

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: P636582

Luminaire Tested: **IFLD-M-SA4E-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18250 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

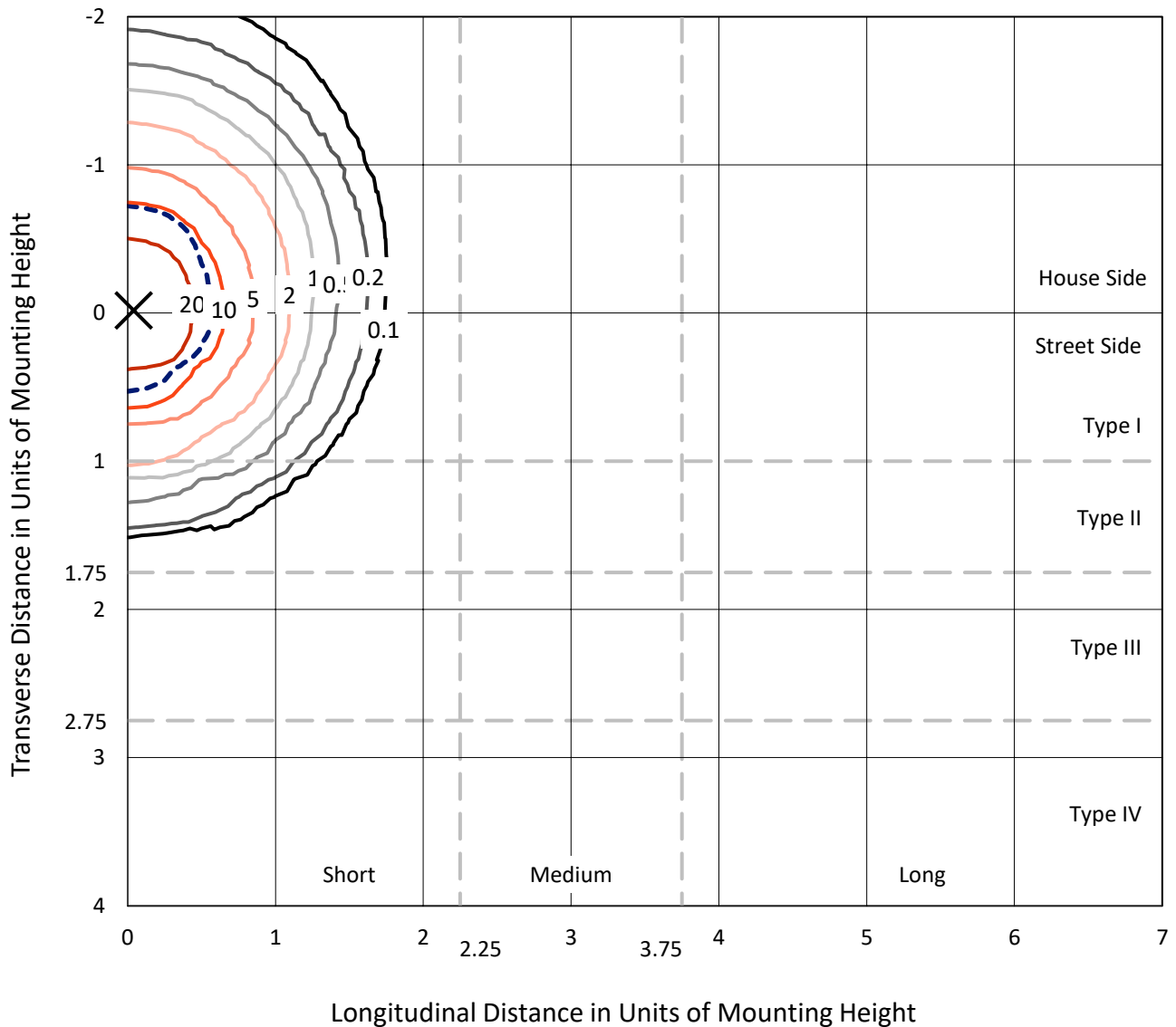
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636582
 CATALOG NUMBER: IFLD-M-SA4E-927-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

