

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: P636842

Luminaire Tested: **IFLD-M-SA4D-950-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-950-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17388 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

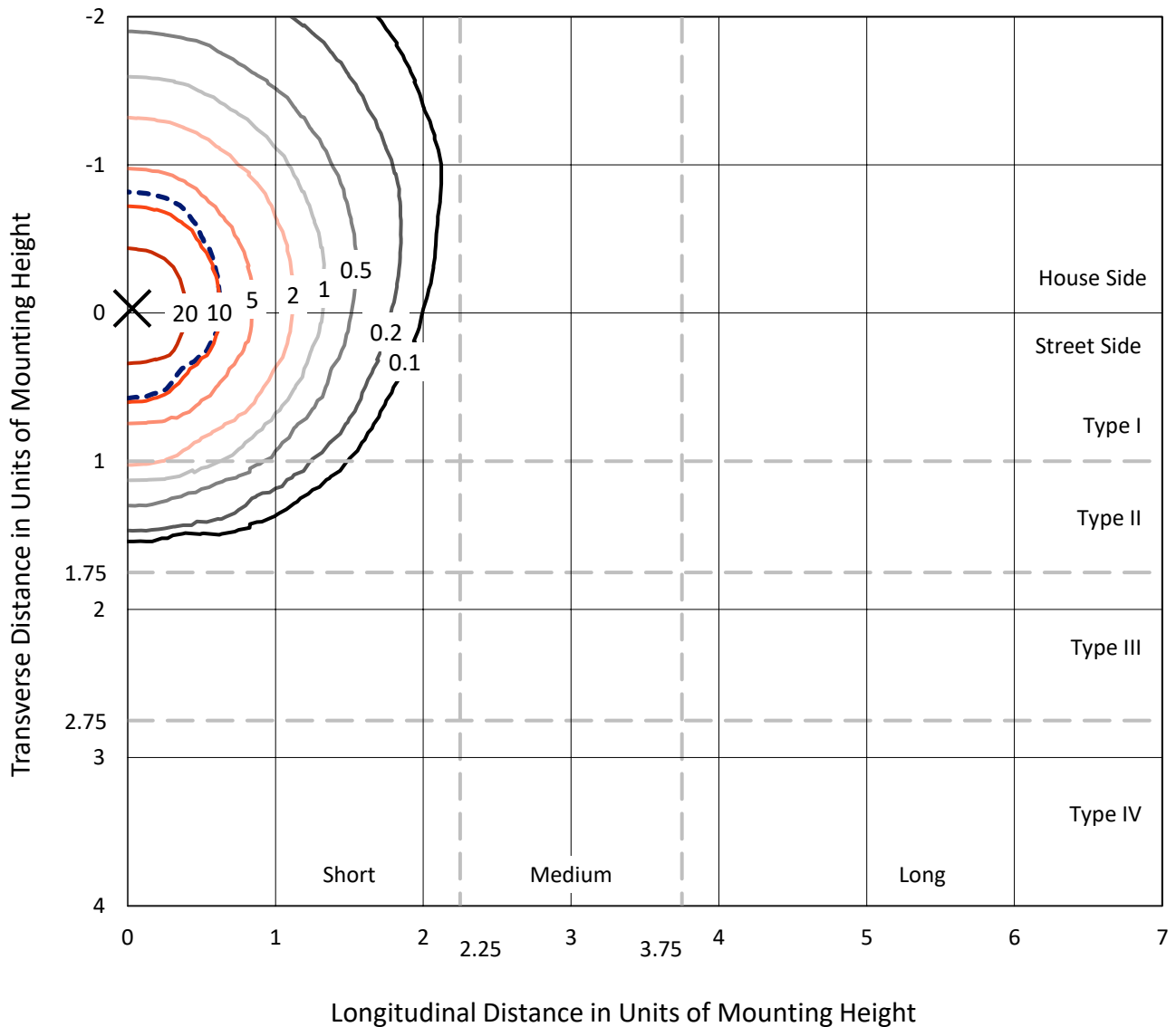
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

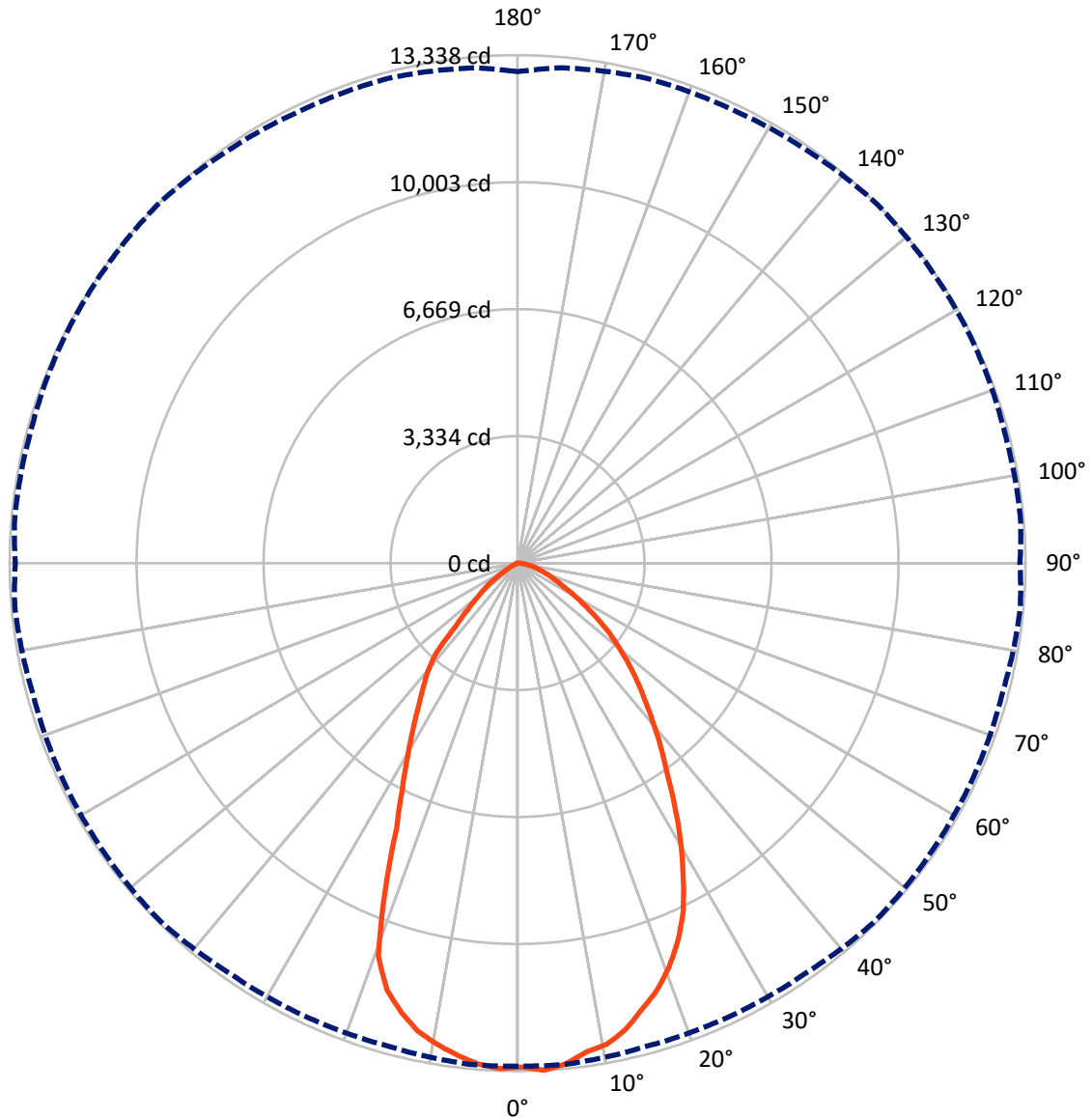
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10298.1	0.0	10298.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7089.9	0.0	7089.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1241.0	7.1
10°-20°	3327.7	19.1
20°-30°	4058.4	23.3
30°-40°	3705.2	21.3
40°-50°	2677.7	15.4
50°-60°	1462.1	8.4
60°-70°	604.5	3.5
70°-80°	244.8	1.4
80°-90°	66.6	0.4
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°	17388.0	100.0
0°-180°	17388.0	100.0



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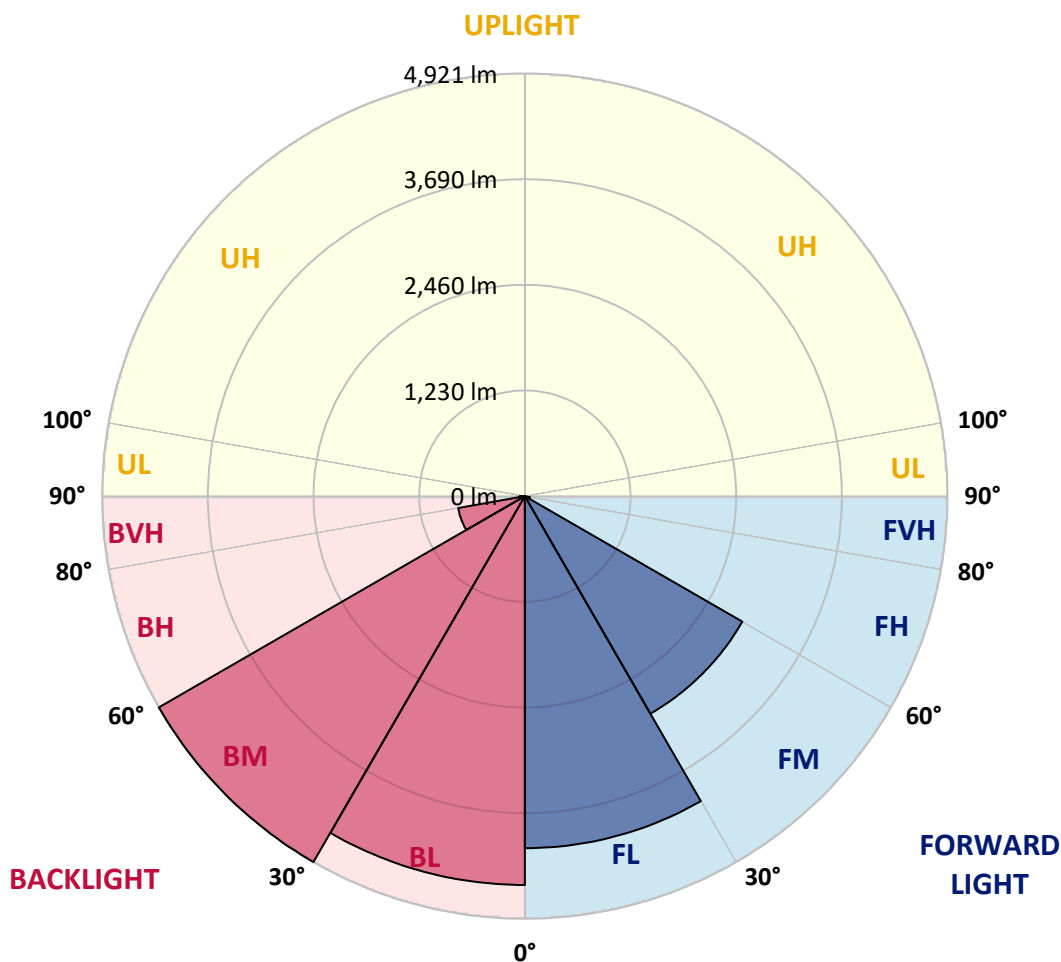
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4099.0	23.6			
FM (30°-60°)	2924.3	16.8			
FH (60°-80°)	61.3	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4528.1	26.0	B4/5000		
BM (30°-60°)	4920.7	28.3	B3/5000		
BH (60°-80°)	788.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2
2.5°	13207.7	13224.9	13131.8	13141.6	13158.8	13283.6	13251.8	13222.4	13180.8	13251.8
