

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: P637514

Luminaire Tested: **IFLD-L-SA7D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637514
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37383.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

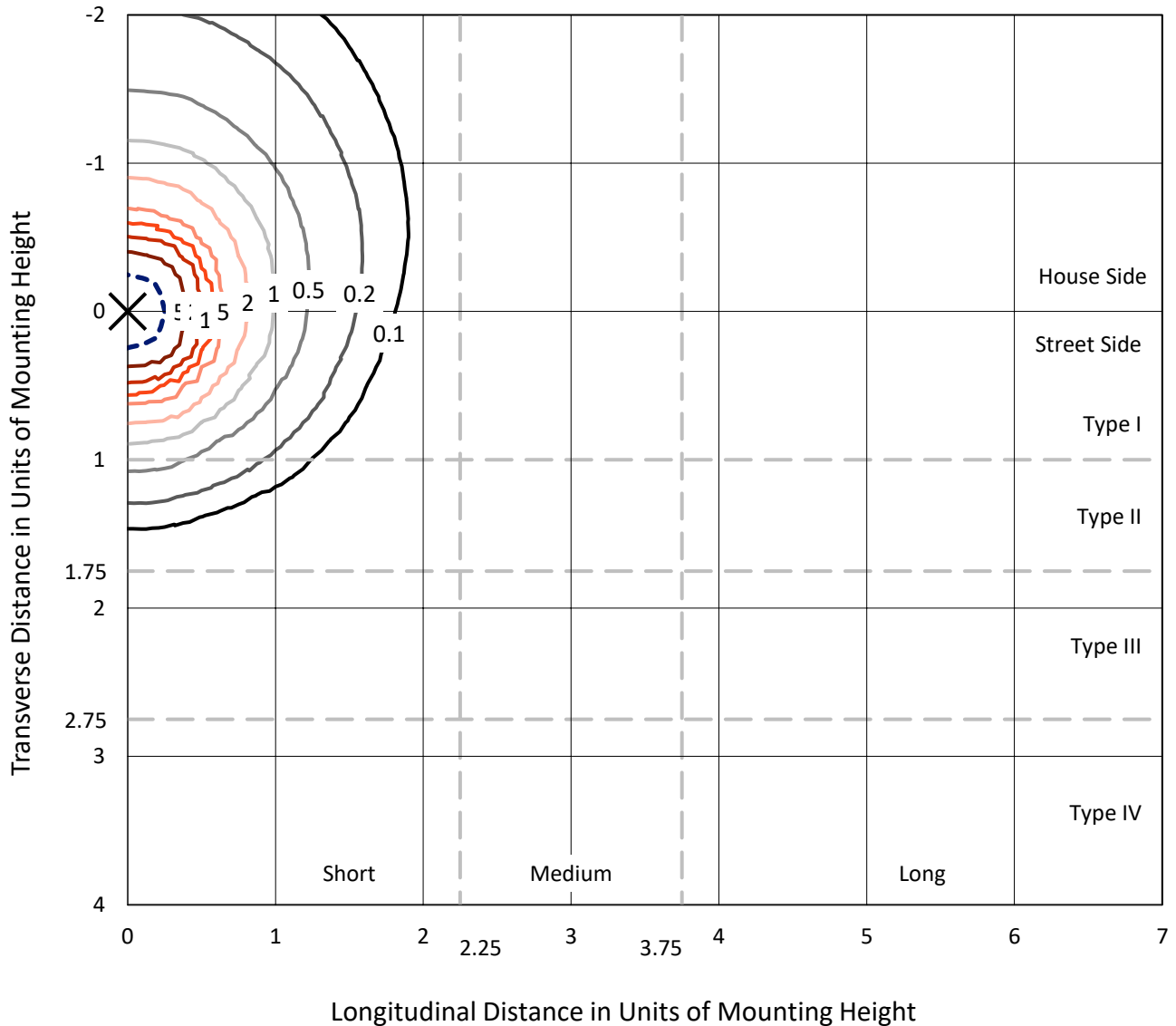
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

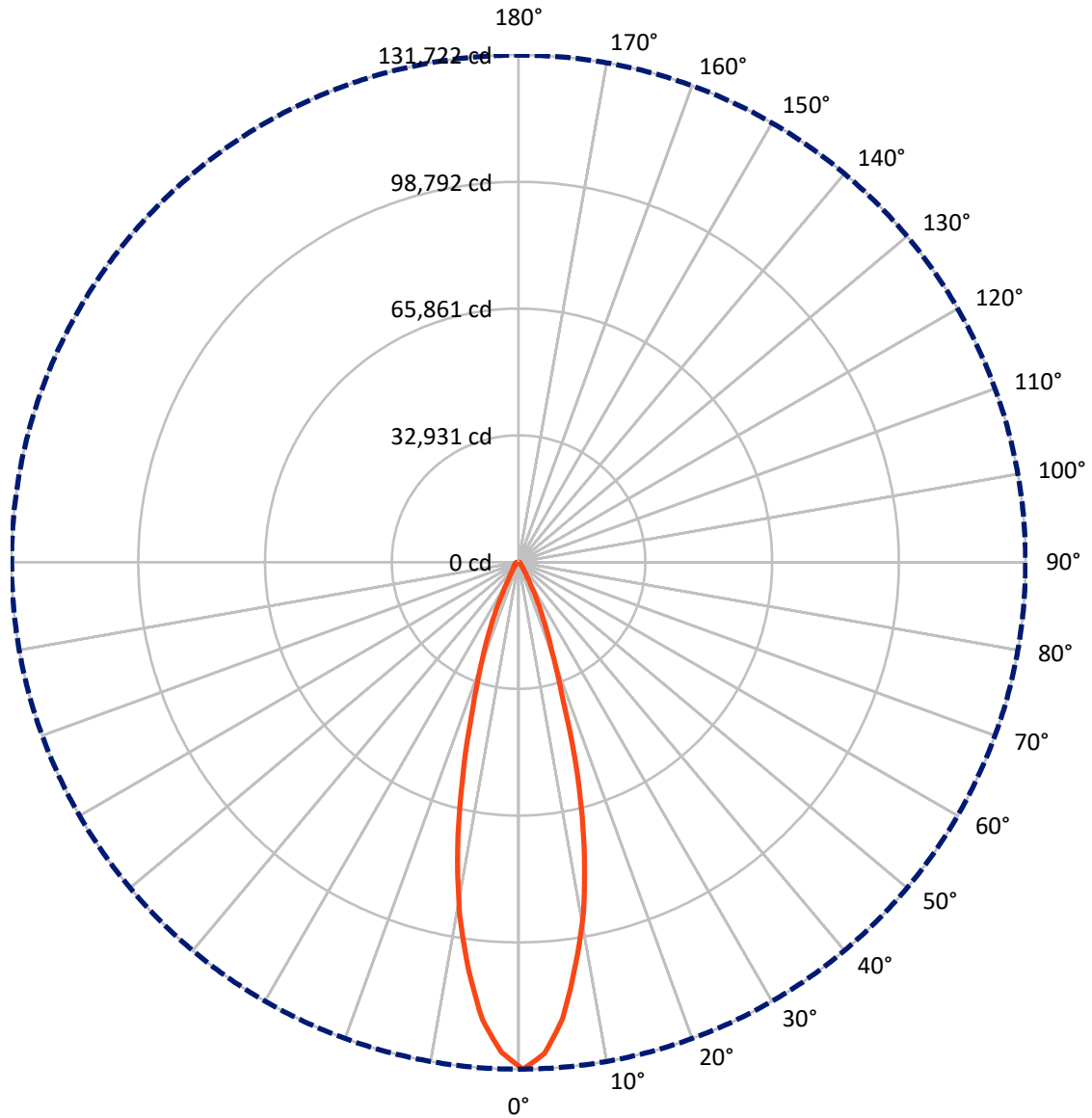
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 329.3 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
House Side	Lumens	19710.9	0.0	19710.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	17672.3	0.0	17672.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	37383.2	0.0	37383.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10631.2	28.4
10°-20°	16100.8	43.1
20°-30°	6794.6	18.2
30°-40°	1772.1	4.7
40°-50°	896.3	2.4
50°-60°	585.9	1.6
60°-70°	351.0	0.9
70°-80°	184.6	0.5
80°-90°	66.7	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°	37383.2	100.0
0°-180°	37383.2	100.0



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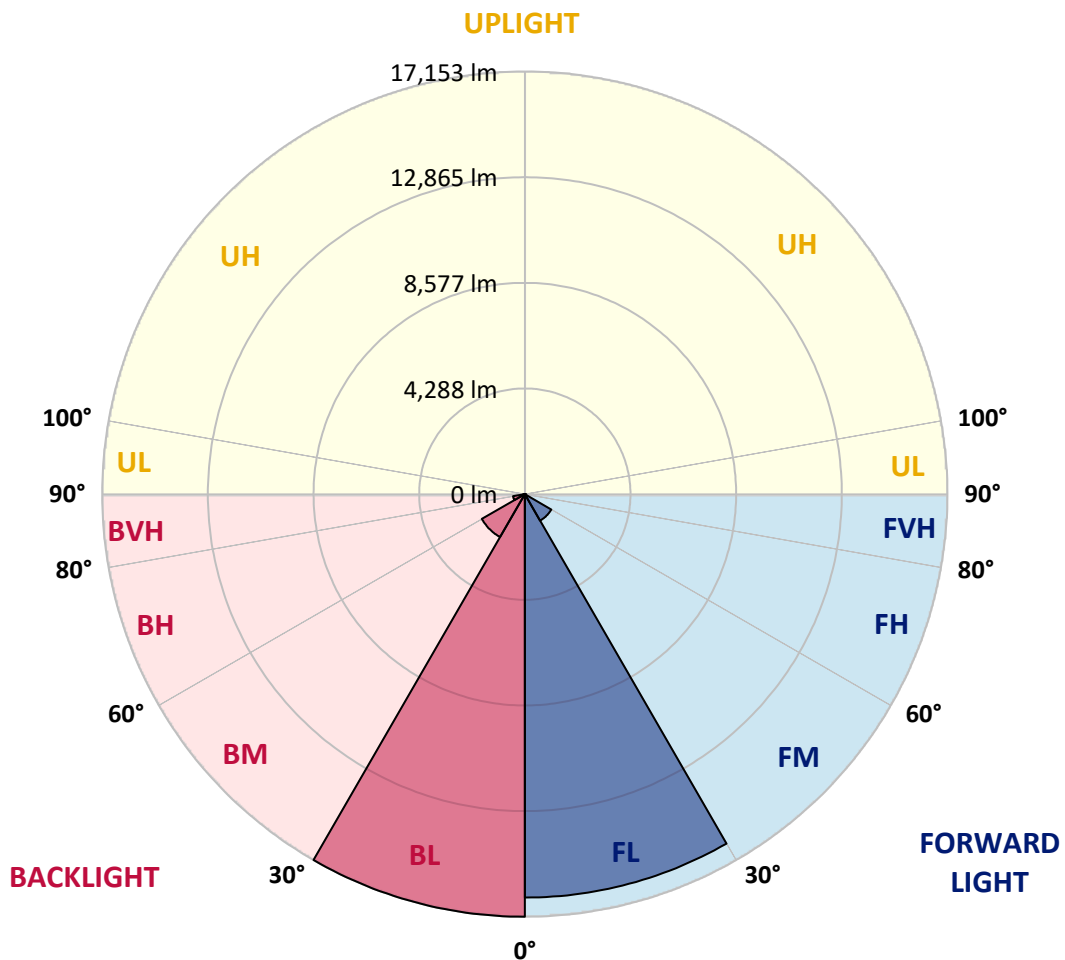
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16373.6	43.8			
FM (30°-60°)	1240.0	3.3			
FH (60°-80°)	50.5	0.1			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	17153.0	45.9	B5		
BM (30°-60°)	2014.2	5.4	B2/2500		
BH (60°-80°)	485.1	1.3	B1/500		G0/660
