

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: P636669

Luminaire Tested: **IFLD-M-SA4E-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636669
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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: 20830 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

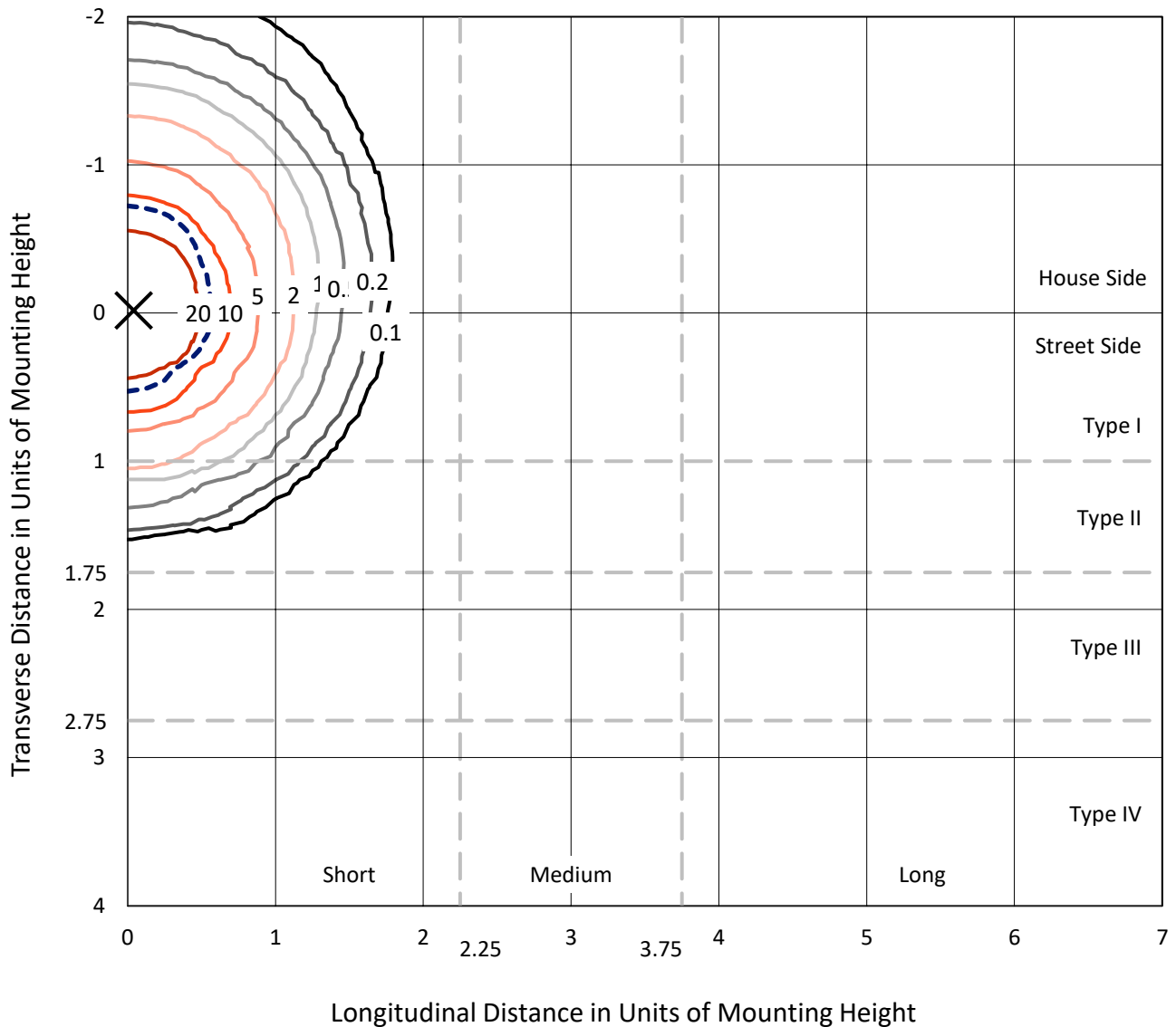
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636669
 CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

