

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: P637930

Luminaire Tested: **IFLD-S-SA2E-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637930
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15611.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

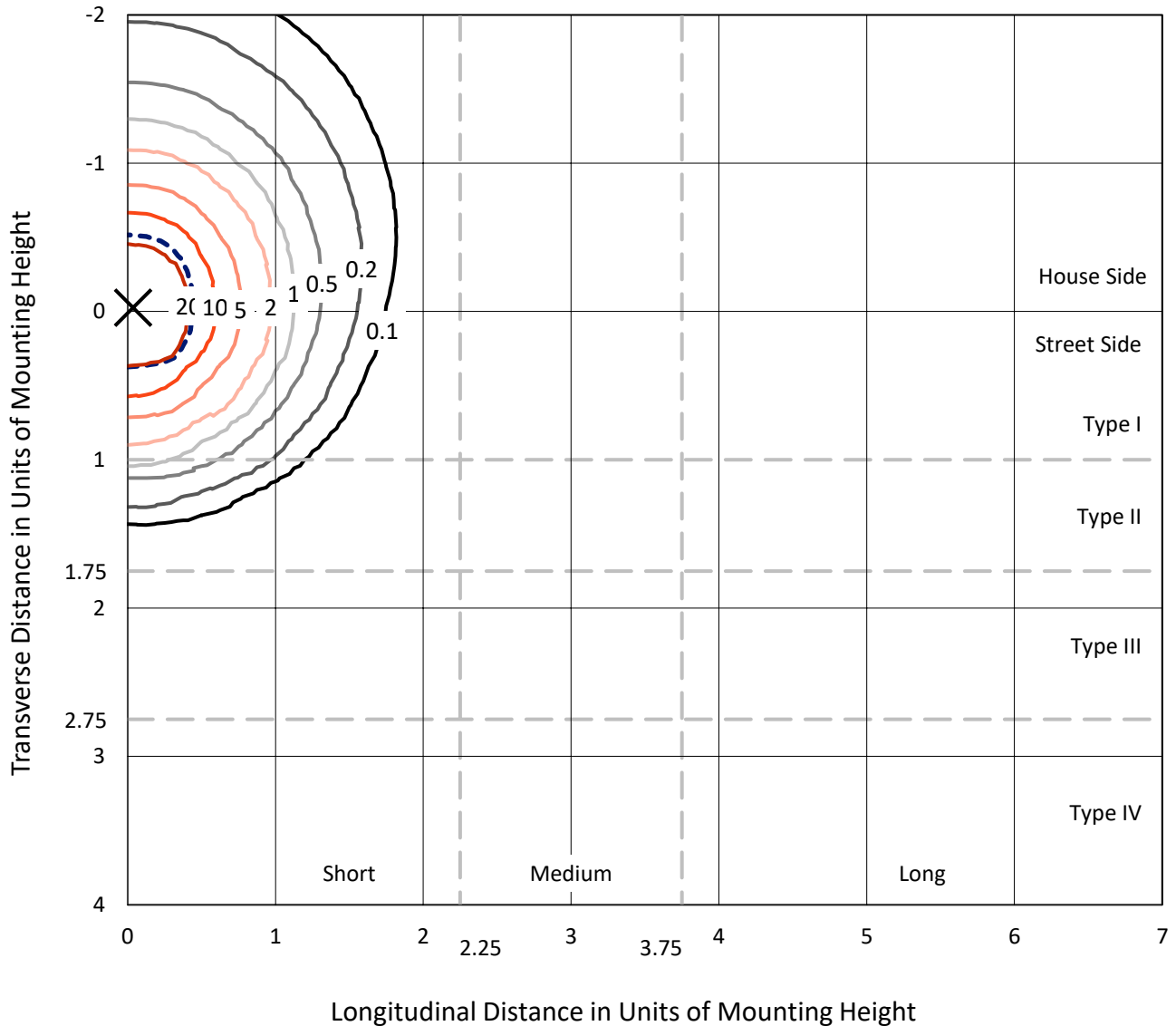
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

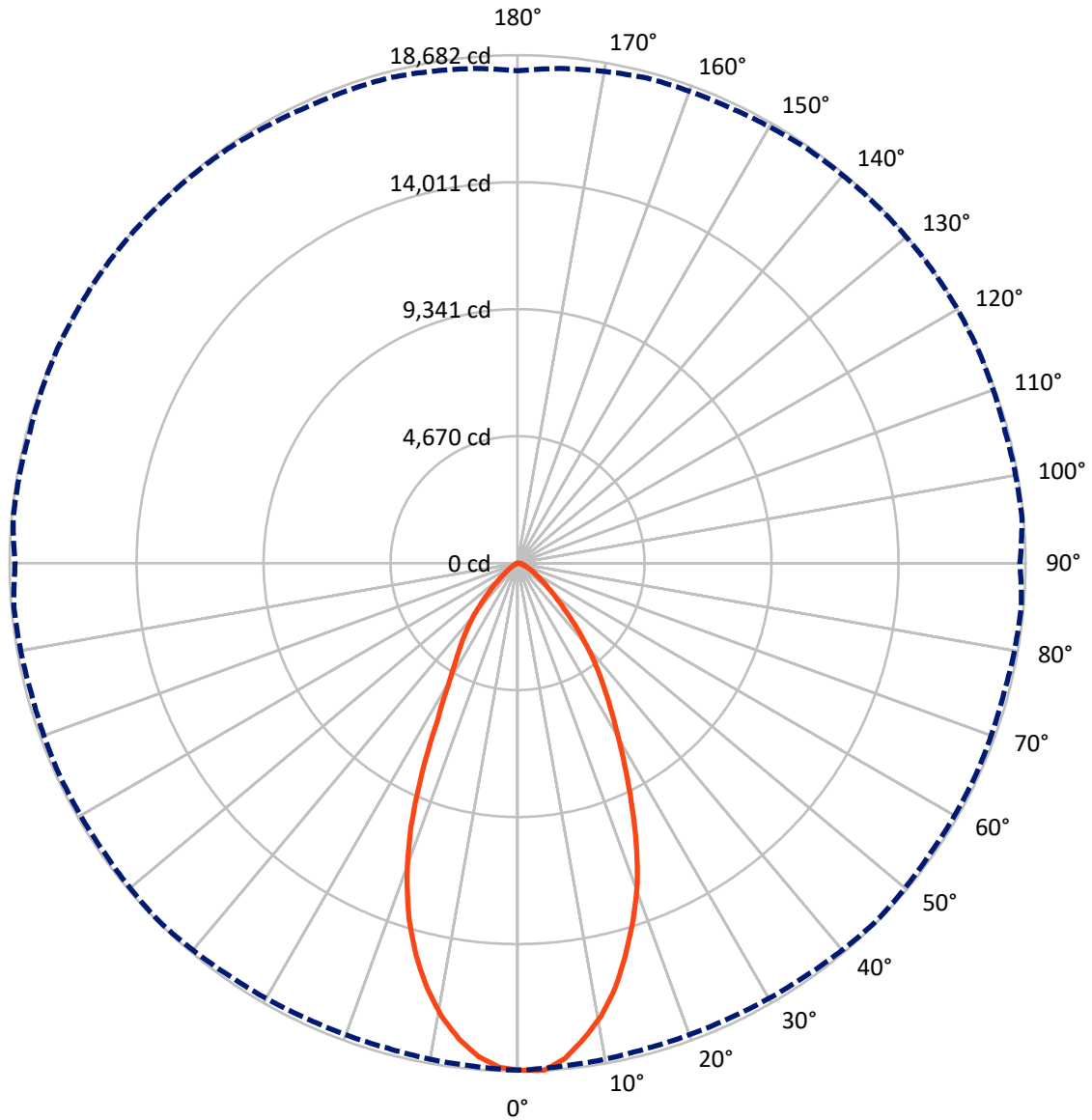
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8858.4	0.0	8858.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6752.7	0.0	6752.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	15611.1	0.0	15611.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1693.6	10.8
10°-20°	4037.2	25.9
20°-30°	4111.8	26.3
30°-40°	3066.2	19.6
40°-50°	1601.8	10.3
50°-60°	673.7	4.3
60°-70°	275.2	1.8
70°-80°	115.8	0.7
80°-90°	35.7	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°	15611.1	100.0
0°-180°	15611.1	100.0



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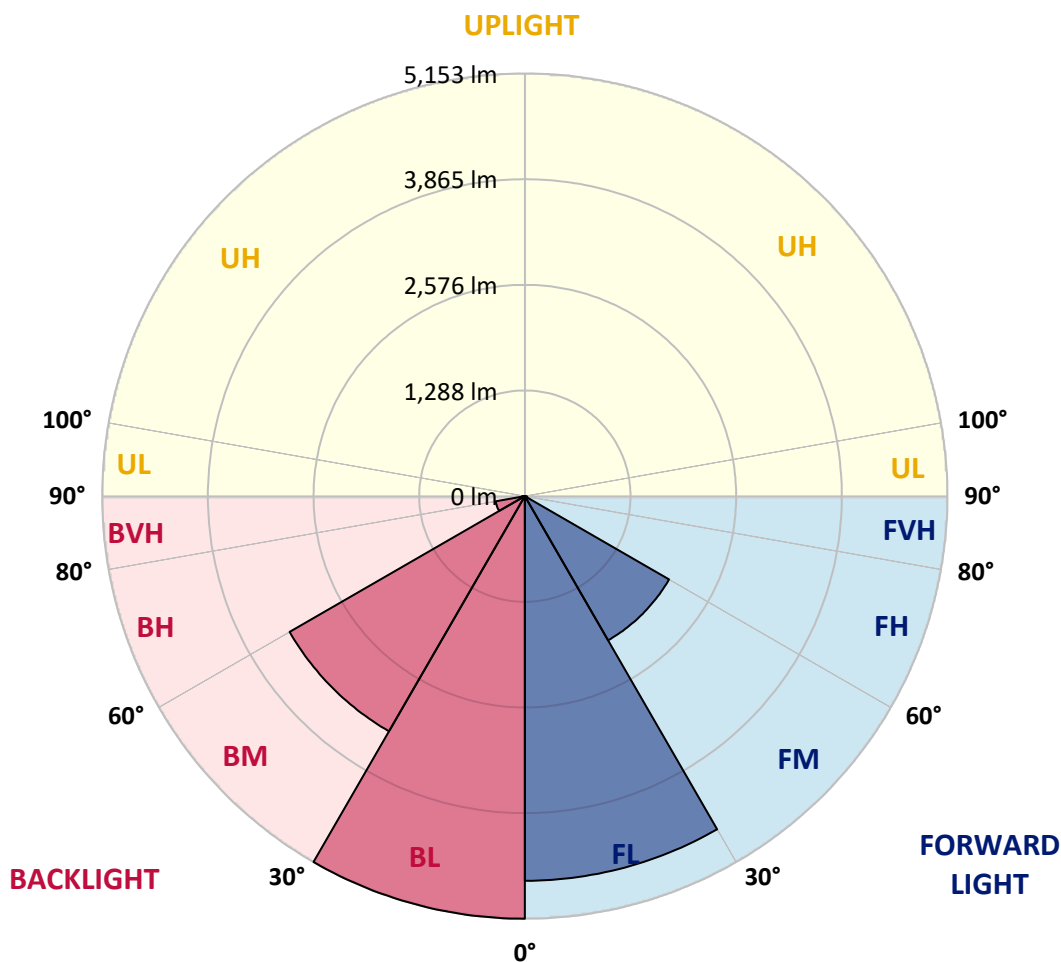
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4689.8	30.0			
FM (30°-60°)	2030.3	13.0			
FH (60°-80°)	29.4	0.2			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	5152.9	33.0	B5		
BM (30°-60°)	3311.5	21.2	B3/5000		
BH (60°-80°)	361.6	2.3	B1/500		G1/500
BVH (80°-90°)	32.4	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5
