

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: P637941

Luminaire Tested: **IFLD-M-SA4A-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637941
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15928.5 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

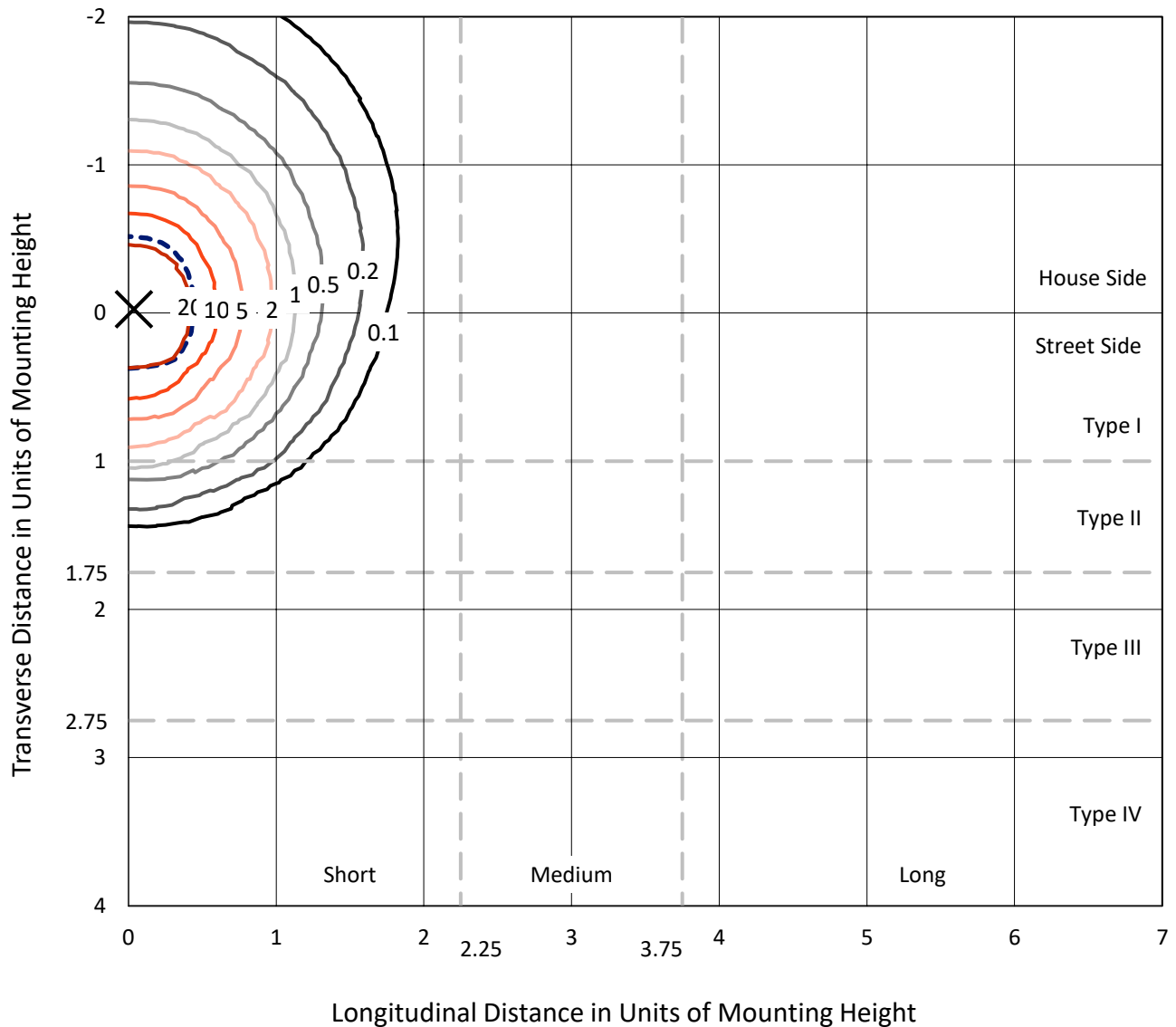
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

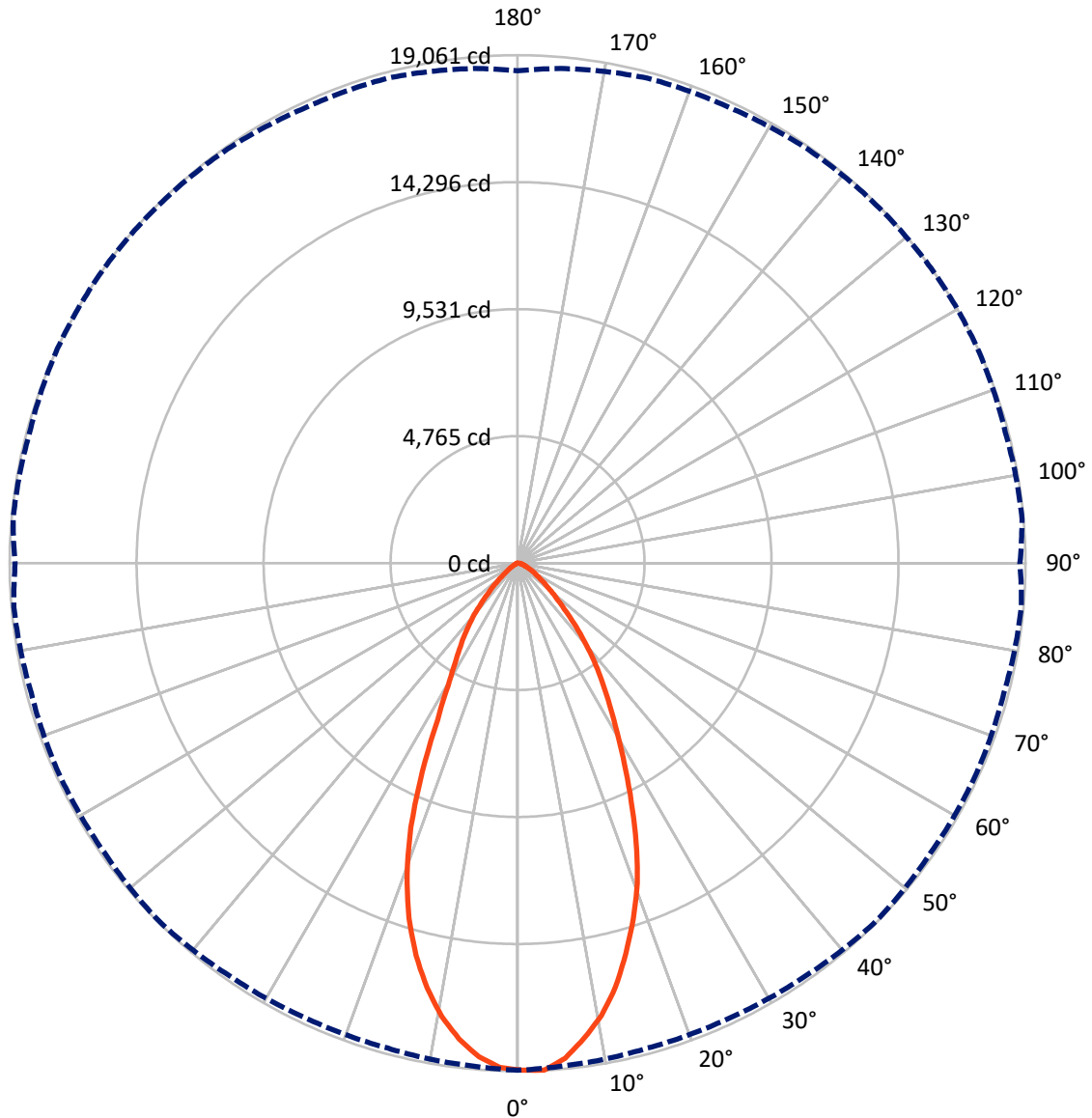
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.6 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	9038.5	0.0	9038.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6890.0	0.0	6890.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	15928.5	0.0	15928.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1728.1	10.8
10°-20°	4119.3	25.9
20°-30°	4195.4	26.3
30°-40°	3128.5	19.6
40°-50°	1634.4	10.3
50°-60°	687.4	4.3
60°-70°	280.8	1.8
70°-80°	118.1	0.7
80°-90°	36.4	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°	15928.5	100.0
0°-180°	15928.5	100.0



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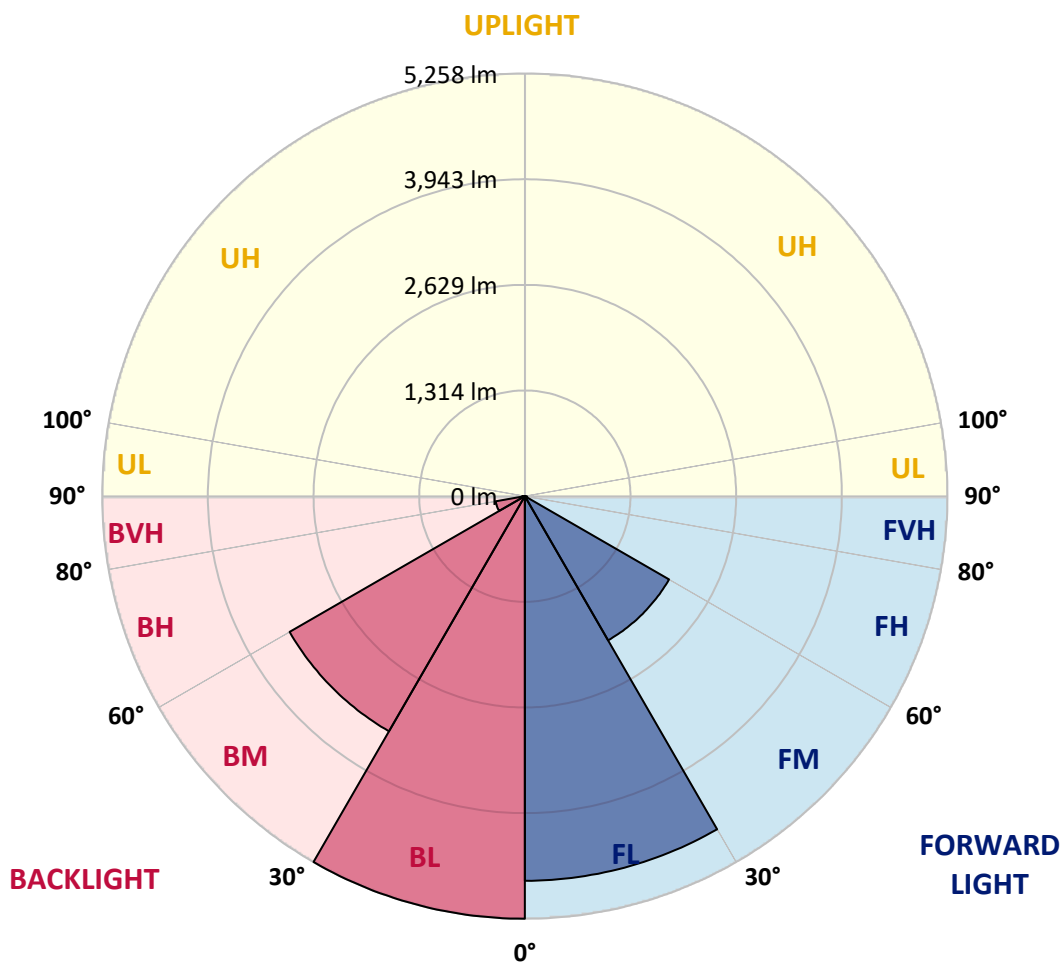
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4785.1	30.0			
FM (30°-60°)	2071.6	13.0			
FH (60°-80°)	30.0	0.2			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	5257.7	33.0	B5		
BM (30°-60°)	3378.8	21.2	B3/5000		
BH (60°-80°)	368.9	2.3	B1/500		G1/500
