

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: P637245

Luminaire Tested: **IFLD-M-SA4A-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637245  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14593.2 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

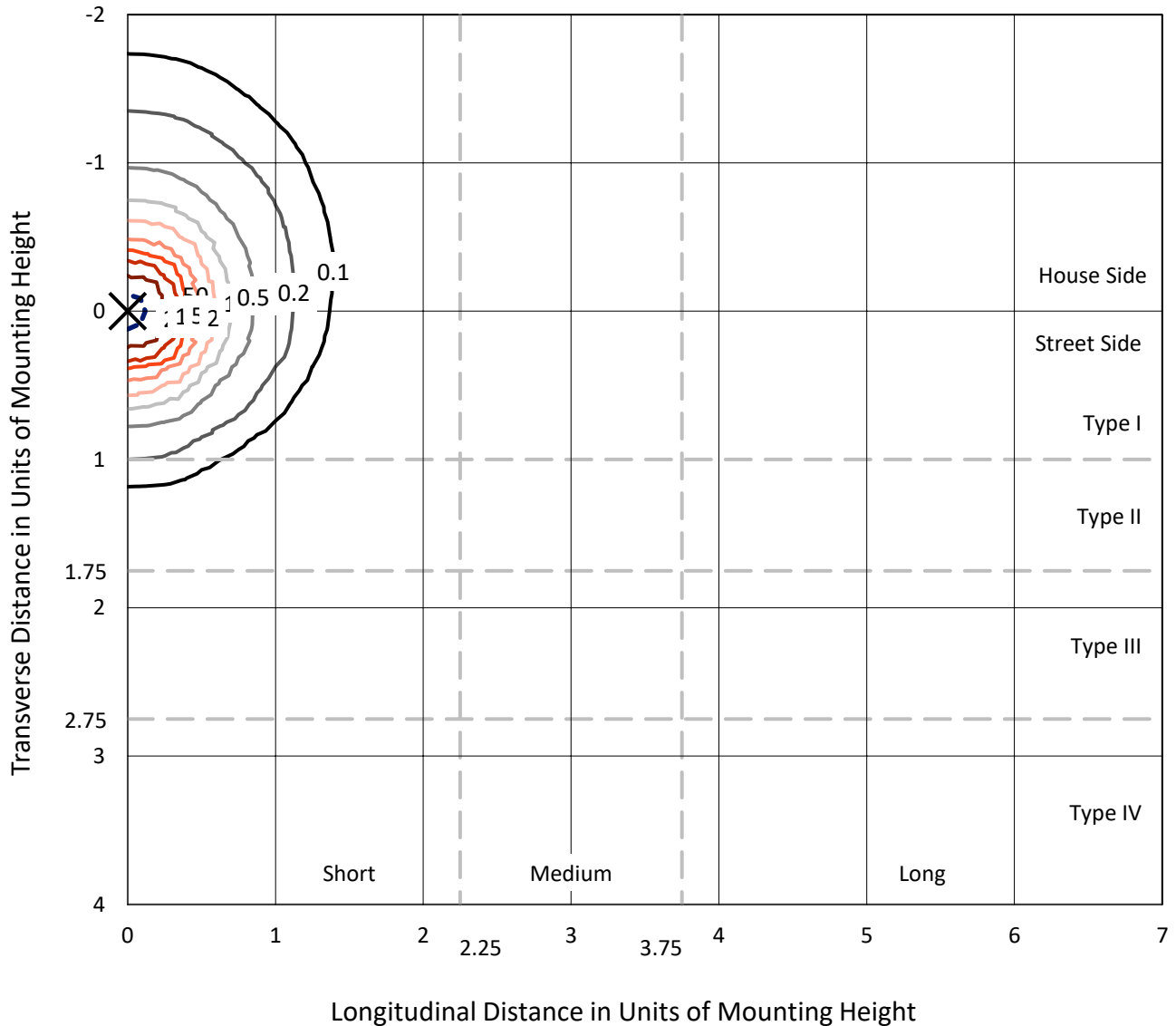
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

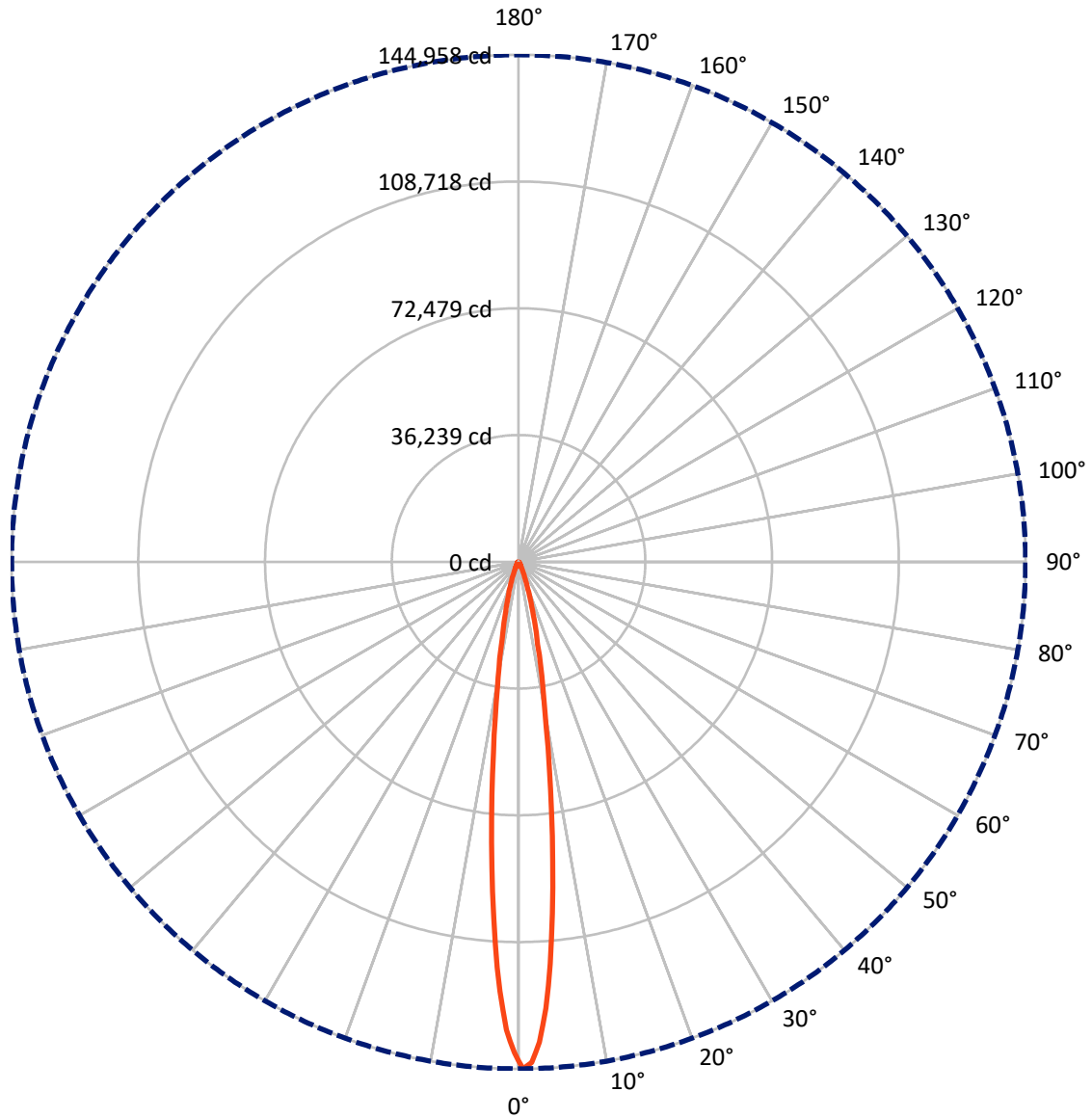
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 362.4 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	7474.4	0.0	7474.4
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	7118.8	0.0	7118.8
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	14593.2	0.0	14593.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7367.1	50.5
10°-20°	4716.4	32.3
20°-30°	1417.6	9.7
30°-40°	461.6	3.2
40°-50°	268.6	1.8
50°-60°	178.4	1.2
60°-70°	107.4	0.7
70°-80°	55.2	0.4
80°-90°	21.0	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°	14593.2	100.0
0°-180°	14593.2	100.0

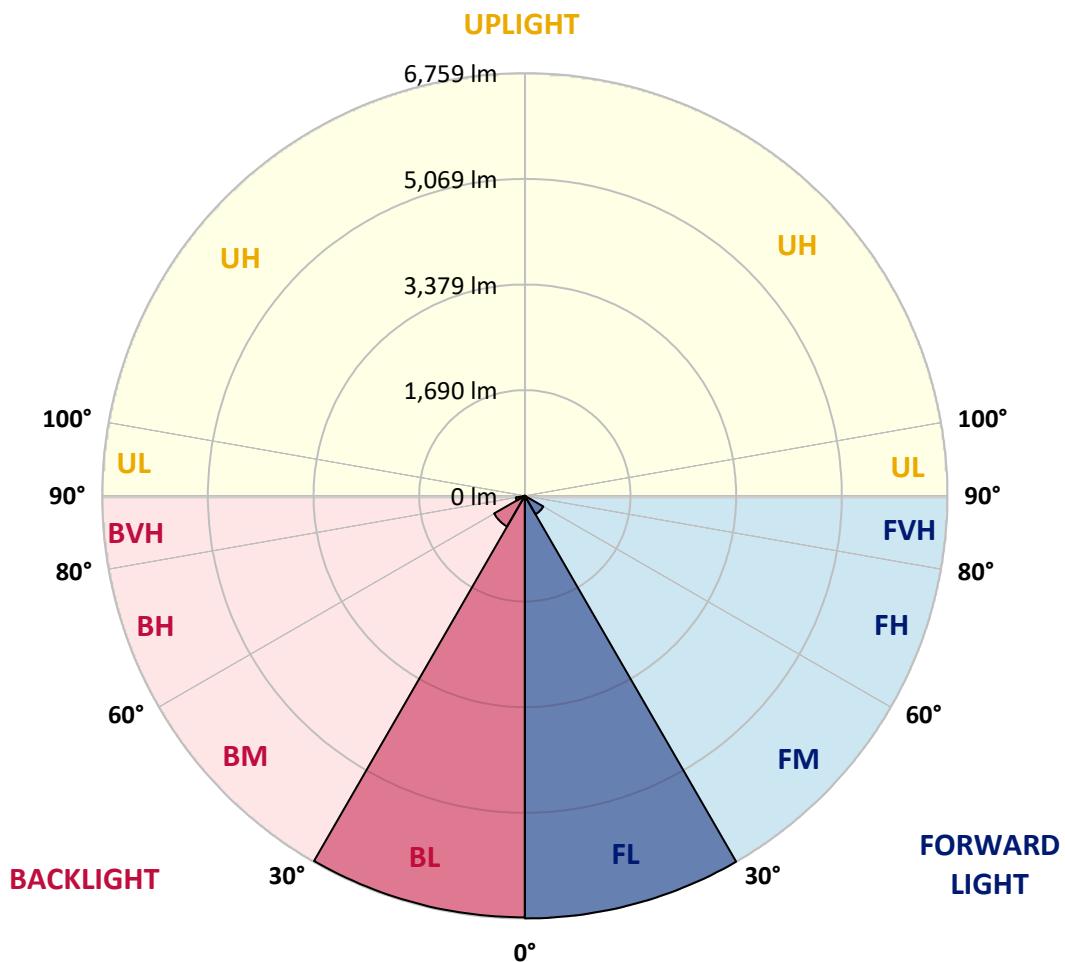


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6758.6	46.3			
FM (30°-60°)	341.1	2.3			
FH (60°-80°)	16.1	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	6742.5	46.2	B5		
BM (30°-60°)	567.5	3.9	B1/1000		
BH (60°-80°)	146.5	1.0	B1/500		G0/660
BVH (80°-90°)	17.8	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°	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7
1°	143222.1	142785.0	141656.5	142459.1	143164.9	142959.8	142945.5	142869.2	142762.7	143598.8
