

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: P637463

Luminaire Tested: **IFLD-S-SA2B-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637463  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8095.1 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

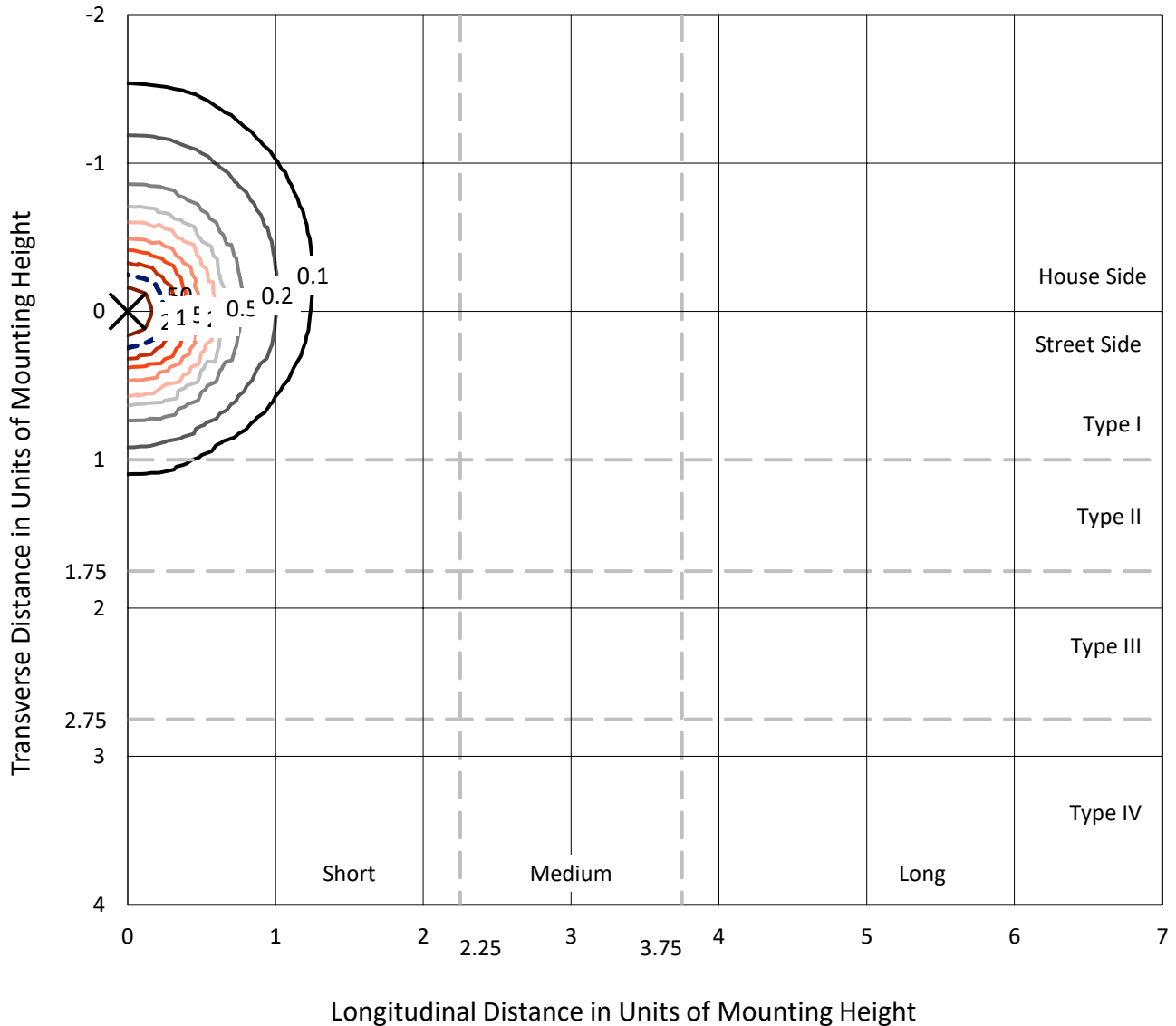
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

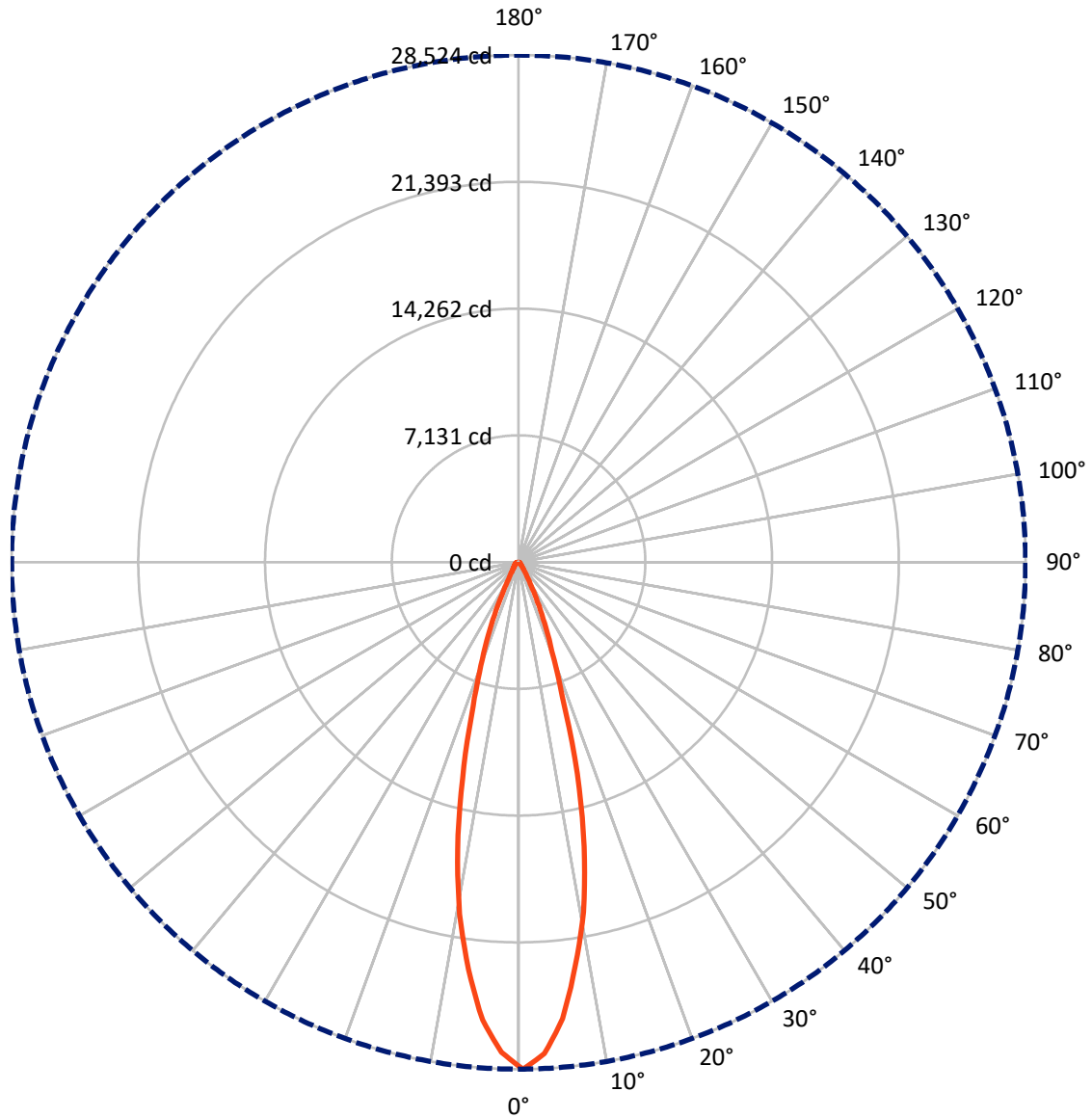
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.3 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	4268.3	0.0	4268.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	3826.8	0.0	3826.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	8095.1	0.0	8095.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2302.1	28.4
10°-20°	3486.5	43.1
20°-30°	1471.3	18.2
30°-40°	383.7	4.7
40°-50°	194.1	2.4
50°-60°	126.9	1.6
60°-70°	76.0	0.9
70°-80°	40.0	0.5
80°-90°	14.4	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°	8095.1	100.0
0°-180°	8095.1	100.0



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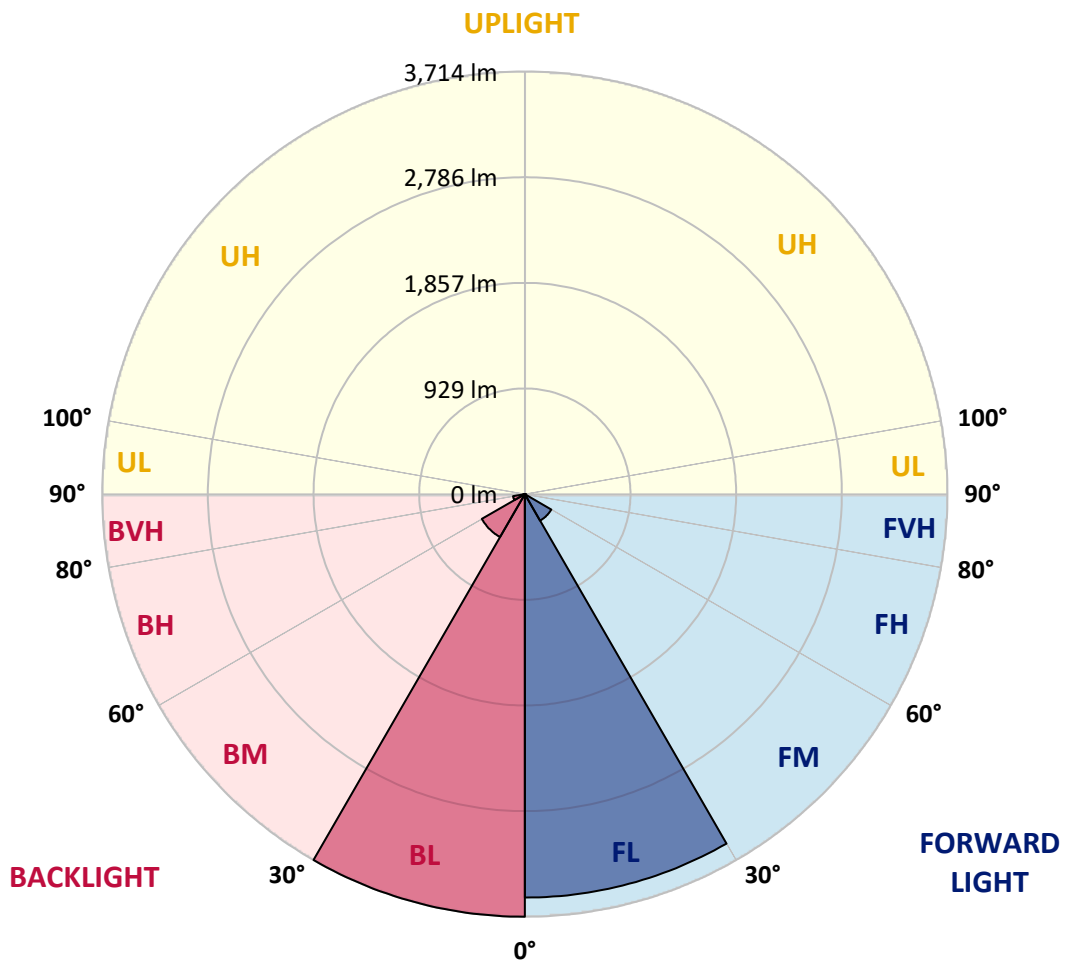
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3545.6	43.8			
FM (30°-60°)	268.5	3.3			
FH (60°-80°)	10.9	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	3714.4	45.9	B4/5000		
BM (30°-60°)	436.2	5.4	B1/1000		