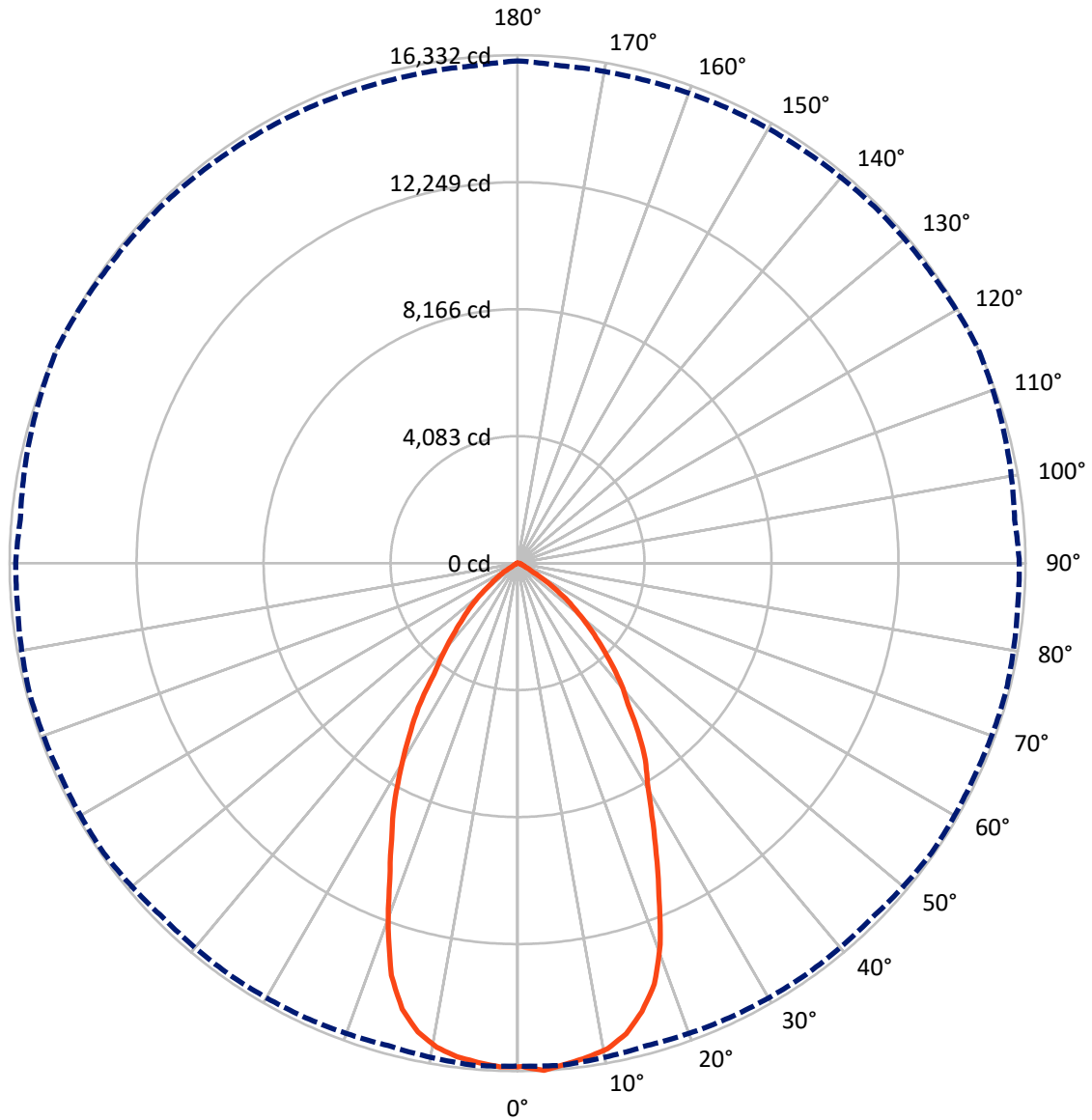
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.5 fc
 Type I - Short - N/A