2.5°	18653.5	18577.3	18469.0	18459.0	18515.1	18637.4	18559.2	18563.2	18515.1	18597.3
5°	18360.7	18288.5	18214.3	18116.1	18198.3	18250.4	18210.3	18166.2	18104.0	18184.2
7.5°	17807.2	17767.1	17656.8	17612.7	17662.9	17721.0	17634.8	17622.8	17536.5	17640.8
10°	16961.0	16945.0	16836.7	16810.6	16854.7	16943.0	16904.8	16896.8	16842.7	16832.7
12.5°	16082.7	16020.5	15886.1	15878.1	15944.3	16076.7	15974.4	15876.1	15906.2	15932.3
15°	13820.7	13754.5	14087.4	14610.8	14885.5	14875.5	14905.5	14787.2	14751.1	14763.2
17.5°	10987.1	10874.9	10995.2	11805.3	13110.8	13868.8	13660.2	13405.6	13269.2	13179.0
20°	9483.2	9489.2	9467.1	9675.7	10489.8	12218.4	12168.3	11677.0	11498.5	11424.3
22.5°	8568.7	8534.6	8486.5	8552.7	8771.3	9786.0	10465.8	10014.6	9952.4	9870.2
25°	7672.4	7672.4	7614.2	7680.4	7742.5	7756.6	8438.4	8622.9	8502.6	8502.6
27.5°	6896.3	6856.2	6830.1	6860.2	6778.0	6382.9	6469.2	7413.7	7331.5	7281.3
30°	6126.3	6114.2	6070.1	6110.2	5805.4	5360.2	5179.7	6256.6	6342.8	6324.8
32.5°	5057.4	5105.5	5302.1	5364.2	4842.8	4483.9	4311.4	5193.8	5538.7	5524.7
35°	3437.1	3477.2	3701.8	4443.8	4014.7	3758.0	3707.8	4131.0	4698.5	4752.6
37.5°	2737.3	2731.2	2795.4	2927.8	3226.6	3164.4	3150.4	3260.7	3832.2	3856.2
40°	2256.0	2248.0	2246.0	2137.7	2063.5	2631.0	2592.9	2526.7	3022.0	3070.1
42.5°	1818.8	1826.8	1832.9	1596.2	1487.9	2029.4	2007.3	1939.1	2370.3	2426.4
