

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: P637471

Luminaire Tested: **IFLD-S-SA3E-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637471  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19123.8 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

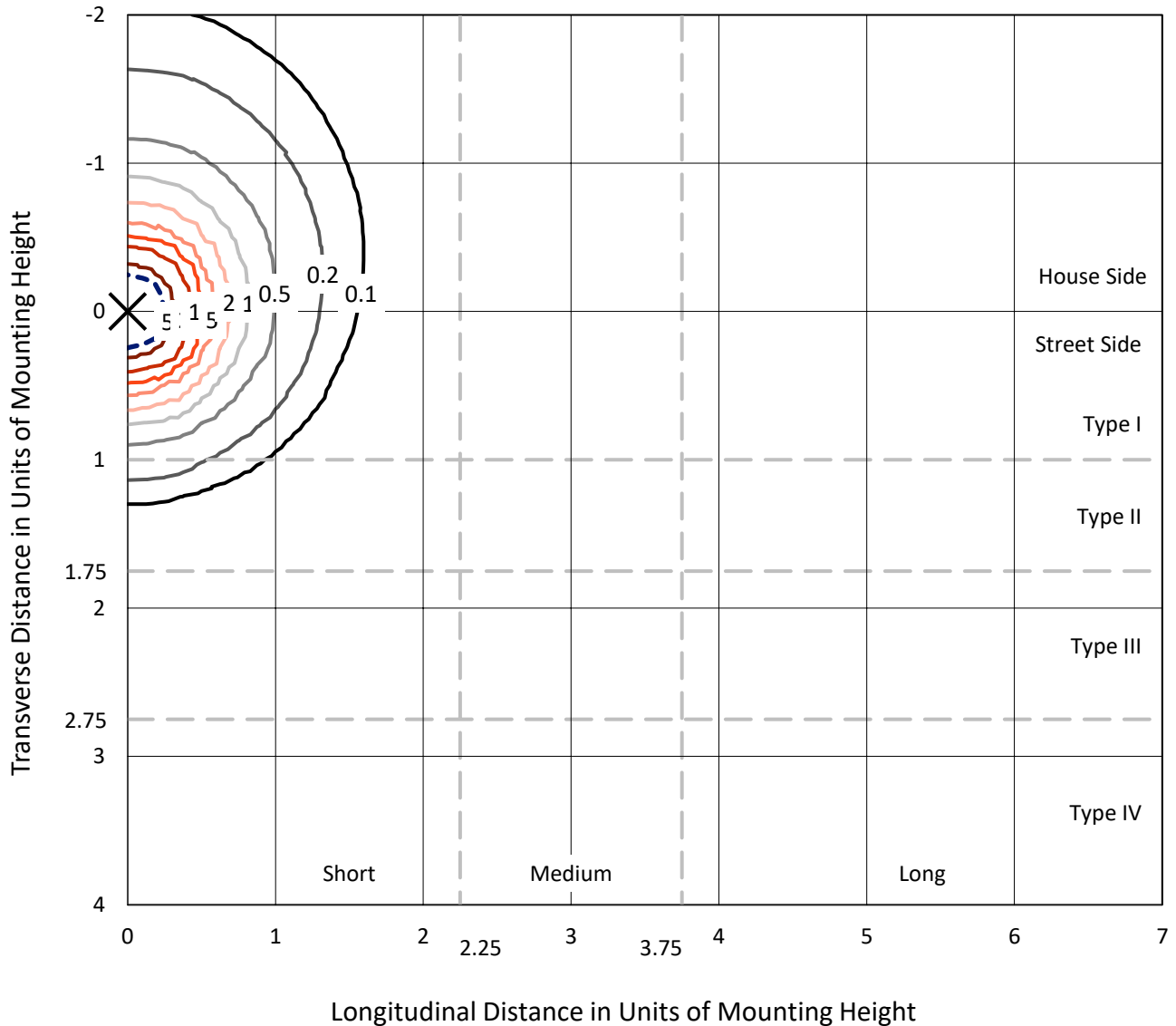
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

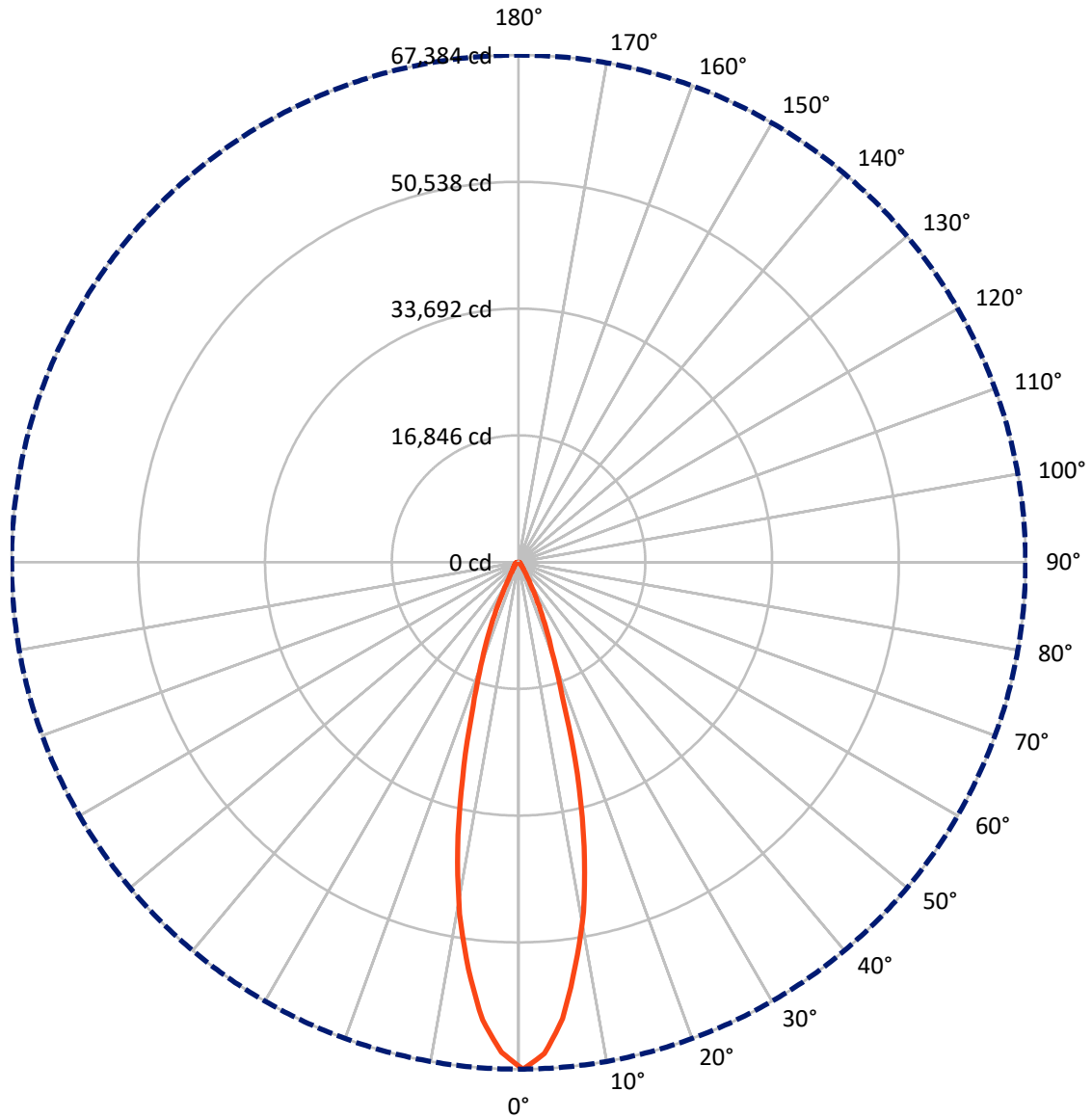
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 168.5 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	10083.4	0.0	10083.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	9040.5	0.0	9040.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	19123.8	0.0	19123.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5438.5	28.4
10°-20°	8236.6	43.1
20°-30°	3475.9	18.2
30°-40°	906.5	4.7
40°-50°	458.5	2.4
50°-60°	299.7	1.6
60°-70°	179.6	0.9
70°-80°	94.4	0.5
80°-90°	34.1	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°	19123.8	100.0
0°-180°	19123.8	100.0



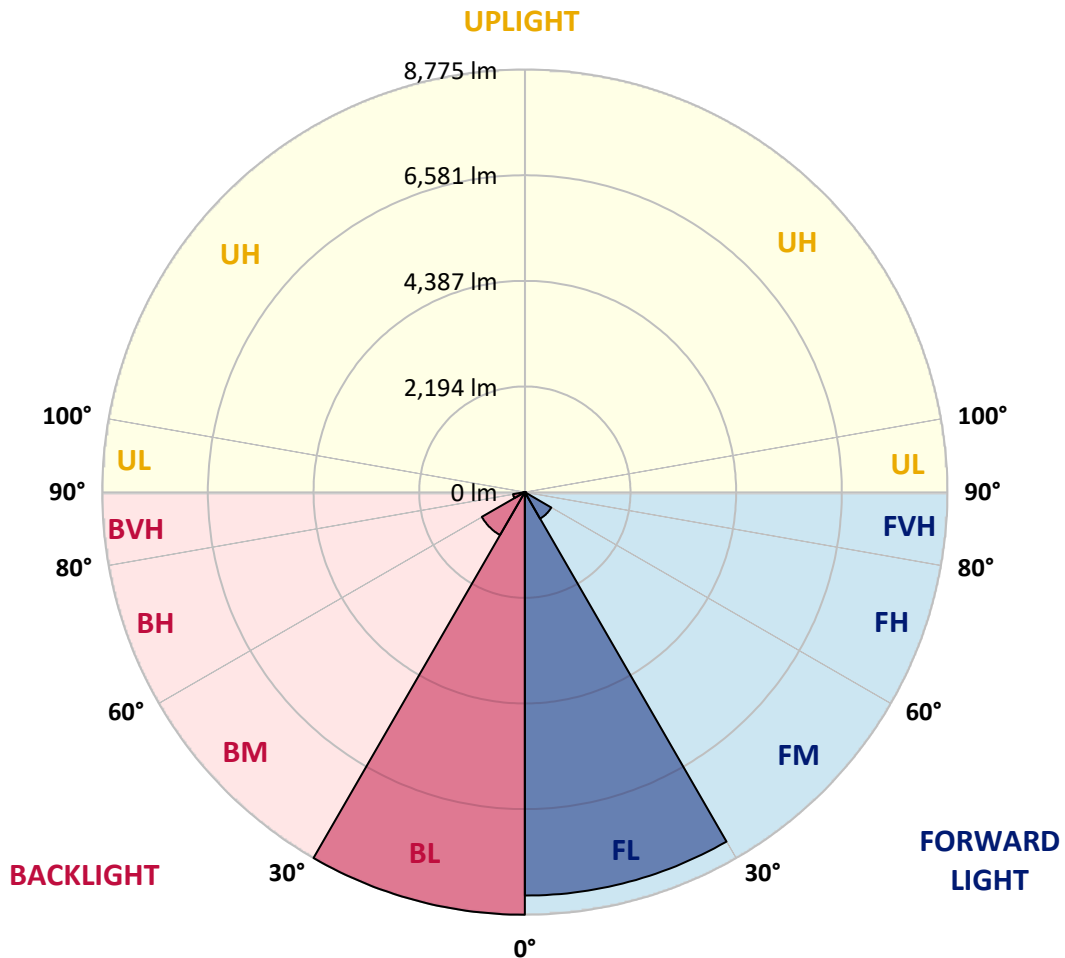
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8376.1	43.8			
FM (30°-60°)	634.3	3.3			
FH (60°-80°)	25.8	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	8774.8	45.9	B5		
BM (30°-60°)	1030.4	5.4	B2/2500		
BH (60°-80°)	248.2	1.3	B1/500		G0/660
BVH (80°-90°)	30.0	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°	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3