REPORT NUMBER: P636582
CATALOG NUMBER: IFLD-M-SA4E-927-U-66-VI

Luminous Intensity Polar Plot



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

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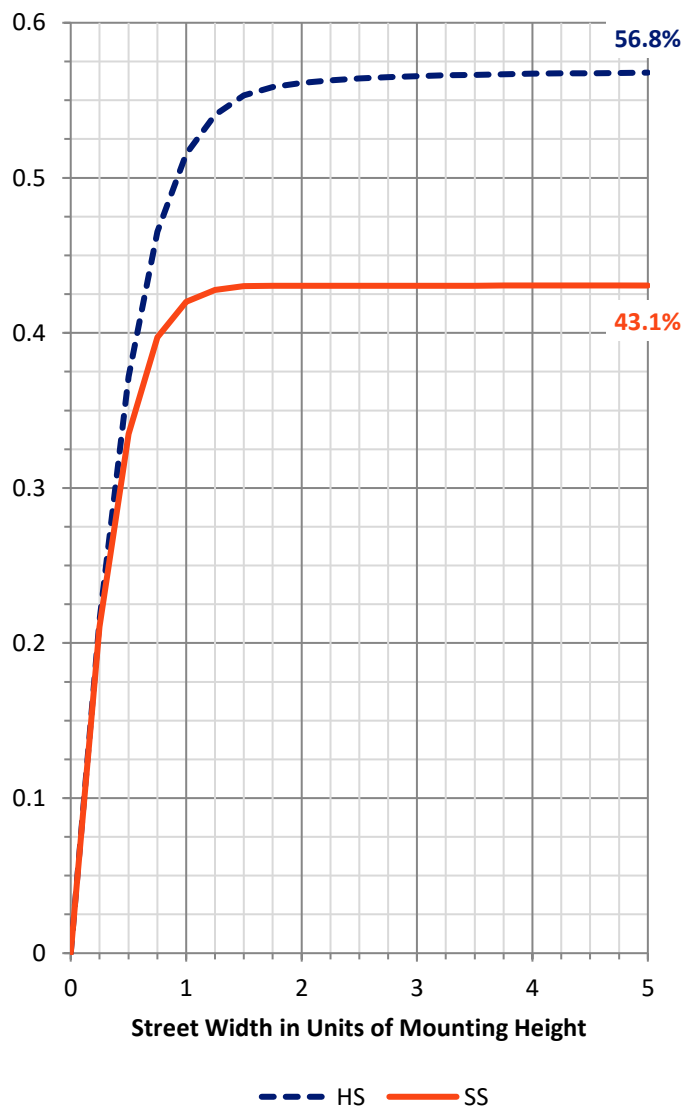
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10444.3	0.0	10444.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7805.8	0.0	7805.8
	% Fixture	42.8	0.0	42.8
Total	Lumens	18250.0	0.0	18250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1525.1	8.4
10°-20°	4043.8	22.2
20°-30°	4625.3	25.3
30°-40°	3963.8	21.7
40°-50°	2621.0	14.4
50°-60°	1143.7	6.3
60°-70°	224.7	1.2
70°-80°	81.1	0.4
80°-90°	21.6	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°	18250.0	100.0
0°-180°	18250.0	100.0



