

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: P636667

Luminaire Tested: **IFLD-M-SA4C-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636667
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16357.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

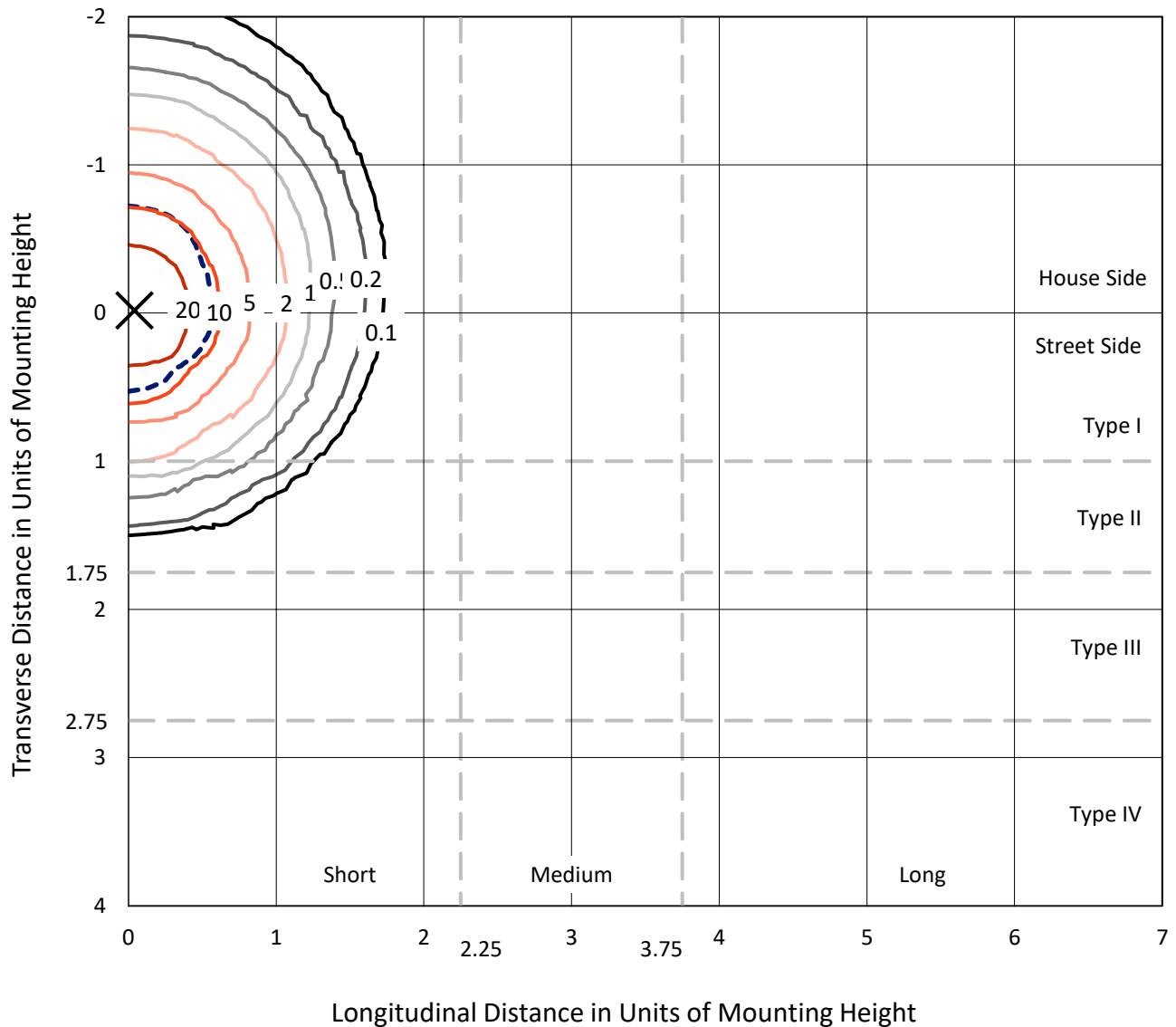
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

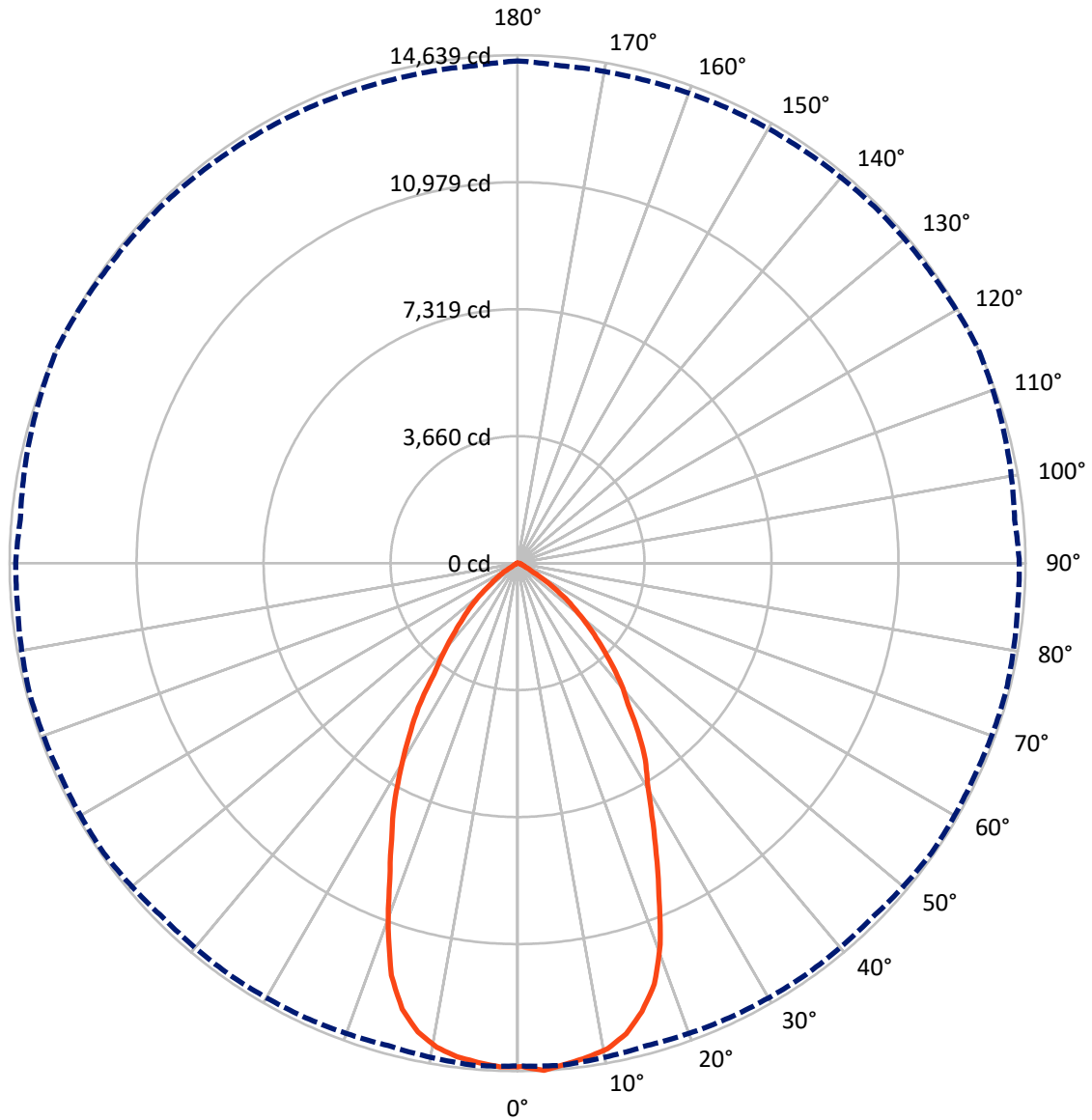
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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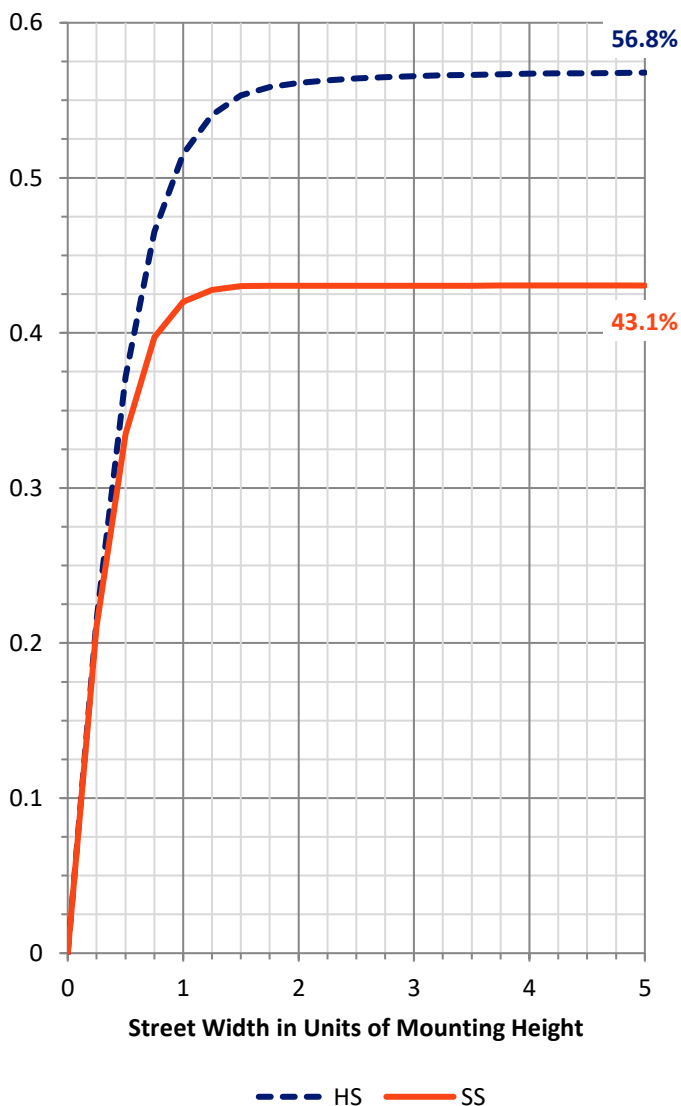
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9361.4	0.0	9361.4
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6996.5	0.0	6996.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	16357.9	0.0	16357.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1367.0	8.4
10°-20°	3624.6	22.2
20°-30°	4145.8	25.3
30°-40°	3552.8	21.7
40°-50°	2349.2	14.4
50°-60°	1025.1	6.3
60°-70°	201.4	1.2
70°-80°	72.7	0.4
80°-90°	19.3	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°	16357.9	100.0
0°-180°	16357.9	100.0



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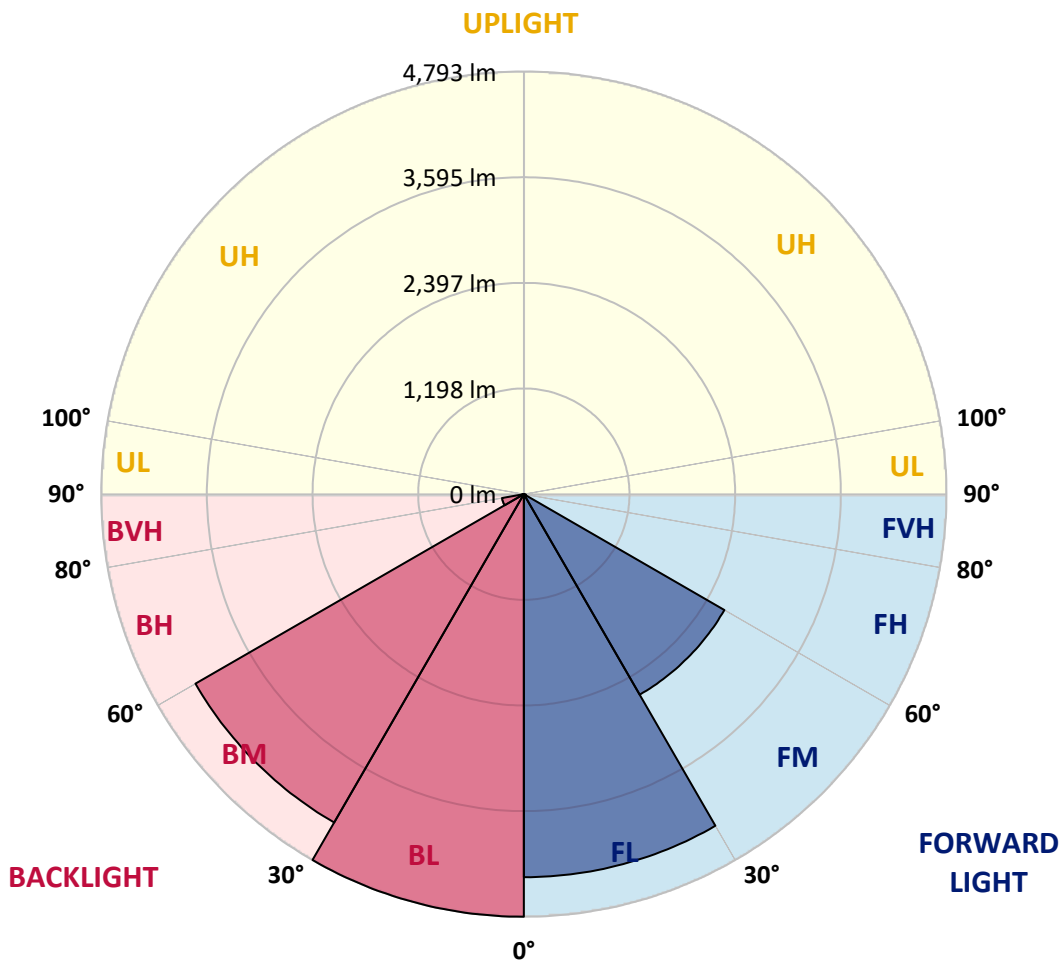