BVH (80°-90°)	33.0	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7
2.5°	19032.8	18955.0	18844.5	18834.3	18891.6	19016.4	18936.6	18940.7	18891.6	18975.5
5°	18734.0	18660.4	18584.7	18484.4	18568.3	18621.5	18580.6	18535.6	18472.1	18554.0
7.5°	18169.3	18128.4	18015.8	17970.8	18022.0	18081.3	17993.3	17981.1	17893.1	17999.5
10°	17305.9	17289.5	17179.0	17152.4	17197.4	17287.4	17248.6	17240.4	17185.1	17174.9
12.5°	16409.7	16346.2	16209.1	16201.0	16268.5	16403.5	16299.2	16198.9	16229.6	16256.2
15°	14101.7	14034.2	14373.8	14907.8	15188.1	15177.9	15208.6	15087.9	15051.1	15063.3
17.5°	11210.5	11096.0	11218.7	12045.3	13377.4	14150.8	13938.0	13678.1	13539.0	13446.9
20°	9676.0	9682.1	9659.6	9872.4	10703.1	12466.8	12415.7	11914.4	11732.3	11656.6
22.5°	8743.0	8708.2	8659.1	8726.6	8949.6	9984.9	10678.6	10218.2	10154.8	10070.9
25°	7828.4	7828.4	7769.0	7836.5	7900.0	7914.3	8610.0	8798.2	8675.4	8675.4
27.5°	7036.5	6995.6	6969.0	6999.7	6915.8	6512.7	6600.7	7564.4	7480.5	7429.4
30°	6250.8	6238.5	6193.5	6234.4	5923.4	5469.2	5285.1	6383.8	6471.8	6453.4
32.5°	5160.2	5209.4	5409.9	5473.3	4941.3	4575.1	4399.1	5299.4	5651.3	5637.0
35°	3507.0	3547.9	3777.1	4534.1	4096.3	3834.4	3783.2	4215.0	4794.0	4849.2
37.5°	2792.9	2786.8	2852.3	2987.3	3292.2	3228.7	3214.4	3326.9	3910.1	3934.6
40°	2301.9	2293.7	2291.6	2181.1	2105.4	2684.5	2645.6	2578.1	3083.5	3132.6
