

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: P637038

Luminaire Tested: **IFLD-S-SA6B-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637038  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27761.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

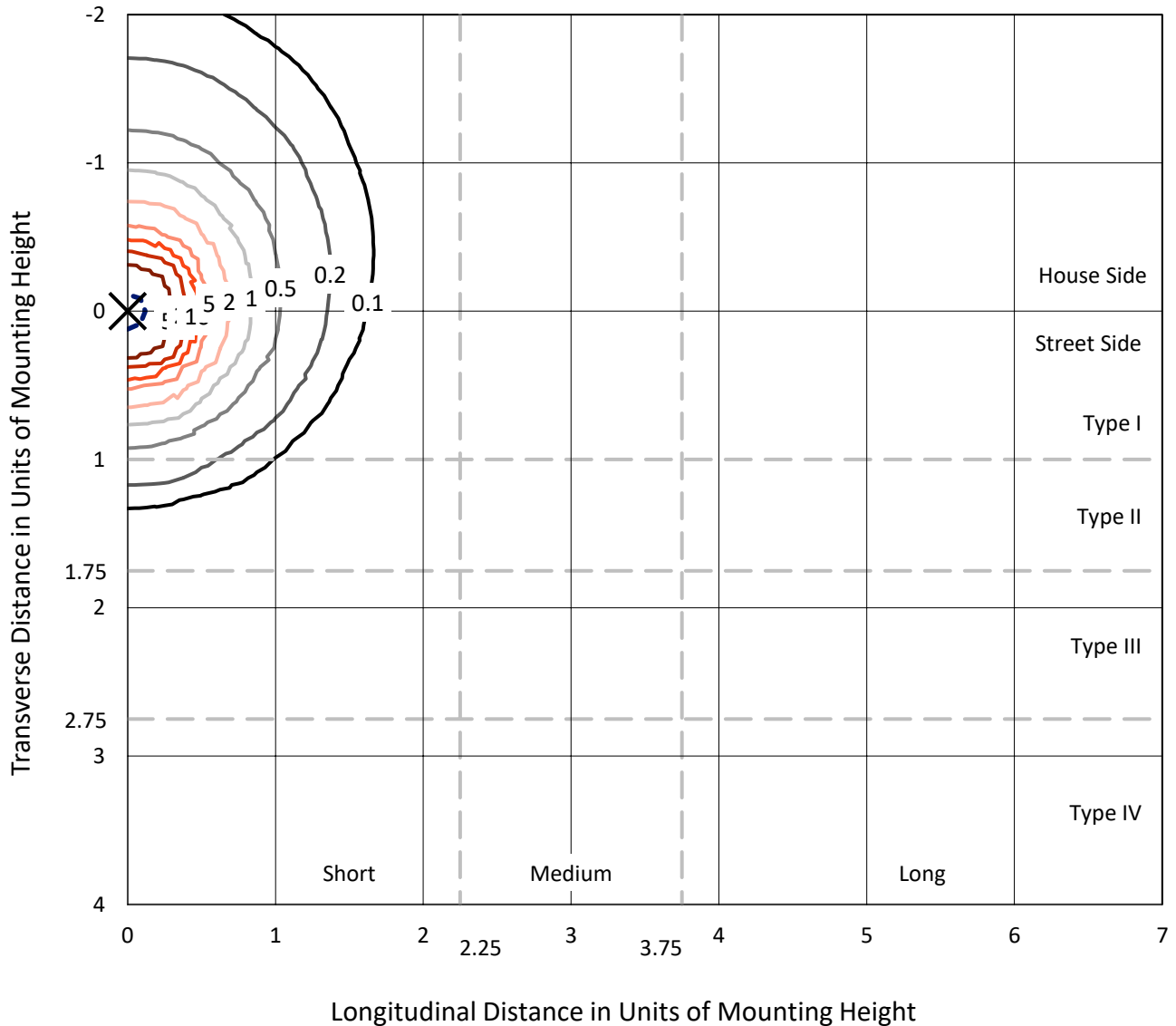
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

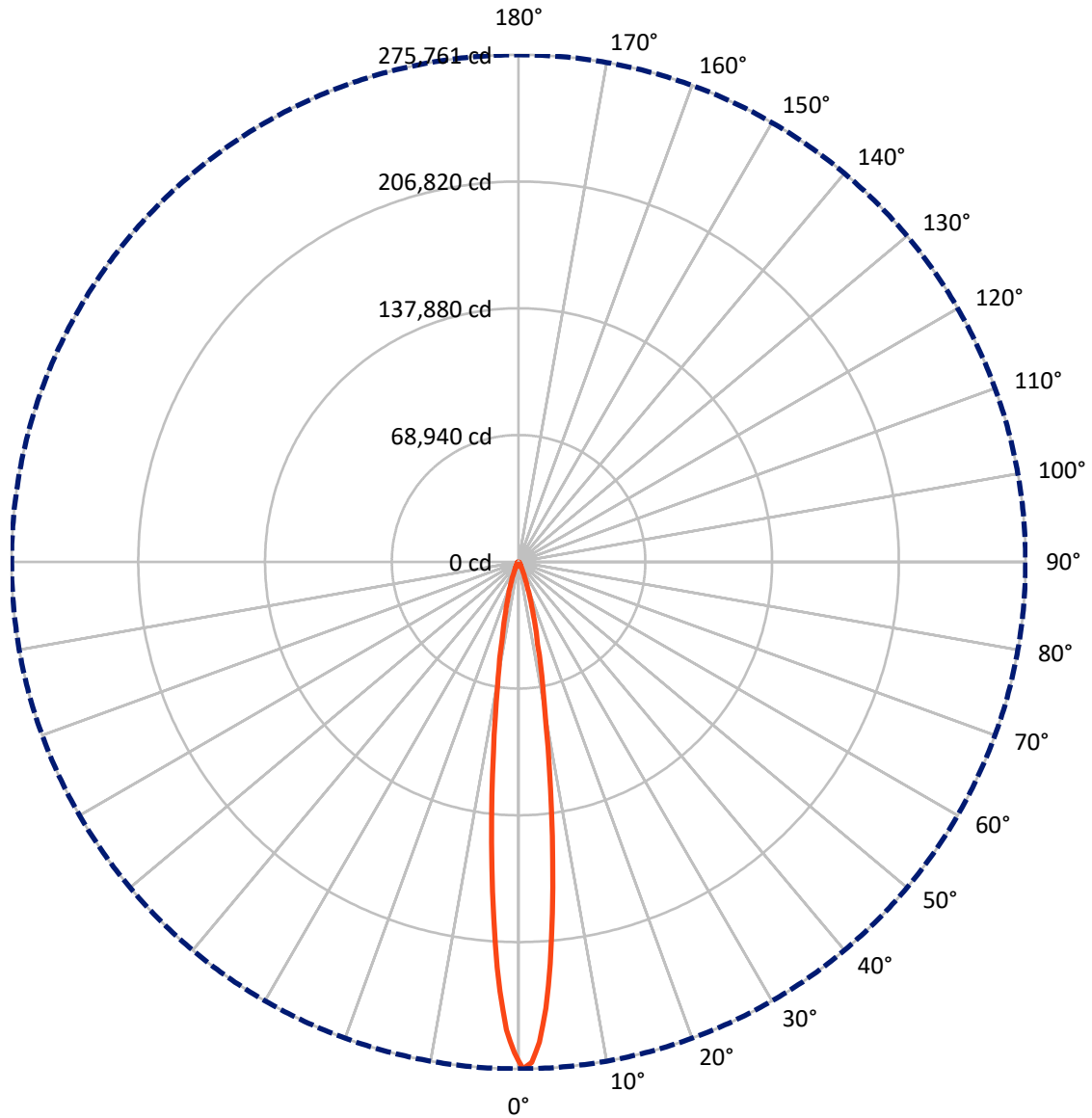
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 689.4 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	14218.9	0.0	14218.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13542.5	0.0	13542.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	27761.4	0.0	27761.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14014.8	50.5
10°-20°	8972.2	32.3
20°-30°	2696.9	9.7
30°-40°	878.1	3.2
40°-50°	510.9	1.8
50°-60°	339.4	1.2
60°-70°	204.3	0.7
70°-80°	105.0	0.4
80°-90°	39.9	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°	27761.4	100.0
0°-180°	27761.4	100.0

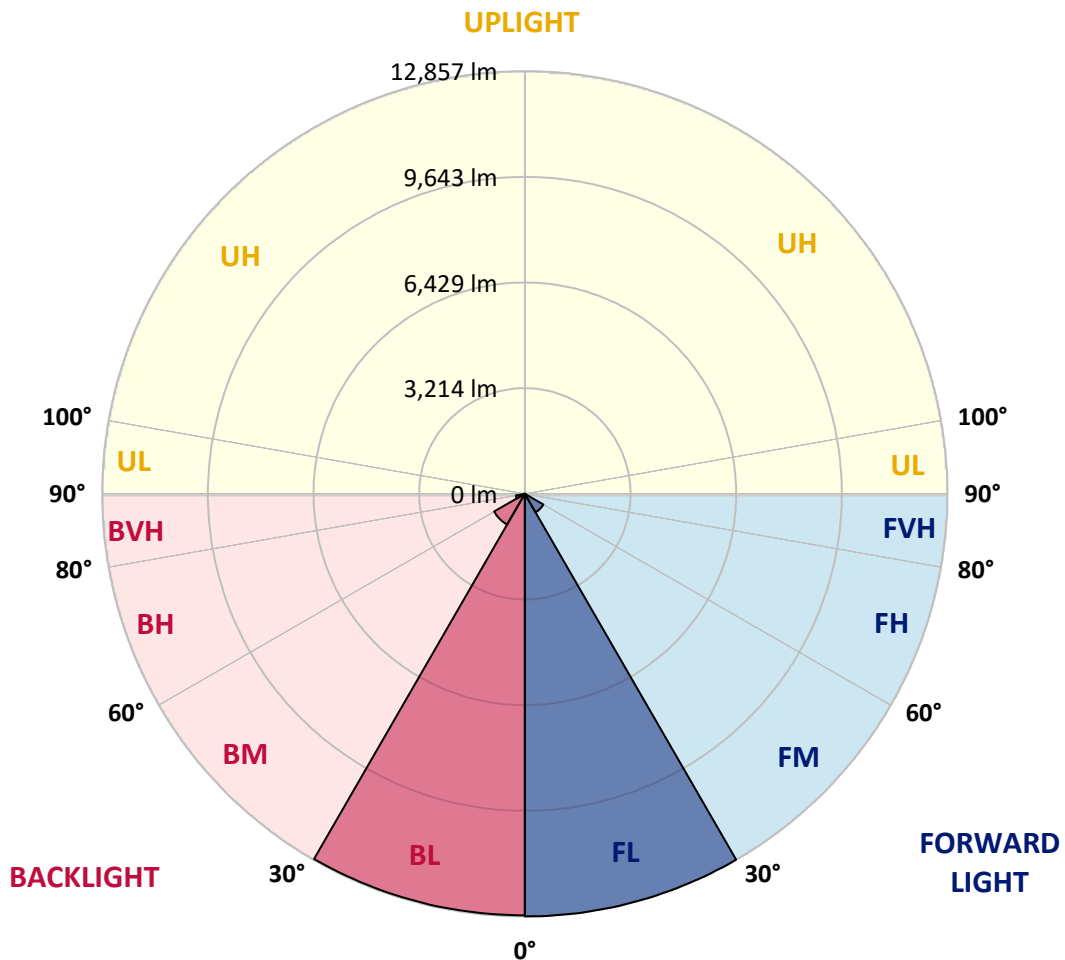


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12857.2	46.3			
FM (30°-60°)	648.8	2.3			
FH (60°-80°)	30.5	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12826.7	46.2	B5		
BM (30°-60°)	1079.6	3.9	B2/2500		
BH (60°-80°)	278.7	1.0	B1/500		G0/660
BVH (80°-90°)	33.9	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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5
1°	272458.7	271627.2	269480.4	271007.3	272349.8	271959.8	271932.5	271787.4	271584.8	273175.3
