

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: P637349

Luminaire Tested: **IFLD-S-SA2D-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637349  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14877.4 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

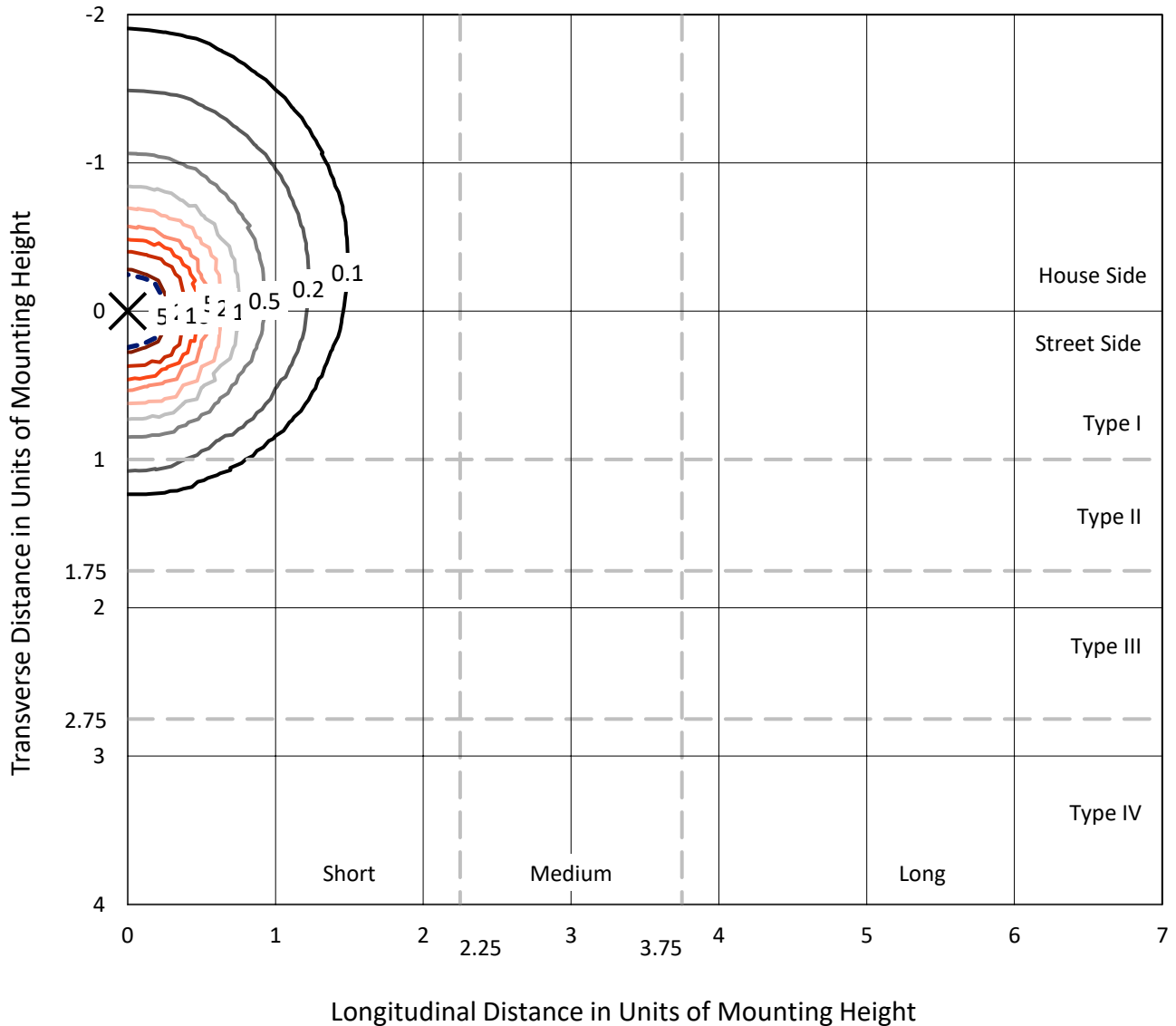
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

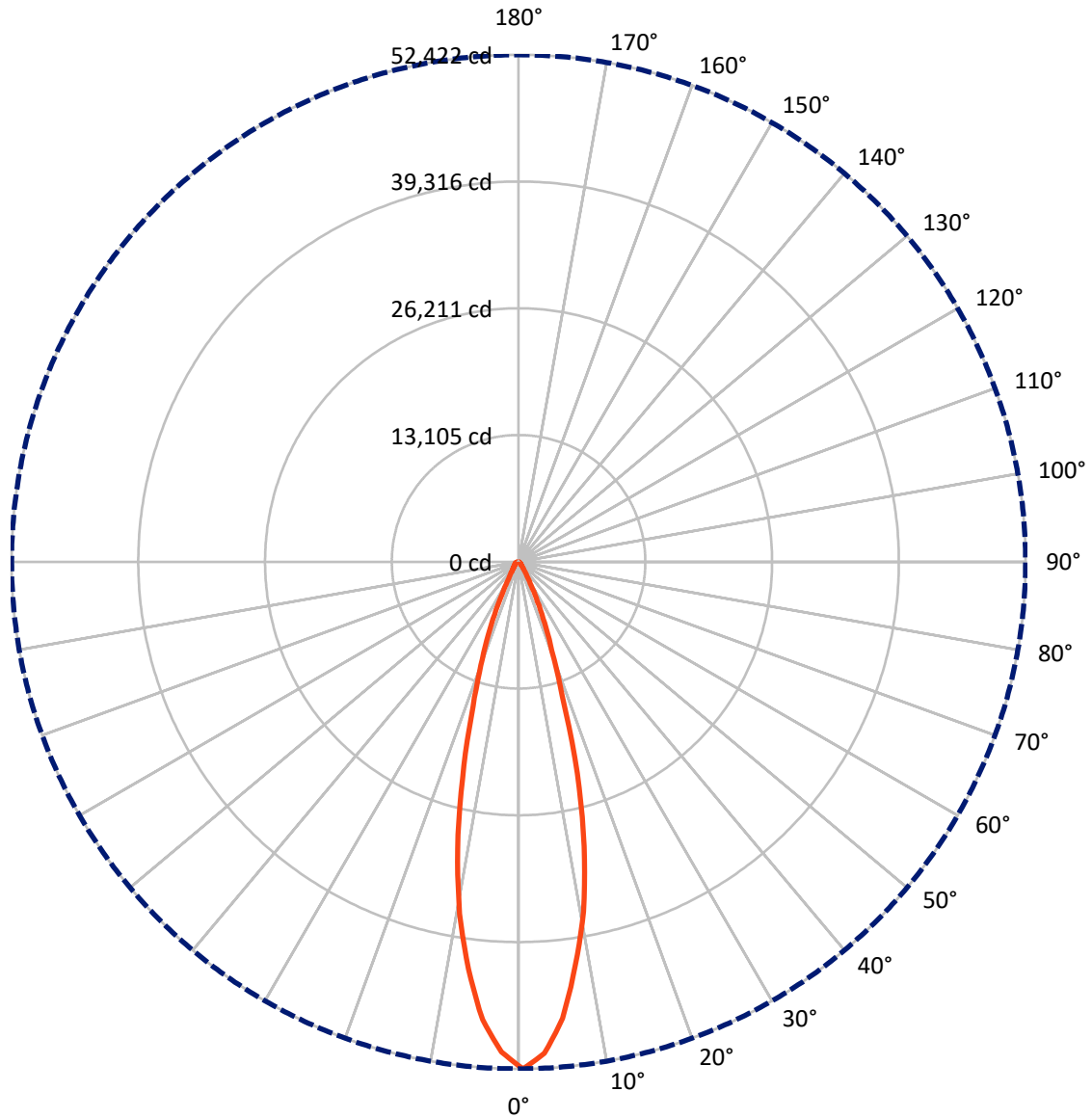
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 131.1 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	7844.4	0.0	7844.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	7033.0	0.0	7033.0
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	14877.4	0.0	14877.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4230.9	28.4
10°-20°	6407.6	43.1
20°-30°	2704.1	18.2
30°-40°	705.2	4.7
40°-50°	356.7	2.4
50°-60°	233.2	1.6
60°-70°	139.7	0.9
70°-80°	73.5	0.5
80°-90°	26.5	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°	14877.4	100.0
0°-180°	14877.4	100.0

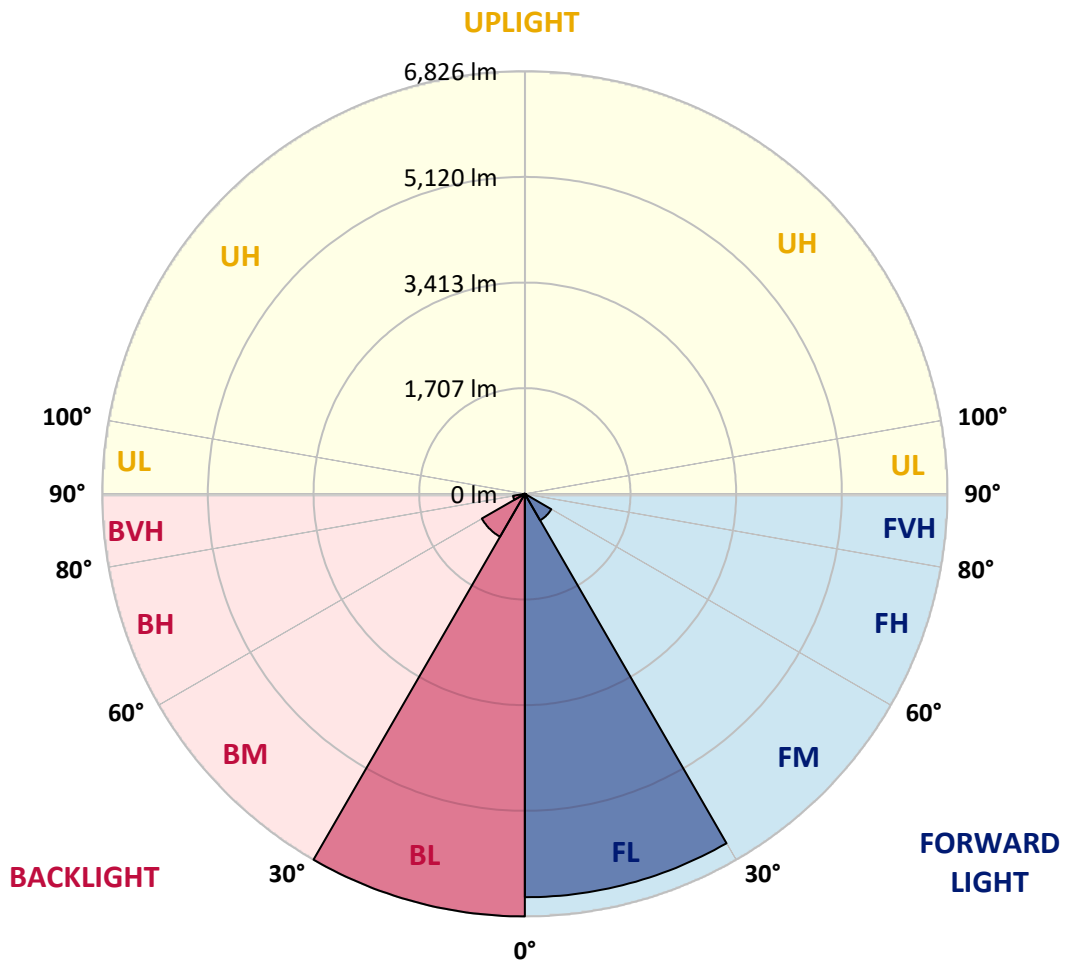


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6516.2	43.8			
FM (30°-60°)	493.5	3.3			
FH (60°-80°)	20.1	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	6826.4	45.9	B5		
BM (30°-60°)	801.6	5.4	B1/1000		
BH (60°-80°)	193.1	1.3	B1/500		G0/660
BVH (80°-90°)	23.3	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°	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5