42.5°	1855.8	1864.0	1870.1	1628.7	1518.2	2070.6	2048.1	1978.6	2418.5	2475.8
45°	1456.8	1454.8	1467.0	1213.3	1182.6	1323.8	1530.5	1475.2	1825.1	1886.5
47.5°	755.0	781.6	947.3	939.2	953.5	939.2	1158.1	1143.8	1372.9	1471.1
50°	507.4	515.6	529.9	532.0	750.9	691.6	785.7	890.1	961.7	1113.1
52.5°	392.8	399.0	362.2	339.7	460.4	511.5	515.6	615.9	671.1	824.6
55°	218.9	245.5	263.9	266.0	253.7	378.5	376.5	456.3	499.2	601.6
57.5°	28.6	34.8	53.2	171.9	169.8	210.7	263.9	331.5	356.0	439.9
60°	2.0	4.1	6.1	26.6	112.5	122.8	180.1	206.7	247.6	309.0
62.5°	0.0	0.0	2.0	6.1	22.5	71.6	94.1	108.4	145.3	202.6
65°	0.0	0.0	2.0	4.1	8.2	26.6	36.8	59.3	85.9	124.8
67.5°	0.0	0.0	2.0	4.1	6.1	10.2	16.4	26.6	45.0	75.7
70°	0.0	0.0	2.0	4.1	6.1	8.2	12.3	16.4	24.6	40.9
72.5°	0.0	0.0	2.0	2.0	4.1	10.2	10.2	12.3	16.4	22.5
75°	0.0	0.0	2.0	4.1	6.1	10.2	10.2	10.2	12.3	14.3
77.5°	0.0	0.0	2.0	4.1	6.1	10.2	8.2	10.2	10.2	10.2
80°	0.0	0.0	2.0	4.1	6.1	10.2	12.3	10.2	8.2	8.2
82.5°	0.0	0.0	2.0	6.1	6.1	14.3	14.3	14.3	6.1	6.1
85°	0.0	0.0	4.1	6.1	10.2	16.4	16.4	12.3	6.1	4.1
87.5°	0.0	0.0	2.0	4.1	4.1	8.2	12.3	10.2	4.1	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°
19030.7	0°	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7	19030.7
18852.7	2.5°	19004.1	18953.0	19049.1	19061.4	19020.5	18969.3	18850.7	18840.4	18633.8
18435.3	5°	18644.0	18560.1	18621.5	18662.4	18648.1	18592.8	18543.7	18498.7	18312.5
