

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: P637310

Luminaire Tested: **IFLD-L-SA7C-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637310  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35757.1 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

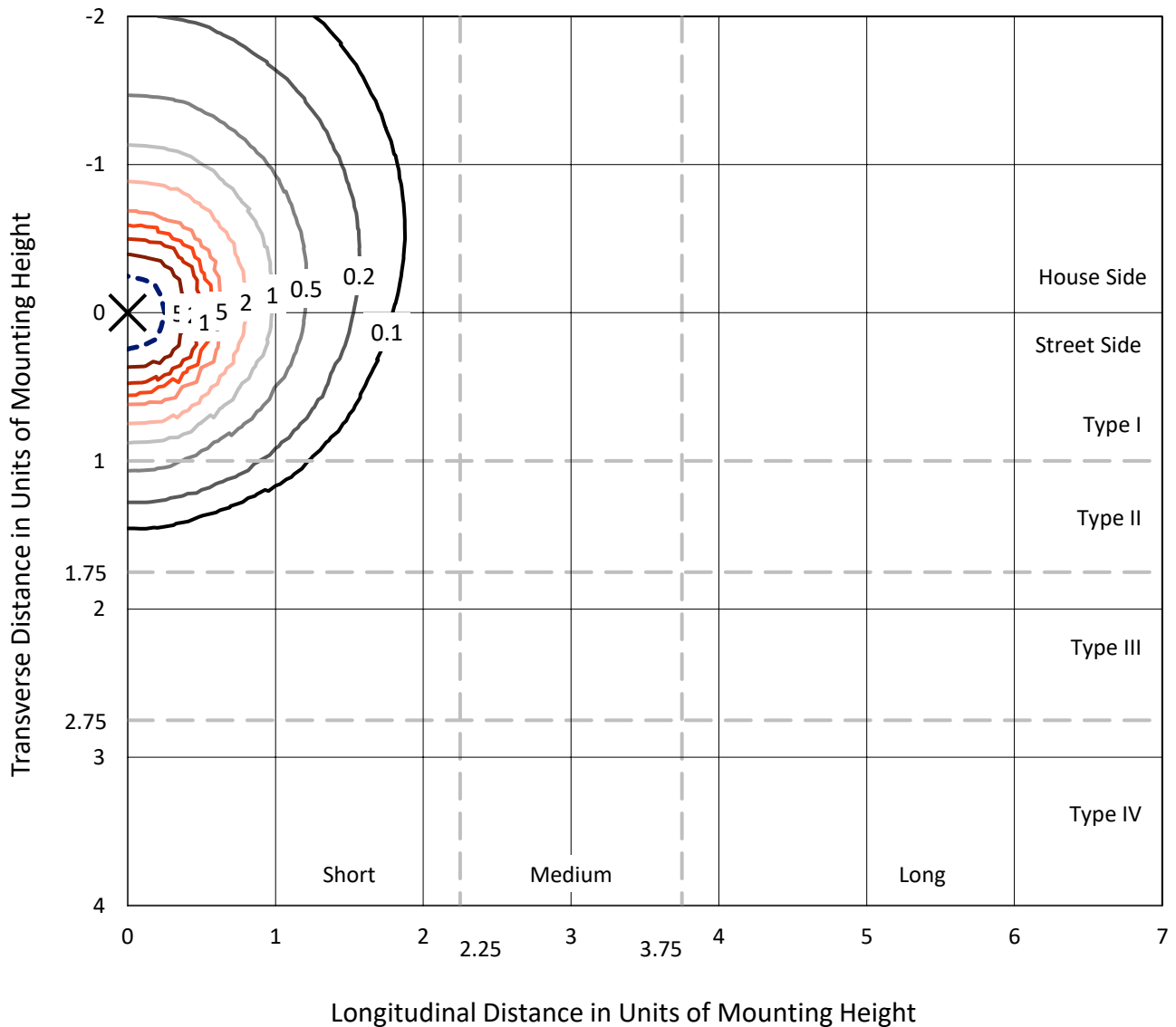
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

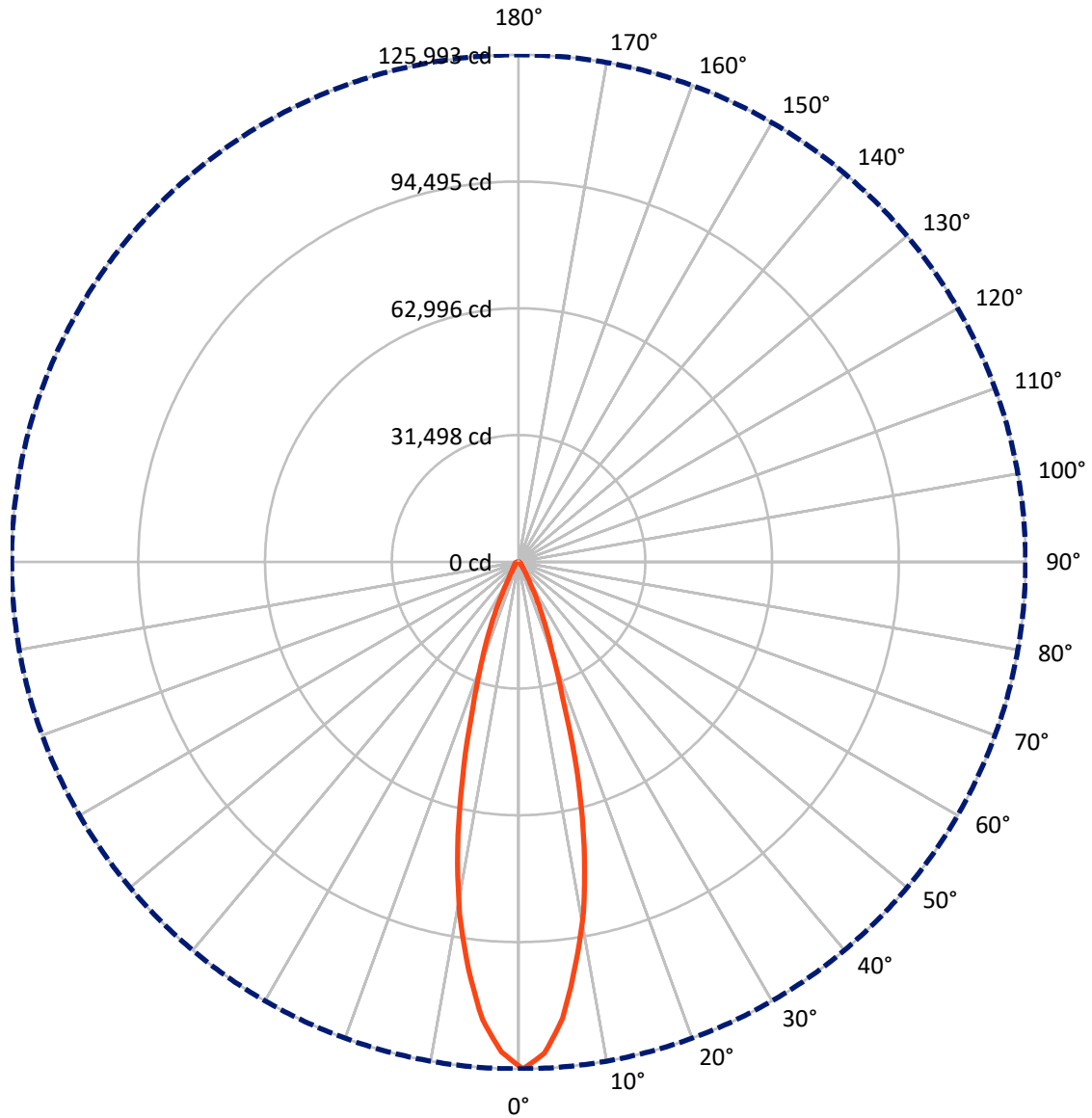
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 315 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	18853.6	0.0	18853.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16903.6	0.0	16903.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	35757.1	0.0	35757.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10168.7	28.4
10°-20°	15400.5	43.1
20°-30°	6499.1	18.2
30°-40°	1695.0	4.7
40°-50°	857.3	2.4
50°-60°	560.4	1.6
60°-70°	335.7	0.9
70°-80°	176.6	0.5
80°-90°	63.8	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°	35757.1	100.0
0°-180°	35757.1	100.0

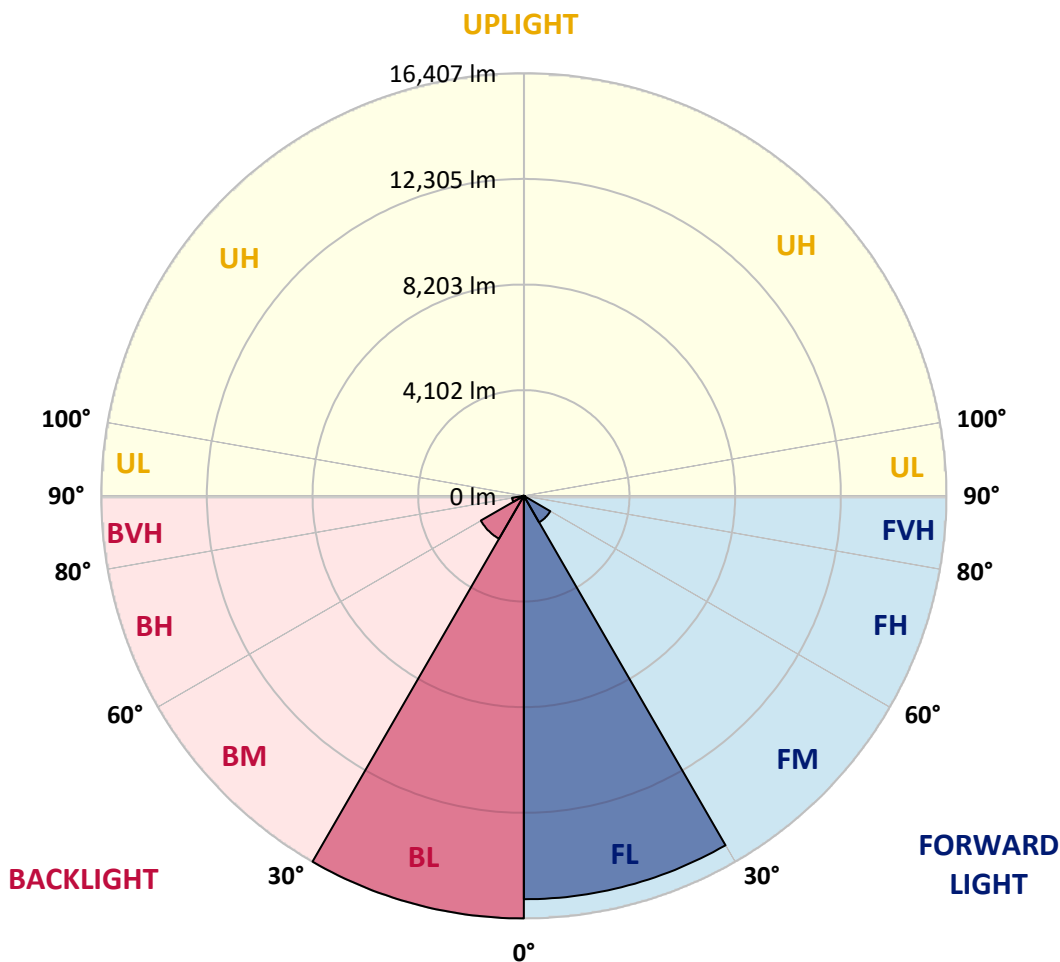


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15661.4	43.8			
FM (30°-60°)	1186.1	3.3			
FH (60°-80°)	48.3	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16406.9	45.9	B5		
BM (30°-60°)	1926.6	5.4	B2/2500		
BH (60°-80°)	464.0	1.3	B1/500		G0/660
BVH (80°-90°)	56.0	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°	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7
