

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: P637044

Luminaire Tested: **IFLD-M-SA4C-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637044  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23646.2 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

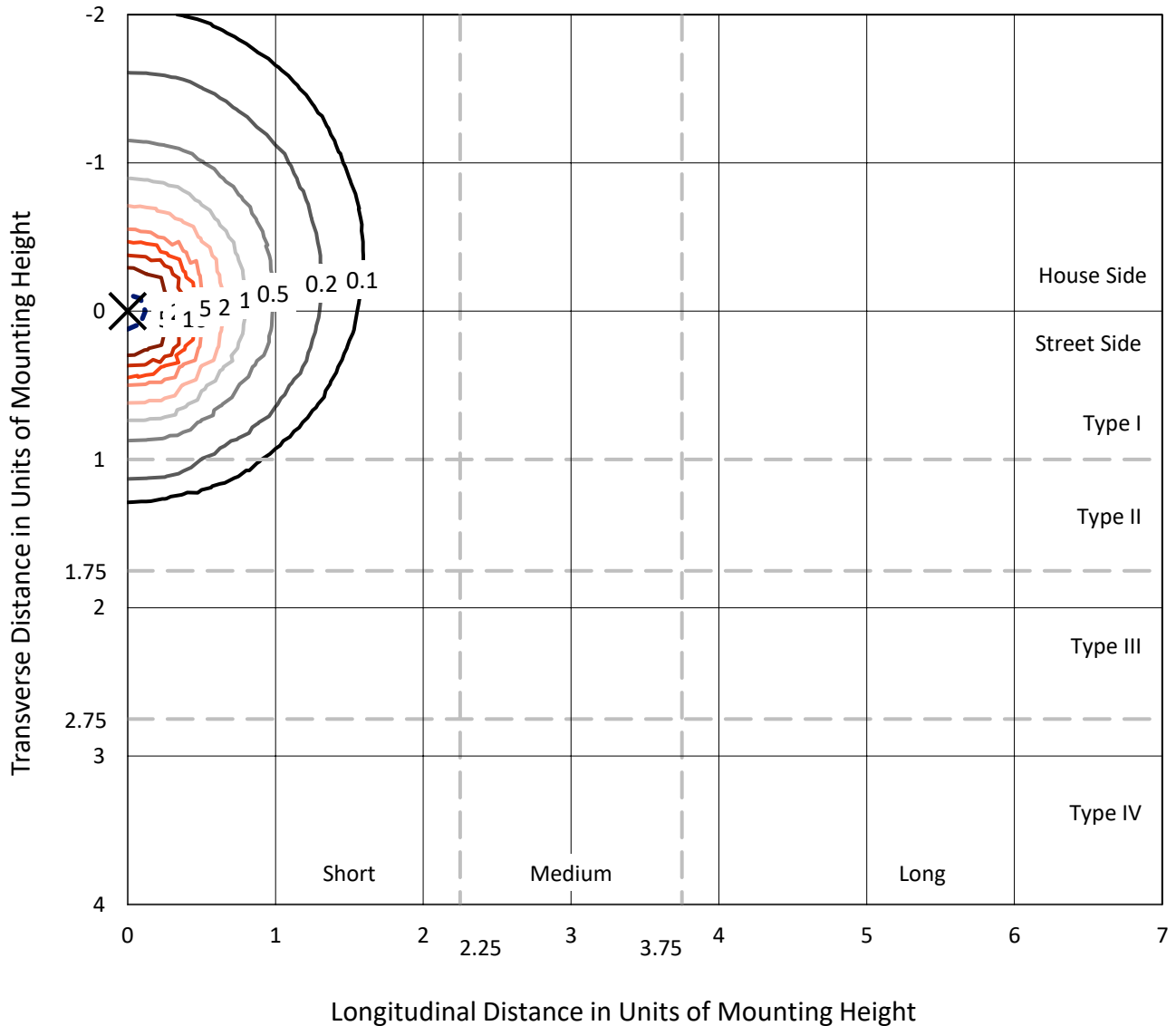
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

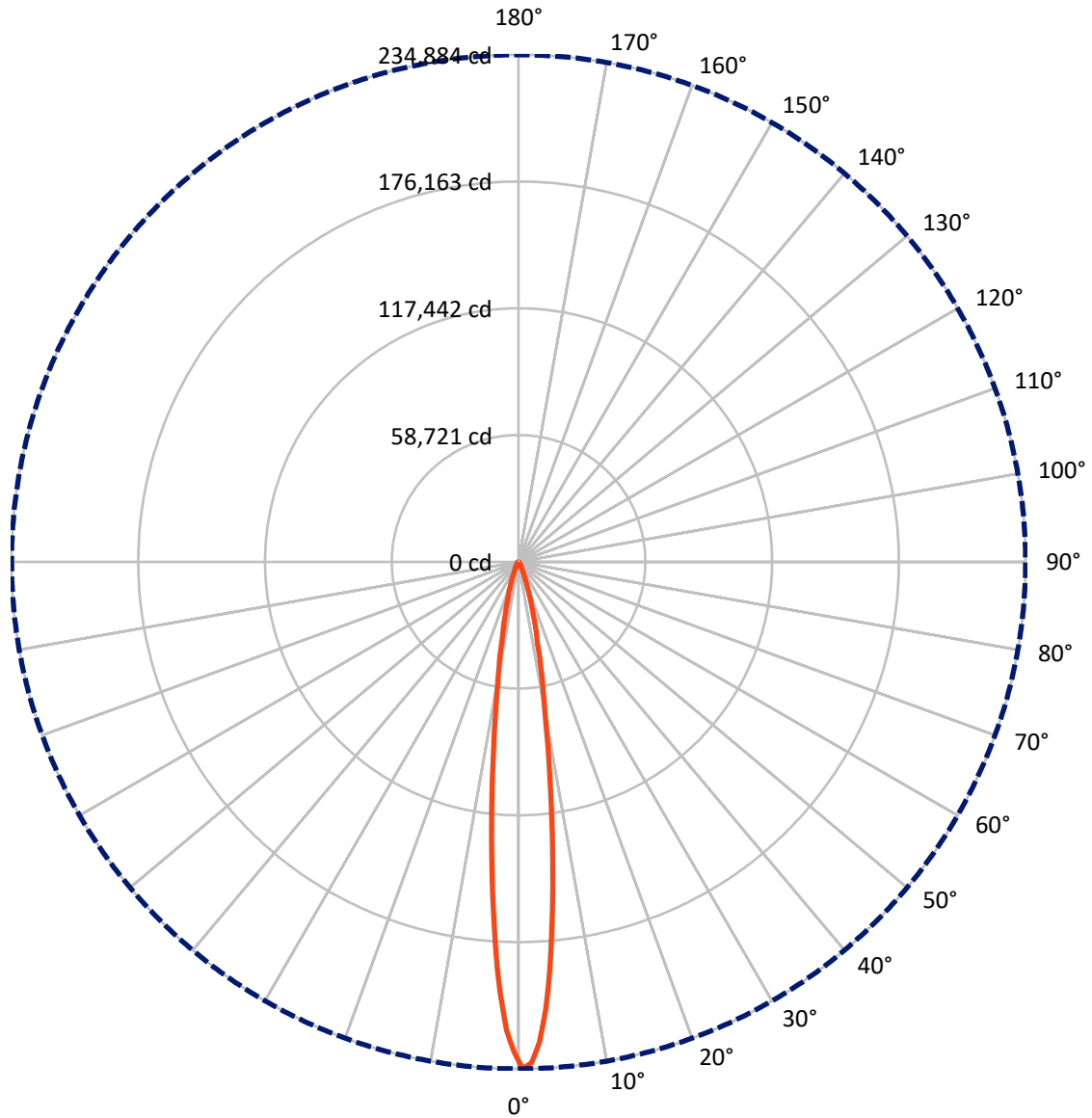
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 587.2 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	12111.1	0.0	12111.1
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	11535.1	0.0	11535.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	23646.2	0.0	23646.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11937.3	50.5
10°-20°	7642.2	32.3
20°-30°	2297.1	9.7
30°-40°	747.9	3.2
40°-50°	435.2	1.8
50°-60°	289.1	1.2
60°-70°	174.0	0.7
70°-80°	89.4	0.4
80°-90°	34.0	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°	23646.2	100.0
0°-180°	23646.2	100.0

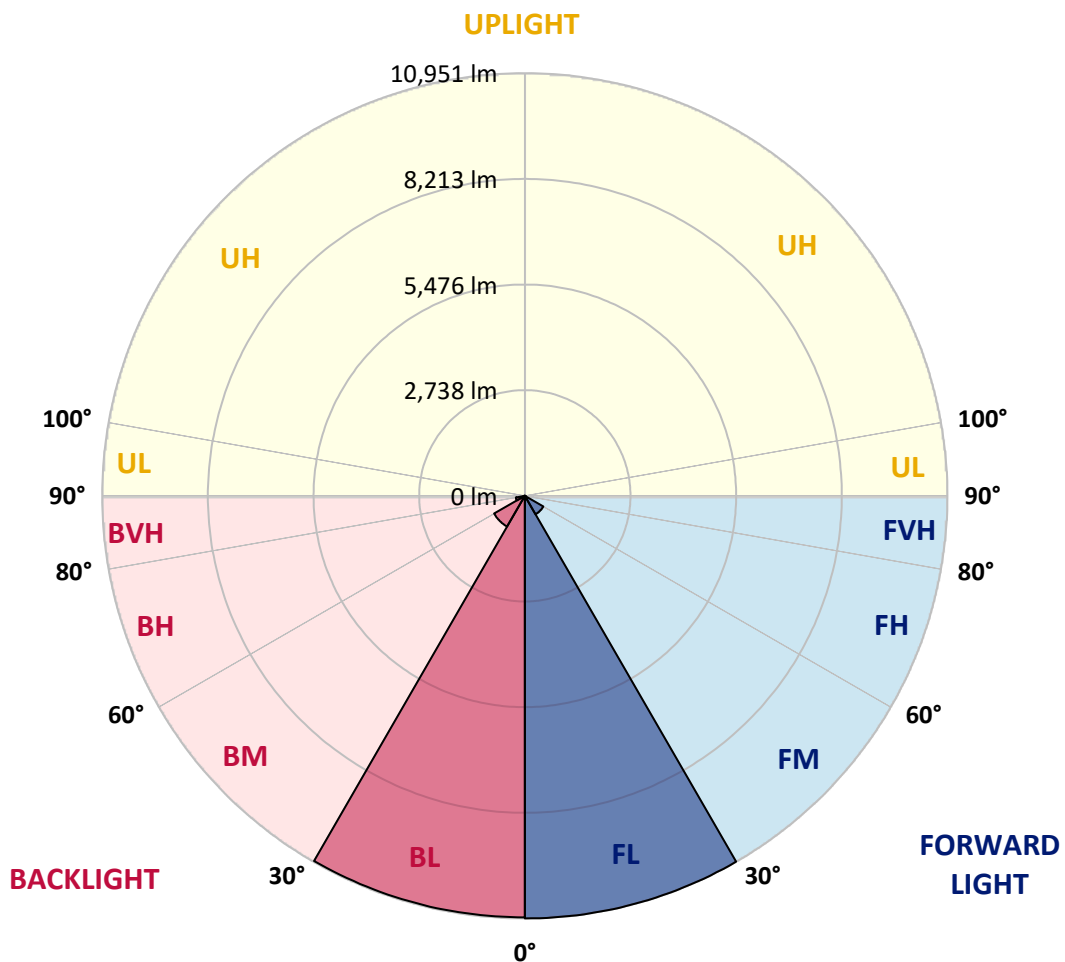


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10951.3	46.3			
FM (30°-60°)	552.6	2.3			
FH (60°-80°)	26.0	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	10925.3	46.2	B5		
BM (30°-60°)	919.5	3.9	B1/1000		
BH (60°-80°)	237.4	1.0	B1/500		G0/660
BVH (80°-90°)	28.8	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°	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5
1°	232071.1	231362.9	229534.3	230834.9	231978.4	231646.2	231623.0	231499.4	231326.8	232681.5