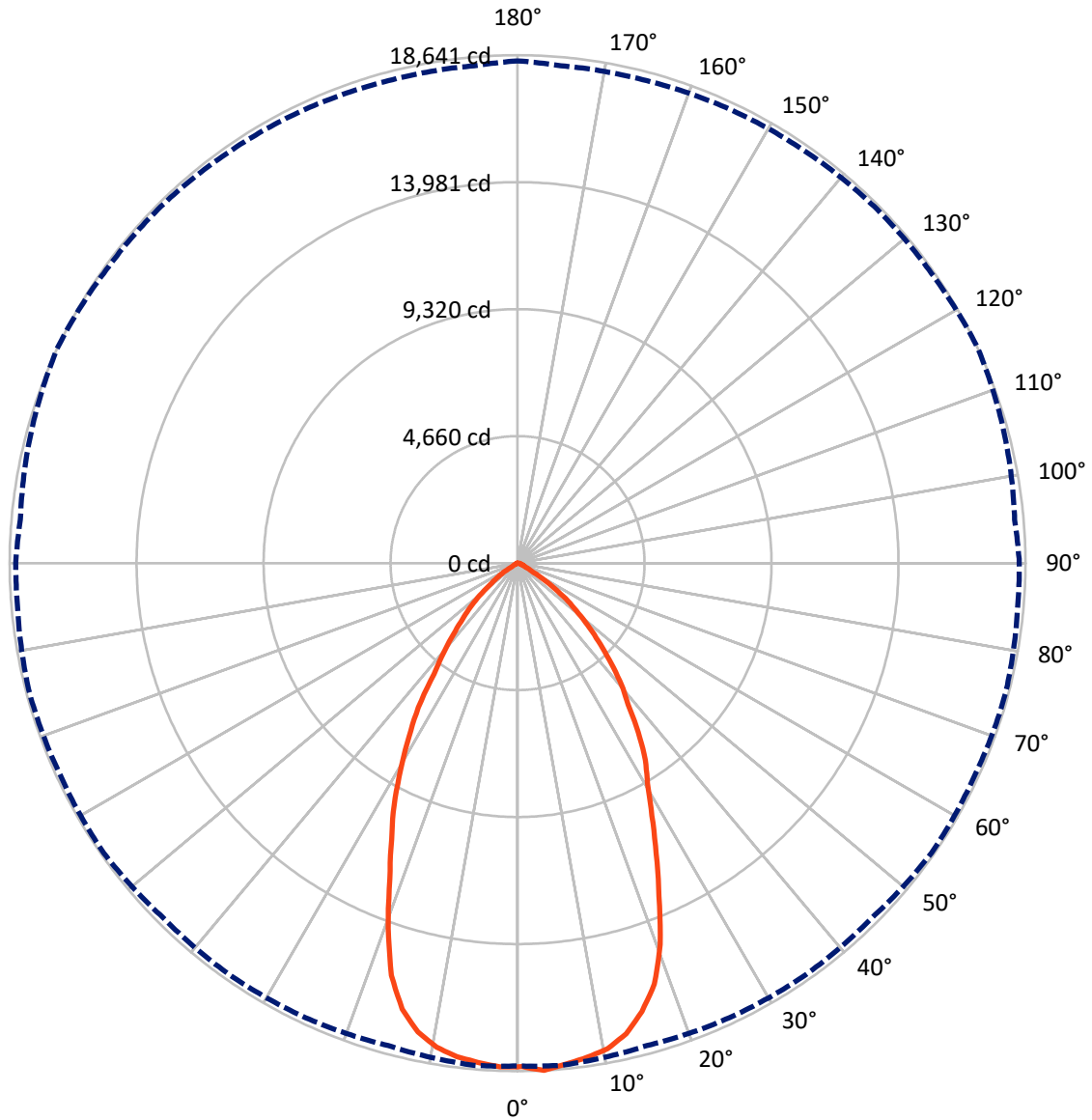
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.2 fc
 Type I - Short - N/A

REPORT NUMBER: P636669
CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636669
 CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