2°	261567.5	261029.2	257854.4	259163.6	261071.6	259680.7	260551.5	259786.5	259801.6	261700.5
3°	243207.8	243501.1	238436.5	240816.1	243467.8	240096.5	241142.7	243108.0	241048.9	240429.1
4°	219345.1	216799.2	214032.5	216451.5	217137.8	215175.5	217104.6	219511.4	216651.0	216778.0
5°	192102.0	190221.3	186946.6	188440.3	186738.0	187357.8	190248.5	191240.2	189244.6	186732.0
6°	164090.8	162754.4	158660.3	160813.2	160208.4	159857.7	163507.2	160483.6	161572.1	160051.2
7°	136490.9	133993.3	131982.6	134044.7	134177.8	133122.5	137860.6	137310.3	135329.8	134870.2
8°	113084.8	110593.3	108890.9	110427.0	111430.8	109773.8	112002.3	113465.7	111917.6	112056.7
9°	91208.6	90770.2	88402.6	90410.4	91501.9	89727.0	92194.3	92723.4	91275.1	91979.6
10°	74889.9	74378.9	72489.1	73302.5	75110.7	72994.1	75361.6	75534.0	74378.9	74708.5
12.5°	46280.1	46074.5	46023.1	46141.0	46116.8	46491.7	47096.5	46407.1	46316.4	45176.5
15°	29913.0	30218.4	29904.0	30508.7	30596.4	30950.1	30581.3	30024.9	28963.6	28437.5
17.5°	18668.1	19058.1	19596.3	20482.2	21368.2	21471.0	20981.2	20328.0	19814.0	19251.6
20°	10740.0	10930.5	10848.9	11910.2	14202.1	14825.0	14193.0	13506.7	12886.8	12318.4
22.5°	6673.2	6603.7	6730.7	7087.5	7834.3	9760.4	9243.3	8556.9	8106.4	7637.8
25°	4091.0	4166.6	4118.2	4314.8	4650.4	5466.8	5584.7	5288.4	5058.6	4816.7
27.5°	2633.6	2633.6	2654.8	2763.6	2993.4	2966.2	3595.1	3365.3	3241.4	3123.4
30°	1829.3	1835.4	1835.4	1898.9	1950.3	1859.5	2022.8	2319.1	2261.7	2171.0
32.5°	1357.6	1375.8	1390.9	1424.1	1381.8	1285.1	1324.4	1669.1	1635.8	1602.5