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4344.3	26.6			
FM (30°-60°)	2626.7	16.1			
FH (60°-80°)	22.3	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	4793.0	29.3	B4/5000		
BM (30°-60°)	4300.4	26.3	B3/5000		
BH (60°-80°)	251.8	1.5	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6
2.5°	14492.7	14527.5	14395.4	14454.5	14478.8	14447.5	14562.3	14527.5	14555.3	14468.4
5°	14492.7	14527.5	14374.5	14402.3	14409.3	14350.2	14475.4	14433.6	14437.1	14346.7
7.5°	14402.3	14444.1	14305.0	14325.8	14329.3	14280.6	14388.4	14329.3	14308.5	14214.6
10°	14158.9	14183.3	14058.1	14110.3	14158.9	14113.7	14207.6	14141.5	14141.5	14058.1
12.5°	13773.0	13818.2	13679.1	13741.7	13783.4	13731.2	13839.0	13814.7	13818.2	13734.7
15°	13070.6	12914.1	13081.0	13206.2	13209.7	13199.2	13300.1	13275.7	13293.1	13167.9
17.5°	9656.0	9617.8	9812.5	11290.3	12389.1	12538.6	12556.0	12423.8	12364.7	12243.0
20°	8946.7	8974.5	8932.8	8939.7	9805.5	11603.2	11495.4	11168.6	11019.1	10897.4
22.5°	8428.6	8383.4	8355.6	8338.2	8362.5	9534.3	10309.7	9816.0	9736.0	9676.9
25°	7865.3	7844.4	7809.7	7802.7	7788.8	7590.6	8706.8	8752.0	8623.3	8550.3