2.5°	50894.5	50922.9	50817.6	51044.8	50867.7	51342.2	51106.7	51474.2	51350.6	51556.1
5°	47419.3	47372.5	47342.4	47695.0	47593.1	48102.6	47776.8	47669.9	48000.7	47940.6
7.5°	42171.5	42295.1	42224.9	42316.8	42368.6	42950.0	43133.8	42990.1	42995.1	43078.7
10°	36791.6	36609.5	36350.6	36522.7	36886.9	37140.8	37038.9	37249.4	37202.6	37401.5
12.5°	30172.1	30315.8	30170.5	30016.7	30653.3	30583.1	30760.2	30875.5	30586.5	31229.7
15°	22727.2	22802.4	22979.5	22967.8	23457.4	23555.9	23532.6	23654.5	23429.0	23535.9
17.5°	14600.7	14854.7	15330.8	16136.1	17041.7	17146.9	17120.2	17020.0	16911.4	16791.1
20°	9807.3	9780.6	9952.7	10188.2	12062.8	12559.0	12544.0	12229.9	11775.5	11688.6
22.5°	6870.1	6920.3	6896.9	7130.8	7518.4	8886.7	8718.0	8398.9	8250.2	8153.3
25°	4519.4	4501.0	4618.0	4688.1	5020.6	5187.7	5779.1	5660.5	5431.6	5456.7
27.5°	2755.1	2778.5	2821.9	2882.0	3117.6	3064.2	3401.7	3446.8	3373.2	3294.7
30°	1690.8	1707.5	1742.6	1786.0	1867.9	1809.4	1903.0	2065.1	2038.3	1983.2
32.5°	1147.8	1149.5	1174.5	1191.2	1181.2	1126.1	1156.2	1309.9	1313.2	1308.2
35°	825.4	825.4	848.7	862.1	833.7	788.6	793.6	888.8	930.6	939.0
37.5°	569.7	571.4	611.5	651.6	619.8	608.2	588.1	651.6	718.4	728.4
40°	432.7	431.1	451.1	481.2	484.5	462.8	469.5	509.6	578.1	586.4
42.5°	350.9	352.5	362.6	359.2	360.9	389.3	399.3	417.7	481.2	496.2