45°	1427.8	1425.8	1437.8	1189.2	1159.1	1297.4	1500.0	1445.8	1788.7	1848.9
47.5°	740.0	766.0	928.5	920.4	934.5	920.4	1135.0	1121.0	1345.6	1441.8
50°	497.3	505.3	519.4	521.4	736.0	677.8	770.0	872.3	942.5	1090.9
52.5°	385.0	391.0	354.9	332.9	451.2	501.3	505.3	603.6	657.7	808.1
55°	214.6	240.6	258.7	260.7	248.7	371.0	369.0	447.2	489.3	589.6
57.5°	28.1	34.1	52.1	168.4	166.4	206.5	258.7	324.9	348.9	431.1
60°	2.0	4.0	6.0	26.1	110.3	120.3	176.5	202.5	242.6	302.8
62.5°	0.0	0.0	2.0	6.0	22.1	70.2	92.2	106.3	142.4	198.5
65°	0.0	0.0	2.0	4.0	8.0	26.1	36.1	58.2	84.2	122.3
67.5°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	26.1	44.1	74.2
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	24.1	40.1
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	10.0	12.0	16.0	22.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	10.0	10.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	6.0	10.0	8.0	10.0	10.0	10.0
80°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	10.0	8.0	8.0
82.5°	0.0	0.0	2.0	6.0	6.0	14.0	14.0	14.0	6.0	6.0
85°	0.0	0.0	4.0	6.0	10.0	16.0	16.0	12.0	6.0	4.0
87.5°	0.0	0.0	2.0	4.0	4.0	8.0	12.0	10.0	4.0	2.0
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°
18651.5	0°	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5	18651.5
18477.0	2.5°	18625.4	18575.3	18669.5	18681.6	18641.5	18591.3	18475.0	18465.0	18262.5