BVH (80°-90°)	58.6	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°	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3
2.5°	127885.1	127956.5	127692.0	128263.0	127818.0	129010.3	128418.3	129341.9	129031.3	129547.6
5°	119152.9	119035.4	118959.8	119845.6	119589.5	120870.0	120051.3	119782.6	120613.9	120462.8
7.5°	105966.4	106277.1	106100.8	106331.7	106461.8	107922.8	108384.6	108023.5	108036.1	108246.0
10°	92448.3	91990.7	91339.9	91772.3	92687.6	93325.7	93069.6	93598.6	93481.0	93980.6
12.5°	75815.0	76176.1	75810.8	75424.6	77024.1	76847.8	77292.8	77582.5	76856.2	78472.5
15°	57107.9	57296.8	57741.9	57712.5	58942.5	59190.2	59131.5	59437.9	58871.2	59139.8
17.5°	36687.9	37326.1	38522.6	40546.1	42821.5	43086.0	43018.8	42766.9	42494.0	42191.8
20°	24643.4	24576.2	25008.6	25600.5	30310.9	31557.8	31520.0	30730.7	29588.8	29370.5
22.5°	17262.9	17388.9	17330.1	17917.9	18891.8	22330.2	21906.1	21104.3	20730.6	20487.1
25°	11356.1	11309.9	11603.8	11780.1	12615.5	13035.4	14521.5	14223.5	13648.3	13711.3
27.5°	6922.8	6981.6	7090.7	7241.9	7833.8	7699.5	8547.5	8660.9	8476.1	8278.8
30°	4248.6	4290.5	4378.7	4487.9	4693.6	4546.6	4781.7	5189.0	5121.8	4983.2
32.5°	2884.2	2888.4	2951.3	2993.3	2968.1	2829.6	2905.1	3291.4	3299.8	3287.2
35°	2073.9	2073.9	2132.7	2166.3	2094.9	1981.5	1994.1	2233.4	2338.4	2359.4
37.5°	1431.6	1435.8	1536.5	1637.3	1557.5	1528.1	1477.8	1637.3	1805.2	1830.4
40°	1087.3	1083.1	1133.5	1209.1	1217.5	1162.9	1179.7	1280.4	1452.6	1473.6