27.5°	7340.3	7326.3	7288.1	7284.6	7124.7	6644.8	6766.5	7841.0	7806.2	7778.4
30°	6780.4	6752.6	6731.8	6731.8	6248.4	5754.7	5556.5	6836.1	6836.1	6811.7
32.5°	6171.9	6147.6	6154.5	6071.1	5493.9	5041.9	4728.9	5900.7	6265.8	6245.0
35°	3772.7	3765.7	4471.6	5400.0	4722.0	4311.7	4290.8	5048.8	5580.8	5636.5
37.5°	3358.9	3338.1	3348.5	3407.6	4043.9	3880.5	3873.5	4002.2	4749.8	4777.6
40°	3014.7	3000.8	2990.3	2778.2	2576.6	3463.2	3438.9	3355.4	4057.8	4106.5
42.5°	2687.8	2673.9	2673.9	2374.9	2048.0	2847.8	2858.2	2760.9	3421.5	3438.9
45°	2350.5	2340.1	2281.0	1895.0	1801.2	1891.6	2367.9	2256.7	2715.6	2896.5
47.5°	1109.2	1102.3	1596.0	1575.1	1568.2	1512.6	1808.1	1870.7	2155.8	2336.6
50°	890.1	883.2	841.5	740.6	1290.0	1147.5	1303.9	1439.5	1529.9	1696.8
52.5°	737.2	730.2	643.3	570.3	716.3	838.0	778.9	963.2	959.7	1140.5
55°	483.3	448.6	493.8	465.9	375.5	608.5	594.6	730.2	712.8	869.3
57.5°	10.4	10.4	24.3	264.3	236.4	257.3	340.8	417.3	469.4	514.6
60°	3.5	3.5	7.0	13.9	97.4	107.8	132.1	153.0	215.6	267.7
62.5°	0.0	0.0	3.5	7.0	13.9	55.6	62.6	73.0	100.8	139.1
65°	0.0	0.0	0.0	3.5	7.0	13.9	20.9	45.2	62.6	80.0
