

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: P637448

Luminaire Tested: **IFLD-M-SA4A-760-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637448  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-760-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18219.3 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

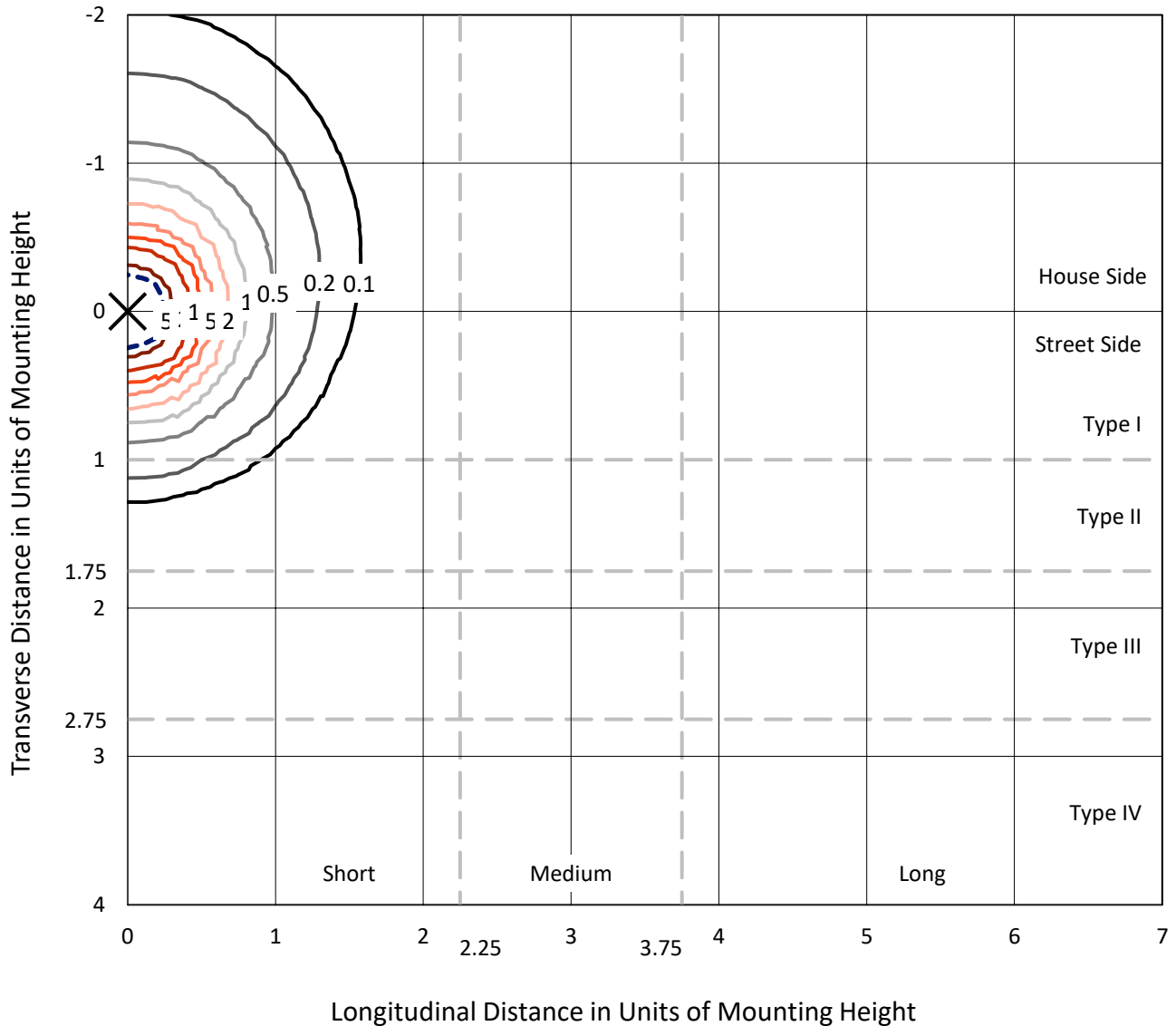
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

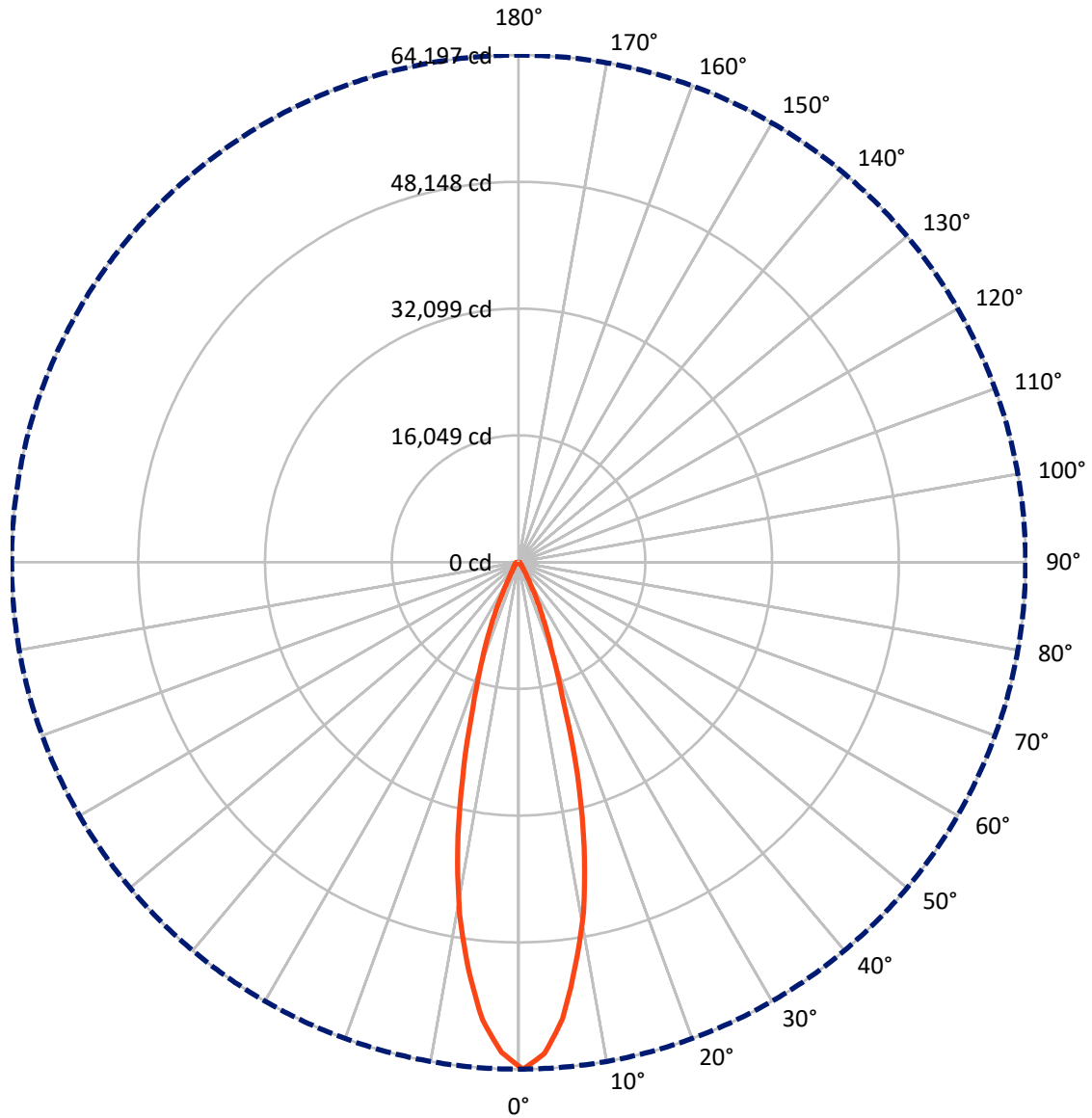
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 160.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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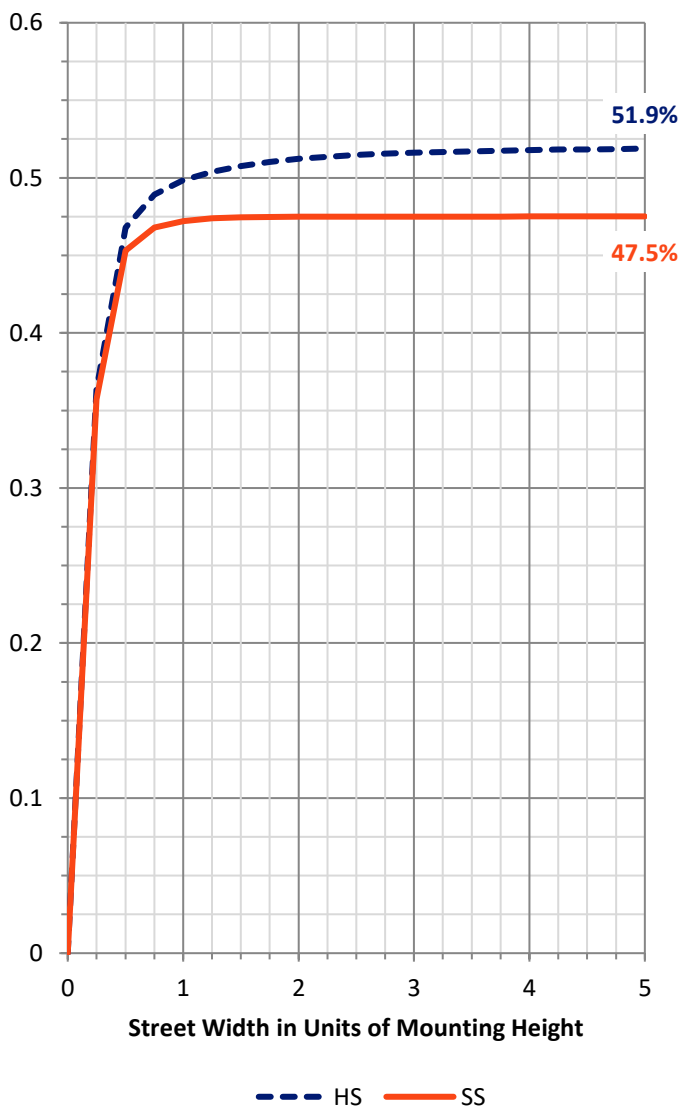
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9606.5	0.0	9606.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	8612.9	0.0	8612.9
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	18219.3	0.0	18219.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5181.3	28.4
10°-20°	7847.0	43.1
20°-30°	3311.5	18.2
30°-40°	863.7	4.7
40°-50°	436.8	2.4
50°-60°	285.5	1.6
60°-70°	171.1	0.9
70°-80°	90.0	0.5
80°-90°	32.5	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°	18219.3	100.0