42.5°	881.6	885.8	911.0	902.6	906.8	978.2	1003.4	1049.5	1209.1	1246.9
45°	743.1	747.3	759.9	717.9	701.1	810.2	843.8	869.0	1003.4	1049.5
47.5°	612.9	621.3	633.9	587.7	579.3	650.7	709.5	734.7	852.2	902.6
50°	440.8	449.2	495.4	470.2	495.4	512.2	591.9	629.7	709.5	776.7
52.5°	319.1	327.5	340.1	344.3	407.2	415.6	474.4	533.2	571.0	646.5
55°	251.9	260.3	251.9	243.5	298.1	344.3	365.2	428.2	457.6	545.8
57.5°	142.7	151.1	163.7	188.9	197.3	264.5	285.5	340.1	365.2	449.2
60°	25.2	29.4	46.2	113.4	138.5	167.9	214.1	260.3	293.9	352.6
62.5°	4.2	4.2	8.4	25.2	79.8	117.5	155.3	184.7	214.1	268.7
65°	0.0	0.0	4.2	8.4	21.0	67.2	84.0	109.2	146.9	193.1
67.5°	0.0	0.0	4.2	8.4	12.6	25.2	37.8	67.2	84.0	130.1
70°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	29.4	50.4	79.8
72.5°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	25.2	25.2	50.4
75°	0.0	0.0	4.2	8.4	12.6	21.0	25.2	25.2	21.0	21.0
77.5°	0.0	0.0	4.2	8.4	16.8	25.2	29.4	25.2	16.8	16.8
80°	0.0	0.0	8.4	12.6	21.0	29.4	37.8	29.4	16.8	8.4
82.5°	0.0	0.0	8.4	16.8	21.0	33.6	46.2	37.8	16.8	8.4
85°	0.0	0.0	4.2	12.6	25.2	33.6	46.2	33.6	16.8	4.2
87.5°	0.0	0.0	4.2	4.2	8.4	12.6	25.2	21.0	8.4	4.2
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°
131722.3	0°	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3	131722.3
128569.5	2.5°	129308.3	129980.0	130118.6	129933.9	130202.5	129719.8	129350.3	128393.1	127818.0