2°	137496.9	137214.0	135545.1	136233.3	137236.3	136505.1	136962.9	136560.8	136568.7	137566.9
3°	127845.9	128000.1	125337.8	126588.7	127982.6	126210.4	126760.3	127793.5	126711.1	126385.2
4°	115302.1	113963.8	112509.5	113781.0	114141.8	113110.3	114124.4	115389.5	113885.9	113952.7
5°	100981.3	99992.7	98271.4	99056.5	98161.7	98487.5	100007.0	100528.4	99479.3	98158.5
6°	86256.9	85554.3	83402.2	84533.9	84216.0	84031.6	85950.1	84360.7	84932.9	84133.4
7°	71748.5	70435.7	69378.7	70462.7	70532.6	69977.9	72468.5	72179.3	71138.2	70896.6
8°	59444.7	58135.0	57240.2	58047.6	58575.3	57704.3	58875.7	59645.0	58831.2	58904.3
9°	47945.2	47714.7	46470.2	47525.6	48099.4	47166.4	48463.4	48741.5	47980.2	48350.5
10°	39367.0	39098.4	38105.0	38532.6	39483.1	38370.5	39615.0	39705.6	39098.4	39271.7
12.5°	24327.8	24219.8	24192.7	24254.7	24242.0	24439.1	24757.0	24394.6	24346.9	23747.7
15°	15724.2	15884.8	15719.5	16037.4	16083.5	16269.4	16075.5	15783.1	15225.2	14948.6
17.5°	9813.1	10018.2	10301.1	10766.8	11232.5	11286.6	11029.1	10685.7	10415.5	10119.9
20°	5645.7	5745.8	5702.9	6260.8	7465.6	7793.0	7460.8	7100.0	6774.2	6475.3
22.5°	3507.9	3471.3	3538.1	3725.6	4118.2	5130.7	4858.9	4498.1	4261.3	4014.9
25°	2150.5	2190.2	2164.8	2268.1	2444.5	2873.7	2935.7	2779.9	2659.1	2532.0
27.5°	1384.4	1384.4	1395.5	1452.7	1573.5	1559.2	1889.8	1769.0	1703.9	1641.9
30°	961.6	964.8	964.8	998.2	1025.2	977.5	1063.3	1219.1	1188.9	1141.2
32.5°	713.7	723.2	731.1	748.6	726.4	675.5	696.2	877.4	859.9	842.4