5°	13190.6	13200.4	13102.4	13068.2	13082.9	13195.5	13092.6	13092.6	13082.9	13070.6
7.5°	13058.4	13063.3	12987.4	12926.1	12965.3	13016.7	12940.8	12977.6	12923.7	12965.3
10°	12860.0	12828.2	12737.6	12720.5	12764.5	12813.5	12762.1	12796.4	12747.4	12779.2
12.5°	12568.6	12519.7	12446.2	12424.2	12500.1	12566.2	12524.6	12505.0	12441.3	12519.7
15°	11444.7	11408.0	11574.5	11865.9	12127.9	12184.2	12140.1	12159.7	12027.5	12049.5
17.5°	9419.8	9351.2	9529.9	10220.4	11204.8	11723.9	11684.7	11557.4	11361.5	11405.6
20°	8560.3	8540.7	8521.1	8685.2	9373.2	10947.7	11001.5	10678.3	10399.2	10338.0
22.5°	8075.5	8068.1	8048.5	8085.3	8266.5	9277.7	9894.8	9596.0	9410.0	9392.8
25°	7632.3	7620.0	7561.3	7607.8	7607.8	7666.6	8457.5	8638.6	8474.6	8455.0
27.5°	7181.7	7159.7	7149.9	7171.9	7059.3	6662.6	6863.4	7747.4	7661.7	7666.6
30°	6694.5	6687.1	6660.2	6706.7	6359.0	5866.8	5739.5	6939.3	6956.5	6951.6
32.5°	5969.7	6001.5	6123.9	6175.4	5602.4	5195.9	4982.9	6004.0	6354.1	6346.8
35°	4336.5	4336.5	4735.6	5477.5	4909.4	4603.4	4488.3	5090.6	5759.1	5783.6
37.5°	3565.2	3577.4	3655.8	3993.7	4236.1	4128.3	4094.1	4285.0	4995.1	5034.3
40°	3207.7	3207.7	3207.7	3068.1	3060.7	3719.4	3699.8	3638.6	4314.4	4400.1
42.5°	2882.0	2889.3	2894.2	2541.6	2345.8	3215.0	3170.9	3077.9	3704.7	3805.1
45°	2546.5	2558.8	2573.5	2125.4	2039.7	2313.9	2683.7	2580.8	3102.4	3232.1
47.5°	1554.9	1574.4	1907.5	1802.2	1812.0	1785.0	2189.0	2171.9	2544.1	2727.7