2°	222794.3	222335.9	219631.7	220746.9	222372.0	221187.3	221929.0	221277.4	221290.3	222907.7
3°	207156.2	207406.0	203092.2	205119.0	207377.7	204506.1	205397.2	207071.2	205317.3	204789.4
4°	186830.8	184662.2	182305.7	184366.1	184950.7	183279.2	184922.4	186972.4	184536.0	184644.2
5°	163626.0	162024.0	159234.8	160507.1	159057.1	159585.1	162047.2	162892.0	161192.2	159052.0
6°	139767.0	138628.7	135141.5	136975.2	136460.1	136161.4	139270.0	136694.5	137621.7	136326.2
7°	116258.3	114131.0	112418.3	114174.8	114288.1	113389.3	117425.0	116956.3	115269.4	114877.9
8°	96321.8	94199.6	92749.6	94058.0	94913.0	93501.7	95399.8	96646.3	95327.7	95446.1
9°	77688.4	77315.0	75298.4	77008.5	77938.2	76426.4	78528.0	78978.7	77745.1	78345.1
10°	63788.7	63353.5	61743.8	62436.6	63976.7	62173.9	64190.5	64337.3	63353.5	63634.2
12.5°	39419.8	39244.7	39200.9	39301.3	39280.7	39600.1	40115.2	39528.0	39450.7	38479.8
15°	25478.9	25739.0	25471.2	25986.3	26061.0	26362.3	26048.1	25574.2	24670.2	24222.1
17.5°	15900.8	16233.1	16691.5	17446.1	18200.7	18288.3	17871.0	17314.7	16876.9	16397.9
20°	9148.0	9310.2	9240.7	10144.7	12096.9	12627.4	12089.2	11504.5	10976.6	10492.4
22.5°	5684.0	5624.8	5732.9	6036.9	6673.0	8313.5	7873.1	7288.5	6904.8	6505.6
25°	3484.6	3549.0	3507.8	3675.2	3961.0	4656.4	4756.9	4504.5	4308.7	4102.7
27.5°	2243.2	2243.2	2261.2	2354.0	2549.7	2526.5	3062.2	2866.5	2760.9	2660.4
30°	1558.1	1563.3	1563.3	1617.4	1661.2	1583.9	1723.0	1975.4	1926.4	1849.2
32.5°	1156.4	1171.8	1184.7	1213.0	1177.0	1094.6	1128.0	1421.6	1393.3	1365.0
35°	880.8	893.7	924.6	940.0	888.5	837.0	806.1	1045.6	1058.5	1050.8
