

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: P637501

Luminaire Tested: **IFLD-S-SA6A-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637501
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20684.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

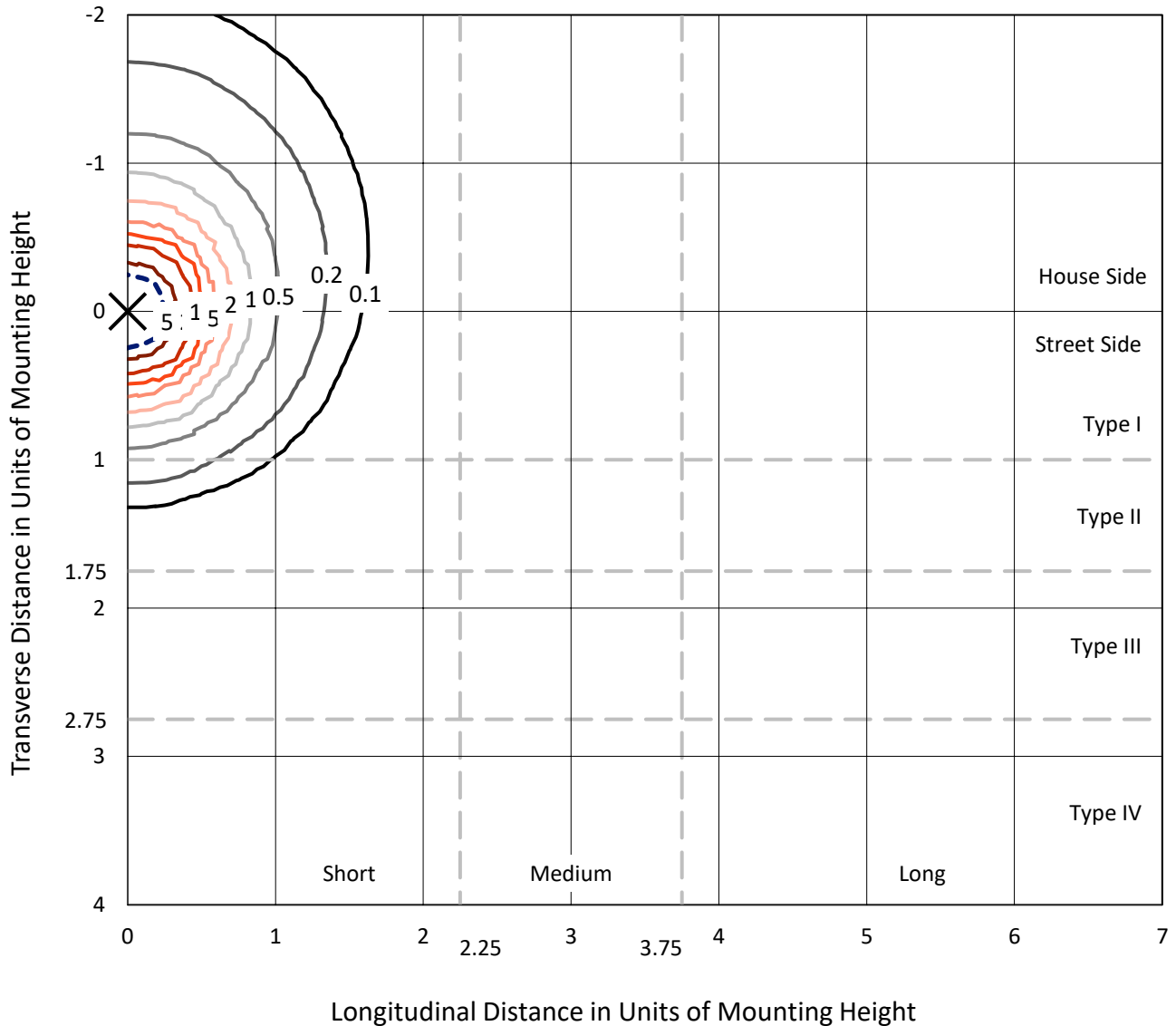
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637501
 CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