BH (60°-80°)	105.0	1.3	B0/110		G0/660
BVH (80°-90°)	12.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6
2.5°	27692.7	27708.2	27650.9	27774.5	27678.2	27936.4	27808.2	28008.2	27940.9	28052.7
5°	25801.8	25776.4	25760.0	25951.8	25896.4	26173.6	25996.4	25938.2	26118.2	26085.5
7.5°	22946.4	23013.6	22975.5	23025.5	23053.6	23370.0	23470.0	23391.8	23394.5	23440.0
10°	20019.1	19920.0	19779.1	19872.7	20070.9	20209.1	20153.6	20268.2	20242.7	20350.9
12.5°	16417.3	16495.5	16416.4	16332.7	16679.1	16640.9	16737.3	16800.0	16642.7	16992.7
15°	12366.4	12407.3	12503.6	12497.3	12763.6	12817.3	12804.5	12870.9	12748.2	12806.4
17.5°	7944.5	8082.7	8341.8	8780.0	9272.7	9330.0	9315.5	9260.9	9201.8	9136.4
20°	5336.4	5321.8	5415.5	5543.6	6563.6	6833.6	6825.5	6654.5	6407.3	6360.0
22.5°	3738.2	3765.5	3752.7	3880.0	4090.9	4835.5	4743.6	4570.0	4489.1	4436.4
25°	2459.1	2449.1	2512.7	2550.9	2731.8	2822.7	3144.5	3080.0	2955.5	2969.1
27.5°	1499.1	1511.8	1535.5	1568.2	1696.4	1667.3	1850.9	1875.5	1835.5	1792.7
30°	920.0	929.1	948.2	971.8	1016.4	984.5	1035.5	1123.6	1109.1	1079.1
32.5°	624.5	625.5	639.1	648.2	642.7	612.7	629.1	712.7	714.5	711.8
35°	449.1	449.1	461.8	469.1	453.6	429.1	431.8	483.6	506.4	510.9
37.5°	310.0	310.9	332.7	354.5	337.3	330.9	320.0	354.5	390.9	396.4
40°	235.5	234.5	245.5	261.8	263.6	251.8	255.5	277.3	314.5	319.1
