

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: P636963

Luminaire Tested: **IFLD-L-SA7D-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636963
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25978.9 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

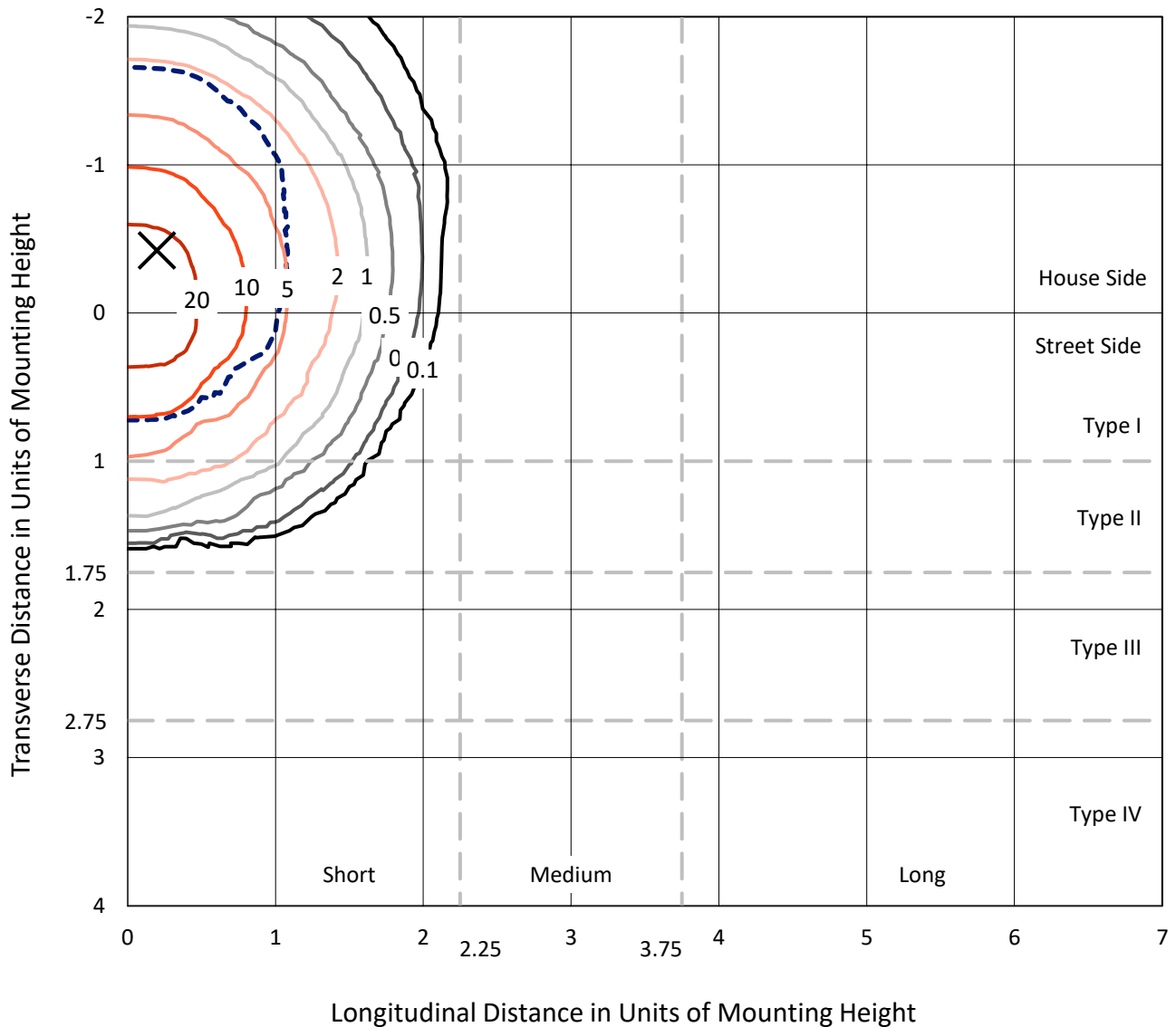
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

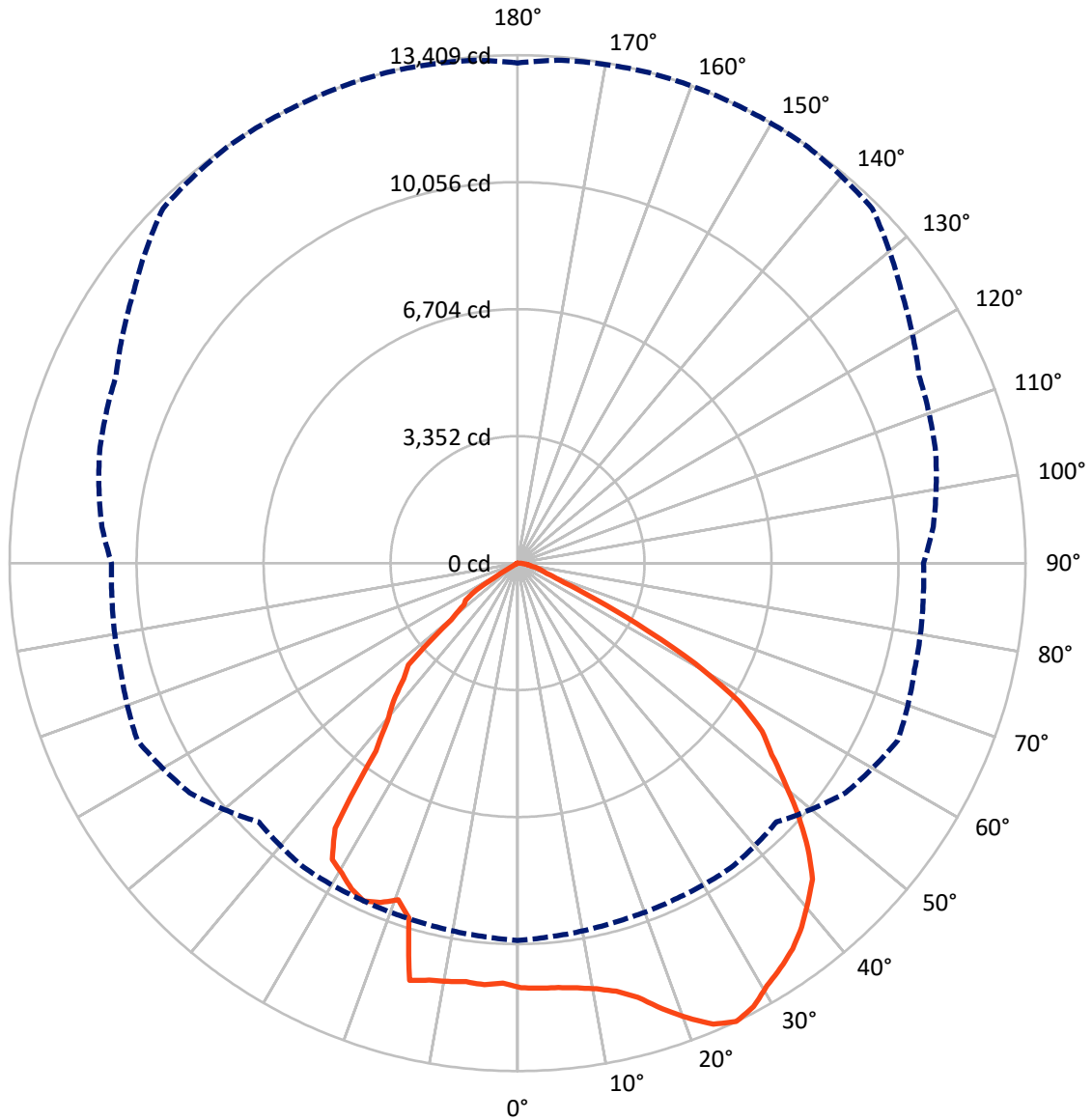
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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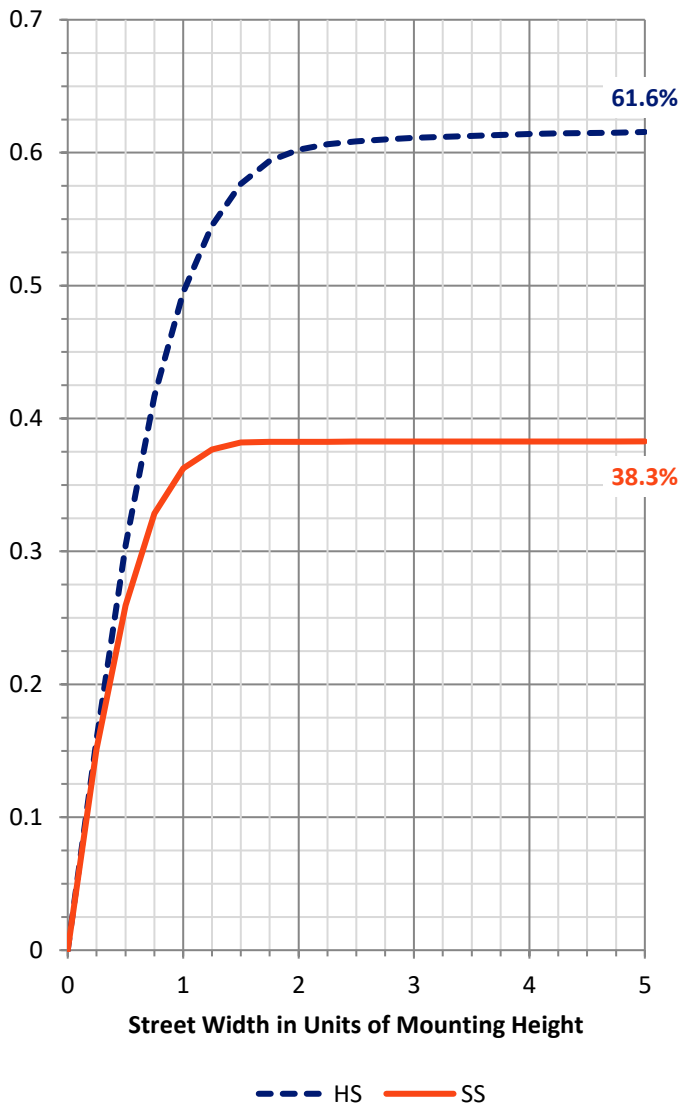
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16083.6	0.0	16083.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9895.3	0.0	9895.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	25978.9	0.0	25978.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.4	4.1
10°-20°	3283.7	12.6
20°-30°	5191.3	20.0
30°-40°	5864.0	22.6
40°-50°	5491.8	21.1
50°-60°	3786.2	14.6
60°-70°	1017.2	3.9
70°-80°	212.0	0.8
80°-90°	57.4	0.2
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°	25978.9	100.0
0°-180°	25978.9	100.0



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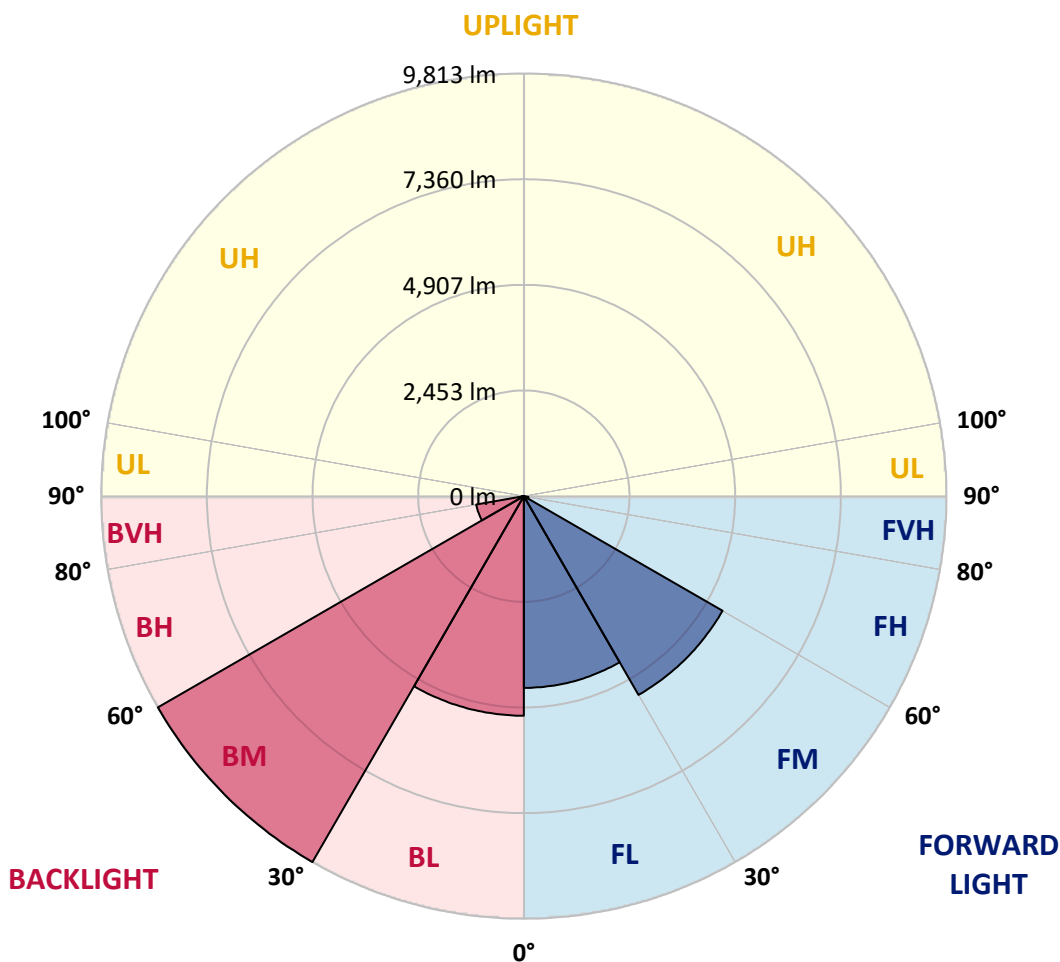