2.5°	122322.5	122390.7	122137.8	122683.9	122258.2	123398.6	122832.4	123715.9	123418.7	123912.6
5°	113970.1	113857.6	113785.4	114632.6	114387.7	115612.4	114829.4	114572.4	115367.5	115222.9
7.5°	101357.1	101654.3	101485.6	101706.5	101831.0	103228.4	103670.1	103324.8	103336.8	103537.6
10°	88427.0	87989.3	87366.9	87780.5	88655.9	89266.2	89021.3	89527.3	89414.8	89892.7
12.5°	72517.3	72862.6	72513.3	72143.8	73673.8	73505.1	73930.8	74207.8	73513.1	75059.1
15°	54623.9	54804.6	55230.2	55202.1	56378.7	56615.6	56559.4	56852.5	56310.4	56567.4
17.5°	35092.1	35702.5	36846.9	38782.4	40958.9	41211.9	41147.6	40906.7	40645.7	40356.5
20°	23571.4	23507.2	23920.8	24487.0	28992.5	30185.1	30148.9	29394.0	28301.8	28093.0
22.5°	16512.0	16632.5	16576.3	17138.5	18070.1	21358.8	20953.3	20186.3	19828.9	19596.0
25°	10862.1	10818.0	11099.1	11267.7	12066.8	12468.4	13889.9	13604.8	13054.6	13114.9
27.5°	6621.7	6677.9	6782.3	6926.9	7493.1	7364.6	8175.7	8284.1	8107.4	7918.7
30°	4063.8	4103.9	4188.2	4292.7	4489.4	4348.9	4573.7	4963.3	4899.0	4766.5
32.5°	2758.7	2762.7	2822.9	2863.1	2839.0	2706.5	2778.8	3148.2	3156.2	3144.2
35°	1983.7	1983.7	2039.9	2072.0	2003.8	1895.4	1907.4	2136.3	2236.7	2256.8
37.5°	1369.3	1373.3	1469.7	1566.1	1489.8	1461.7	1413.5	1566.1	1726.7	1750.8
40°	1040.0	1036.0	1084.2	1156.5	1164.5	1112.3	1128.4	1224.8	1389.4	1409.5
42.5°	843.3	847.3	871.4	863.3	867.4	935.6	959.7	1003.9	1156.5	1192.6