35°	1034.1	1049.2	1085.5	1103.6	1043.2	982.7	946.4	1227.6	1242.7	1233.7
37.5°	752.9	762.0	828.5	898.0	828.5	774.1	752.9	943.4	1015.9	1006.9
40°	577.5	580.5	592.6	671.3	671.3	628.9	635.0	704.5	831.5	831.5
42.5°	495.9	495.9	508.0	495.9	498.9	544.3	559.4	568.4	704.5	704.5
45°	429.4	429.4	435.4	405.2	374.9	468.7	480.8	483.8	592.6	607.8
47.5°	359.8	359.8	371.9	332.6	317.5	371.9	405.2	414.2	511.0	523.1
50°	266.1	269.1	305.4	272.1	281.2	287.2	350.7	356.8	432.4	459.6
52.5°	178.4	178.4	184.4	211.7	244.9	235.8	284.2	305.4	344.7	381.0
55°	145.1	145.1	142.1	136.1	181.4	196.5	208.6	254.0	281.2	326.6
57.5°	99.8	105.8	96.8	111.9	117.9	148.2	157.2	199.6	214.7	275.2
60°	12.1	15.1	21.2	81.6	78.6	99.8	117.9	157.2	175.4	211.7
62.5°	3.0	3.0	6.0	15.1	54.4	66.5	93.7	108.9	127.0	163.3
65°	0.0	0.0	3.0	6.0	12.1	36.3	48.4	63.5	90.7	114.9
67.5°	0.0	0.0	3.0	6.0	6.0	15.1	24.2	39.3	48.4	84.7
70°	0.0	0.0	3.0	6.0	6.0	12.1	15.1	18.1	33.3	45.4
72.5°	0.0	0.0	3.0	6.0	9.1	12.1	15.1	15.1	15.1	30.2
75°	0.0	0.0	3.0	6.0	9.1	12.1	15.1	15.1	12.1	12.1
77.5°	0.0	0.0	3.0	6.0	12.1	15.1	18.1	15.1	9.1	9.1
80°	0.0	0.0	3.0	9.1	15.1	21.2	24.2	18.1	9.1	6.0
82.5°	0.0	0.0	6.0	12.1	18.1	24.2	33.3	27.2	12.1	6.0
85°	0.0	0.0	3.0	9.1	18.1	24.2	48.4	33.3	15.1	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.0	18.1	12.1	6.0	3.0
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°
275760.5	0°	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5	275760.5
271339.9	1°	273235.7	273426.2	272803.4	273767.9	273429.3	271445.7	270789.6	270012.5
260584.8	2°	259786.5	260757.1	260805.5	261875.9	261860.7	259547.6	258831.0	260152.4