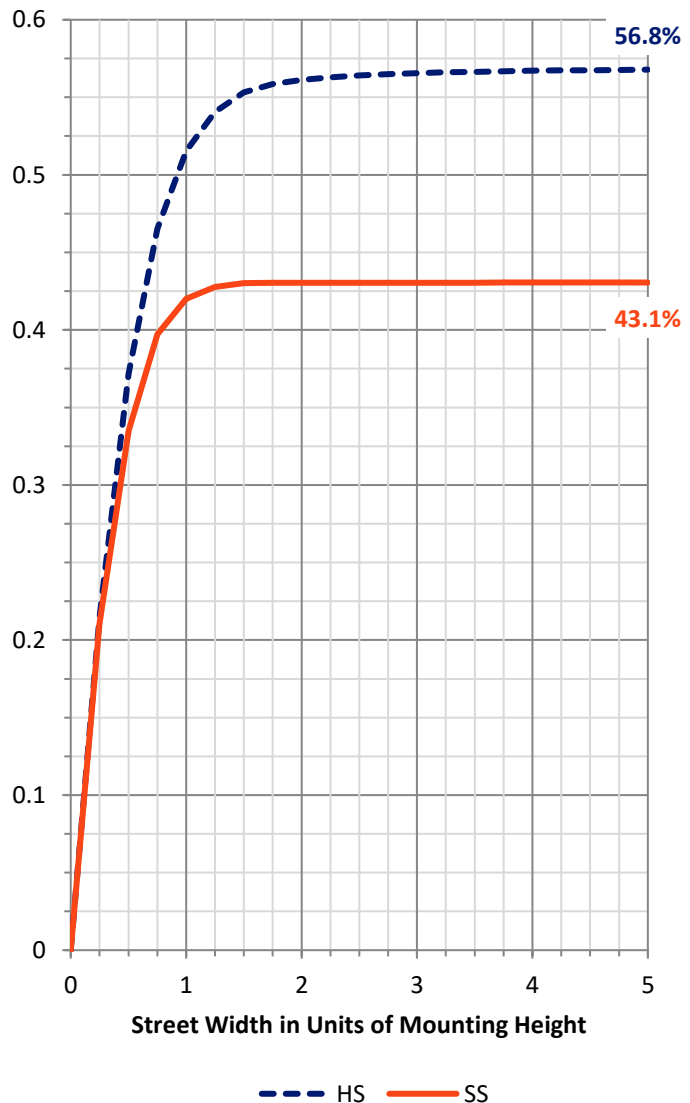
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11920.7	0.0	11920.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	8909.3	0.0	8909.3
	% Fixture	42.8	0.0	42.8
Total	Lumens	20830.0	0.0	20830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1740.7	8.4
10°-20°	4615.5	22.2
20°-30°	5279.2	25.3
30°-40°	4524.1	21.7
40°-50°	2991.5	14.4
50°-60°	1305.4	6.3
60°-70°	256.5	1.2
70°-80°	92.5	0.4
80°-90°	24.6	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°	20830.0	100.0
0°-180°	20830.0	100.0