37.5°	641.3	649.0	705.7	764.9	705.7	659.3	641.3	803.5	865.4	857.6
40°	491.9	494.5	504.8	571.7	571.7	535.7	540.8	600.1	708.2	708.2
42.5°	422.4	422.4	432.7	422.4	424.9	463.6	476.5	484.2	600.1	600.1
45°	365.7	365.7	370.9	345.1	319.4	399.2	409.5	412.1	504.8	517.7
47.5°	306.5	306.5	316.8	283.3	270.4	316.8	345.1	352.8	435.3	445.6
50°	226.6	229.2	260.1	231.8	239.5	244.7	298.8	303.9	368.3	391.5
52.5°	152.0	152.0	157.1	180.3	208.6	200.9	242.1	260.1	293.6	324.5
55°	123.6	123.6	121.0	115.9	154.5	167.4	177.7	216.3	239.5	278.1
57.5°	85.0	90.1	82.4	95.3	100.4	126.2	133.9	170.0	182.9	234.4
60°	10.3	12.9	18.0	69.5	67.0	85.0	100.4	133.9	149.4	180.3
62.5°	2.6	2.6	5.2	12.9	46.4	56.7	79.8	92.7	108.2	139.1
65°	0.0	0.0	2.6	5.2	10.3	30.9	41.2	54.1	77.3	97.9
67.5°	0.0	0.0	2.6	5.2	5.2	12.9	20.6	33.5	41.2	72.1
70°	0.0	0.0	2.6	5.2	5.2	10.3	12.9	15.5	28.3	38.6
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	12.9	12.9	25.8
75°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	12.9	10.3	10.3
77.5°	0.0	0.0	2.6	5.2	10.3	12.9	15.5	12.9	7.7	7.7
80°	0.0	0.0	2.6	7.7	12.9	18.0	20.6	15.5	7.7	5.2
82.5°	0.0	0.0	5.2	10.3	15.5	20.6	28.3	23.2	10.3	5.2
85°	0.0	0.0	2.6	7.7	15.5	20.6	41.2	28.3	12.9	2.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	15.5	10.3	5.2	2.6
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°
234883.5	0°	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5	234883.5
231118.2	1°	232733.0	232895.2	232364.7	233186.3	232897.8	231208.3	230649.5	229987.6