45°	295.7	297.4	302.4	285.7	279.0	322.5	335.8	345.8	399.3	417.7
47.5°	243.9	247.3	252.3	233.9	230.6	259.0	282.4	292.4	339.2	359.2
50°	175.4	178.8	197.1	187.1	197.1	203.8	235.6	250.6	282.4	309.1
52.5°	127.0	130.3	135.3	137.0	162.1	165.4	188.8	212.2	227.2	257.3
55°	100.2	103.6	100.2	96.9	118.6	137.0	145.4	170.4	182.1	217.2
57.5°	56.8	60.1	65.2	75.2	78.5	105.3	113.6	135.3	145.4	178.8
60°	10.0	11.7	18.4	45.1	55.1	66.8	85.2	103.6	117.0	140.3
62.5°	1.7	1.7	3.3	10.0	31.7	46.8	61.8	73.5	85.2	106.9
65°	0.0	0.0	1.7	3.3	8.4	26.7	33.4	43.4	58.5	76.9
67.5°	0.0	0.0	1.7	3.3	5.0	10.0	15.0	26.7	33.4	51.8
70°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	11.7	20.0	31.7
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	10.0	10.0	20.0
75°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	10.0	8.4	8.4
77.5°	0.0	0.0	1.7	3.3	6.7	10.0	11.7	10.0	6.7	6.7
80°	0.0	0.0	3.3	5.0	8.4	11.7	15.0	11.7	6.7	3.3
82.5°	0.0	0.0	3.3	6.7	8.4	13.4	18.4	15.0	6.7	3.3
85°	0.0	0.0	1.7	5.0	10.0	13.4	18.4	13.4	6.7	1.7
87.5°	0.0	0.0	1.7	1.7	3.3	5.0	10.0	8.4	3.3	1.7
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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 CATALOG NUMBER: IFLD-S-SA2D-735-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
52421.5	0°	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5	52421.5