0°-180°	18219.3	100.0

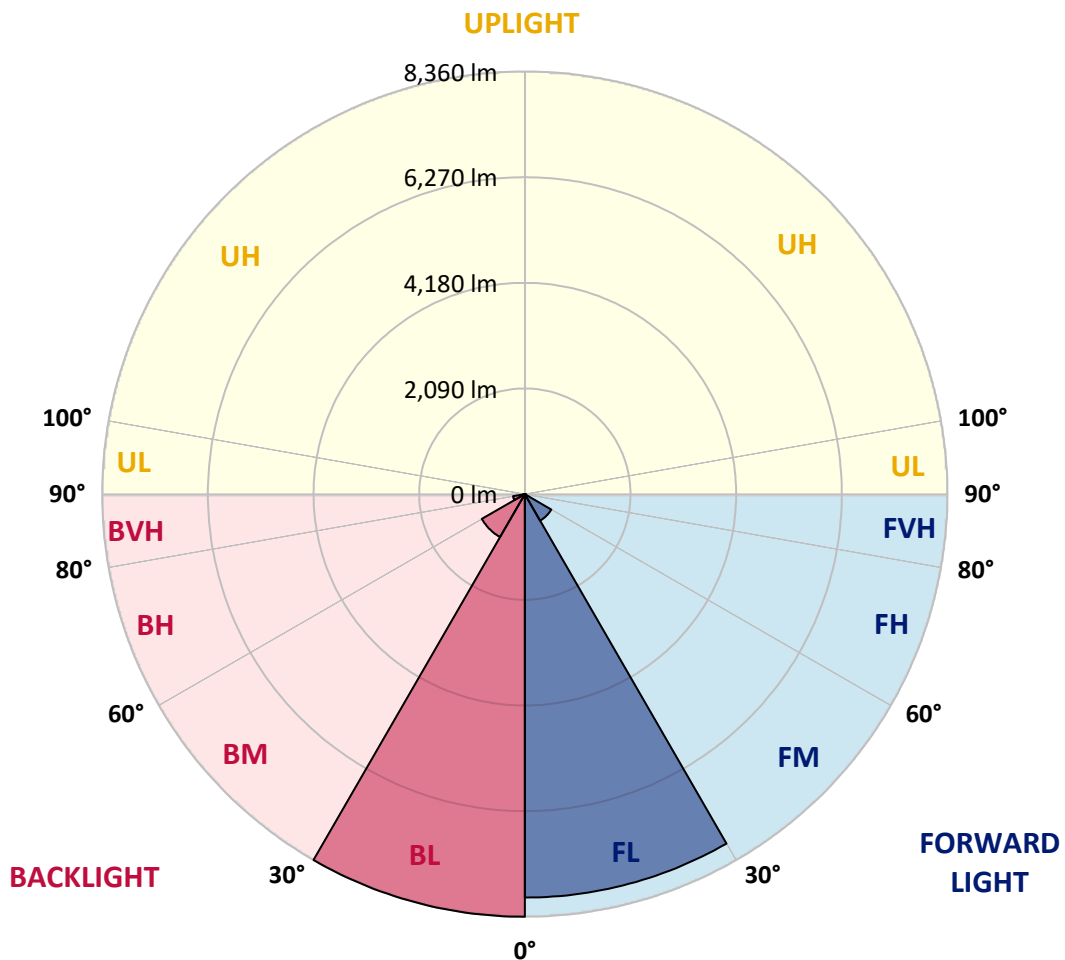


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7980.0	43.8			
FM (30°-60°)	604.3	3.3			
FH (60°-80°)	24.6	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8359.8	45.9	B5		
BM (30°-60°)	981.7	5.4	B1/1000		
BH (60°-80°)	236.4	1.3	B1/500		G0/660
BVH (80°-90°)	28.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1
2.5°	62327.0	62361.8	62232.9	62511.1	62294.3	62875.3	62586.8	63037.0	62885.6	63137.2
5°	58071.2	58013.9	57977.1	58408.8	58284.0	58908.0	58509.0	58378.1	58783.2	58709.6
7.5°	51644.5	51795.9	51710.0	51822.5	51886.0	52598.0	52823.1	52647.1	52653.2	52755.5
10°	45056.2	44833.2	44516.1	44726.8	45172.8	45483.9	45359.0	45616.8	45559.6	45803.0
12.5°	36949.7	37125.7	36947.7	36759.5	37539.0	37453.1	37670.0	37811.1	37457.2	38244.9
15°	27832.5	27924.6	28141.5	28127.1	28726.6	28847.4	28818.7	28968.1	28691.9	28822.8
17.5°	17880.5	18191.5	18774.6	19760.8	20869.8	20998.7	20965.9	20843.2	20710.2	20562.9
20°	12010.4	11977.6	12188.4	12476.9	14772.5	15380.2	15361.8	14977.1	14420.6	14314.2
22.5°	8413.4	8474.8	8446.1	8732.6	9207.3	10883.0	10676.3	10285.5	10103.4	9984.8