45°	710.8	714.8	726.8	686.7	670.6	775.0	807.1	831.2	959.7	1003.9
47.5°	586.3	594.3	606.4	562.2	554.1	622.4	678.6	702.7	815.2	863.3
50°	421.6	429.7	473.8	449.7	473.8	489.9	566.2	602.3	678.6	742.9
52.5°	305.2	313.2	325.3	329.3	389.5	397.5	453.8	510.0	546.1	618.4
55°	240.9	249.0	240.9	232.9	285.1	329.3	349.4	409.6	437.7	522.0
57.5°	136.5	144.6	156.6	180.7	188.7	253.0	273.1	325.3	349.4	429.7
60°	24.1	28.1	44.2	108.4	132.5	160.6	204.8	249.0	281.1	337.3
62.5°	4.0	4.0	8.0	24.1	76.3	112.4	148.6	176.7	204.8	257.0
65°	0.0	0.0	4.0	8.0	20.1	64.2	80.3	104.4	140.5	184.7
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	36.1	64.2	80.3	124.5
70°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	28.1	48.2	76.3
72.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	24.1	24.1	48.2
75°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	24.1	20.1	20.1
77.5°	0.0	0.0	4.0	8.0	16.1	24.1	28.1	24.1	16.1	16.1
80°	0.0	0.0	8.0	12.0	20.1	28.1	36.1	28.1	16.1	8.0
82.5°	0.0	0.0	8.0	16.1	20.1	32.1	44.2	36.1	16.1	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	44.2	32.1	16.1	4.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	24.1	20.1	8.0	4.0
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°
125992.7	0°	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7	125992.7
122977.0	2.5°	123683.7	124326.2	124458.8	124282.1	124539.1	124077.3	123723.9	122808.4	122258.2
115178.8	5°	115921.6	115825.3	116495.9	116716.7	116688.6	116335.2	115841.3	115287.2	114749.1