120416.6	5°	121193.2	121092.5	121793.6	122024.5	121995.1	121625.7	121109.3	120529.9	119967.4
107838.8	7.5°	108510.5	108640.7	109278.8	109686.0	109480.3	109018.5	108661.7	108225.0	107847.2
94161.1	10°	95021.7	94127.5	94921.0	94921.0	95471.0	94165.3	94287.1	93187.1	93237.5
78443.1	12.5°	78711.8	79035.1	79165.2	79538.8	78896.5	78203.8	77355.8	77187.9	76663.1
58627.7	15°	59471.5	60395.1	59601.6	60957.7	60302.7	59580.7	59450.5	58149.1	58560.5
42523.4	17.5°	42313.5	43333.7	43652.7	44429.4	43833.3	43405.0	42863.5	42468.9	42439.5
29769.3	20°	30004.4	31028.8	31263.9	32195.9	32128.7	31994.4	31536.8	31037.2	30495.6
20264.6	22.5°	20571.1	21406.6	22187.4	23442.7	23421.7	23027.1	22980.9	22275.6	22288.2
13690.3	25°	13833.0	14441.8	14626.5	15911.1	16053.9	16011.9	15772.6	15117.7	15365.4
8362.8	27.5°	8371.2	8904.4	9529.9	9983.3	10411.5	10344.3	10105.0	9739.8	9580.3
5025.2	30°	5159.6	5398.9	5629.8	6175.5	6431.6	6566.0	6452.6	6112.6	6137.7
3308.2	32.5°	3379.5	3581.1	3749.0	4093.2	4227.6	4475.3	4429.1	4357.7	4273.8
2380.4	35°	2464.3	2611.3	2724.6	2884.2	3056.3	3266.2	3299.8	3270.4	3236.8
1838.8	37.5°	1880.8	2031.9	2162.1	2229.2	2363.6	2527.3	2619.7	2615.5	2590.3
1498.8	40°	1528.1	1641.5	1759.0	1847.2	1939.6	2061.3	2174.7	2187.3	2187.3
1259.5	42.5°	1276.2	1372.8	1490.4	1582.7	1649.9	1763.2	1880.8	1889.2	1880.8
1066.3	45°	1091.5	1175.5	1288.8	1398.0	1452.6	1536.5	1649.9	1675.1	1658.3
