

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: P637366

Luminaire Tested: **IFLD-L-SA7A-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637366  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29775.2 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

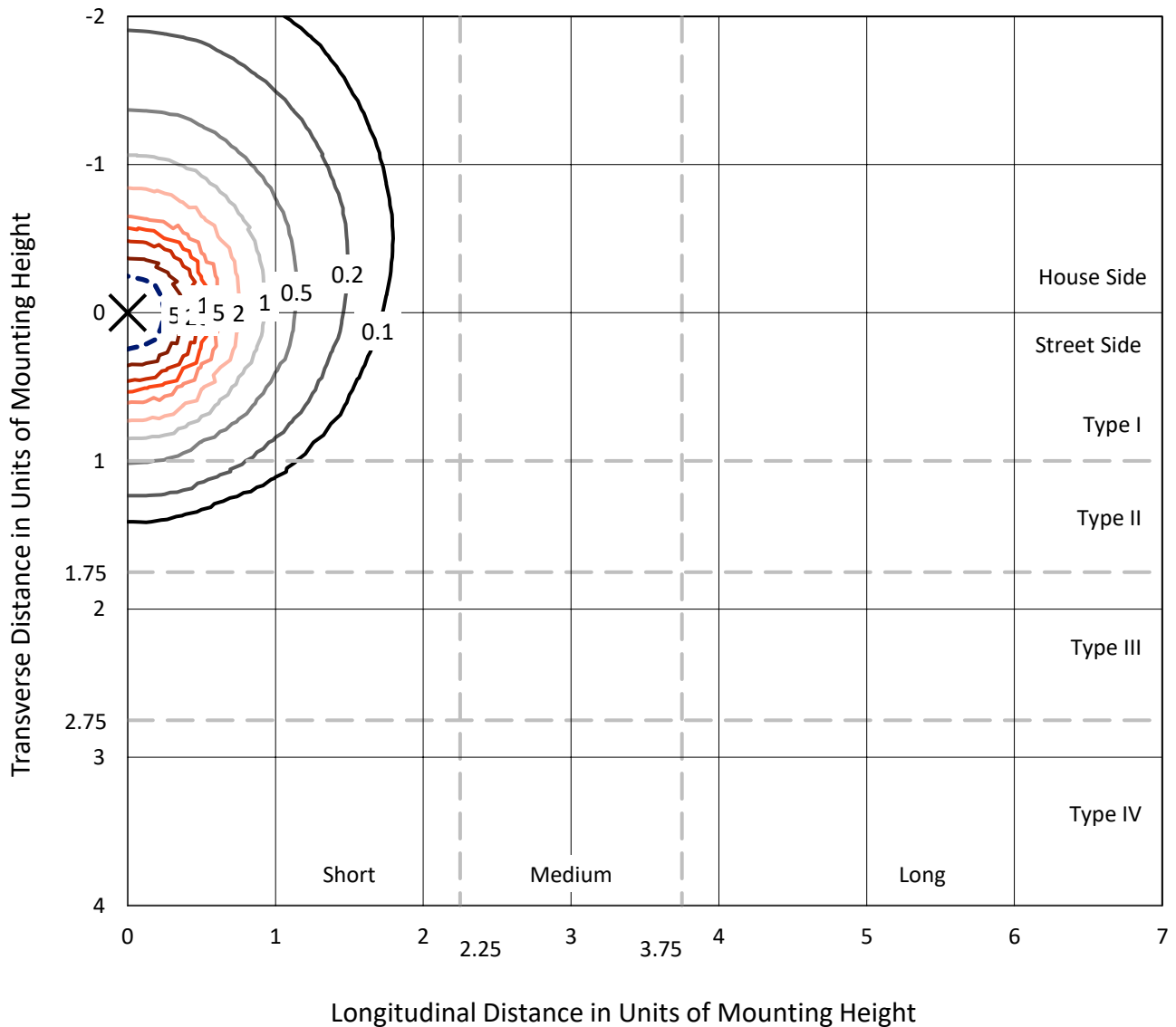
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

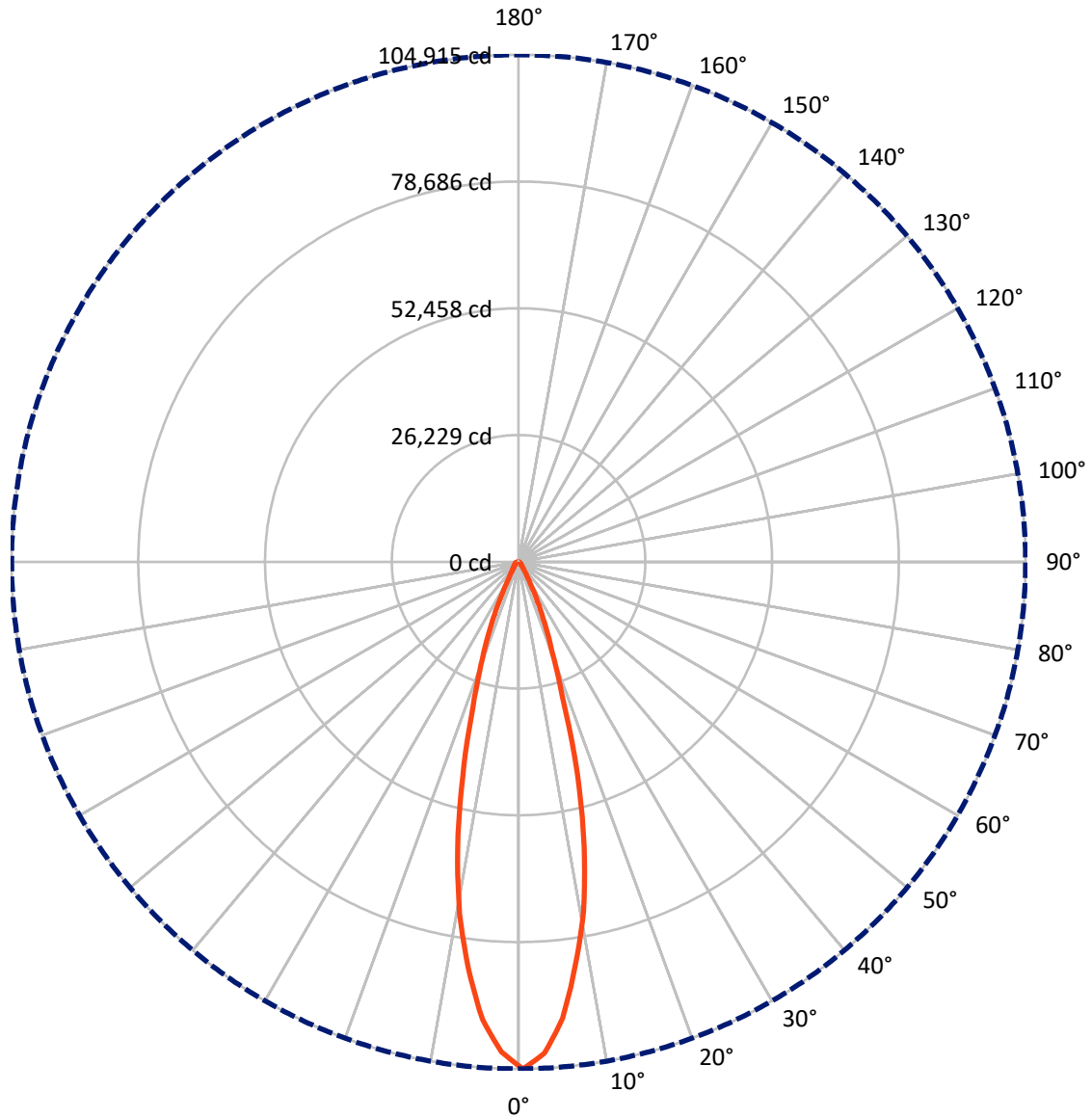
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 262.3 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	15699.5	0.0	15699.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14075.7	0.0	14075.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	29775.2	0.0	29775.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8467.6	28.4
10°-20°	12824.1	43.1
20°-30°	5411.8	18.2
30°-40°	1411.4	4.7
40°-50°	713.9	2.4
50°-60°	466.6	1.6
60°-70°	279.6	0.9
70°-80°	147.1	0.5
80°-90°	53.1	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°	29775.2	100.0
0°-180°	29775.2	100.0

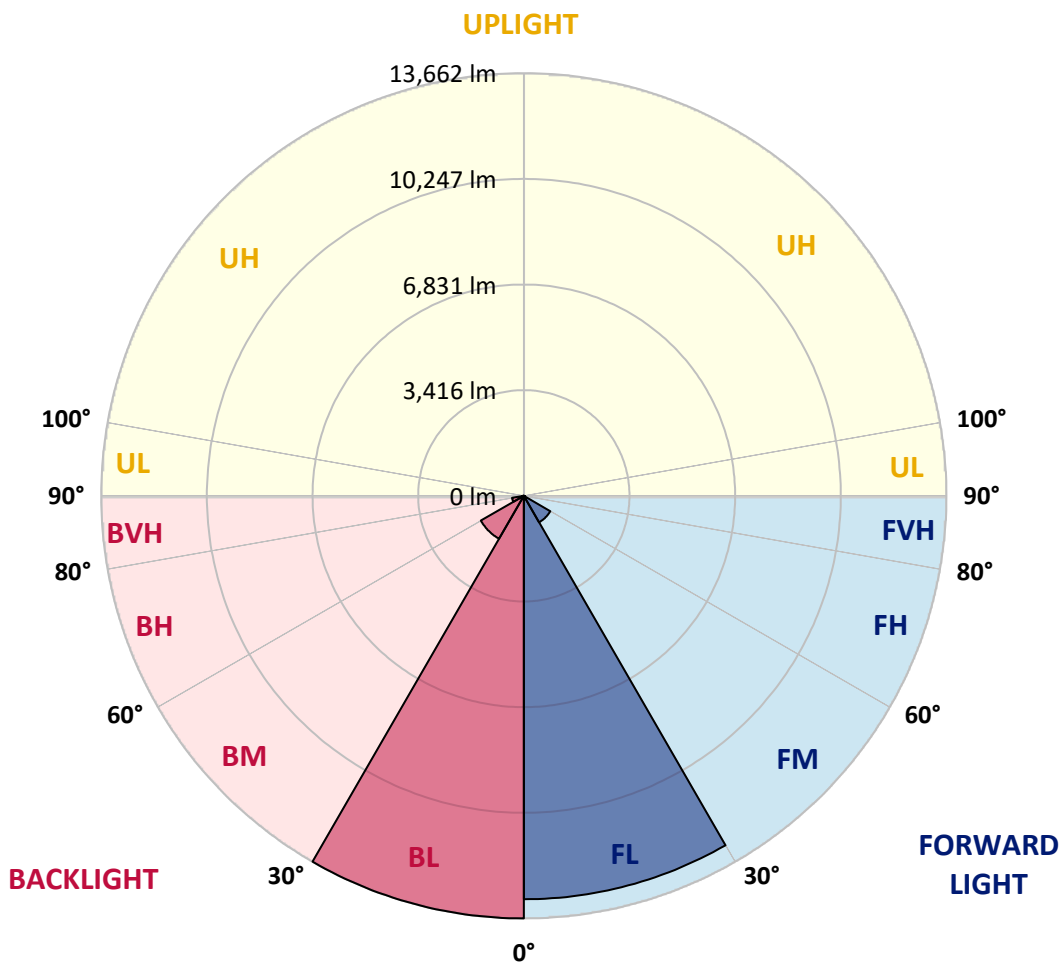


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13041.4	43.8			
FM (30°-60°)	987.7	3.3			
FH (60°-80°)	40.2	0.1			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	13662.1	45.9	B5		
BM (30°-60°)	1604.3	5.4	B2/2500		
BH (60°-80°)	386.4	1.3	B1/500		G0/660
BVH (80°-90°)	46.7	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°	104915.1	104915.1	104915.1	104915.1	104915.1	104915.1	104915.1	104915.1	104915.1	104915.1