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4452.0	17.1			
FM (30°-60°)	5328.9	20.5			
FH (60°-80°)	106.8	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	5098.4	19.6	B5		
BM (30°-60°)	9813.1	37.8	B5		
BH (60°-80°)	1122.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4
2.5°	11259.1	11186.5	11117.8	11094.9	11190.3	11293.4	11228.5	11232.3	11209.4	11251.4
5°	11343.1	11243.8	11198.0	11163.6	11178.9	11285.8	11194.2	11228.5	11190.3	11240.0
7.5°	11312.5	11243.8	11198.0	11133.1	11182.7	11308.7	11220.9	11224.7	11205.6	11251.4
10°	11293.4	11243.8	11186.5	11194.2	11251.4	11358.3	11289.6	11327.8	11301.1	11327.8
12.5°	11339.2	11285.8	11255.2	11255.2	11304.9	11427.0	11392.7	11427.0	11415.6	11438.5
15°	10907.8	10957.4	11247.6	11377.4	11476.7	11598.9	11583.6	11617.9	11625.6	11659.9
17.5°	9201.2	9151.6	9128.7	9796.8	11572.1	11950.1	11938.7	11934.8	11896.7	11869.9
20°	9426.5	9407.4	9380.6	9430.3	9628.8	12133.4	12209.7	11740.1	11602.7	11591.2
22.5°	9785.3	9754.8	9655.5	9659.3	9720.4	10548.9	11831.7	11404.1	11358.3	11331.6
25°	9961.0	9899.9	9819.7	9796.8	9815.9	9663.2	10568.0	11075.8	10850.5	10747.5
27.5°	9651.7	9655.5	9590.6	9651.7	9579.2	8891.9	8506.3	10434.4	10426.8	10380.9