REPORT NUMBER: P636582

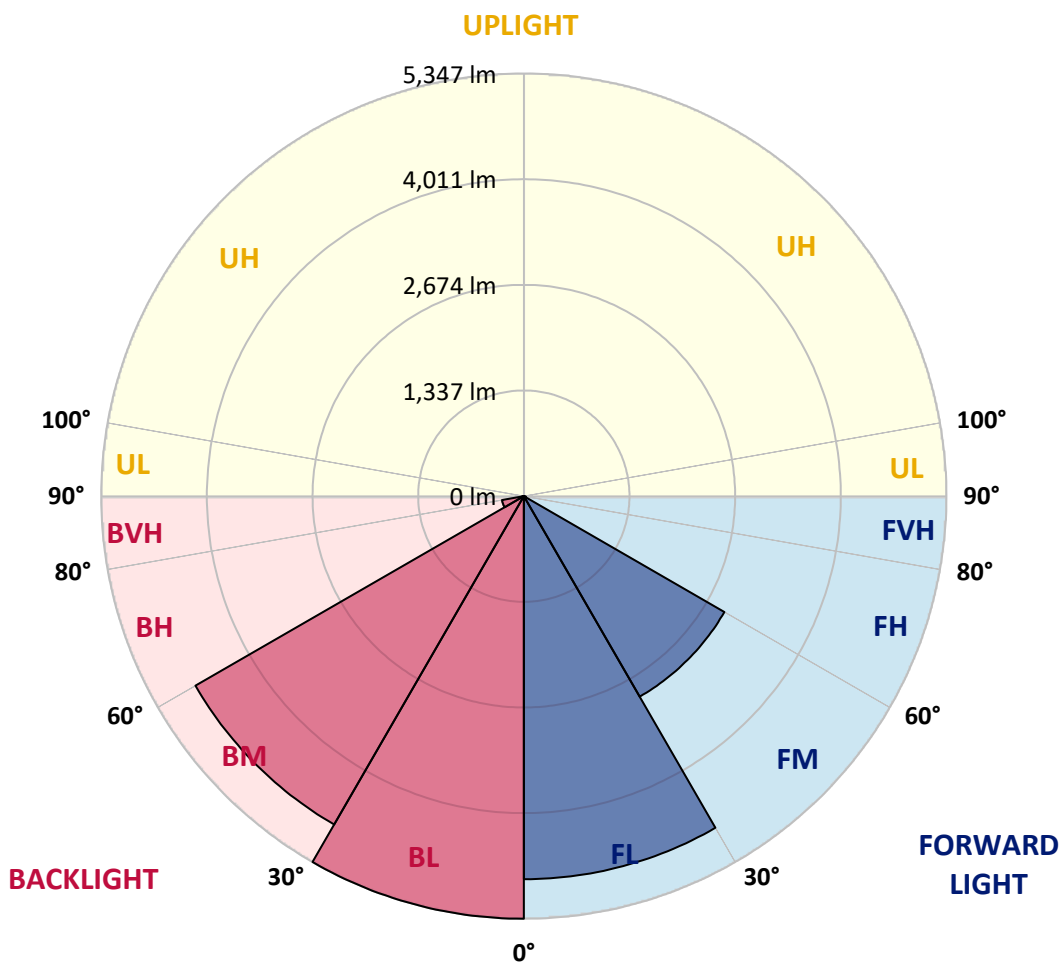
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4846.8	26.6			
FM (30°-60°)	2930.6	16.1			
FH (60°-80°)	24.8	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	5347.4	29.3	B5		
BM (30°-60°)	4797.9	26.3	B3/5000		
BH (60°-80°)	281.0	1.5	B1/500		G1/500
BVH (80°-90°)	18.0	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