241686.9	3°	240955.2	242086.0	241067.1	242968.9	242397.5	239591.5	238862.8	240362.5
217781.9	4°	217131.8	216917.1	216566.4	215483.9	216817.3	214903.4	213461.1	215496.0
190064.0	5°	189683.0	189205.3	188522.0	188201.4	189193.2	187968.6	185002.4	187974.7
162802.7	6°	163002.3	160946.2	160846.4	160668.0	160767.8	157339.0	157544.6	159757.9
133288.8	7°	134697.8	135075.8	134304.8	135541.4	134598.1	132275.9	131380.9	133712.1
112667.5	8°	111881.3	111403.6	110814.0	112661.4	111025.6	109501.7	108458.6	110300.0
92094.5	9°	91922.2	91096.7	90498.0	90404.3	90658.3	87797.9	88378.5	89772.4
74889.9	10°	74917.1	73562.5	73892.1	73979.8	73701.6	71827.0	71845.1	72325.9
45932.4	12.5°	45769.1	45103.9	45270.2	45360.9	45926.3	45267.2	44335.9	43664.6
28960.6	15°	28767.1	28289.3	29266.0	29922.1	29789.1	29202.5	28764.0	28156.3
19251.6	17.5°	19073.2	19699.1	19702.1	20300.8	20361.3	19774.7	19436.1	18888.8
12521.0	20°	12475.6	12735.6	13276.9	13700.2	13945.1	13497.6	13092.4	12717.5
7807.1	22.5°	7807.1	8260.6	8599.3	9149.6	9373.3	9046.8	8759.5	8454.1
4874.1	25°	4792.5	5116.0	5397.2	5875.0	6180.4	6023.1	5760.1	5545.4
3147.6	27.5°	3196.0	3332.1	3471.2	3800.7	4118.2	4030.5	3924.7	3794.7
2219.4	30°	2252.6	2264.7	2412.9	2597.3	2809.0	2863.4	2815.0	2748.5
1629.8	32.5°	1660.0	1708.4	1777.9	1892.8	2034.9	2164.9	2140.7	2110.5
1245.7	35°	1282.0	1354.6	1412.0	1499.7	1575.3	1699.3	1720.5	1711.4
1025.0	37.5°	1046.2	1109.7	1167.1	1218.5	1282.0	1366.7	1433.2	1436.2
846.6	40°	867.8	925.2	1000.8	1040.1	1085.5	1149.0	1230.6	1236.7