30°	9418.8	9407.4	9331.0	9407.4	8907.2	8139.8	7975.6	9731.9	9651.7	9590.6
32.5°	8704.9	8712.5	8933.9	9231.7	8410.9	7803.8	7307.5	8693.4	9453.2	9418.8
35°	6227.0	6242.3	7028.8	8498.7	7658.8	7135.7	7097.5	7513.7	9140.1	9155.4
37.5°	5994.1	5994.1	5975.1	6215.6	7067.0	6864.6	6941.0	6899.0	8372.7	8410.9
40°	5826.2	5791.8	5765.1	5387.1	4913.7	6673.7	6727.2	6536.3	7914.6	7922.2
42.5°	5623.8	5585.6	5593.3	4894.6	4398.2	6200.3	6051.4	5795.6	7151.0	7158.6
45°	5253.5	5318.4	5364.2	4283.7	4245.5	4428.8	5581.8	5421.5	6635.6	6776.8
47.5°	2672.5	2729.8	4188.3	3940.1	4027.9	3936.3	4715.1	4719.0	5520.7	5990.3
50°	2424.4	2409.1	2412.9	2298.4	3718.7	3184.1	3409.4	4325.7	4421.2	5093.1
52.5°	2260.2	2256.4	2023.5	1798.2	2336.6	2802.4	2474.0	3130.7	3287.2	4314.3
55°	1672.3	1794.4	1595.9	1691.3	1462.3	2244.9	2233.5	2825.3	2878.7	3459.0
57.5°	15.3	19.1	45.8	1286.6	1011.8	1122.5	1542.4	1928.1	2023.5	2695.5
60°	3.8	7.6	19.1	38.2	656.7	691.0	1030.8	1114.8	1256.1	1607.3
62.5°	0.0	0.0	7.6	19.1	34.4	282.5	328.3	358.9	553.6	820.9
65°	0.0	0.0	3.8	11.5	19.1	45.8	80.2	168.0	240.5	297.8
67.5°	0.0	0.0	3.8	7.6	15.3	22.9	45.8	64.9	103.1	175.6