50°	1050.4	1057.8	1089.6	1143.5	1554.9	1403.0	1550.0	1797.3	1931.9	2211.1
52.5°	881.5	893.7	815.4	741.9	1021.1	1097.0	1082.3	1334.5	1388.4	1733.6
55°	619.5	658.7	621.9	614.6	580.3	852.1	820.3	1026.0	1060.2	1317.3
57.5°	63.7	73.5	127.3	457.9	379.5	482.4	585.2	751.7	786.0	972.1
60°	4.9	4.9	12.2	63.7	276.7	288.9	404.0	462.8	528.9	678.3
62.5°	0.0	2.4	4.9	9.8	44.1	154.3	203.2	242.4	318.3	438.3
65°	0.0	0.0	2.4	7.3	9.8	58.8	78.4	127.3	173.9	271.8
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.5	93.0	154.3
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.4	41.6	83.3
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.6	29.4	41.6
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.6	26.9
77.5°	0.0	0.0	2.4	4.9	7.3	14.7	12.2	14.7	14.7	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.7	14.7	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.6	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.5	24.5	19.6	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.5	19.6	7.3	2.4
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°
13232.2	0°	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2	13232.2
13190.6	2.5°	13256.7	13242.0	13291.0	13310.6	13337.5	13234.7	13171.0	13173.4	13055.9
13041.2	5°	13119.6	13122.0	13185.7	13180.8	13207.7	13151.4	13126.9	13085.3	12982.5
