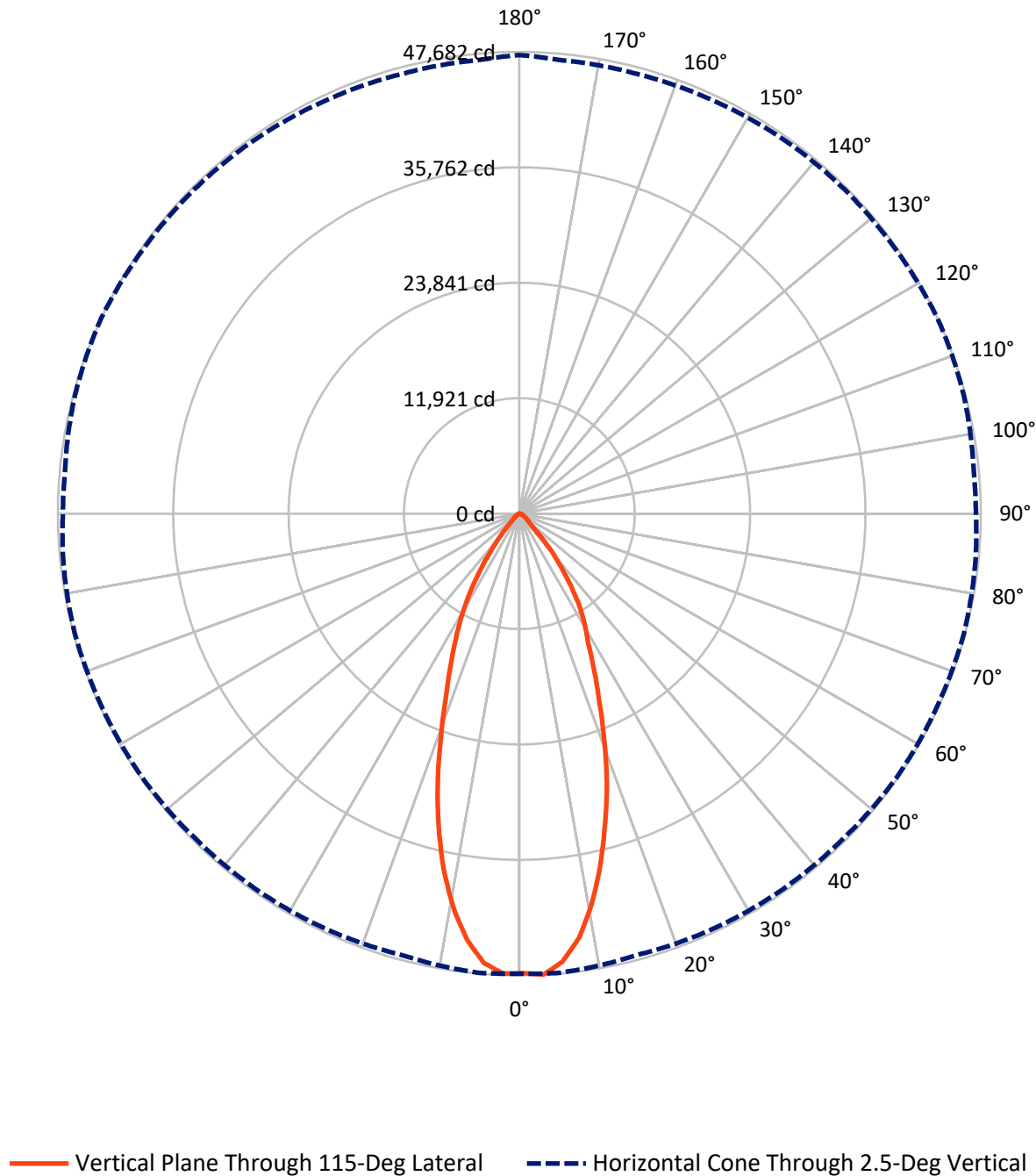


Based on 20 foot mounting height. Maximum calculated value = 118.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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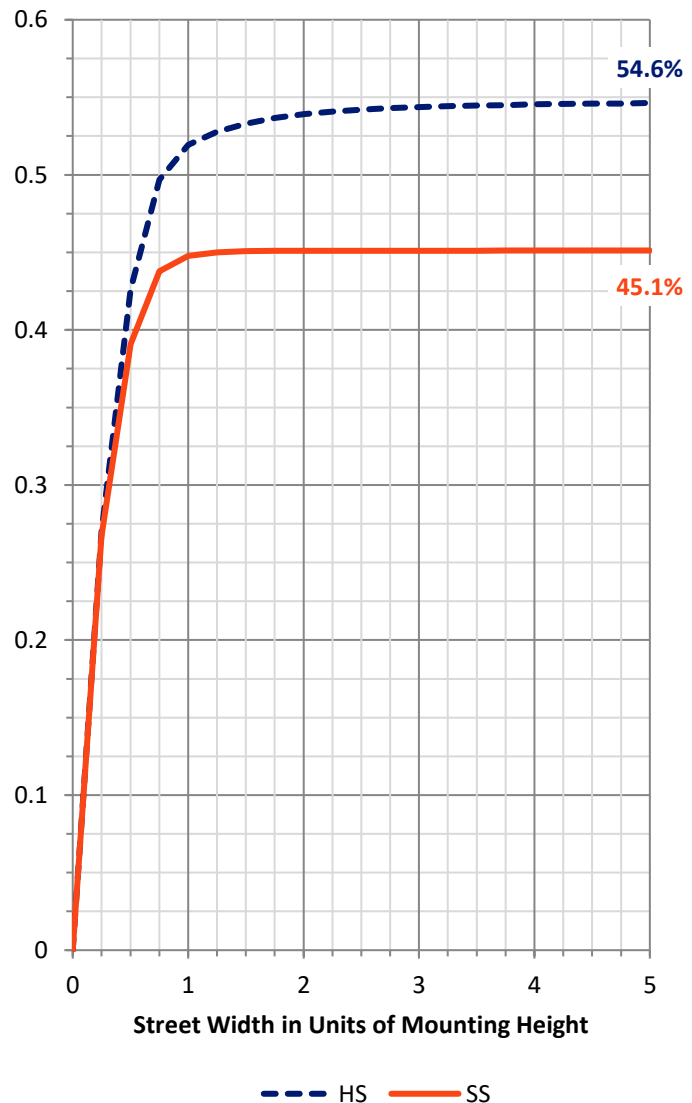
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16293.5	0.0	16293.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13229.9	0.0	13229.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	29523.4	0.0	29523.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4256.7	14.4
10°-20°	8996.4	30.5
20°-30°	8119.8	27.5
30°-40°	5373.4	18.2
40°-50°	1609.6	5.5
50°-60°	645.7	2.2
60°-70°	334.4	1.1
70°-80°	145.2	0.5
80°-90°	42.2	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°	29523.4	100.0
0°-180°	29523.4	100.0

Coefficient of Utilization



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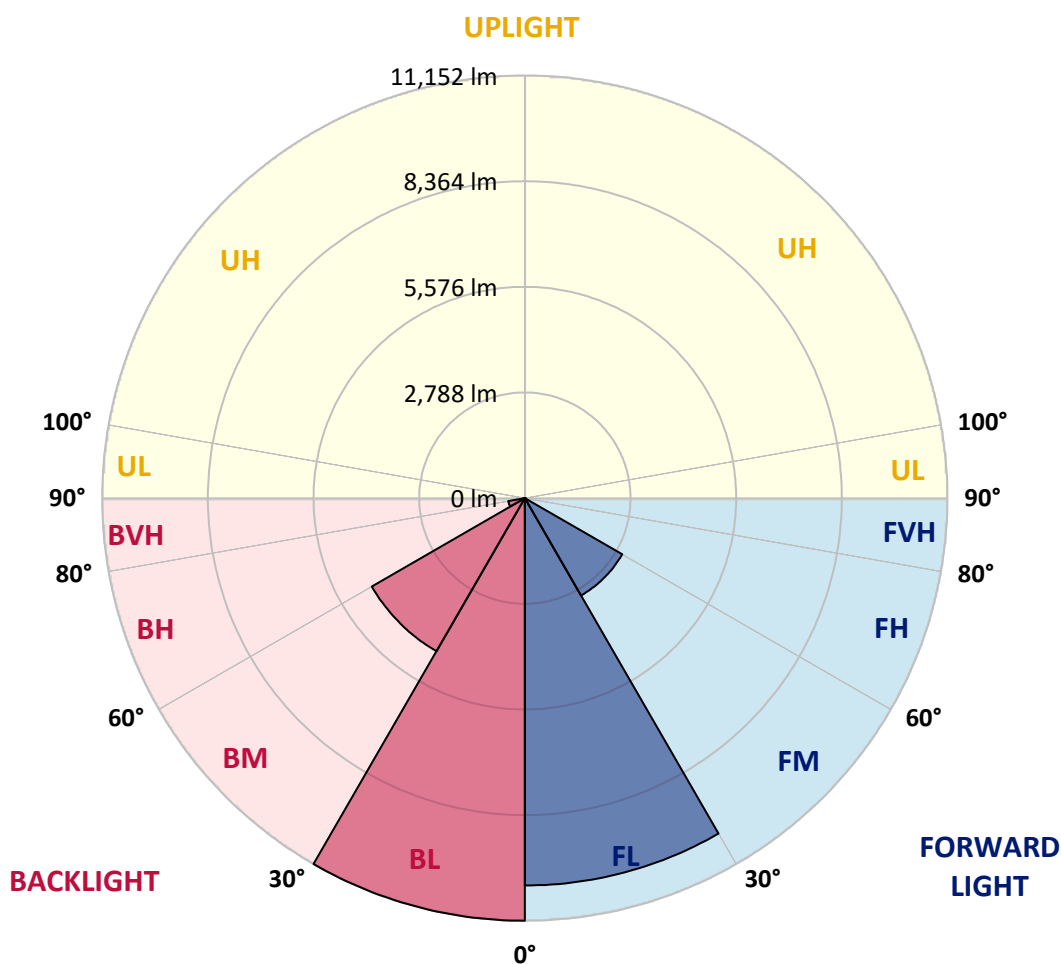
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10221.2	34.6			
FM	(30°-60°)	2965.9	10.0			
FH	(60°-80°)	36.7	0.1			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	11151.7	37.8	B5		
BM	(30°-60°)	4662.8	15.8	B3/5000		
BH	(60°-80°)	442.8	1.5	B1/500		G1/500
BVH	(80°-90°)	36.1	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°	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9
2.5°	47519.2	47603.8	47181.1	47326.0	47386.4	47404.5	47555.5	47531.3	47573.6	47350.2
5°	46891.3	46728.3	46414.3	46420.3	46402.2	46233.1	46577.3	46553.2	46480.7	46215.0
7.5°	44753.8	44989.3	44397.6	44385.5	44373.4	44168.1	44621.0	44343.2	44403.6	44023.2
10°	41626.1	41656.3	41131.0	41082.7	41125.0	40859.3	41384.6	41275.9	41390.6	40992.1