70°	0.0	0.0	3.8	7.6	11.5	19.1	30.5	45.8	61.1	87.8
72.5°	0.0	0.0	3.8	7.6	7.6	22.9	22.9	34.4	45.8	57.3
75°	0.0	0.0	3.8	3.8	7.6	15.3	22.9	26.7	30.5	45.8
77.5°	0.0	0.0	3.8	7.6	11.5	15.3	19.1	30.5	26.7	26.7
80°	0.0	0.0	3.8	11.5	11.5	19.1	22.9	30.5	19.1	19.1
82.5°	0.0	0.0	3.8	15.3	11.5	38.2	38.2	42.0	15.3	15.3
85°	0.0	0.0	11.5	7.6	22.9	38.2	34.4	22.9	19.1	11.5
87.5°	0.0	0.0	3.8	3.8	7.6	11.5	26.7	22.9	7.6	7.6
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°
11209.4	0°	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4	11209.4
11140.7	2.5°	11293.4	11243.8	11346.9	11335.4	11285.8	11262.9	11236.2	11213.2	11045.3
11148.3	5°	11297.2	11220.9	11346.9	11324.0	11316.3	11278.1	11255.2	11289.6	11136.9
11178.9	7.5°	11297.2	11220.9	11358.3	11366.0	11354.5	11324.0	11320.1	11343.1	11217.1
11232.3	10°	11373.6	11343.1	11457.6	11469.0	11453.8	11446.1	11427.0	11411.8	11278.1
11415.6	12.5°	11534.0	11472.9	11602.7	11637.0	11625.6	11644.7	11598.9	11621.8	11484.3
11602.7	15°	11728.7	11732.5	11831.7	11908.1	11900.5	11961.6	11892.8	11953.9	11854.7
11816.5	17.5°	12026.5	12068.5	12209.7	12324.3	12366.3	12412.1	12366.3	12385.3	12244.1
11579.8	20°	11713.4	11869.9	12549.5	12759.5	12847.3	12889.3	12813.0	12835.9	12694.6