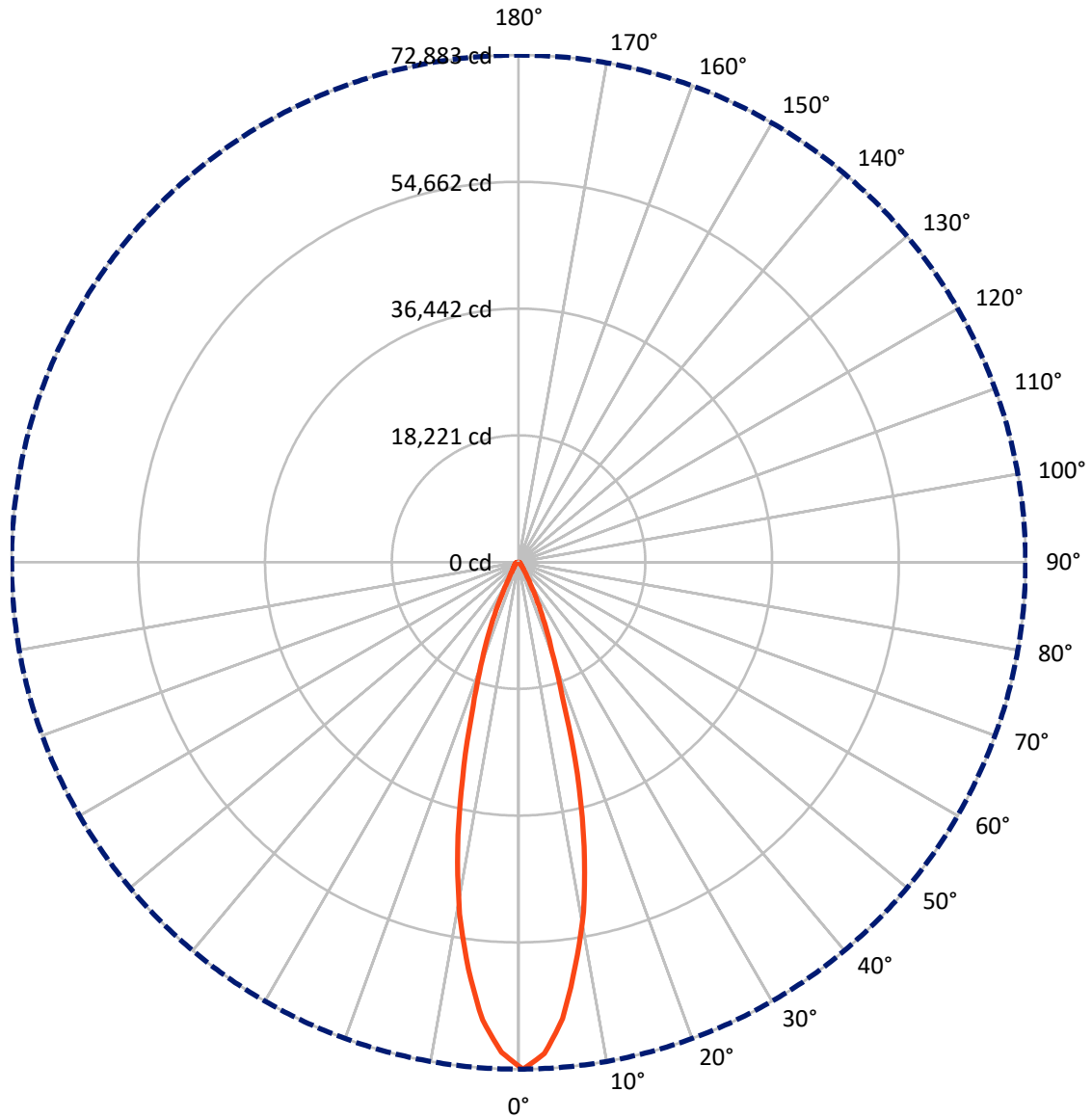
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 182.2 fc
 Type V - Short - N/A