2.5°	65421.3	65457.8	65322.5	65614.6	65387.0	65996.9	65694.1	66166.5	66007.6	66271.8
5°	60954.2	60894.1	60855.4	61308.6	61177.6	61832.6	61413.8	61276.4	61701.6	61624.3
7.5°	54208.5	54367.4	54277.2	54395.3	54461.9	55209.3	55445.5	55260.8	55267.3	55374.7
10°	47293.1	47059.0	46726.1	46947.3	47415.5	47742.0	47611.0	47881.6	47821.4	48077.0
12.5°	38784.2	38968.9	38782.0	38584.4	39402.7	39312.5	39540.1	39688.3	39316.8	40143.6
15°	29214.3	29310.9	29538.6	29523.6	30152.8	30279.5	30249.5	30406.2	30116.3	30253.8
17.5°	18768.2	19094.6	19706.7	20741.9	21905.9	22041.2	22006.8	21878.0	21738.4	21583.8
20°	12606.6	12572.3	12793.5	13096.3	15505.9	16143.8	16124.5	15720.7	15136.5	15024.9
22.5°	8831.1	8895.5	8865.4	9166.1	9664.4	11423.3	11206.4	10796.2	10605.0	10480.5
25°	5809.4	5785.7	5936.1	6026.3	6453.6	6668.4	7428.7	7276.2	6982.0	7014.2
27.5°	3541.5	3571.5	3627.4	3704.7	4007.5	3938.8	4372.6	4430.6	4336.1	4235.1
30°	2173.4	2194.9	2240.0	2295.8	2401.1	2325.9	2446.2	2654.5	2620.1	2549.2
32.5°	1475.4	1477.6	1509.8	1531.3	1518.4	1447.5	1486.2	1683.7	1688.0	1681.6
35°	1060.9	1060.9	1091.0	1108.2	1071.7	1013.7	1020.1	1142.5	1196.2	1207.0
37.5°	732.3	734.5	786.0	837.6	796.8	781.7	756.0	837.6	923.5	936.4
40°	556.2	554.1	579.9	618.5	622.8	594.9	603.5	655.0	743.1	753.8
42.5°	451.0	453.2	466.0	461.7	463.9	500.4	513.3	536.9	618.5	637.8