REPORT NUMBER: P636669

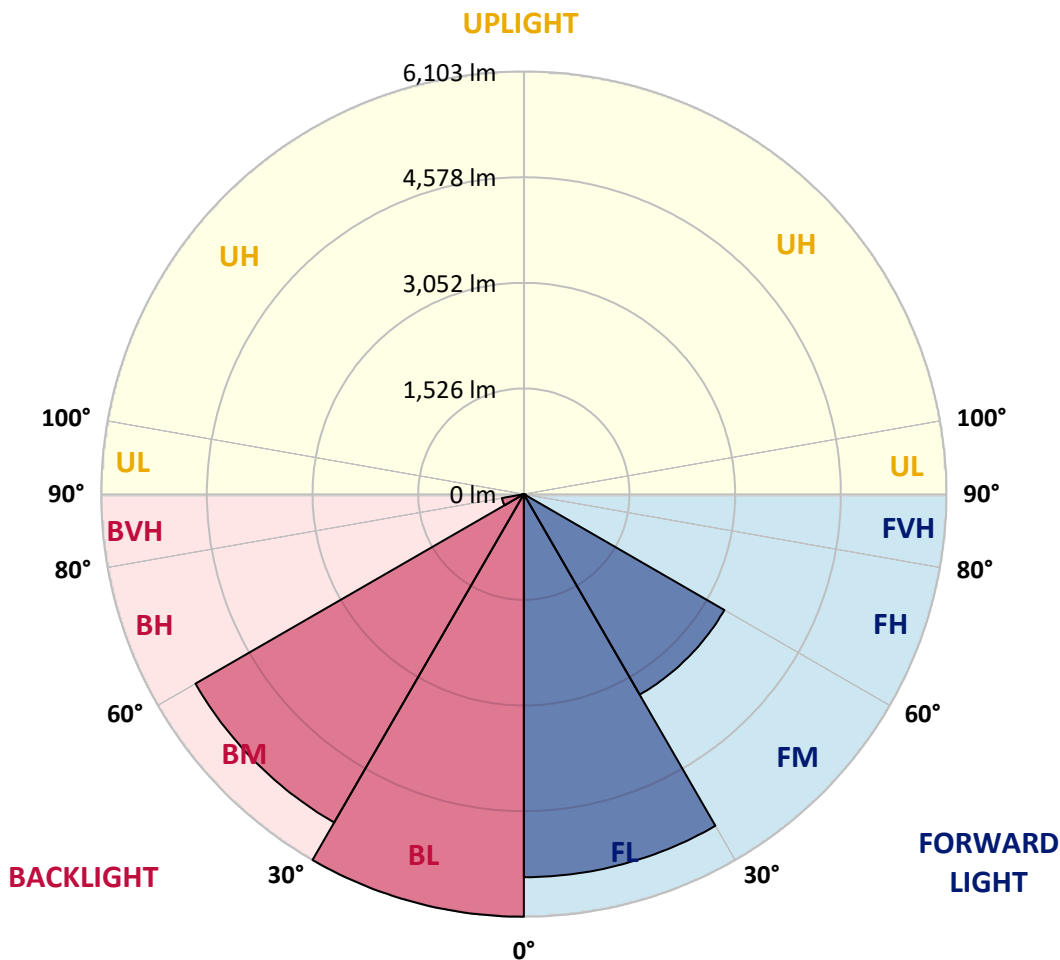
CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5532.0	26.6			
FM (30°-60°)	3344.8	16.1			
FH (60°-80°)	28.3	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6103.4	29.3	B5		
BM (30°-60°)	5476.1	26.3	B4/8500		
BH (60°-80°)	320.7	1.5	B1/500		G1/500
BVH (80°-90°)	20.5	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