12852.7	7.5°	12945.7	12923.7	12984.9	13031.4	12962.9	13002.0	12945.7	12965.3	12904.1
12686.2	10°	12811.1	12759.6	12816.0	12847.8	12850.2	12811.1	12757.2	12705.8	12683.7
12426.6	12.5°	12512.3	12446.2	12541.7	12585.8	12578.4	12502.5	12441.3	12453.6	12382.6
11971.2	15°	12101.0	12103.4	12172.0	12213.6	12174.4	12157.3	12162.2	12132.8	12071.6
11341.9	17.5°	11471.7	11508.4	11689.6	11790.0	11812.0	11777.7	11760.6	11726.3	11665.1
10338.0	20°	10423.7	10644.0	10967.3	11278.2	11339.4	11329.7	11268.4	11253.7	11219.5
9343.8	22.5°	9503.0	9667.1	10041.7	10526.5	10776.3	10800.8	10727.3	10705.3	10668.5
8455.0	25°	8550.5	8726.8	9064.7	9591.2	10107.8	10213.1	10200.9	10134.7	10095.6
7666.6	27.5°	7747.4	7923.7	8229.7	8704.8	9258.1	9596.0	9627.9	9522.6	9520.1
6963.8	30°	7022.6	7265.0	7497.6	7884.5	8420.7	8927.6	8981.5	8908.0	8915.3
6319.8	32.5°	6454.5	6655.3	6853.6	7113.2	7558.8	8148.9	8359.5	8290.9	8264.0
5783.6	35°	5874.2	6011.3	6214.5	6452.1	6755.7	7340.9	7705.7	7654.3	7627.4
5058.8	37.5°	5213.1	5448.1	5595.0	5861.9	6099.5	6564.7	7078.9	7071.5	7015.2
4441.8	40°	4534.8	4782.1	5004.9	5274.3	5457.9	5827.7	6398.2	6395.7	6403.1
3802.7	42.5°	3920.2	4147.9	4417.3	4711.1	4887.4	5156.7	5768.9	5803.2	5844.8
3276.2	45°	3364.4	3570.1	3819.8	4177.3	4390.3	4544.6	5088.2	5244.9	5242.4
2806.1	47.5°	2864.9	3058.3	3268.9	3616.6	3888.4	4027.9	4478.5	4701.3	4686.6
2301.7	50°	2404.5	2575.9	2796.3	3048.5	3413.3	3535.8	3871.2	4165.1	4143.0