REPORT NUMBER: P637501
CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637501
 CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

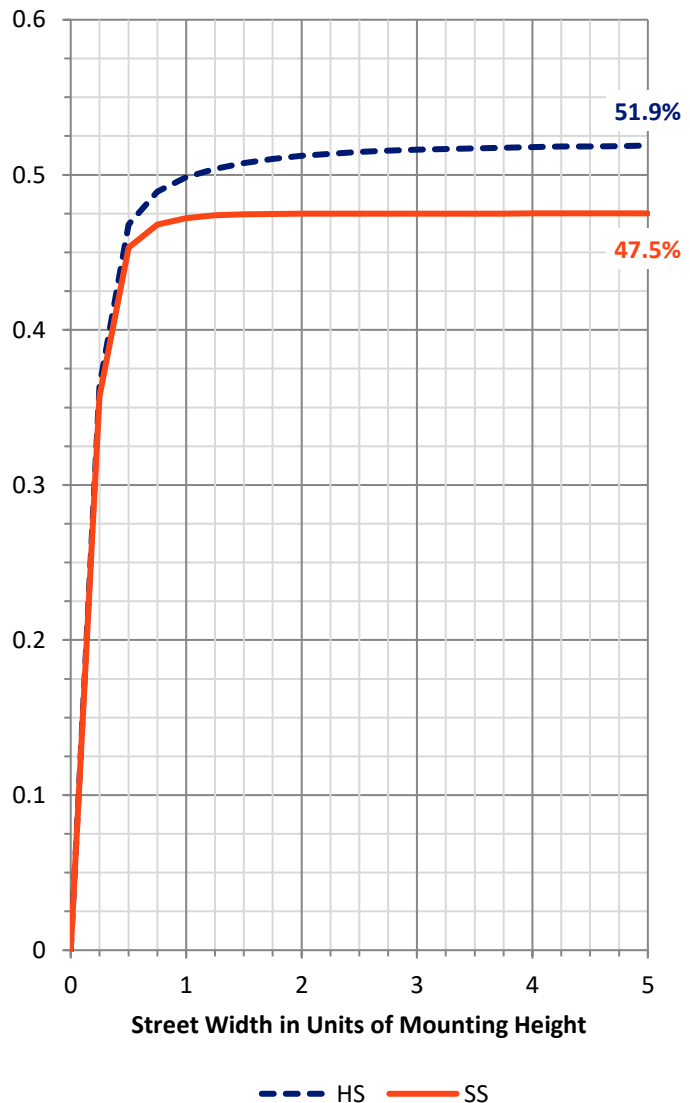
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10906.3	0.0	10906.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9778.2	0.0	9778.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	20684.5	0.0	20684.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5882.3	28.4
10°-20°	8908.7	43.1
20°-30°	3759.5	18.2
30°-40°	980.5	4.7
40°-50°	495.9	2.4
50°-60°	324.2	1.6
60°-70°	194.2	0.9
70°-80°	102.2	0.5
80°-90°	36.9	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°	20684.5	100.0
0°-180°	20684.5	100.0