18067.9	5°	18272.5	18190.3	18250.4	18290.5	18276.5	18222.3	18174.2	18130.1	17947.6
17404.2	7.5°	17614.7	17584.7	17612.7	17642.8	17701.0	17642.8	17622.8	17576.6	17396.2
16750.4	10°	16884.8	16828.6	16934.9	16920.9	16904.8	16888.8	16804.6	16812.6	16600.0
15860.1	12.5°	15988.4	15894.2	15996.4	16008.5	15996.4	15940.3	15846.0	15886.1	15691.6
14656.9	15°	14783.2	14773.2	14847.4	14895.5	14929.6	14869.4	14837.4	14857.4	14741.1
13108.8	17.5°	13303.3	13433.6	13676.3	13758.5	13760.5	13822.7	13804.6	13780.6	13694.3
11394.2	20°	11562.7	11813.3	12186.3	12569.3	12679.6	12627.5	12603.4	12647.6	12519.2
9784.0	22.5°	9956.4	10171.0	10604.1	11163.6	11486.5	11518.6	11512.5	11474.4	11424.3
8494.5	25°	8592.8	8783.3	9198.4	9709.8	10329.4	10421.6	10425.7	10413.6	10369.5
7325.4	27.5°	7441.7	7672.4	7901.0	8358.2	9017.9	9398.9	9350.8	9336.8	9320.7
6338.8	30°	6399.0	6689.7	6904.3	7189.1	7780.6	8296.0	8346.1	8322.1	8284.0
5522.7	32.5°	5572.8	5745.2	6018.0	6210.5	6635.6	7219.2	7411.7	7393.6	7359.5
4786.7	35°	4854.9	4923.1	5137.6	5352.2	5634.9	6200.5	6485.2	6445.1	6439.1
3900.3	37.5°	3998.6	4227.2	4345.5	4562.1	4760.6	5199.8	5592.8	5574.8	5576.8
3136.3	40°	3228.6	3360.9	3595.5	3778.0	3960.5	4281.4	4718.5	4730.6	4726.5
2428.4	42.5°	2478.6	2606.9	2853.6	3052.1	3214.5	3413.1	3830.2	3844.2	3862.2
1891.0	45°	1935.1	2017.4	2197.8	2404.4	2576.8	2697.2	3014.0	3104.2	3106.2
1465.9	47.5°	1502.0	1596.2	1724.6	1923.1	2091.5	2177.8	2408.4	2530.7	2524.7