51166.8	2.5°	51460.9	51728.2	51783.3	51709.8	51816.7	51624.6	51477.6	51096.6	50867.7
47922.2	5°	48231.3	48191.2	48470.2	48562.1	48550.4	48403.4	48197.9	47967.3	47743.4
42916.6	7.5°	43183.9	43235.7	43489.7	43651.8	43569.9	43386.1	43244.1	43070.3	42920.0
37473.3	10°	37815.8	37459.9	37775.7	37775.7	37994.6	37475.0	37523.4	37085.7	37105.7
31218.0	12.5°	31324.9	31453.6	31505.4	31654.1	31398.5	31122.8	30785.3	30718.5	30509.6
23332.1	15°	23667.9	24035.4	23719.7	24259.3	23998.7	23711.3	23659.5	23141.6	23305.3
16923.1	17.5°	16839.5	17245.5	17372.5	17681.6	17444.3	17273.9	17058.4	16901.3	16889.6
11847.3	20°	11940.9	12348.5	12442.1	12813.0	12786.3	12732.8	12550.7	12351.9	12136.3
8064.7	22.5°	8186.7	8519.2	8829.9	9329.5	9321.1	9164.1	9145.7	8865.0	8870.0
5448.3	25°	5505.1	5747.4	5820.9	6332.2	6389.0	6372.3	6277.0	6016.4	6115.0
3328.1	27.5°	3331.5	3543.7	3792.6	3973.0	4143.5	4116.7	4021.5	3876.1	3812.7
1999.9	30°	2053.4	2148.6	2240.5	2457.7	2559.6	2613.1	2567.9	2432.6	2442.6
1316.6	32.5°	1345.0	1425.2	1492.0	1629.0	1682.4	1781.0	1762.6	1734.2	1700.8
947.3	35°	980.7	1039.2	1084.3	1147.8	1216.3	1299.8	1313.2	1301.5	1288.2
731.8	37.5°	748.5	808.6	860.4	887.2	940.6	1005.8	1042.5	1040.9	1030.9
596.5	40°	608.2	653.3	700.0	735.1	771.9	820.3	865.4	870.5	870.5
501.2	42.5°	507.9	546.3	593.1	629.9	656.6	701.7	748.5	751.8	748.5
424.4	45°	434.4	467.8	512.9	556.4	578.1	611.5	656.6	666.6	659.9
