

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: P637372

Luminaire Tested: **IFLD-L-SA8B-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38715.4 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

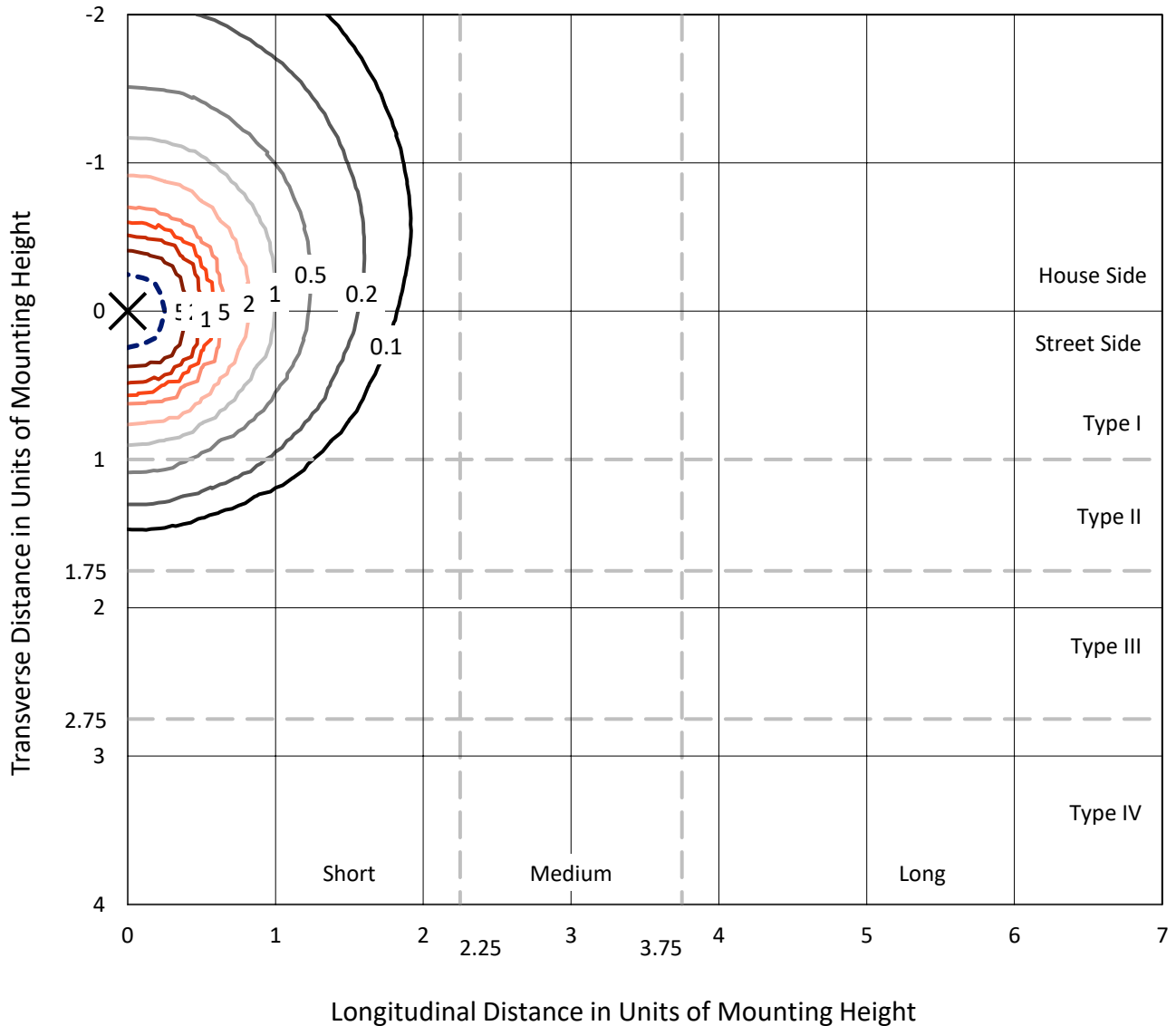
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

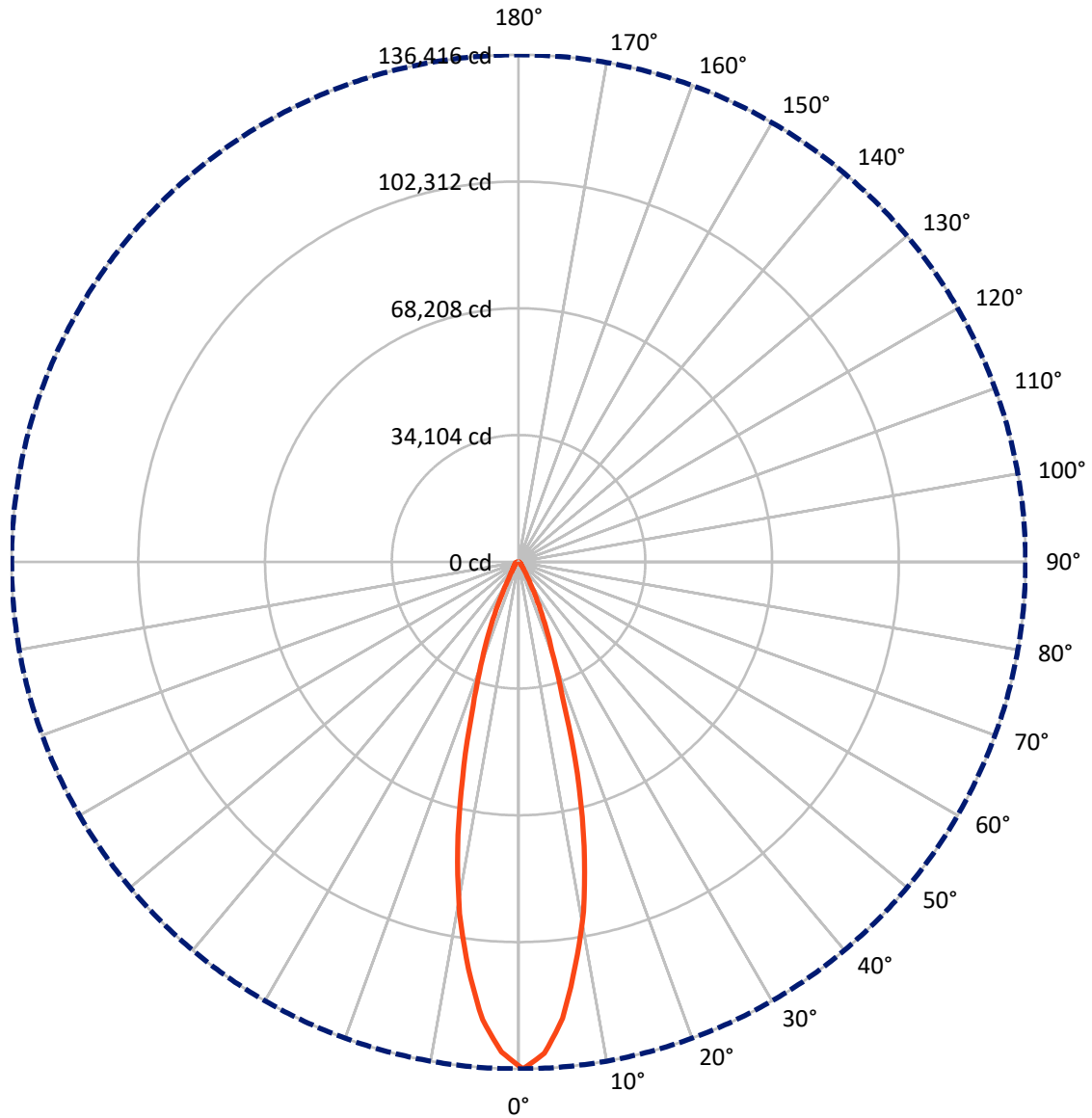
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 341 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	20413.4	0.0	20413.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18302.0	0.0	18302.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	38715.4	0.0	38715.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11010.0	28.4
10°-20°	16674.6	43.1
20°-30°	7036.8	18.2
30°-40°	1835.2	4.7
40°-50°	928.2	2.4
50°-60°	606.7	1.6
60°-70°	363.5	0.9
70°-80°	191.2	0.5
80°-90°	69.1	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°	38715.4	100.0
0°-180°	38715.4	100.0

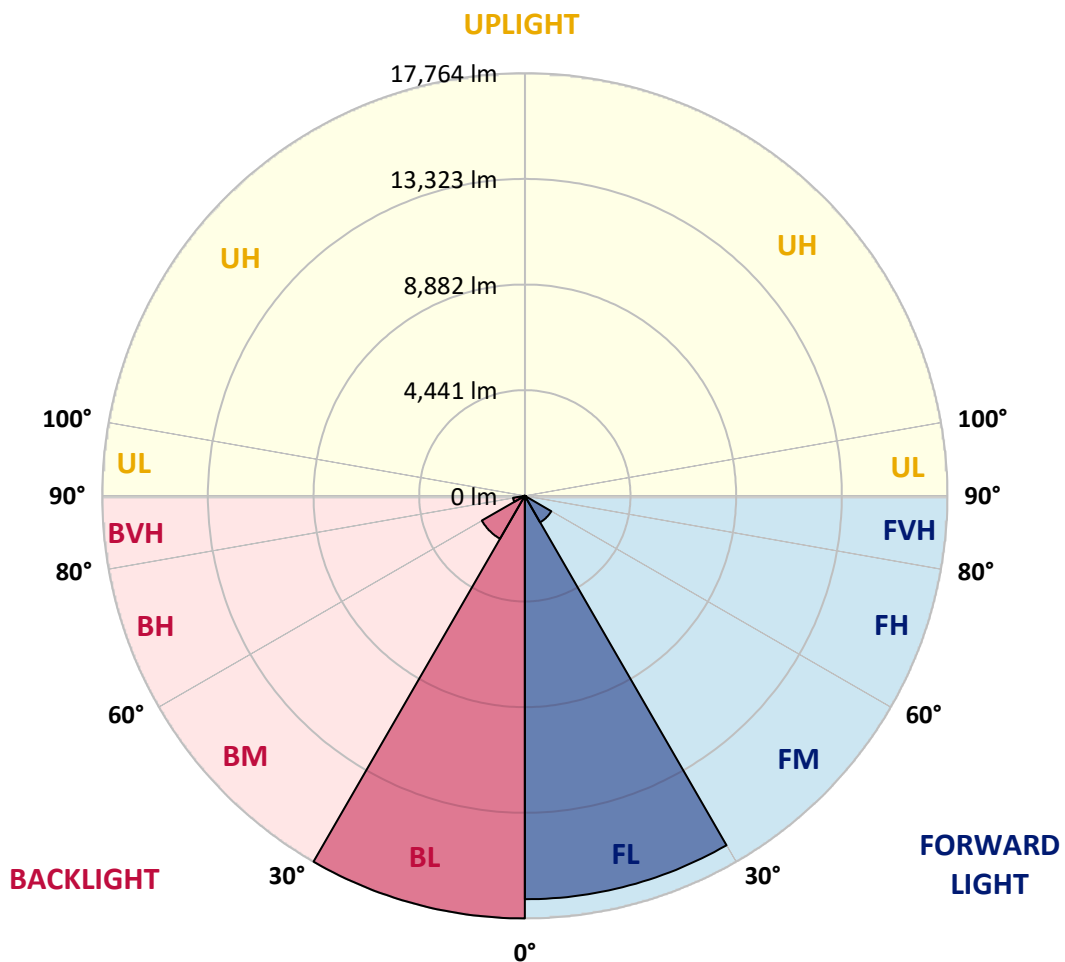


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16957.1	43.8			
FM (30°-60°)	1284.2	3.3			
FH (60°-80°)	52.3	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17764.3	45.9	B5		
BM (30°-60°)	2086.0	5.4	B2/2500		
BH (60°-80°)	502.4	1.3	B2/1000		G0/660