REPORT NUMBER: P636669
 CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5
2.5°	18454.9	18499.2	18330.9	18406.2	18437.2	18397.3	18543.4	18499.2	18534.6	18423.9
5°	18454.9	18499.2	18304.3	18339.8	18348.6	18273.4	18432.8	18379.6	18384.0	18268.9
7.5°	18339.8	18392.9	18215.8	18242.4	18246.8	18184.8	18322.1	18246.8	18220.2	18100.7
10°	18029.8	18060.8	17901.4	17967.8	18029.8	17972.3	18091.8	18007.7	18007.7	17901.4
12.5°	17538.3	17595.9	17418.8	17498.5	17551.6	17485.2	17622.5	17591.5	17595.9	17489.6
15°	16643.9	16444.7	16657.2	16816.6	16821.1	16807.8	16936.2	16905.2	16927.3	16767.9
17.5°	12295.9	12247.2	12495.1	14376.9	15776.1	15966.5	15988.6	15820.4	15745.1	15590.1
20°	11392.6	11428.0	11374.9	11383.8	12486.3	14775.4	14638.2	14222.0	14031.6	13876.6
22.5°	10732.9	10675.3	10639.9	10617.8	10648.8	12140.9	13128.3	12499.6	12397.7	12322.4
25°	10015.6	9989.0	9944.7	9935.9	9918.2	9665.8	11087.1	11144.7	10980.8	10887.9
27.5°	9347.0	9329.3	9280.6	9276.2	9072.5	8461.4	8616.4	9984.6	9940.3	9904.9
30°	8634.1	8598.7	8572.1	8572.1	7956.7	7327.9	7075.6	8705.0	8705.0	8674.0
32.5°	7859.3	7828.3	7837.1	7730.9	6995.9	6420.2	6021.8	7513.9	7978.8	7952.3
35°	4804.1	4795.3	5694.1	6876.3	6012.9	5490.4	5463.9	6429.1	7106.6	7177.4
37.5°	4277.2	4250.6	4263.9	4339.2	5149.5	4941.4	4932.5	5096.3	6048.3	6083.7
40°	3838.9	3821.2	3807.9	3537.8	3281.0	4410.0	4379.1	4272.8	5167.2	5229.2
42.5°	3422.7	3404.9	3404.9	3024.2	2607.9	3626.3	3639.6	3515.6	4356.9	4379.1
45°	2993.2	2979.9	2904.6	2413.1	2293.6	2408.7	3015.3	2873.6	3458.1	3688.3
47.5°	1412.5	1403.6	2032.3	2005.8	1996.9	1926.1	2302.4	2382.1	2745.2	2975.5
50°	1133.5	1124.7	1071.5	943.1	1642.7	1461.2	1660.4	1833.1	1948.2	2160.7
52.5°	938.7	929.8	819.1	726.2	912.1	1067.1	991.8	1226.5	1222.1	1452.3
55°	615.5	571.2	628.7	593.3	478.2	774.9	757.1	929.8	907.7	1106.9
57.5°	13.3	13.3	31.0	336.5	301.1	327.7	433.9	531.3	597.7	655.3
60°	4.4	4.4	8.9	17.7	124.0	137.3	168.3	194.8	274.5	340.9
62.5°	0.0	0.0	4.4	8.9	17.7	70.8	79.7	93.0	128.4	177.1
65°	0.0	0.0	0.0	4.4	8.9	17.7	26.6	57.6	79.7	101.8
67.5°	0.0	0.0	0.0	4.4	4.4	8.9	17.7	26.6	35.4	70.8
70°	0.0	0.0	0.0	4.4	4.4	8.9	13.3	17.7	26.6	35.4
72.5°	0.0	0.0	0.0	4.4	4.4	13.3	8.9	13.3	17.7	22.1
75°	0.0	0.0	0.0	4.4	4.4	4.4	8.9	13.3	13.3	17.7
77.5°	0.0	0.0	0.0	4.4	8.9	8.9	8.9	8.9	8.9	13.3
80°	0.0	0.0	0.0	4.4	4.4	8.9	13.3	17.7	8.9	8.9
82.5°	0.0	0.0	0.0	8.9	4.4	17.7	26.6	22.1	8.9	4.4
85°	0.0	0.0	0.0	4.4	17.7	22.1	22.1	13.3	4.4	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	13.3	13.3	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636669