1834.0	52.5°	1934.4	2171.9	2358.0	2588.2	2972.6	3092.6	3352.1	3638.6	3621.5
1376.1	55°	1508.3	1738.5	1963.8	2162.1	2485.3	2664.1	2850.2	3144.0	3139.1
1077.4	57.5°	1141.0	1393.3	1606.3	1794.8	2051.9	2272.3	2421.7	2688.6	2722.8
737.0	60°	844.8	1038.2	1268.4	1479.0	1682.2	1909.9	2010.3	2272.3	2287.0
504.4	62.5°	575.4	788.4	1013.7	1204.7	1356.5	1591.6	1682.2	1897.7	1924.6
323.2	65°	399.1	536.2	793.3	930.5	1116.6	1317.3	1407.9	1579.3	1633.2
186.1	67.5°	264.4	382.0	619.5	744.4	928.0	1065.1	1180.2	1319.8	1378.6
117.5	70°	144.5	281.6	443.2	587.7	746.8	879.0	991.7	1104.3	1155.7
53.9	72.5°	97.9	188.5	308.5	465.2	602.4	732.1	832.5	915.8	918.2
31.8	75°	49.0	127.3	235.1	359.9	470.1	597.5	688.1	737.0	678.3
19.6	77.5°	29.4	93.0	191.0	288.9	382.0	482.4	533.8	560.7	465.2
14.7	80°	17.1	66.1	149.4	230.2	264.4	355.0	404.0	411.4	311.0
9.8	82.5°	12.2	49.0	117.5	169.0	161.6	249.8	303.6	293.8	198.3
7.3	85°	7.3	34.3	73.5	105.3	97.9	164.1	176.3	181.2	115.1
4.9	87.5°	4.9	19.6	39.2	56.3	46.5	71.0	71.0	85.7	56.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13232.2
12904.1
12958.0
12801.3
12585.8
12321.3
12010.4
11638.2
11141.1
10658.7
10053.9
9515.2
8878.6
8266.5
7590.6
7061.8
6403.1
5822.8
5247.3
4691.5
4162.6
3658.2
3151.3
2708.1
2309.0
1929.5
1621.0
1371.2
1136.1
896.2
634.2
448.1
291.4
183.6
105.3
49.0
0.0

(END OF REPORT)