BVH (80°-90°)	60.7	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°	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4
2.5°	132442.5	132516.4	132242.5	132833.8	132372.9	133607.7	132994.7	133951.2	133629.5	134164.2
5°	123399.1	123277.4	123199.1	124116.5	123851.3	125177.3	124329.5	124051.3	124912.1	124755.6
7.5°	109742.7	110064.4	109881.8	110120.9	110255.7	111768.7	112247.0	111873.1	111886.1	112103.5
10°	95742.8	95268.9	94595.0	95042.8	95990.6	96651.5	96386.3	96934.1	96812.3	97329.7
12.5°	78516.8	78890.7	78512.5	78112.5	79769.0	79586.4	80047.2	80347.2	79595.1	81269.0
15°	59143.0	59338.7	59799.6	59769.1	61043.0	61299.6	61238.7	61556.1	60969.1	61247.4
17.5°	37995.4	38656.2	39895.4	41991.0	44347.5	44621.4	44551.8	44291.0	44008.4	43695.3
20°	25521.6	25452.0	25899.8	26512.9	31391.1	32682.4	32643.2	31825.9	30643.3	30417.2
22.5°	17878.1	18008.6	17947.7	18556.4	19565.1	23125.9	22686.8	21856.4	21469.4	21217.2
25°	11760.8	11713.0	12017.3	12199.9	13065.1	13499.9	15039.0	14730.3	14134.7	14199.9
27.5°	7169.5	7230.4	7343.4	7499.9	8113.0	7973.9	8852.1	8969.5	8778.2	8573.9
30°	4400.0	4443.4	4534.7	4647.8	4860.8	4708.7	4952.1	5373.9	5304.3	5160.8
32.5°	2986.9	2991.3	3056.5	3100.0	3073.9	2930.4	3008.7	3408.7	3417.4	3404.3