364.2	47.5°	377.6	407.7	446.1	492.9	516.3	546.3	588.1	599.8	598.1
314.1	50°	324.1	359.2	397.6	436.1	466.1	494.5	534.6	548.0	543.0
267.3	52.5°	285.7	317.4	350.9	392.6	427.7	452.8	484.5	507.9	501.2
225.6	55°	238.9	277.3	312.4	347.5	391.0	417.7	447.8	476.2	469.5
190.5	57.5°	207.2	238.9	279.0	310.8	354.2	385.9	416.0	446.1	444.4
155.4	60°	173.8	207.2	245.6	279.0	319.1	354.2	384.3	417.7	421.0
117.0	62.5°	137.0	177.1	210.5	248.9	289.0	327.5	354.2	387.6	392.6
88.5	65°	103.6	145.4	182.1	218.9	259.0	300.7	324.1	352.5	357.5
65.2	67.5°	76.9	111.9	155.4	188.8	230.6	270.7	292.4	315.8	324.1
40.1	70°	58.5	85.2	130.3	162.1	205.5	237.2	260.6	280.7	287.4
26.7	72.5°	36.8	66.8	105.3	138.7	177.1	205.5	222.2	233.9	243.9
15.0	75°	25.1	51.8	85.2	118.6	147.0	168.7	183.8	193.8	202.2
6.7	77.5°	15.0	40.1	70.2	98.6	117.0	133.7	148.7	155.4	160.4
5.0	80°	8.4	30.1	58.5	80.2	91.9	103.6	115.3	123.6	127.0
3.3	82.5°	5.0	23.4	46.8	61.8	66.8	78.5	90.2	95.2	95.2
1.7	85°	3.3	16.7	31.7	45.1	48.5	56.8	60.1	63.5	66.8
1.7	87.5°	3.3	10.0	20.0	25.1	26.7	30.1	31.7	35.1	38.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
52421.5
50699.0
47492.8
42410.4
36910.3
30319.1
23141.6
16578.9
12042.8
8773.1
5959.6
3757.5
2399.2
1689.1
1283.1
1025.8
860.4
745.2
659.9
594.8
539.7
499.6
472.8
446.1
422.7
396.0
362.6
327.5
290.7
242.3
200.5
158.7
123.6
93.6
65.2
36.8
0.0

(END OF REPORT)