45°	380.1	382.3	388.7	367.2	358.7	414.5	431.7	444.6	513.3	536.9
47.5°	313.6	317.9	324.3	300.7	296.4	332.9	363.0	375.8	436.0	461.7
50°	225.5	229.8	253.4	240.5	253.4	262.0	302.8	322.1	363.0	397.3
52.5°	163.2	167.5	174.0	176.1	208.3	212.6	242.7	272.7	292.1	330.7
55°	128.9	133.2	128.9	124.6	152.5	176.1	186.8	219.1	234.1	279.2
57.5°	73.0	77.3	83.8	96.6	100.9	135.3	146.0	174.0	186.8	229.8
60°	12.9	15.0	23.6	58.0	70.9	85.9	109.5	133.2	150.3	180.4
62.5°	2.1	2.1	4.3	12.9	40.8	60.1	79.5	94.5	109.5	137.4
65°	0.0	0.0	2.1	4.3	10.7	34.4	43.0	55.8	75.2	98.8
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	19.3	34.4	43.0	66.6
70°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	15.0	25.8	40.8
72.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	12.9	12.9	25.8
75°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	12.9	10.7	10.7
77.5°	0.0	0.0	2.1	4.3	8.6	12.9	15.0	12.9	8.6	8.6
80°	0.0	0.0	4.3	6.4	10.7	15.0	19.3	15.0	8.6	4.3
82.5°	0.0	0.0	4.3	8.6	10.7	17.2	23.6	19.3	8.6	4.3
85°	0.0	0.0	2.1	6.4	12.9	17.2	23.6	17.2	8.6	2.1
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	12.9	10.7	4.3	2.1
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°
67384.3	0°	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3	67384.3
65771.4	2.5°	66149.4	66493.0	66563.9	66469.4	66606.8	66359.8	66170.8	65681.2	65387.0