25°	5534.6	5512.1	5655.3	5741.2	6148.4	6353.0	7077.3	6932.0	6651.7	6682.4
27.5°	3373.9	3402.6	3455.8	3529.4	3817.9	3752.5	4165.8	4221.0	4131.0	4034.8
30°	2070.6	2091.1	2134.0	2187.2	2287.5	2215.9	2330.5	2528.9	2496.2	2428.7
32.5°	1405.6	1407.7	1438.4	1458.8	1446.6	1379.0	1415.9	1604.1	1608.2	1602.1
35°	1010.8	1010.8	1039.4	1055.8	1021.0	965.7	971.9	1088.5	1139.7	1149.9
37.5°	697.7	699.8	748.9	798.0	759.1	744.8	720.2	798.0	879.8	892.1
40°	529.9	527.9	552.4	589.3	593.4	566.8	574.9	624.0	707.9	718.2
42.5°	429.7	431.7	444.0	439.9	441.9	476.7	489.0	511.5	589.3	607.7
45°	362.2	364.2	370.3	349.9	341.7	394.9	411.3	423.5	489.0	511.5
47.5°	298.7	302.8	309.0	286.4	282.4	317.1	345.8	358.1	415.3	439.9
50°	214.8	218.9	241.4	229.2	241.4	249.6	288.5	306.9	345.8	378.5
52.5°	155.5	159.6	165.7	167.8	198.5	202.6	231.2	259.8	278.3	315.1
55°	122.8	126.9	122.8	118.7	145.3	167.8	178.0	208.7	223.0	266.0
57.5°	69.6	73.7	79.8	92.1	96.2	128.9	139.1	165.7	178.0	218.9
60°	12.3	14.3	22.5	55.2	67.5	81.8	104.3	126.9	143.2	171.9
62.5°	2.0	2.0	4.1	12.3	38.9	57.3	75.7	90.0	104.3	130.9
65°	0.0	0.0	2.0	4.1	10.2	32.7	40.9	53.2	71.6	94.1