35°	543.6	551.5	570.6	580.1	548.4	516.6	497.5	645.3	653.3	648.5
37.5°	395.8	400.5	435.5	472.1	435.5	406.9	395.8	495.9	534.0	529.3
40°	303.6	305.2	311.5	352.9	352.9	330.6	333.8	370.3	437.1	437.1
42.5°	260.7	260.7	267.0	260.7	262.3	286.1	294.0	298.8	370.3	370.3
45°	225.7	225.7	228.9	213.0	197.1	246.4	252.7	254.3	311.5	319.5
47.5°	189.1	189.1	195.5	174.8	166.9	195.5	213.0	217.8	268.6	275.0
50°	139.9	141.5	160.5	143.0	147.8	151.0	184.4	187.6	227.3	241.6
52.5°	93.8	93.8	97.0	111.3	128.7	124.0	149.4	160.5	181.2	200.3
55°	76.3	76.3	74.7	71.5	95.4	103.3	109.7	133.5	147.8	171.7
57.5°	52.5	55.6	50.9	58.8	62.0	77.9	82.7	104.9	112.8	144.6
60°	6.4	7.9	11.1	42.9	41.3	52.5	62.0	82.7	92.2	111.3
62.5°	1.6	1.6	3.2	7.9	28.6	35.0	49.3	57.2	66.8	85.8
65°	0.0	0.0	1.6	3.2	6.4	19.1	25.4	33.4	47.7	60.4
67.5°	0.0	0.0	1.6	3.2	3.2	7.9	12.7	20.7	25.4	44.5
70°	0.0	0.0	1.6	3.2	3.2	6.4	7.9	9.5	17.5	23.8
72.5°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	7.9	7.9	15.9
75°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	7.9	6.4	6.4
77.5°	0.0	0.0	1.6	3.2	6.4	7.9	9.5	7.9	4.8	4.8
80°	0.0	0.0	1.6	4.8	7.9	11.1	12.7	9.5	4.8	3.2
82.5°	0.0	0.0	3.2	6.4	9.5	12.7	17.5	14.3	6.4	3.2
85°	0.0	0.0	1.6	4.8	9.5	12.7	25.4	17.5	7.9	1.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.2	9.5	6.4	3.2	1.6
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°
144957.7	0°	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7	144957.7
142634.0	1°	143630.6	143730.7	143403.3	143910.3	143732.3	142689.6	142344.7	141936.2