CATALOG NUMBER: IFLD-M-SA4E-940-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18481.5	0°	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5	18481.5
18415.0	2.5°	18313.2	18485.9	18640.9	18543.4	18508.0	18437.2	18384.0	18326.5	18322.1
18255.6	5°	18153.8	18317.6	18468.2	18353.1	18361.9	18326.5	18291.1	18277.8	18286.6
18091.8	7.5°	18016.5	18153.8	18317.6	18220.2	18246.8	18224.7	18206.9	18180.4	18220.2
17879.3	10°	17808.4	17932.4	18122.8	18029.8	18016.5	17994.4	17976.7	17928.0	17950.1
17494.1	12.5°	17352.4	17507.4	17724.3	17618.0	17653.5	17591.5	17564.9	17533.9	17538.3
16825.5	15°	16732.5	16852.0	17073.4	16989.3	17015.9	16976.0	16976.0	16976.0	17007.0
15612.3	17.5°	15652.1	15895.6	16245.4	16139.2	16179.0	16187.9	16179.0	16210.0	16249.9
13885.4	20°	13894.3	14310.5	14948.1	15156.2	15240.3	15244.8	15182.8	15258.1	15337.8
12269.3	22.5°	12278.2	12716.5	13278.8	13850.0	14204.2	14186.5	14195.4	14244.1	14328.2
10830.3	25°	10879.0	11299.6	11808.8	12318.0	13092.9	13252.3	13256.7	13301.0	13367.4
9847.3	27.5°	9869.5	10033.3	10498.2	11011.8	11844.3	12353.4	12326.9	12366.7	12437.6
8616.4	30°	8651.8	9280.6	9386.8	9701.2	10418.5	11352.8	11357.2	11401.5	11472.3
7890.3	32.5°	7868.1	8284.3	8612.0	8620.8	9231.9	10192.7	10383.1	10427.4	10476.1
7137.5	35°	7133.1	7181.8	7624.6	7748.6	8102.8	9054.8	9391.3	9417.8	9497.5
6070.5	37.5°	6172.3	6460.1	6584.1	7026.9	7044.6	7815.0	8483.6	8457.0	8519.0
5224.8	40°	5291.2	5565.7	5880.1	6203.3	6247.6	6823.2	7562.6	7589.2	7615.7
4334.8	42.5°	4370.2	4720.0	5043.2	5260.2	5561.3	5893.3	6597.4	6721.3	6783.3
3714.9	45°	3781.3	3878.7	4263.9	4582.7	4888.2	5043.2	5703.0	5928.8	5968.6
2940.0	47.5°	2979.9	3307.5	3568.8	3838.9	4219.7	4356.9	4835.1	5149.5	5180.5
2182.9	50°	2302.4	2537.1	2895.8	3139.3	3582.1	3657.3	3985.0	4392.3	4432.2
1461.2	52.5°	1647.1	1965.9	2315.7	2550.4	2975.5	3072.9	3316.4	3706.0	3732.6
1120.2	55°	1182.2	1390.3	1678.1	2014.6	2324.6	2541.5	2709.8	3081.7	3117.1
735.0	57.5°	805.9	1000.7	1120.2	1456.7	1642.7	1877.4	2014.6	2298.0	2324.6
349.8	60°	385.2	478.2	571.2	739.4	859.0	1058.2	1146.8	1261.9	1292.9
212.5	62.5°	248.0	292.2	371.9	442.8	557.9	681.9	717.3	814.7	850.1
132.8	65°	163.8	208.1	292.2	309.9	425.1	522.5	566.8	637.6	677.4
79.7	67.5°	93.0	146.1	217.0	256.8	336.5	429.5	478.2	540.2	575.6
53.1	70°	62.0	119.5	172.7	212.5	265.7	345.4	407.4	460.5	482.6
26.6	72.5°	35.4	75.3	119.5	168.3	212.5	287.8	345.4	389.6	256.8
17.7	75°	22.1	57.6	101.8	141.7	177.1	230.2	278.9	274.5	115.1
13.3	77.5°	17.7	44.3	88.6	119.5	146.1	159.4	199.2	225.8	88.6
8.9	80°	13.3	35.4	79.7	101.8	57.6	115.1	155.0	168.3	62.0
8.9	82.5°	8.9	22.1	66.4	70.8	39.8	84.1	124.0	110.7	44.3
4.4	85°	4.4	13.3	22.1	39.8	35.4	39.8	31.0	44.3	31.0
4.4	87.5°	4.4	8.9	17.7	17.7	17.7	13.3	17.7	17.7	17.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18481.5
18428.3
18397.3
18330.9
18056.4
17666.8
17020.3
16382.7
15390.9
14341.5
13482.5
12504.0
11596.3
10586.8
9581.7
8594.3
7699.9
6871.9
6066.0
5255.7
4489.7
3781.3
3148.1
2377.7
1328.3
859.0
677.4
571.2
478.2
208.1
115.1
88.6
66.4
44.3
31.0
17.7
0.0

(END OF REPORT)