2.5°	101858.8	101915.7	101705.0	102159.8	101805.3	102755.0	102283.5	103019.1	102771.7	103183.0
5°	94903.7	94810.1	94749.9	95455.4	95251.5	96271.3	95619.3	95405.3	96067.4	95947.0
7.5°	84400.8	84648.3	84507.8	84691.8	84795.4	85959.1	86326.9	86039.3	86049.3	86216.5
10°	73633.8	73269.3	72751.0	73095.5	73824.4	74332.7	74128.7	74550.0	74456.4	74854.3
12.5°	60385.7	60673.2	60382.3	60074.7	61348.7	61208.2	61562.7	61793.4	61214.9	62502.3
15°	45485.7	45636.2	45990.6	45967.2	46946.9	47144.2	47097.4	47341.5	46890.1	47104.1
17.5°	29221.5	29729.7	30682.7	32294.4	34106.8	34317.4	34263.9	34063.3	33845.9	33605.2
20°	19628.1	19574.6	19919.0	20390.5	24142.2	25135.3	25105.2	24476.6	23567.1	23393.2
22.5°	13749.7	13850.0	13803.2	14271.3	15047.1	17785.7	17447.9	16809.3	16511.7	16317.7
25°	9045.0	9008.2	9242.3	9382.7	10048.1	10382.5	11566.2	11328.8	10870.7	10920.8
27.5°	5513.9	5560.7	5647.7	5768.1	6239.5	6132.5	6808.0	6898.3	6751.1	6594.0
30°	3383.9	3417.4	3487.6	3574.5	3738.4	3621.3	3808.6	4132.9	4079.4	3969.1
32.5°	2297.2	2300.5	2350.7	2384.1	2364.1	2253.7	2313.9	2621.5	2628.2	2618.2
35°	1651.8	1651.8	1698.7	1725.4	1668.6	1578.3	1588.3	1778.9	1862.5	1879.2
37.5°	1140.2	1143.6	1223.8	1304.1	1240.5	1217.1	1177.0	1304.1	1437.8	1457.9
40°	866.0	862.7	902.8	963.0	969.7	926.2	939.6	1019.9	1157.0	1173.7