12.5°	37792.0	37961.0	37381.4	37296.9	37465.9	37091.6	37514.2	37568.6	37399.5	37345.2
15°	29640.7	30087.5	31186.4	32865.0	33299.7	32985.7	33323.8	33317.8	33390.3	32979.7
17.5°	22582.2	22624.5	22364.8	23167.9	27817.2	29326.7	29399.1	28825.5	28390.8	28239.8
20°	19714.1	19859.1	19623.6	19690.0	20432.7	24858.5	25027.6	24164.2	23421.5	23361.1
22.5°	17431.8	17522.3	17353.3	17407.6	17443.8	17963.1	20903.6	20142.8	19786.6	19514.9
25°	15499.6	15499.6	15409.0	15427.1	15390.9	14624.1	16133.6	17003.1	16797.8	16701.2
27.5°	13736.5	13760.7	13645.9	13712.3	13271.6	12033.8	11852.6	14418.8	14201.4	14026.3
30°	12064.0	12142.5	12033.8	12070.0	11110.0	10095.6	9576.3	12027.7	12299.5	12251.1
32.5°	9081.2	9437.4	10312.9	10349.2	9045.0	8266.1	8036.6	9654.8	10687.3	10596.7
35°	5627.4	5609.3	5645.6	7384.5	6937.7	6406.3	6490.9	7293.9	8459.3	8417.0
37.5°	4293.0	4287.0	4353.4	4178.3	4546.6	4860.6	4927.0	4927.0	6176.9	6182.9
40°	3254.5	3230.3	3224.3	2946.6	2469.6	3647.0	3538.3	3447.7	4293.0	4383.6
42.5°	2077.1	2149.5	2095.2	1793.3	1612.2	1992.5	2222.0	2149.5	2650.7	2717.1
45°	1159.3	1159.3	1111.0	941.9	935.9	1008.3	1268.0	1183.5	1358.6	1449.1
47.5°	561.5	549.5	603.8	742.7	772.9	748.7	905.7	941.9	1026.5	1111.0
50°	452.9	452.9	428.7	386.4	640.0	615.9	670.2	718.5	766.8	839.3
52.5°	380.4	380.4	350.2	326.1	368.3	471.0	477.0	567.6	561.5	664.2
55°	193.2	199.3	283.8	283.8	247.6	386.4	392.5	458.9	471.0	555.5
57.5°	18.1	24.2	36.2	175.1	193.2	211.3	295.9	338.1	392.5	428.7
60°	6.0	6.0	12.1	24.2	114.7	144.9	187.2	223.4	271.7	356.2
62.5°	0.0	0.0	6.0	12.1	24.2	90.6	102.6	114.7	163.0	223.4