221957.3	2°	221277.4	222104.1	222145.3	223057.0	223044.2	221073.9	220463.6	221589.0
205860.8	3°	205237.5	206200.7	205332.8	206952.8	206466.0	204076.0	203455.3	204732.7
185499.3	4°	184945.5	184762.7	184463.9	183541.9	184677.7	183047.4	181818.9	183552.2
161890.1	5°	161565.6	161158.7	160576.6	160303.7	161148.4	160105.3	157578.8	160110.5
138669.9	6°	138839.9	137088.6	137003.6	136851.6	136936.6	134016.0	134191.2	136076.4
113530.9	7°	114731.1	115053.0	114396.3	115449.6	114646.1	112668.2	111905.8	113891.5
95966.4	8°	95296.8	94889.8	94387.6	95961.2	94567.9	93269.9	92381.3	93949.8
78443.0	9°	78296.2	77593.1	77083.2	77003.3	77219.7	74783.3	75277.8	76465.1
63788.7	10°	63811.9	62658.1	62938.8	63013.5	62776.6	61179.8	61195.2	61604.7
39123.6	12.5°	38984.6	38418.0	38559.6	38636.9	39118.5	38557.0	37763.8	37192.1
24667.6	15°	24502.8	24095.9	24927.8	25486.6	25373.3	24873.7	24500.2	23982.6
16397.9	17.5°	16245.9	16779.0	16781.6	17291.6	17343.1	16843.4	16555.0	16088.8
10664.9	20°	10626.3	10847.8	11308.8	11669.4	11878.0	11496.8	11151.7	10832.3
6649.8	22.5°	6649.8	7036.1	7324.6	7793.3	7983.9	7705.7	7461.1	7201.0
4151.6	25°	4082.1	4357.7	4597.2	5004.1	5264.2	5130.3	4906.2	4723.4
2681.0	27.5°	2722.2	2838.1	2956.6	3237.3	3507.8	3433.1	3342.9	3232.2
1890.4	30°	1918.7	1929.0	2055.2	2212.3	2392.6	2438.9	2397.7	2341.1
1388.2	32.5°	1413.9	1455.1	1514.4	1612.2	1733.3	1844.0	1823.4	1797.7
1061.1	35°	1092.0	1153.8	1202.7	1277.4	1341.8	1447.4	1465.4	1457.7
873.1	37.5°	891.1	945.2	994.1	1037.9	1092.0	1164.1	1220.8	1223.3
721.1	40°	739.2	788.1	852.5	886.0	924.6	978.7	1048.2	1053.4