136980.4	2°	136560.8	137071.0	137096.4	137659.1	137651.1	136435.2	136058.5	136753.1
127046.4	3°	126661.8	127256.2	126720.6	127720.3	127419.9	125945.0	125561.9	126350.3
114480.4	4°	114138.7	114025.8	113841.4	113272.4	113973.4	112967.2	112209.1	113278.8
99910.1	5°	99709.8	99458.7	99099.5	98931.0	99452.3	98808.6	97249.4	98811.8
85579.8	6°	85684.7	84603.8	84551.4	84457.6	84510.1	82707.7	82815.7	83979.2
70065.3	7°	70806.0	71004.7	70599.4	71249.4	70753.5	69532.9	69062.4	70287.8
59225.4	8°	58812.1	58561.0	58251.1	59222.2	58362.3	57561.3	57012.9	57980.9
48410.9	9°	48320.3	47886.4	47571.7	47522.4	47655.9	46152.3	46457.5	47190.2
39367.0	10°	39381.3	38669.3	38842.5	38888.6	38742.4	37756.9	37766.5	38019.2
24145.1	12.5°	24059.2	23709.5	23797.0	23844.6	24141.9	23795.4	23305.8	22953.0
15223.6	15°	15121.9	14870.7	15384.1	15729.0	15659.1	15350.7	15120.3	14800.8
10119.9	17.5°	10026.1	10355.1	10356.7	10671.4	10703.2	10394.9	10216.9	9929.2
6581.8	20°	6558.0	6694.7	6979.2	7201.7	7330.5	7095.2	6882.2	6685.1
4103.9	22.5°	4103.9	4342.3	4520.3	4809.6	4927.2	4755.6	4604.6	4444.1
2562.2	25°	2519.2	2689.3	2837.1	3088.3	3248.8	3166.1	3027.9	2915.0
1654.6	27.5°	1680.0	1751.6	1824.7	1997.9	2164.8	2118.7	2063.1	1994.7
1166.6	30°	1184.1	1190.5	1268.4	1365.3	1476.6	1505.2	1479.8	1444.8
856.7	32.5°	872.6	898.0	934.6	995.0	1069.7	1138.0	1125.3	1109.4
654.8	35°	673.9	712.1	742.3	788.4	828.1	893.3	904.4	899.6
538.8	37.5°	549.9	583.3	613.5	640.5	673.9	718.4	753.4	755.0
445.0	40°	456.2	486.4	526.1	546.8	570.6	604.0	646.9	650.1