35°	2147.8	2147.8	2208.7	2243.5	2169.5	2052.2	2065.2	2313.0	2421.7	2443.5
37.5°	1482.6	1486.9	1591.3	1695.6	1613.0	1582.6	1530.4	1695.6	1869.6	1895.6
40°	1126.1	1121.7	1173.9	1252.2	1260.9	1204.3	1221.7	1326.1	1504.3	1526.1
42.5°	913.0	917.4	943.5	934.8	939.1	1013.0	1039.1	1086.9	1252.2	1291.3
45°	769.6	773.9	787.0	743.5	726.1	839.1	873.9	900.0	1039.1	1086.9
47.5°	634.8	643.5	656.5	608.7	600.0	673.9	734.8	760.9	882.6	934.8
50°	456.5	465.2	513.0	487.0	513.0	530.4	613.0	652.2	734.8	804.3
52.5°	330.4	339.1	352.2	356.5	421.7	430.4	491.3	552.2	591.3	669.6
55°	260.9	269.6	260.9	252.2	308.7	356.5	378.3	443.5	473.9	565.2
57.5°	147.8	156.5	169.6	195.7	204.3	273.9	295.7	352.2	378.3	465.2
60°	26.1	30.4	47.8	117.4	143.5	173.9	221.7	269.6	304.3	365.2
62.5°	4.3	4.3	8.7	26.1	82.6	121.7	160.9	191.3	221.7	278.3
65°	0.0	0.0	4.3	8.7	21.7	69.6	87.0	113.0	152.2	200.0
67.5°	0.0	0.0	4.3	8.7	13.0	26.1	39.1	69.6	87.0	134.8
70°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	30.4	52.2	82.6
72.5°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	26.1	26.1	52.2
75°	0.0	0.0	4.3	8.7	13.0	21.7	26.1	26.1	21.7	21.7
77.5°	0.0	0.0	4.3	8.7	17.4	26.1	30.4	26.1	17.4	17.4