42.5°	702.2	705.5	725.6	718.9	722.3	779.1	799.2	835.9	963.0	993.1
45°	591.9	595.2	605.2	571.8	558.4	645.4	672.1	692.2	799.2	835.9
47.5°	488.2	494.9	504.9	468.1	461.4	518.3	565.1	585.2	678.8	718.9
50°	351.1	357.8	394.6	374.5	394.6	407.9	471.5	501.6	565.1	618.6
52.5°	254.1	260.8	270.8	274.2	324.3	331.0	377.8	424.7	454.8	514.9
55°	200.6	207.3	200.6	193.9	237.4	274.2	290.9	341.1	364.5	434.7
57.5°	113.7	120.4	130.4	150.5	157.2	210.7	227.4	270.8	290.9	357.8
60°	20.1	23.4	36.8	90.3	110.3	133.8	170.5	207.3	234.1	280.9
62.5°	3.3	3.3	6.7	20.1	63.5	93.6	123.7	147.1	170.5	214.0
65°	0.0	0.0	3.3	6.7	16.7	53.5	66.9	86.9	117.0	153.8
67.5°	0.0	0.0	3.3	6.7	10.0	20.1	30.1	53.5	66.9	103.7
70°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	23.4	40.1	63.5
72.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	20.1	20.1	40.1
75°	0.0	0.0	3.3	6.7	10.0	16.7	20.1	20.1	16.7	16.7
77.5°	0.0	0.0	3.3	6.7	13.4	20.1	23.4	20.1	13.4	13.4
80°	0.0	0.0	6.7	10.0	16.7	23.4	30.1	23.4	13.4	6.7
82.5°	0.0	0.0	6.7	13.4	16.7	26.8	36.8	30.1	13.4	6.7
85°	0.0	0.0	3.3	10.0	20.1	26.8	36.8	26.8	13.4	3.3
87.5°	0.0	0.0	3.3	3.3	6.7	10.0	20.1	16.7	6.7	3.3
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°
<b>104915.1</b>	0°	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>	<b>104915.1</b>
102403.9	2.5°	102992.4	103527.4	103637.7	103490.6	103704.6	103320.1	103025.8	102263.4	101805.3
95910.2	5°	96528.8	96448.6	97007.0	97190.9	97167.5	96873.2	96461.9	96000.5	95552.4