1125.0	50°	1179.1	1265.4	1369.6	1526.0	1708.5	1776.7	1947.2	2067.5	2061.5
848.3	52.5°	902.4	1012.7	1104.9	1225.3	1403.7	1461.9	1584.2	1722.6	1702.5
621.6	55°	683.8	796.1	882.3	982.6	1145.0	1219.2	1303.5	1413.8	1417.8
481.3	57.5°	515.4	631.7	709.9	812.2	934.5	1016.7	1080.9	1199.2	1197.2
328.9	60°	369.0	469.2	563.5	669.8	764.0	858.3	902.4	1014.7	1018.7
232.6	62.5°	266.7	361.0	451.2	543.4	627.7	719.9	760.0	848.3	860.3
152.4	65°	186.5	252.7	356.9	427.1	521.4	589.6	641.7	717.9	731.9
90.2	67.5°	120.3	182.5	282.8	344.9	431.1	489.3	543.4	603.6	621.6
58.2	70°	72.2	138.4	210.6	276.7	354.9	407.1	459.2	511.4	521.4
28.1	72.5°	46.1	96.3	152.4	224.6	284.8	340.9	387.0	425.1	395.0
18.0	75°	26.1	66.2	120.3	176.5	230.6	284.8	322.9	342.9	274.7
12.0	77.5°	16.0	48.1	98.3	142.4	178.5	228.6	252.7	264.7	196.5
8.0	80°	10.0	36.1	82.2	116.3	116.3	168.4	196.5	206.5	142.4
6.0	82.5°	8.0	26.1	64.2	88.2	78.2	126.3	154.4	156.4	100.3
4.0	85°	6.0	20.1	40.1	58.2	54.1	88.2	90.2	100.3	66.2
4.0	87.5°	4.0	12.0	24.1	34.1	30.1	42.1	48.1	54.1	36.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18651.5
18104.0
17801.2
17358.1
16527.8
15635.5
14600.7
13566.0
12427.0
11328.1
10221.1
9226.5
8235.9
7269.3
6372.9
5512.6
4656.4
3802.1
3054.1
2502.6
2061.5
1704.5
1417.8
1193.2
1008.7
856.3
727.9
619.6
513.4
367.0
260.7
184.5
132.4
92.2
60.2
32.1
0.0

(END OF REPORT)