67.5°	0.0	0.0	0.0	3.5	3.5	7.0	13.9	20.9	27.8	55.6
70°	0.0	0.0	0.0	3.5	3.5	7.0	10.4	13.9	20.9	27.8
72.5°	0.0	0.0	0.0	3.5	3.5	10.4	7.0	10.4	13.9	17.4
75°	0.0	0.0	0.0	3.5	3.5	3.5	7.0	10.4	10.4	13.9
77.5°	0.0	0.0	0.0	3.5	7.0	7.0	7.0	7.0	7.0	10.4
80°	0.0	0.0	0.0	3.5	3.5	7.0	10.4	13.9	7.0	7.0
82.5°	0.0	0.0	0.0	7.0	3.5	13.9	20.9	17.4	7.0	3.5
85°	0.0	0.0	0.0	3.5	13.9	17.4	17.4	10.4	3.5	3.5
87.5°	0.0	0.0	0.0	3.5	3.5	7.0	10.4	10.4	3.5	3.5
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°
14513.6	0°	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6	14513.6
14461.4	2.5°	14381.5	14517.1	14638.8	14562.3	14534.5	14478.8	14437.1	14391.9	14388.4
14336.3	5°	14256.3	14384.9	14503.2	14412.8	14419.7	14391.9	14364.1	14353.7	14360.6
14207.6	7.5°	14148.5	14256.3	14384.9	14308.5	14329.3	14311.9	14298.0	14277.2	14308.5
14040.7	10°	13985.1	14082.4	14232.0	14158.9	14148.5	14131.1	14117.2	14079.0	14096.3
13738.2	12.5°	13626.9	13748.6	13919.0	13835.6	13863.4	13814.7	13793.8	13769.5	13773.0
13213.1	15°	13140.1	13234.0	13407.9	13341.8	13362.7	13331.4	13331.4	13331.4	13355.7
12260.4	17.5°	12291.7	12482.9	12757.6	12674.2	12705.5	12712.4	12705.5	12729.8	12761.1