42.5°	190.9	191.8	197.3	195.5	196.4	211.8	217.3	227.3	261.8	270.0
45°	160.9	161.8	164.5	155.5	151.8	175.5	182.7	188.2	217.3	227.3
47.5°	132.7	134.5	137.3	127.3	125.5	140.9	153.6	159.1	184.5	195.5
50°	95.5	97.3	107.3	101.8	107.3	110.9	128.2	136.4	153.6	168.2
52.5°	69.1	70.9	73.6	74.5	88.2	90.0	102.7	115.5	123.6	140.0
55°	54.5	56.4	54.5	52.7	64.5	74.5	79.1	92.7	99.1	118.2
57.5°	30.9	32.7	35.5	40.9	42.7	57.3	61.8	73.6	79.1	97.3
60°	5.5	6.4	10.0	24.5	30.0	36.4	46.4	56.4	63.6	76.4
62.5°	0.9	0.9	1.8	5.5	17.3	25.5	33.6	40.0	46.4	58.2
65°	0.0	0.0	0.9	1.8	4.5	14.5	18.2	23.6	31.8	41.8
67.5°	0.0	0.0	0.9	1.8	2.7	5.5	8.2	14.5	18.2	28.2
70°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	6.4	10.9	17.3
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	5.5	5.5	10.9
75°	0.0	0.0	0.9	1.8	2.7	4.5	5.5	5.5	4.5	4.5
77.5°	0.0	0.0	0.9	1.8	3.6	5.5	6.4	5.5	3.6	3.6
80°	0.0	0.0	1.8	2.7	4.5	6.4	8.2	6.4	3.6	1.8
82.5°	0.0	0.0	1.8	3.6	4.5	7.3	10.0	8.2	3.6	1.8
85°	0.0	0.0	0.9	2.7	5.5	7.3	10.0	7.3	3.6	0.9
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	5.5	4.5	1.8	0.9
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°
28523.6	0°	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6	28523.6
27840.9	2.5°	28000.9	28146.4	28176.4	28136.4	28194.5	28090.0	28010.0	27802.7	27678.2