80°	0.0	0.0	8.7	13.0	21.7	30.4	39.1	30.4	17.4	8.7
82.5°	0.0	0.0	8.7	17.4	21.7	34.8	47.8	39.1	17.4	8.7
85°	0.0	0.0	4.3	13.0	26.1	34.8	47.8	34.8	17.4	4.3
87.5°	0.0	0.0	4.3	4.3	8.7	13.0	26.1	21.7	8.7	4.3
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°
136416.4	0°	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4	136416.4
133151.2	2.5°	133916.4	134612.1	134755.5	134564.2	134842.5	134342.5	133959.9	132968.6	132372.9
124707.8	5°	125512.1	125407.8	126133.9	126373.0	126342.6	125960.0	125425.2	124825.2	124242.6
111681.8	7.5°	112377.4	112512.2	113173.1	113594.8	113381.8	112903.5	112534.0	112081.8	111690.5
97516.7	10°	98408.0	97481.9	98303.6	98303.6	98873.2	97521.0	97647.1	96508.0	96560.2
81238.5	12.5°	81516.8	81851.6	81986.4	82373.3	81708.1	80990.7	80112.5	79938.5	79395.1
60716.9	15°	61590.9	62547.4	61725.6	63130.0	62451.7	61703.9	61569.1	60221.3	60647.4
44038.8	17.5°	43821.4	44877.9	45208.4	46012.7	45395.3	44951.8	44391.0	43982.3	43951.9
30830.2	20°	31073.7	32134.5	32378.0	33343.2	33273.7	33134.5	32660.6	32143.2	31582.4
20986.8	22.5°	21304.2	22169.4	22978.1	24278.1	24256.3	23847.7	23799.8	23069.4	23082.4
14178.2	25°	14326.0	14956.4	15147.7	16478.1	16626.0	16582.5	16334.7	15656.4	15912.9