11289.6	22.5°	11430.9	11633.2	12236.4	12893.1	13164.2	13248.2	13221.5	13217.7	13164.2
10716.9	25°	11014.7	11423.2	11694.3	12389.2	13240.6	13393.3	13408.6	13404.7	13324.6
10365.7	27.5°	10503.1	10594.7	11297.2	11721.0	12706.1	13286.4	13263.5	13152.8	13045.8
9636.4	30°	9850.2	10266.4	10583.3	11259.1	12015.0	12958.0	12958.0	12874.0	12763.3
9376.8	32.5°	9518.1	10056.4	10350.4	10594.7	11240.0	12591.5	12744.2	12656.4	12568.6
9174.5	35°	9342.5	9422.6	10109.9	10331.3	10877.3	11885.2	12503.7	12415.9	12351.0
8636.1	37.5°	8956.9	9143.9	9464.6	10056.4	10224.4	11308.7	12183.0	12137.2	12060.8
7937.5	40°	8097.8	8598.0	9090.5	9651.7	9827.3	10568.0	11793.6	11812.7	11709.6
7193.0	42.5°	7590.0	7929.8	8701.1	9079.0	9552.4	10090.8	11415.6	11446.1	11373.6
6815.0	45°	6994.4	7372.4	7914.6	8601.8	9247.0	9434.1	10747.5	11068.2	11007.1
6062.9	47.5°	6448.5	6753.9	7418.2	8113.1	8827.0	8800.3	9980.1	10583.3	10499.3
5486.4	50°	5673.4	6207.9	6521.0	7158.6	8223.8	8296.4	9163.0	10014.4	9945.7
4661.7	52.5°	4783.9	5455.8	6055.2	6639.4	7612.9	7784.7	8403.3	9434.1	9388.3
3562.1	55°	4180.6	4669.3	5345.1	5814.7	6872.3	7330.4	7834.4	8880.5	8857.6