103148.1	7.5°	103790.6	103915.1	104525.4	104914.9	104718.2	104276.5	103935.1	103517.5	103156.1
90065.3	10°	90888.5	90033.2	90792.2	90792.2	91318.2	90069.4	90185.8	89133.7	89181.9
75031.0	12.5°	75288.0	75597.2	75721.7	76079.1	75464.7	74802.1	73991.0	73830.4	73328.4
56077.5	15°	56884.6	57768.1	57009.1	58306.2	57679.7	56989.1	56864.6	55619.7	56013.3
40673.8	17.5°	40473.0	41448.8	41754.0	42496.8	41926.6	41517.0	40999.0	40621.6	40593.5
28474.4	20°	28699.3	29679.1	29904.0	30795.4	30731.2	30602.7	30165.0	29687.2	29169.1
19383.2	22.5°	19676.3	20475.4	21222.3	22423.0	22402.9	22025.4	21981.3	21306.6	21318.7
13094.8	25°	13231.3	13813.6	13990.3	15219.0	15355.6	15315.4	15086.5	14460.1	14697.0
7999.0	27.5°	8007.1	8517.0	9115.4	9549.0	9958.6	9894.4	9665.5	9316.1	9163.5
4806.6	30°	4935.1	5164.0	5384.9	5906.9	6151.9	6280.4	6171.9	5846.7	5870.8
3164.3	32.5°	3232.5	3425.3	3585.9	3915.2	4043.7	4280.6	4236.4	4168.2	4087.9
2276.8	35°	2357.1	2497.7	2606.1	2758.7	2923.3	3124.1	3156.2	3128.1	3096.0
1758.8	37.5°	1799.0	1943.5	2068.0	2132.3	2260.8	2417.4	2505.7	2501.7	2477.6
1433.6	40°	1461.7	1570.1	1682.5	1766.9	1855.2	1971.6	2080.1	2092.1	2092.1
1204.7	42.5°	1220.7	1313.1	1425.5	1513.9	1578.1	1686.5	1799.0	1807.0	1799.0
1020.0	45°	1044.0	1124.4	1232.8	1337.2	1389.4	1469.7	1578.1	1602.2	1586.2
875.4	47.5°	907.5	979.8	1072.2	1184.6	1240.8	1313.1	1413.5	1441.6	1437.6