915.2	47.5°	948.8	1024.4	1120.9	1238.5	1297.2	1372.8	1477.8	1507.1	1503.0
789.3	50°	814.4	902.6	999.2	1095.7	1171.3	1242.7	1343.4	1377.0	1364.4
671.7	52.5°	717.9	797.7	881.6	986.6	1074.7	1137.7	1217.5	1276.2	1259.5
566.8	55°	600.3	696.9	785.1	873.2	982.4	1049.5	1125.1	1196.5	1179.7
478.6	57.5°	520.6	600.3	701.1	780.9	890.0	969.8	1045.3	1120.9	1116.7
390.4	60°	436.6	520.6	617.1	701.1	801.9	890.0	965.6	1049.5	1057.9
293.9	62.5°	344.3	445.0	529.0	625.5	726.3	822.8	890.0	974.0	986.6
222.5	65°	260.3	365.2	457.6	550.0	650.7	755.7	814.4	885.8	898.4
163.7	67.5°	193.1	281.3	390.4	474.4	579.3	680.1	734.7	793.5	814.4
100.8	70°	146.9	214.1	327.5	407.2	516.4	596.1	654.9	705.3	722.1
67.2	72.5°	92.4	167.9	264.5	348.4	445.0	516.4	558.4	587.7	612.9
37.8	75°	63.0	130.1	214.1	298.1	369.4	424.0	461.8	487.0	508.0
16.8	77.5°	37.8	100.8	176.3	247.7	293.9	335.9	373.6	390.4	403.0
12.6	80°	21.0	75.6	146.9	201.5	230.9	260.3	289.7	310.7	319.1
8.4	82.5°	12.6	58.8	117.5	155.3	167.9	197.3	226.7	239.3	239.3
4.2	85°	8.4	42.0	79.8	113.4	121.7	142.7	151.1	159.5	167.9
4.2	87.5°	8.4	25.2	50.4	63.0	67.2	75.6	79.8	88.2	96.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
131722.3
127394.0
119337.6
106566.8
92746.3
76184.5
58149.1
41658.6
30260.5
22044.7
14974.9
9441.7
6028.6
4244.4
3224.2
2577.7
2162.1
1872.4
1658.3
1494.6
1356.0
1255.3
1188.1
1120.9
1062.1
995.0
911.0
822.8
730.5
608.7
503.8
398.8
310.7
235.1
163.7
92.4
0.0

(END OF REPORT)