2928.3	57.5°	2974.2	3917.2	4474.6	5131.3	5688.7	6517.2	6891.4	7754.2	7540.4
1622.6	60°	2015.9	2458.7	3138.3	3844.7	4218.8	5047.3	5394.7	6085.8	6028.5
969.8	62.5°	1065.2	1473.7	1958.6	2313.7	2584.7	3390.3	3535.4	4279.9	4260.8
389.4	65°	469.6	622.3	1061.4	1244.6	1523.4	1897.5	2023.5	2290.8	2225.9
190.9	67.5°	244.3	370.3	599.4	736.9	927.8	1069.0	1172.1	1256.1	1309.5
126.0	70°	148.9	271.1	370.3	511.6	637.6	752.1	832.3	946.8	1015.6
64.9	72.5°	110.7	171.8	255.8	393.2	462.0	595.6	675.8	759.8	820.9
53.5	75°	61.1	114.5	206.2	309.3	370.3	484.9	557.4	614.7	633.8
30.5	77.5°	38.2	87.8	171.8	240.5	290.2	393.2	374.2	427.6	473.4
22.9	80°	26.7	64.9	133.6	198.5	202.4	252.0	297.8	343.6	374.2
15.3	82.5°	19.1	53.5	99.3	152.7	133.6	194.7	232.9	267.3	194.7
11.5	85°	15.3	38.2	49.6	91.6	76.4	137.4	118.4	114.5	76.4
7.6	87.5°	11.5	19.1	34.4	42.0	30.5	30.5	38.2	45.8	38.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11209.4
10930.7
11007.1
11072.0
11167.4
11362.1
11690.5
12121.9
12595.3
12992.4
13202.4
12961.9
12721.3
12496.1
12259.4
11984.5
11686.7
11366.0
11014.7
10560.4
9957.1
9418.8
8884.3
7517.5
6032.3
4264.6
2199.1
1309.5
1019.4
832.3
622.3
481.1
378.0
141.3
76.4
38.2
0.0

(END OF REPORT)