61600.7	5°	61998.0	61946.4	62305.1	62423.2	62408.2	62219.2	61955.0	61658.7	61370.9
55166.3	7.5°	55510.0	55576.5	55903.0	56111.3	56006.1	55769.8	55587.3	55363.9	55170.6
48169.3	10°	48609.6	48152.2	48558.1	48558.1	48839.4	48171.5	48233.8	47671.1	47696.9
40128.6	12.5°	40266.0	40431.4	40498.0	40689.1	40360.5	40006.2	39572.4	39486.5	39218.0
29991.7	15°	30423.4	30895.9	30490.0	31183.7	30848.7	30479.3	30412.7	29746.9	29957.4
21753.4	17.5°	21646.0	22167.9	22331.1	22728.4	22423.5	22204.4	21927.4	21725.5	21710.5
15228.9	20°	15349.2	15873.2	15993.5	16470.2	16435.9	16367.1	16133.0	15877.5	15600.4
10366.6	22.5°	10523.4	10950.8	11350.3	11992.4	11981.7	11779.8	11756.2	11395.4	11401.8
7003.4	25°	7076.5	7387.9	7482.4	8139.5	8212.6	8191.1	8068.7	7733.6	7860.4
4278.1	27.5°	4282.4	4555.1	4875.1	5107.1	5326.1	5291.8	5169.4	4982.5	4900.9
2570.7	30°	2639.4	2761.9	2880.0	3159.2	3290.2	3358.9	3300.9	3127.0	3139.8
1692.3	32.5°	1728.8	1831.9	1917.8	2093.9	2162.7	2289.4	2265.8	2229.2	2186.3
1217.7	35°	1260.7	1335.8	1393.8	1475.4	1563.5	1670.9	1688.0	1673.0	1655.8
940.7	37.5°	962.1	1039.5	1106.0	1140.4	1209.1	1292.9	1340.1	1338.0	1325.1
766.7	40°	781.7	839.7	899.9	945.0	992.2	1054.5	1112.5	1118.9	1118.9
644.3	42.5°	652.9	702.3	762.4	809.7	844.0	902.0	962.1	966.4	962.1
545.5	45°	558.4	601.3	659.3	715.2	743.1	786.0	844.0	856.9	848.3
468.2	47.5°	485.4	524.0	573.4	633.6	663.6	702.3	756.0	771.0	768.9