REPORT NUMBER: P636582
 CATALOG NUMBER: IFLD-M-SA4E-927-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4
2.5°	16169.1	16207.9	16060.5	16126.4	16153.6	16118.7	16246.7	16207.9	16238.9	16141.9
5°	16169.1	16207.9	16037.2	16068.2	16076.0	16010.0	16149.7	16103.2	16107.0	16006.2
7.5°	16068.2	16114.8	15959.6	15982.9	15986.8	15932.5	16052.7	15986.8	15963.5	15858.8
10°	15796.7	15823.8	15684.2	15742.4	15796.7	15746.3	15851.0	15777.3	15777.3	15684.2
12.5°	15366.1	15416.5	15261.3	15331.2	15377.7	15319.5	15439.8	15412.6	15416.5	15323.4
15°	14582.5	14407.9	14594.1	14733.7	14737.6	14726.0	14838.5	14811.3	14830.7	14691.1
17.5°	10772.9	10730.3	10947.5	12596.2	13822.1	13988.9	14008.3	13860.9	13794.9	13659.2
20°	9981.5	10012.6	9966.0	9973.8	10939.7	12945.4	12825.1	12460.4	12293.6	12157.9
22.5°	9403.5	9353.1	9322.1	9302.7	9329.8	10637.2	11502.3	10951.4	10862.2	10796.2
25°	8775.1	8751.8	8713.0	8705.2	8689.7	8468.6	9713.9	9764.3	9620.8	9539.3
27.5°	8189.3	8173.8	8131.1	8127.2	7948.8	7413.4	7549.2	8747.9	8709.1	8678.1
30°	7564.7	7533.7	7510.4	7510.4	6971.2	6420.3	6199.2	7626.8	7626.8	7599.6
32.5°	6885.8	6858.7	6866.4	6773.3	6129.4	5625.0	5275.9	6583.2	6990.6	6967.3
35°	4209.1	4201.3	4988.8	6024.6	5268.1	4810.4	4787.1	5632.8	6226.3	6288.4
37.5°	3747.4	3724.2	3735.8	3801.8	4511.7	4329.3	4321.6	4465.1	5299.2	5330.2
40°	3363.4	3347.9	3336.2	3099.6	2874.6	3863.8	3836.7	3743.6	4527.2	4581.5
42.5°	2998.7	2983.2	2983.2	2649.6	2284.9	3177.2	3188.8	3080.2	3817.3	3836.7
45°	2622.4	2610.8	2544.8	2114.2	2009.5	2110.4	2641.8	2517.7	3029.8	3231.5
47.5°	1237.5	1229.8	1780.6	1757.3	1749.6	1687.5	2017.3	2087.1	2405.2	2606.9
50°	993.1	985.4	938.8	826.3	1439.2	1280.2	1454.8	1606.0	1706.9	1893.1
52.5°	822.4	814.7	717.7	636.2	799.1	934.9	869.0	1074.6	1070.7	1272.4
55°	539.2	500.4	550.9	519.8	419.0	678.9	663.4	814.7	795.3	969.8
57.5°	11.6	11.6	27.2	294.8	263.8	287.1	380.2	465.5	523.7	574.1
60°	3.9	3.9	7.8	15.5	108.6	120.3	147.4	170.7	240.5	298.7
62.5°	0.0	0.0	3.9	7.8	15.5	62.1	69.8	81.5	112.5	155.2
65°	0.0	0.0	0.0	3.9	7.8	15.5	23.3	50.4	69.8	89.2
67.5°	0.0	0.0	0.0	3.9	3.9	7.8	15.5	23.3	31.0	62.1
70°	0.0	0.0	0.0	3.9	3.9	7.8	11.6	15.5	23.3	31.0
72.5°	0.0	0.0	0.0	3.9	3.9	11.6	7.8	11.6	15.5	19.4
75°	0.0	0.0	0.0	3.9	3.9	3.9	7.8	11.6	11.6	15.5
77.5°	0.0	0.0	0.0	3.9	7.8	7.8	7.8	7.8	7.8	11.6
80°	0.0	0.0	0.0	3.9	3.9	7.8	11.6	15.5	7.8	7.8
82.5°	0.0	0.0	0.0	7.8	3.9	15.5	23.3	19.4	7.8	3.9
85°	0.0	0.0	0.0	3.9	15.5	19.4	19.4	11.6	3.9	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	11.6	11.6	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636582
 CATALOG NUMBER: IFLD-M-SA4E-927-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16192.4	0°	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4	16192.4
16134.2	2.5°	16045.0	16196.3	16332.0	16246.7	16215.7	16153.6	16107.0	16056.6	16052.7