754.9	50°	779.0	863.3	955.7	1048.1	1120.3	1188.6	1285.0	1317.1	1305.1
642.5	52.5°	686.7	763.0	843.3	943.7	1028.0	1088.2	1164.5	1220.7	1204.7
542.1	55°	574.2	666.6	750.9	835.2	939.6	1003.9	1076.2	1144.4	1128.4
457.8	57.5°	497.9	574.2	670.6	746.9	851.3	927.6	999.9	1072.2	1068.1
373.4	60°	417.6	497.9	590.3	670.6	767.0	851.3	923.6	1003.9	1011.9
281.1	62.5°	329.3	425.7	506.0	598.3	694.7	787.1	851.3	931.6	943.7
212.8	65°	249.0	349.4	437.7	526.0	622.4	722.8	779.0	847.3	859.3
156.6	67.5°	184.7	269.0	373.4	453.8	554.1	650.5	702.7	758.9	779.0
96.4	70°	140.5	204.8	313.2	389.5	493.9	570.2	626.4	674.6	690.7
64.2	72.5°	88.3	160.6	253.0	333.3	425.7	493.9	534.1	562.2	586.3
36.1	75°	60.2	124.5	204.8	285.1	353.4	405.6	441.7	465.8	485.9
16.1	77.5°	36.1	96.4	168.7	236.9	281.1	321.2	357.4	373.4	385.5
12.0	80°	20.1	72.3	140.5	192.7	220.9	249.0	277.1	297.2	305.2
8.0	82.5°	12.0	56.2	112.4	148.6	160.6	188.7	216.8	228.9	228.9
4.0	85°	8.0	40.2	76.3	108.4	116.5	136.5	144.6	152.6	160.6
4.0	87.5°	8.0	24.1	48.2	60.2	64.2	72.3	76.3	84.3	92.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
125992.7  
121852.6  
114146.8  
101931.4  
88712.1  
72870.7  
55619.7  
39846.6  
28944.3  
21085.8  
14323.6  
9031.0  
5766.4  
4059.7  
3084.0  
2465.6  
2068.0  
1790.9  
1586.2  
1429.5  
1297.0  
1200.7  
1136.4  
1072.2  
1015.9  
951.7  
871.4  
787.1  
698.7  
582.3  
481.9  
381.5  
297.2  
224.9  
156.6  
88.3  
0.0

(END OF REPORT)