17758.0	7.5°	17972.9	17942.2	17970.8	18001.5	18060.9	18001.5	17981.1	17934.0	17749.9
17091.0	10°	17228.1	17170.8	17279.3	17264.9	17248.6	17232.2	17146.3	17154.4	16937.6
16182.5	12.5°	16313.5	16217.3	16321.7	16334.0	16321.7	16264.4	16168.2	16209.1	16010.7
14954.9	15°	15083.8	15073.6	15149.3	15198.4	15233.2	15171.8	15139.0	15159.5	15040.8
13375.3	17.5°	13573.8	13706.8	13954.4	14038.2	14040.3	14103.7	14085.3	14060.8	13972.8
11625.9	20°	11797.8	12053.5	12434.1	12824.9	12937.4	12884.2	12859.7	12904.7	12773.8
9982.9	22.5°	10158.9	10377.8	10819.7	11390.6	11720.0	11752.8	11746.6	11707.7	11656.6
8667.2	25°	8767.5	8961.9	9385.4	9907.2	10539.4	10633.5	10637.6	10625.4	10580.3
7474.4	27.5°	7593.1	7828.4	8061.6	8528.1	9201.3	9590.0	9540.9	9526.6	9510.2
6467.7	30°	6529.1	6825.8	7044.7	7335.2	7938.8	8464.7	8515.8	8491.3	8452.4
5634.9	32.5°	5686.1	5862.1	6140.3	6336.7	6770.5	7365.9	7562.4	7543.9	7509.2
4884.0	35°	4953.6	5023.2	5242.1	5461.0	5749.5	6326.5	6617.1	6576.1	6570.0
3979.7	37.5°	4079.9	4313.2	4433.9	4654.9	4857.4	5305.5	5706.6	5688.1	5690.2
3200.1	40°	3294.2	3429.3	3668.6	3854.8	4041.0	4368.4	4814.5	4826.7	4822.6
2477.8	42.5°	2529.0	2659.9	2911.6	3114.2	3279.9	3482.5	3908.0	3922.4	3940.8
1929.5	45°	1974.5	2058.4	2242.5	2453.3	2629.2	2752.0	3075.3	3167.4	3169.4
1495.7	47.5°	1532.5	1628.7	1759.6	1962.2	2134.1	2222.1	2457.4	2582.2	2576.0