403.8	50°	416.6	461.7	511.1	560.5	599.2	635.7	687.2	704.4	698.0
343.6	52.5°	367.2	408.1	451.0	504.7	549.8	582.0	622.8	652.9	644.3
289.9	55°	307.1	356.5	401.6	446.7	502.5	536.9	575.6	612.1	603.5
244.8	57.5°	266.3	307.1	358.7	399.5	455.3	496.1	534.8	573.4	571.3
199.7	60°	223.4	266.3	315.7	358.7	410.2	455.3	494.0	536.9	541.2
150.3	62.5°	176.1	227.6	270.6	320.0	371.5	420.9	455.3	498.3	504.7
113.8	65°	133.2	186.8	234.1	281.3	332.9	386.6	416.6	453.2	459.6
83.8	67.5°	98.8	143.9	199.7	242.7	296.4	347.9	375.8	405.9	416.6
51.5	70°	75.2	109.5	167.5	208.3	264.2	305.0	335.0	360.8	369.4
34.4	72.5°	47.2	85.9	135.3	178.3	227.6	264.2	285.6	300.7	313.6
19.3	75°	32.2	66.6	109.5	152.5	189.0	216.9	236.2	249.1	259.9
8.6	77.5°	19.3	51.5	90.2	126.7	150.3	171.8	191.1	199.7	206.2
6.4	80°	10.7	38.7	75.2	103.1	118.1	133.2	148.2	158.9	163.2
4.3	82.5°	6.4	30.1	60.1	79.5	85.9	100.9	116.0	122.4	122.4
2.1	85°	4.3	21.5	40.8	58.0	62.3	73.0	77.3	81.6	85.9
2.1	87.5°	4.3	12.9	25.8	32.2	34.4	38.7	40.8	45.1	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
67384.3  
65170.0  
61048.7  
54515.6  
47445.6  
38973.2  
29746.9  
21311.0  
15480.2  
11277.2  
7660.6  
4830.0  
3084.0  
2171.3  
1649.4  
1318.6  
1106.0  
957.8  
848.3  
764.6  
693.7  
642.1  
607.8  
573.4  
543.4  
509.0  
466.0  
420.9  
373.7  
311.4  
257.7  
204.0  
158.9  
120.3  
83.8  
47.2  
0.0

(END OF REPORT)