67.5°	0.0	0.0	2.0	4.1	6.1	12.3	18.4	32.7	40.9	63.4
70°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	14.3	24.6	38.9
72.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	12.3	12.3	24.6
75°	0.0	0.0	2.0	4.1	6.1	10.2	12.3	12.3	10.2	10.2
77.5°	0.0	0.0	2.0	4.1	8.2	12.3	14.3	12.3	8.2	8.2
80°	0.0	0.0	4.1	6.1	10.2	14.3	18.4	14.3	8.2	4.1
82.5°	0.0	0.0	4.1	8.2	10.2	16.4	22.5	18.4	8.2	4.1
85°	0.0	0.0	2.0	6.1	12.3	16.4	22.5	16.4	8.2	2.0
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	12.3	10.2	4.1	2.0
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°
64197.1	0°	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1	64197.1
62660.5	2.5°	63020.6	63348.0	63415.5	63325.5	63456.4	63221.1	63041.1	62574.6	62294.3
58687.1	5°	59065.6	59016.5	59358.2	59470.7	59456.4	59276.3	59024.7	58742.3	58468.1
52557.1	7.5°	52884.4	52947.9	53258.9	53457.3	53357.1	53132.0	52958.1	52745.3	52561.2
45891.0	10°	46310.5	45874.6	46261.4	46261.4	46529.4	45893.1	45952.4	45416.3	45440.9
38230.6	12.5°	38361.5	38519.1	38582.5	38764.6	38451.6	38114.0	37700.6	37618.8	37363.0
28573.2	15°	28984.4	29434.6	29047.9	29708.7	29389.6	29037.6	28974.2	28339.9	28540.5