85892.2	7.5°	86427.2	86530.8	87039.1	87363.4	87199.6	86831.8	86547.6	86199.8	85898.9
74998.1	10°	75683.6	74971.3	75603.3	75603.3	76041.3	75001.4	75098.4	74222.3	74262.4
62478.9	12.5°	62692.9	62950.4	63054.0	63351.6	62840.0	62288.3	61612.8	61479.1	61061.1
46696.2	15°	47368.3	48103.9	47471.9	48552.0	48030.3	47455.2	47351.5	46315.0	46642.7
33869.3	17.5°	33702.2	34514.7	34768.8	35387.4	34912.6	34571.5	34140.2	33825.9	33802.5
23710.9	20°	23898.1	24714.0	24901.3	25643.6	25590.1	25483.1	25118.6	24720.7	24289.4
16140.5	22.5°	16384.6	17050.0	17672.0	18671.8	18655.1	18340.7	18304.0	17742.2	17752.2
10904.1	25°	11017.8	11502.7	11649.8	12673.0	12786.7	12753.3	12562.7	12041.0	12238.3
6660.8	27.5°	6667.5	7092.2	7590.4	7951.6	8292.6	8239.1	8048.5	7757.6	7630.6
4002.5	30°	4109.5	4300.1	4484.0	4918.7	5122.7	5229.7	5139.4	4868.6	4888.6
2634.9	32.5°	2691.8	2852.3	2986.0	3260.2	3367.2	3564.5	3527.7	3470.9	3404.0
1895.9	35°	1962.8	2079.8	2170.1	2297.2	2434.3	2601.5	2628.2	2604.8	2578.1
1464.6	37.5°	1498.0	1618.4	1722.1	1775.6	1882.6	2013.0	2086.5	2083.2	2063.1
1193.7	40°	1217.1	1307.4	1401.1	1471.3	1544.8	1641.8	1732.1	1742.1	1742.1
1003.1	42.5°	1016.5	1093.4	1187.0	1260.6	1314.1	1404.4	1498.0	1504.7	1498.0
849.3	45°	869.4	936.3	1026.5	1113.5	1157.0	1223.8	1314.1	1334.2	1320.8
728.9	47.5°	755.7	815.9	892.8	986.4	1033.2	1093.4	1177.0	1200.4	1197.1