376.7	42.5°	384.6	413.3	453.0	478.4	495.9	527.7	570.6	577.0
322.7	45°	330.6	348.1	389.4	419.6	437.1	457.8	503.8	510.2
278.2	47.5°	287.7	305.2	330.6	373.5	389.4	408.5	445.0	456.2
246.4	50°	252.7	270.2	292.5	330.6	354.4	370.3	400.5	416.4
214.6	52.5°	224.1	241.6	265.4	295.6	322.7	337.0	365.6	386.2
174.8	55°	187.6	217.8	235.2	262.3	298.8	311.5	333.8	360.8
152.6	57.5°	163.7	189.1	214.6	236.8	273.4	289.3	311.5	337.0
120.8	60°	138.3	162.1	192.3	211.4	246.4	267.0	290.9	314.7
92.2	62.5°	109.7	141.5	162.1	189.1	222.5	249.5	268.6	292.5
71.5	65°	81.1	116.0	139.9	168.5	200.3	228.9	244.8	270.2
50.9	67.5°	58.8	90.6	119.2	146.2	176.4	205.0	220.9	243.2
31.8	70°	46.1	66.8	98.5	122.4	154.2	178.0	195.5	209.8
20.7	72.5°	27.0	50.9	79.5	106.5	135.1	151.0	163.7	176.4
9.5	75°	17.5	39.7	65.2	89.0	109.7	124.0	135.1	146.2
4.8	77.5°	11.1	28.6	52.5	74.7	84.2	101.7	111.3	117.6
3.2	80°	6.4	22.3	46.1	60.4	68.3	79.5	89.0	97.0
3.2	82.5°	4.8	19.1	38.1	50.9	50.9	63.6	68.3	68.3
1.6	85°	3.2	15.9	30.2	47.7	38.1	47.7	44.5	44.5
1.6	87.5°	3.2	11.1	14.3	20.7	17.5	20.7	20.7	23.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
144957.7  
140318.2  
133811.0  
122848.7  
109406.9  
94695.1  
80606.4  
66954.8  
55216.8  
44901.4  
36299.4  
22738.4  
14637.1  
9857.7  
6616.8  
4358.2  
2849.9  
1955.0  
1421.0  
1096.7  
883.7  
743.9  
645.3  
572.2  
508.6  
457.8  
418.0  
386.2  
362.4  
338.5  
321.1  
303.6  
275.0  
244.8  
214.6  
179.6  
146.2  
114.4  
87.4  
63.6  
42.9  
23.8  
0.0

(END OF REPORT)