20724.5	17.5°	20622.2	21119.4	21274.9	21653.4	21362.9	21154.2	20890.2	20697.9	20683.6
14508.6	20°	14623.2	15122.4	15237.0	15691.2	15658.5	15593.0	15370.0	15126.5	14862.6
9876.3	22.5°	10025.7	10432.8	10813.4	11425.2	11415.0	11222.6	11200.1	10856.4	10862.5
6672.2	25°	6741.8	7038.4	7128.5	7754.6	7824.1	7803.7	7687.0	7367.9	7488.6
4075.7	27.5°	4079.8	4339.7	4644.5	4865.5	5074.2	5041.5	4924.9	4746.9	4669.1
2449.1	30°	2514.6	2631.2	2743.8	3009.8	3134.6	3200.0	3144.8	2979.1	2991.3
1612.3	32.5°	1647.1	1745.3	1827.1	1994.9	2060.4	2181.1	2158.6	2123.8	2082.9
1160.1	35°	1201.0	1272.6	1327.9	1405.6	1489.5	1591.8	1608.2	1593.9	1577.5
896.2	37.5°	916.6	990.3	1053.7	1086.5	1151.9	1231.7	1276.7	1274.7	1262.4
730.4	40°	744.8	800.0	857.3	900.3	945.3	1004.6	1059.9	1066.0	1066.0
613.8	42.5°	622.0	669.1	726.4	771.4	804.1	859.3	916.6	920.7	916.6
519.7	45°	532.0	572.9	628.1	681.3	707.9	748.9	804.1	816.4	808.2
446.0	47.5°	462.4	499.2	546.3	603.6	632.2	669.1	720.2	734.5	732.5
384.7	50°	396.9	439.9	487.0	534.0	570.8	605.6	654.7	671.1	665.0
327.4	52.5°	349.9	388.8	429.7	480.8	523.8	554.5	593.4	622.0	613.8