65°	0.0	0.0	6.0	6.0	12.1	30.2	42.3	72.5	102.6	138.9
67.5°	0.0	0.0	6.0	6.0	12.1	18.1	24.2	36.2	48.3	90.6
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	36.2	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°
47458.9	0°	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9	47458.9
47169.0	2.5°	47144.9	47513.2	47682.3	47507.2	47422.6	47301.9	47126.8	47006.0	47030.2
46070.1	5°	45967.5	46353.9	46486.7	46335.8	46209.0	46142.6	46112.4	46172.8	46329.7
43860.2	7.5°	43848.1	44095.7	44240.6	44168.1	43993.0	44192.3	44246.6	44210.4	44439.8
40871.4	10°	40883.5	41155.2	41022.3	41052.5	40847.2	40949.9	40919.7	41052.5	41282.0
37302.9	12.5°	37061.4	37321.0	37218.4	37200.3	36982.9	37176.1	37055.3	37200.3	37502.2
32810.6	15°	33046.1	33209.1	33142.7	33040.1	32846.8	32913.3	33287.6	33263.5	33396.3
28149.3	17.5°	28028.5	28813.4	29242.1	29332.7	29175.7	29308.6	29574.2	29507.8	29809.7
23234.3	20°	23192.0	23983.0	25039.7	25897.1	25915.2	25933.3	26102.4	26144.6	26404.3
19520.9	22.5°	19436.4	19997.9	21133.1	22268.2	23053.2	23216.2	23198.1	23258.5	23330.9
16568.3	25°	16526.1	16936.7	17975.2	18760.1	20136.8	20595.7	20728.5	20595.7	20638.0
13965.9	27.5°	14122.9	14750.9	15095.1	15934.3	17280.8	18343.5	18301.2	18222.8	18234.8
12154.5	30°	12148.5	12824.8	13332.0	13585.6	14599.9	16133.6	16290.6	16067.2	16073.2
10554.5	32.5°	10488.0	10699.4	11448.1	11653.4	12305.5	13700.3	14237.7	14068.6	14038.4
8441.2	35°	8688.7	8803.4	9147.6	9552.2	9938.6	10995.2	11882.8	11725.8	11804.3
6207.1	37.5°	6182.9	6653.9	6986.0	7318.1	7595.8	8260.0	9328.7	9183.8	9262.3
4395.7	40°	4359.5	4570.8	5144.4	5289.3	5699.9	6007.8	6913.5	6865.2	6961.8