628.6	50°	648.7	718.9	795.8	872.7	932.9	989.8	1070.0	1096.8	1086.7
535.0	52.5°	571.8	635.3	702.2	785.8	856.0	906.2	969.7	1016.5	1003.1
451.4	55°	478.2	555.1	625.3	695.5	782.4	835.9	896.1	953.0	939.6
381.2	57.5°	414.6	478.2	558.4	621.9	708.9	772.4	832.6	892.8	889.5
311.0	60°	347.8	414.6	491.5	558.4	638.7	708.9	769.1	835.9	842.6
234.1	62.5°	274.2	354.4	421.3	498.2	578.5	655.4	708.9	775.8	785.8
177.2	65°	207.3	290.9	364.5	438.0	518.3	601.9	648.7	705.5	715.6
130.4	67.5°	153.8	224.0	311.0	377.8	461.4	541.7	585.2	632.0	648.7
80.3	70°	117.0	170.5	260.8	324.3	411.3	474.8	521.6	561.8	575.1
53.5	72.5°	73.6	133.8	210.7	277.5	354.4	411.3	444.7	468.1	488.2
30.1	75°	50.2	103.7	170.5	237.4	294.3	337.7	367.8	387.9	404.6
13.4	77.5°	30.1	80.3	140.4	197.3	234.1	267.5	297.6	311.0	321.0
10.0	80°	16.7	60.2	117.0	160.5	183.9	207.3	230.7	247.4	254.1
6.7	82.5°	10.0	46.8	93.6	123.7	133.8	157.2	180.6	190.6	190.6
3.3	85°	6.7	33.4	63.5	90.3	97.0	113.7	120.4	127.1	133.8
3.3	87.5°	6.7	20.1	40.1	50.2	53.5	60.2	63.5	70.2	76.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
104915.1  
101467.6  
95050.8  
84879.0  
73871.2  
60679.9  
46315.0  
33180.5  
24102.1  
17558.3  
11927.3  
7520.2  
4801.7  
3380.6  
2568.0  
2053.1  
1722.1  
1491.3  
1320.8  
1190.4  
1080.0  
999.8  
946.3  
892.8  
846.0  
792.5  
725.6  
655.4  
581.8  
484.9  
401.3  
317.7  
247.4  
187.3  
130.4  
73.6  
0.0

(END OF REPORT)