26075.5	5°	26243.6	26221.8	26373.6	26423.6	26417.3	26337.3	26225.5	26100.0	25978.2
23351.8	7.5°	23497.3	23525.5	23663.6	23751.8	23707.3	23607.3	23530.0	23435.5	23353.6
20390.0	10°	20576.4	20382.7	20554.5	20554.5	20673.6	20390.9	20417.3	20179.1	20190.0
16986.4	12.5°	17044.5	17114.5	17142.7	17223.6	17084.5	16934.5	16750.9	16714.5	16600.9
12695.5	15°	12878.2	13078.2	12906.4	13200.0	13058.2	12901.8	12873.6	12591.8	12680.9
9208.2	17.5°	9162.7	9383.6	9452.7	9620.9	9491.8	9399.1	9281.8	9196.4	9190.0
6446.4	20°	6497.3	6719.1	6770.0	6971.8	6957.3	6928.2	6829.1	6720.9	6603.6
4388.2	22.5°	4454.5	4635.5	4804.5	5076.4	5071.8	4986.4	4976.4	4823.6	4826.4
2964.5	25°	2995.5	3127.3	3167.3	3445.5	3476.4	3467.3	3415.5	3273.6	3327.3
1810.9	27.5°	1812.7	1928.2	2063.6	2161.8	2254.5	2240.0	2188.2	2109.1	2074.5
1088.2	30°	1117.3	1169.1	1219.1	1337.3	1392.7	1421.8	1397.3	1323.6	1329.1
716.4	32.5°	731.8	775.5	811.8	886.4	915.5	969.1	959.1	943.6	925.5
515.5	35°	533.6	565.5	590.0	624.5	661.8	707.3	714.5	708.2	700.9
398.2	37.5°	407.3	440.0	468.2	482.7	511.8	547.3	567.3	566.4	560.9
324.5	40°	330.9	355.5	380.9	400.0	420.0	446.4	470.9	473.6	473.6
272.7	42.5°	276.4	297.3	322.7	342.7	357.3	381.8	407.3	409.1	407.3
230.9	45°	236.4	254.5	279.1	302.7	314.5	332.7	357.3	362.7	359.1