716.6	42.5°	731.7	786.2	861.7	910.1	943.4	1003.9	1085.5	1097.6
613.8	45°	628.9	662.2	740.8	798.2	831.5	870.8	958.5	970.6
529.1	47.5°	547.3	580.5	628.9	710.6	740.8	777.1	846.6	867.8
468.7	50°	480.8	514.0	556.4	628.9	674.3	704.5	762.0	792.2
408.2	52.5°	426.3	459.6	505.0	562.4	613.8	641.0	695.4	734.7
332.6	55°	356.8	414.2	447.5	498.9	568.4	592.6	635.0	686.4
290.3	57.5°	311.4	359.8	408.2	450.5	520.1	550.3	592.6	641.0
229.8	60°	263.1	308.4	365.9	402.1	468.7	508.0	553.3	598.7
175.4	62.5°	208.6	269.1	308.4	359.8	423.3	474.7	511.0	556.4
136.1	65°	154.2	220.7	266.1	320.5	381.0	435.4	465.6	514.0
96.8	67.5°	111.9	172.3	226.8	278.2	335.6	390.1	420.3	462.6
60.5	70°	87.7	127.0	187.5	232.8	293.3	338.6	371.9	399.1
39.3	72.5°	51.4	96.8	151.2	202.6	257.0	287.2	311.4	335.6
18.1	75°	33.3	75.6	124.0	169.3	208.6	235.8	257.0	278.2
9.1	77.5°	21.2	54.4	99.8	142.1	160.3	193.5	211.7	223.8
6.0	80°	12.1	42.3	87.7	114.9	130.0	151.2	169.3	184.4
6.0	82.5°	9.1	36.3	72.6	96.8	96.8	120.9	130.0	130.0
3.0	85°	6.0	30.2	57.4	90.7	72.6	90.7	84.7	84.7
3.0	87.5°	6.0	21.2	27.2	39.3	33.3	39.3	39.3	45.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
275760.5  
266934.4  
254555.6  
233701.4  
208130.4  
180143.4  
153341.7  
127371.5  
105041.8  
85418.3  
69054.3  
43256.4  
27844.9  
18752.7  
12587.5  
8290.9  
5421.4  
3719.1  
2703.1  
2086.3  
1681.2  
1415.1  
1227.6  
1088.5  
967.6  
870.8  
795.2  
734.7  
689.4  
644.0  
610.8  
577.5  
523.1  
465.6  
408.2  
341.7  
278.2  
217.7  
166.3  
120.9  
81.6  
45.4  
0.0

(END OF REPORT)