10904.3	20°	10911.3	11238.1	11738.8	11902.3	11968.3	11971.8	11923.1	11982.2	12044.8
9635.2	22.5°	9642.1	9986.4	10428.0	10876.5	11154.7	11140.8	11147.7	11186.0	11252.0
8505.1	25°	8543.3	8873.7	9273.5	9673.4	10281.9	10407.1	10410.6	10445.3	10497.5
7733.2	27.5°	7750.6	7879.2	8244.3	8647.7	9301.4	9701.2	9680.4	9711.7	9767.3
6766.5	30°	6794.3	7288.1	7371.5	7618.4	8181.7	8915.4	8918.9	8953.6	9009.3
6196.3	32.5°	6178.9	6505.7	6763.0	6770.0	7249.8	8004.4	8153.9	8188.7	8226.9
5605.2	35°	5601.7	5639.9	5987.6	6085.0	6363.2	7110.8	7375.0	7395.9	7458.5
4767.2	37.5°	4847.1	5073.2	5170.5	5518.2	5532.1	6137.2	6662.2	6641.3	6690.0
4103.0	40°	4155.2	4370.8	4617.6	4871.5	4906.3	5358.3	5939.0	5959.8	5980.7
3404.1	42.5°	3431.9	3706.6	3960.5	4130.8	4367.3	4628.1	5180.9	5278.3	5327.0
2917.3	45°	2969.5	3046.0	3348.5	3598.8	3838.8	3960.5	4478.6	4655.9	4687.2
2308.8	47.5°	2340.1	2597.4	2802.6	3014.7	3313.7	3421.5	3797.0	4043.9	4068.3
1714.2	50°	1808.1	1992.4	2274.1	2465.3	2813.0	2872.1	3129.4	3449.3	3480.6
1147.5	52.5°	1293.5	1543.9	1818.5	2002.8	2336.6	2413.1	2604.4	2910.4	2931.2
879.7	55°	928.4	1091.8	1317.8	1582.1	1825.5	1995.9	2128.0	2420.1	2447.9