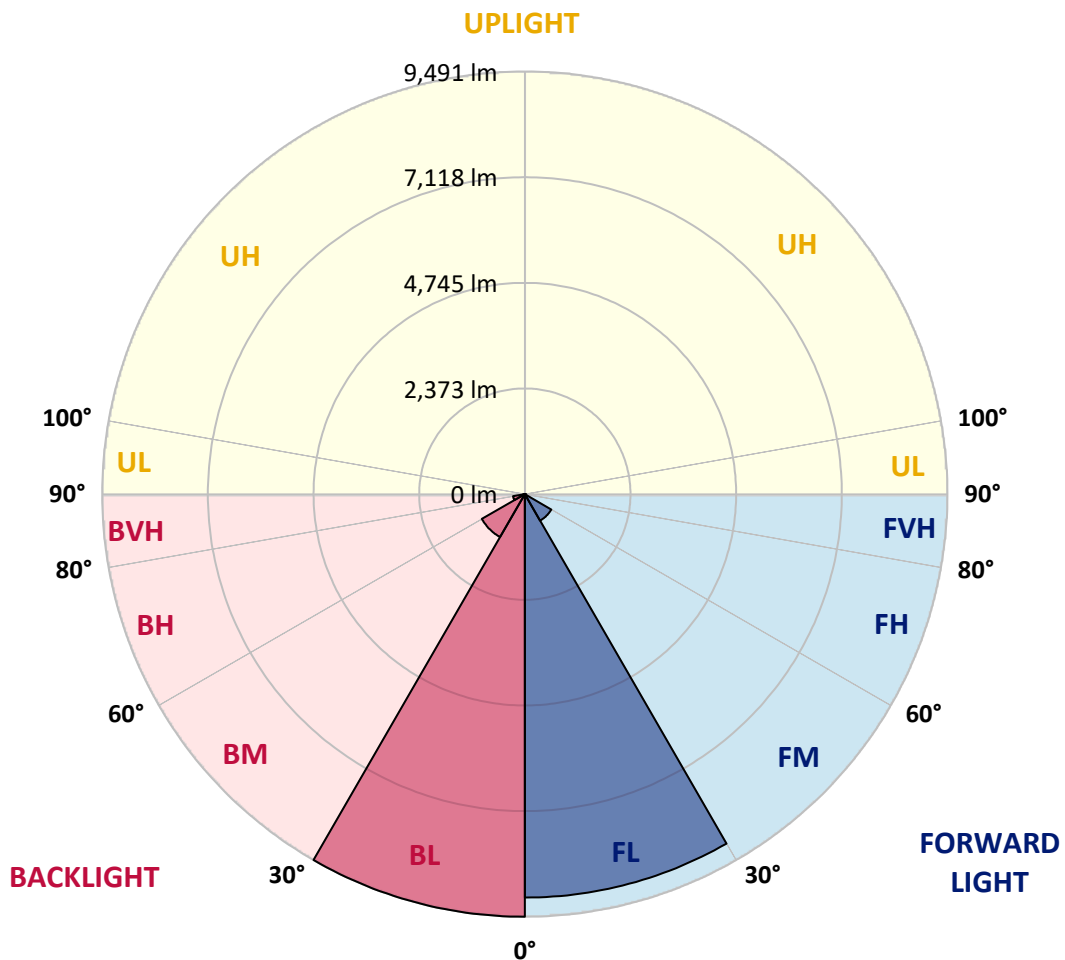
REPORT NUMBER: P637501
 CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9059.7	43.8			
FM (30°-60°)	686.1	3.3			
FH (60°-80°)	28.0	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9490.9	45.9	B5		
BM (30°-60°)	1114.5	5.4	B2/2500		
BH (60°-80°)	268.4	1.3	B1/500		G0/660
BVH (80°-90°)	32.4	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-G1