2729.2	42.5°	2680.9	2831.8	3121.7	3260.5	3538.3	3713.4	4244.7	4305.1	4431.9
1509.5	45°	1521.6	1588.0	1787.3	1938.2	2143.5	2216.0	2403.1	2487.7	2560.1
1171.4	47.5°	1159.3	1231.8	1364.6	1497.4	1666.5	1726.9	1859.7	1986.5	2052.9
905.7	50°	948.0	1014.4	1153.3	1261.9	1431.0	1485.4	1594.0	1732.9	1817.4
688.3	52.5°	718.5	815.1	984.2	1098.9	1274.0	1340.4	1443.1	1582.0	1660.5
567.6	55°	591.7	664.2	815.1	972.1	1135.1	1225.7	1292.1	1461.2	1545.7
464.9	57.5°	507.2	561.5	658.1	845.3	984.2	1117.0	1171.4	1328.4	1412.9
368.3	60°	386.4	471.0	555.5	700.4	857.4	996.3	1056.7	1195.5	1261.9
265.7	62.5°	320.0	374.4	483.0	561.5	736.6	881.6	941.9	1068.7	1117.0
175.1	65°	223.4	301.9	404.5	452.9	615.9	754.8	839.3	935.9	984.2
102.6	67.5°	132.8	223.4	320.0	386.4	501.2	640.0	730.6	821.2	863.4
60.4	70°	84.5	175.1	253.6	326.1	392.5	525.3	634.0	712.5	694.4
36.2	72.5°	48.3	108.7	187.2	265.7	326.1	440.8	543.4	603.8	428.7
24.2	75°	30.2	78.5	157.0	217.4	265.7	350.2	446.8	458.9	265.7
12.1	77.5°	24.2	60.4	120.8	175.1	181.1	259.6	314.0	356.2	199.3
12.1	80°	12.1	48.3	102.6	144.9	114.7	181.1	241.5	277.7	157.0
6.0	82.5°	12.1	30.2	78.5	102.6	84.5	138.9	175.1	199.3	132.8
6.0	85°	6.0	24.2	42.3	60.4	60.4	90.6	78.5	96.6	84.5
6.0	87.5°	6.0	12.1	24.2	30.2	24.2	36.2	42.3	42.3	36.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
47458.9
47356.2
46655.8
44669.3
41372.5
37556.5
33426.5
29761.4
26349.9
23198.1
20571.5
18252.9
16079.3
14110.9
11876.8
9328.7
6998.1
4576.8
2554.1
2083.1
1853.7
1714.8
1569.9
1449.1
1274.0
1123.1
984.2
857.4
640.0
380.4
247.6
199.3
163.0
144.9
84.5
30.2
0.0

(END OF REPORT)