1147.9	50°	1203.1	1291.1	1397.5	1557.1	1743.3	1812.8	1986.8	2109.5	2103.4
865.5	52.5°	920.7	1033.3	1127.4	1250.2	1432.3	1491.6	1616.4	1757.6	1737.1
634.3	55°	697.7	812.3	900.3	1002.6	1168.3	1244.0	1330.0	1442.5	1446.6
491.1	57.5°	525.8	644.5	724.3	828.7	953.5	1037.4	1102.8	1223.6	1221.5
335.6	60°	376.5	478.8	575.0	683.4	779.6	875.7	920.7	1035.3	1039.4
237.3	62.5°	272.1	368.3	460.4	554.5	640.4	734.5	775.5	865.5	877.8
155.5	65°	190.3	257.8	364.2	435.8	532.0	601.6	654.7	732.5	746.8
92.1	67.5°	122.8	186.2	288.5	351.9	439.9	499.2	554.5	615.9	634.3
59.3	70°	73.7	141.2	214.8	282.4	362.2	415.4	468.6	521.8	532.0
28.6	72.5°	47.1	98.2	155.5	229.2	290.5	347.8	394.9	433.8	403.1
18.4	75°	26.6	67.5	122.8	180.1	235.3	290.5	329.4	349.9	280.3
12.3	77.5°	16.4	49.1	100.3	145.3	182.1	233.3	257.8	270.1	200.5
8.2	80°	10.2	36.8	83.9	118.7	118.7	171.9	200.5	210.7	145.3
6.1	82.5°	8.2	26.6	65.5	90.0	79.8	128.9	157.5	159.6	102.3
4.1	85°	6.1	20.5	40.9	59.3	55.2	90.0	92.1	102.3	67.5
4.1	87.5°	4.1	12.3	24.6	34.8	30.7	43.0	49.1	55.2	36.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19030.7
18472.1
18163.2
17711.0
16863.9
15953.4
14897.6
13841.8
12679.6
11558.4
10428.9
9414.1
8403.3
7417.1
6502.5
5624.7
4751.0
3879.4
3116.2
2553.5
2103.4
1739.2
1446.6
1217.4
1029.2
873.7
742.7
632.2
523.8
374.4
266.0
188.2
135.0
94.1
61.4
32.7
0.0

(END OF REPORT)