Type V Short





REPORT NUMBER: P637501
 CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2
2.5°	70760.1	70799.6	70653.3	70969.2	70722.9	71382.6	71055.1	71566.2	71394.3	71680.0
5°	65928.5	65863.4	65821.6	66311.8	66170.1	66878.5	66425.6	66276.9	66736.9	66653.2
7.5°	58632.3	58804.2	58706.6	58834.4	58906.4	59714.7	59970.3	59770.5	59777.5	59893.6
10°	51152.5	50899.3	50539.3	50778.5	51284.9	51638.0	51496.3	51789.0	51724.0	52000.4
12.5°	41949.2	42149.0	41946.9	41733.2	42618.2	42520.6	42766.9	42927.2	42525.3	43419.6
15°	31598.4	31702.9	31949.1	31932.9	32613.5	32750.5	32718.0	32887.6	32574.0	32722.7
17.5°	20299.8	20652.9	21314.9	22434.5	23693.6	23839.9	23802.7	23663.4	23512.4	23345.1
20°	13635.4	13598.2	13837.5	14165.0	16771.3	17461.2	17440.3	17003.6	16371.8	16251.0
22.5°	9551.8	9621.4	9588.9	9914.1	10453.0	12355.5	12120.9	11677.2	11470.5	11335.7
25°	6283.4	6257.9	6420.5	6518.1	6980.3	7212.6	8034.9	7870.0	7551.7	7586.6
27.5°	3830.5	3863.0	3923.4	4007.0	4334.5	4260.2	4729.4	4792.1	4689.9	4580.8
30°	2350.8	2374.0	2422.8	2483.2	2597.0	2515.7	2645.8	2871.1	2833.9	2757.3
32.5°	1595.8	1598.2	1633.0	1656.2	1642.3	1565.6	1607.4	1821.2	1825.8	1818.8
35°	1147.5	1147.5	1180.0	1198.6	1159.1	1096.4	1103.4	1235.8	1293.9	1305.5
37.5°	792.1	794.4	850.2	905.9	861.8	845.5	817.7	905.9	998.8	1012.8
40°	601.6	599.3	627.2	669.0	673.6	643.4	652.7	708.5	803.7	815.3
42.5°	487.8	490.1	504.1	499.4	501.7	541.2	555.2	580.7	669.0	689.9
45°	411.2	413.5	420.4	397.2	387.9	448.3	466.9	480.8	555.2	580.7
47.5°	339.1	343.8	350.8	325.2	320.6	360.0	392.6	406.5	471.5	499.4
50°	243.9	248.6	274.1	260.2	274.1	283.4	327.5	348.4	392.6	429.7
52.5°	176.5	181.2	188.2	190.5	225.3	230.0	262.5	295.0	315.9	357.7
55°	139.4	144.0	139.4	134.7	164.9	190.5	202.1	236.9	253.2	302.0
57.5°	79.0	83.6	90.6	104.5	109.2	146.3	158.0	188.2	202.1	248.6
60°	13.9	16.3	25.6	62.7	76.7	92.9	118.5	144.0	162.6	195.1
62.5°	2.3	2.3	4.6	13.9	44.1	65.0	85.9	102.2	118.5	148.7
65°	0.0	0.0	2.3	4.6	11.6	37.2	46.5	60.4	81.3	106.9
67.5°	0.0	0.0	2.3	4.6	7.0	13.9	20.9	37.2	46.5	72.0
70°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	16.3	27.9	44.1
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	13.9	13.9	27.9
75°	0.0	0.0	2.3	4.6	7.0	11.6	13.9	13.9	11.6	11.6
77.5°	0.0	0.0	2.3	4.6	9.3	13.9	16.3	13.9	9.3	9.3
80°	0.0	0.0	4.6	7.0	11.6	16.3	20.9	16.3	9.3	4.6
82.5°	0.0	0.0	4.6	9.3	11.6	18.6	25.6	20.9	9.3	4.6
85°	0.0	0.0	2.3	7.0	13.9	18.6	25.6	18.6	9.3	2.3
87.5°	0.0	0.0	2.3	2.3	4.6	7.0	13.9	11.6	4.6	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637501