15994.5	5°	15905.3	16048.8	16180.7	16079.9	16087.6	16056.6	16025.6	16013.9	16021.7
15851.0	7.5°	15785.0	15905.3	16048.8	15963.5	15986.8	15967.4	15951.9	15928.6	15963.5
15664.8	10°	15602.7	15711.3	15878.2	15796.7	15785.0	15765.7	15750.1	15707.5	15726.9
15327.3	12.5°	15203.1	15338.9	15529.0	15435.9	15466.9	15412.6	15389.4	15362.2	15366.1
14741.5	15°	14660.0	14764.8	14958.7	14885.0	14908.3	14873.4	14873.4	14873.4	14900.6
13678.6	17.5°	13713.5	13926.8	14233.3	14140.2	14175.1	14182.9	14175.1	14202.3	14237.2
12165.6	20°	12173.4	12538.0	13096.7	13279.0	13352.7	13356.6	13302.3	13368.2	13438.0
10749.7	22.5°	10757.4	11141.5	11634.1	12134.6	12444.9	12429.4	12437.2	12479.8	12553.6
9488.9	25°	9531.5	9900.1	10346.2	10792.3	11471.2	11610.9	11614.8	11653.5	11711.7
8627.7	27.5°	8647.1	8790.6	9197.9	9647.9	10377.2	10823.4	10800.1	10835.0	10897.1
7549.2	30°	7580.2	8131.1	8224.2	8499.6	9128.1	9946.6	9950.5	9989.3	10051.4
6913.0	32.5°	6893.6	7258.3	7545.3	7553.1	8088.4	8930.2	9097.1	9135.9	9178.5
6253.5	35°	6249.6	6292.3	6680.2	6788.9	7099.2	7933.3	8228.1	8251.4	8321.2
5318.6	37.5°	5407.8	5660.0	5768.6	6156.5	6172.0	6847.0	7432.8	7409.5	7463.9
4577.6	40°	4635.8	4876.3	5151.8	5435.0	5473.8	5978.1	6625.9	6649.2	6672.5
3797.9	42.5°	3828.9	4135.4	4418.6	4608.7	4872.5	5163.4	5780.2	5888.8	5943.2
3254.8	45°	3313.0	3398.3	3735.8	4015.1	4282.8	4418.6	4996.6	5194.4	5229.4
2575.9	47.5°	2610.8	2897.9	3126.8	3363.4	3697.0	3817.3	4236.2	4511.7	4538.8
1912.5	50°	2017.3	2222.9	2537.1	2750.5	3138.4	3204.3	3491.4	3848.3	3883.2
1280.2	52.5°	1443.1	1722.4	2028.9	2234.5	2606.9	2692.3	2905.6	3247.0	3270.3
981.5	55°	1035.8	1218.1	1470.3	1765.1	2036.7	2226.7	2374.2	2700.0	2731.1
644.0	57.5°	706.0	876.7	981.5	1276.3	1439.2	1644.8	1765.1	2013.4	2036.7
306.5	60°	337.5	419.0	500.4	647.9	752.6	927.2	1004.7	1105.6	1132.8
186.2	62.5°	217.2	256.0	325.9	387.9	488.8	597.4	628.5	713.8	744.8
116.4	65°	143.5	182.3	256.0	271.6	372.4	457.8	496.6	558.6	593.5
69.8	67.5°	81.5	128.0	190.1	225.0	294.8	376.3	419.0	473.3	504.3
46.6	70°	54.3	104.7	151.3	186.2	232.8	302.6	356.9	403.5	422.8
23.3	72.5°	31.0	65.9	104.7	147.4	186.2	252.2	302.6	341.4	225.0
15.5	75°	19.4	50.4	89.2	124.1	155.2	201.7	244.4	240.5	100.9
11.6	77.5°	15.5	38.8	77.6	104.7	128.0	139.7	174.6	197.8	77.6
7.8	80°	11.6	31.0	69.8	89.2	50.4	100.9	135.8	147.4	54.3
7.8	82.5°	7.8	19.4	58.2	62.1	34.9	73.7	108.6	97.0	38.8
3.9	85°	3.9	11.6	19.4	34.9	31.0	34.9	27.2	38.8	27.2
3.9	87.5°	3.9	7.8	15.5	15.5	15.5	11.6	15.5	15.5	15.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16192.4
16145.8
16118.7
16060.5
15820.0
15478.6
14912.2
14353.6
13484.6
12565.2
11812.6
10955.3
10160.0
9275.5
8394.9
7529.8
6746.2
6020.7
5314.7
4604.8
3933.7
3313.0
2758.2
2083.2
1163.8
752.6
593.5
500.4
419.0
182.3
100.9
77.6
58.2
38.8
27.2
15.5
0.0

(END OF REPORT)