276.2	55°	292.6	339.6	382.6	425.6	478.8	511.5	548.3	583.1	574.9
233.3	57.5°	253.7	292.6	341.7	380.6	433.8	472.6	509.5	546.3	544.3
190.3	60°	212.8	253.7	300.8	341.7	390.8	433.8	470.6	511.5	515.6
143.2	62.5°	167.8	216.9	257.8	304.9	354.0	401.0	433.8	474.7	480.8
108.4	65°	126.9	178.0	223.0	268.0	317.1	368.3	396.9	431.7	437.9
79.8	67.5°	94.1	137.1	190.3	231.2	282.4	331.5	358.1	386.7	396.9
49.1	70°	71.6	104.3	159.6	198.5	251.7	290.5	319.2	343.7	351.9
32.7	72.5°	45.0	81.8	128.9	169.8	216.9	251.7	272.1	286.4	298.7
18.4	75°	30.7	63.4	104.3	145.3	180.1	206.7	225.1	237.3	247.6
8.2	77.5°	18.4	49.1	85.9	120.7	143.2	163.7	182.1	190.3	196.4
6.1	80°	10.2	36.8	71.6	98.2	112.5	126.9	141.2	151.4	155.5
4.1	82.5°	6.1	28.6	57.3	75.7	81.8	96.2	110.5	116.6	116.6
2.0	85°	4.1	20.5	38.9	55.2	59.3	69.6	73.7	77.8	81.8
2.0	87.5°	4.1	12.3	24.6	30.7	32.7	36.8	38.9	43.0	47.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
64197.1
62087.6
58161.2
51937.1
45201.5
37129.8
28339.9
20303.0
14748.0
10743.8
7298.3
4601.6
2938.1
2068.6
1571.4
1256.3
1053.7
912.5
808.2
728.4
660.9
611.8
579.0
546.3
517.7
484.9
444.0
401.0
356.0
296.7
245.5
194.4
151.4
114.6
79.8
45.0
0.0

(END OF REPORT)