577.2	57.5°	632.8	785.8	879.7	1144.0	1290.0	1474.3	1582.1	1804.6	1825.5
274.7	60°	302.5	375.5	448.6	580.7	674.6	831.0	900.6	991.0	1015.3
166.9	62.5°	194.7	229.5	292.1	347.7	438.1	535.5	563.3	639.8	667.6
104.3	65°	128.7	163.4	229.5	243.4	333.8	410.3	445.1	500.7	532.0
62.6	67.5°	73.0	114.7	170.4	201.7	264.3	337.3	375.5	424.2	452.0
41.7	70°	48.7	93.9	135.6	166.9	208.6	271.2	319.9	361.6	379.0
20.9	72.5°	27.8	59.1	93.9	132.1	166.9	226.0	271.2	306.0	201.7
13.9	75°	17.4	45.2	80.0	111.3	139.1	180.8	219.1	215.6	90.4
10.4	77.5°	13.9	34.8	69.5	93.9	114.7	125.2	156.5	177.3	69.5
7.0	80°	10.4	27.8	62.6	80.0	45.2	90.4	121.7	132.1	48.7
7.0	82.5°	7.0	17.4	52.2	55.6	31.3	66.1	97.4	86.9	34.8
3.5	85°	3.5	10.4	17.4	31.3	27.8	31.3	24.3	34.8	24.3
3.5	87.5°	3.5	7.0	13.9	13.9	13.9	10.4	13.9	13.9	13.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14513.6
14471.9
14447.5
14395.4
14179.8
13873.8
13366.1
12865.4
12086.6
11262.5
10587.9
9819.5
9106.6
8313.9
7524.5
6749.1
6046.8
5396.5
4763.7
4127.4
3525.8
2969.5
2472.2
1867.2
1043.1
674.6
532.0
448.6
375.5
163.4
90.4
69.5
52.2
34.8
24.3
13.9
0.0

(END OF REPORT)