CATALOG NUMBER: IFLD-S-SA6A-830-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
72883.2	0°	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2	72883.2
71138.7	2.5°	71547.6	71919.2	71995.9	71893.7	72042.4	71775.2	71570.8	71041.2	70722.9
66627.7	5°	67057.4	67001.7	67389.6	67517.3	67501.1	67296.7	67011.0	66690.4	66379.1
59668.3	7.5°	60039.9	60111.9	60465.0	60690.4	60576.5	60321.0	60123.6	59882.0	59672.9
52100.3	10°	52576.5	52081.7	52520.7	52520.7	52825.0	52102.6	52170.0	51561.4	51589.2
43403.3	12.5°	43552.0	43730.9	43802.9	44009.6	43654.2	43270.9	42801.7	42708.8	42418.4
32439.3	15°	32906.2	33417.2	32978.2	33728.5	33366.1	32966.6	32894.6	32174.5	32402.1
23528.6	17.5°	23412.5	23977.0	24153.5	24583.2	24253.4	24016.4	23716.8	23498.4	23482.2
16471.7	20°	16601.8	17168.5	17298.6	17814.3	17777.1	17702.8	17449.6	17173.2	16873.5
11212.6	22.5°	11382.2	11844.5	12276.5	12971.1	12959.4	12741.1	12715.5	12325.3	12332.3
7575.0	25°	7653.9	7990.8	8093.0	8803.8	8882.8	8859.5	8727.1	8364.8	8501.8
4627.2	27.5°	4631.9	4926.9	5273.0	5523.9	5760.8	5723.6	5591.2	5389.1	5300.9
2780.5	30°	2854.8	2987.2	3115.0	3417.0	3558.7	3633.0	3570.3	3382.1	3396.1
1830.4	32.5°	1869.9	1981.4	2074.3	2264.8	2339.2	2476.2	2450.7	2411.2	2364.7
1317.1	35°	1363.5	1444.8	1507.6	1595.8	1691.1	1807.2	1825.8	1809.5	1791.0
1017.4	37.5°	1040.7	1124.3	1196.3	1233.5	1307.8	1398.4	1449.5	1447.2	1433.2
829.3	40°	845.5	908.3	973.3	1022.1	1073.2	1140.5	1203.3	1210.2	1210.2
696.9	42.5°	706.2	759.6	824.6	875.7	912.9	975.6	1040.7	1045.3	1040.7
590.0	45°	604.0	650.4	713.1	773.5	803.7	850.2	912.9	926.8	917.5
506.4	47.5°	525.0	566.8	620.2	685.3	717.8	759.6	817.7	833.9	831.6
436.7	50°	450.6	499.4	552.8	606.3	648.1	687.6	743.3	761.9	754.9
371.7	52.5°	397.2	441.4	487.8	545.9	594.7	629.5	673.6	706.2	696.9
313.6	55°	332.2	385.6	434.4	483.2	543.6	580.7	622.5	662.0	652.7
264.8	57.5°	288.0	332.2	387.9	432.1	492.5	536.6	578.4	620.2	617.9
216.0	60°	241.6	288.0	341.5	387.9	443.7	492.5	534.3	580.7	585.4
162.6	62.5°	190.5	246.2	292.7	346.1	401.9	455.3	492.5	538.9	545.9
123.1	65°	144.0	202.1	253.2	304.3	360.0	418.1	450.6	490.1	497.1
90.6	67.5°	106.9	155.6	216.0	262.5	320.6	376.3	406.5	439.0	450.6
55.7	70°	81.3	118.5	181.2	225.3	285.7	329.9	362.4	390.2	399.5
37.2	72.5°	51.1	92.9	146.3	192.8	246.2	285.7	308.9	325.2	339.1
20.9	75°	34.8	72.0	118.5	164.9	204.4	234.6	255.5	269.5	281.1
9.3	77.5°	20.9	55.7	97.6	137.1	162.6	185.8	206.7	216.0	223.0
7.0	80°	11.6	41.8	81.3	111.5	127.8	144.0	160.3	171.9	176.5
4.6	82.5°	7.0	32.5	65.0	85.9	92.9	109.2	125.4	132.4	132.4
2.3	85°	4.6	23.2	44.1	62.7	67.4	79.0	83.6	88.3	92.9
2.3	87.5°	4.6	13.9	27.9	34.8	37.2	41.8	44.1	48.8	53.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
72883.2
70488.3
66030.7
58964.4
51317.5
42153.6
32174.5
23050.1
16743.4
12197.5
8285.8
5224.2
3335.7
2348.4
1784.0
1426.3
1196.3
1036.0
917.5
827.0
750.3
694.5
657.4
620.2
587.7
550.5
504.1
455.3
404.2
336.8
278.7
220.7
171.9
130.1
90.6
51.1
0.0

(END OF REPORT)