198.2	47.5°	205.5	221.8	242.7	268.2	280.9	297.3	320.0	326.4	325.5
170.9	50°	176.4	195.5	216.4	237.3	253.6	269.1	290.9	298.2	295.5
145.5	52.5°	155.5	172.7	190.9	213.6	232.7	246.4	263.6	276.4	272.7
122.7	55°	130.0	150.9	170.0	189.1	212.7	227.3	243.6	259.1	255.5
103.6	57.5°	112.7	130.0	151.8	169.1	192.7	210.0	226.4	242.7	241.8
84.5	60°	94.5	112.7	133.6	151.8	173.6	192.7	209.1	227.3	229.1
63.6	62.5°	74.5	96.4	114.5	135.5	157.3	178.2	192.7	210.9	213.6
48.2	65°	56.4	79.1	99.1	119.1	140.9	163.6	176.4	191.8	194.5
35.5	67.5°	41.8	60.9	84.5	102.7	125.5	147.3	159.1	171.8	176.4
21.8	70°	31.8	46.4	70.9	88.2	111.8	129.1	141.8	152.7	156.4
14.5	72.5°	20.0	36.4	57.3	75.5	96.4	111.8	120.9	127.3	132.7
8.2	75°	13.6	28.2	46.4	64.5	80.0	91.8	100.0	105.5	110.0
3.6	77.5°	8.2	21.8	38.2	53.6	63.6	72.7	80.9	84.5	87.3
2.7	80°	4.5	16.4	31.8	43.6	50.0	56.4	62.7	67.3	69.1
1.8	82.5°	2.7	12.7	25.5	33.6	36.4	42.7	49.1	51.8	51.8
0.9	85°	1.8	9.1	17.3	24.5	26.4	30.9	32.7	34.5	36.4
0.9	87.5°	1.8	5.5	10.9	13.6	14.5	16.4	17.3	19.1	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
28523.6
27586.4
25841.8
23076.4
20083.6
16497.3
12591.8
9020.9
6552.7
4773.6
3242.7
2044.5
1305.5
919.1
698.2
558.2
468.2
405.5
359.1
323.6
293.6
271.8
257.3
242.7
230.0
215.5
197.3
178.2
158.2
131.8
109.1
86.4
67.3
50.9
35.5
20.0
0.0

(END OF REPORT)