610.4	42.5°	623.3	669.6	734.0	775.2	803.5	855.0	924.6	934.9
522.8	45°	535.7	564.0	631.0	679.9	708.2	741.7	816.4	826.7
450.7	47.5°	466.2	494.5	535.7	605.2	631.0	661.9	721.1	739.2
399.2	50°	409.5	437.8	473.9	535.7	574.3	600.1	649.0	674.8
347.7	52.5°	363.1	391.5	430.1	479.0	522.8	546.0	592.4	625.8
283.3	55°	303.9	352.8	381.2	424.9	484.2	504.8	540.8	584.6
247.2	57.5°	265.3	306.5	347.7	383.7	443.0	468.7	504.8	546.0
195.7	60°	224.1	262.7	311.6	342.5	399.2	432.7	471.3	509.9
149.4	62.5°	177.7	229.2	262.7	306.5	360.6	404.3	435.3	473.9
115.9	65°	131.3	188.0	226.6	273.0	324.5	370.9	396.6	437.8
82.4	67.5°	95.3	146.8	193.2	236.9	285.9	332.2	358.0	394.0
51.5	70°	74.7	108.2	159.7	198.3	249.8	288.5	316.8	340.0
33.5	72.5°	43.8	82.4	128.8	172.6	218.9	244.7	265.3	285.9
15.5	75°	28.3	64.4	105.6	144.2	177.7	200.9	218.9	236.9
7.7	77.5°	18.0	46.4	85.0	121.0	136.5	164.8	180.3	190.6
5.2	80°	10.3	36.1	74.7	97.9	110.7	128.8	144.2	157.1
5.2	82.5°	7.7	30.9	61.8	82.4	82.4	103.0	110.7	110.7
2.6	85°	5.2	25.8	48.9	77.3	61.8	77.3	72.1	72.1
2.6	87.5°	5.2	18.0	23.2	33.5	28.3	33.5	33.5	38.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
234883.5  
227365.8  
216821.9  
199059.0  
177278.4  
153440.1  
130611.3  
108490.8  
89471.1  
72756.4  
58818.1  
36844.4  
23717.3  
15972.9  
10721.6  
7061.9  
4617.8  
3167.8  
2302.5  
1777.1  
1431.9  
1205.3  
1045.6  
927.2  
824.1  
741.7  
677.3  
625.8  
587.2  
548.6  
520.2  
491.9  
445.6  
396.6  
347.7  
291.0  
236.9  
185.4  
141.6  
103.0  
69.5  
38.6  
0.0

(END OF REPORT)