8660.8	27.5°	8669.5	9221.7	9869.5	10339.1	10782.5	10713.0	10465.1	10086.9	9921.7
5204.3	30°	5343.4	5591.3	5830.4	6395.6	6660.8	6800.0	6682.6	6330.4	6356.5
3426.1	32.5°	3500.0	3708.7	3882.6	4239.1	4378.2	4634.7	4586.9	4513.0	4426.1
2465.2	35°	2552.2	2704.3	2821.7	2986.9	3165.2	3382.6	3417.4	3386.9	3352.1
1904.3	37.5°	1947.8	2104.3	2239.1	2308.7	2447.8	2617.4	2713.0	2708.7	2682.6
1552.2	40°	1582.6	1700.0	1821.7	1913.0	2008.7	2134.8	2252.2	2265.2	2265.2
1304.3	42.5°	1321.7	1421.7	1543.5	1639.1	1708.7	1826.1	1947.8	1956.5	1947.8
1104.3	45°	1130.4	1217.4	1334.8	1447.8	1504.3	1591.3	1708.7	1734.8	1717.4
947.8	47.5°	982.6	1060.9	1160.9	1282.6	1343.5	1421.7	1530.4	1560.9	1556.5
817.4	50°	843.5	934.8	1034.8	1134.8	1213.0	1286.9	1391.3	1426.1	1413.0
695.6	52.5°	743.5	826.1	913.0	1021.7	1113.0	1178.3	1260.9	1321.7	1304.3
587.0	55°	621.7	721.7	813.0	904.3	1017.4	1086.9	1165.2	1239.1	1221.7
495.6	57.5°	539.1	621.7	726.1	808.7	921.7	1004.3	1082.6	1160.9	1156.5
404.3	60°	452.2	539.1	639.1	726.1	830.4	921.7	1000.0	1086.9	1095.6
304.3	62.5°	356.5	460.9	547.8	647.8	752.2	852.2	921.7	1008.7	1021.7
230.4	65°	269.6	378.3	473.9	569.6	673.9	782.6	843.5	917.4	930.4
169.6	67.5°	200.0	291.3	404.3	491.3	600.0	704.3	760.9	821.7	843.5
104.3	70°	152.2	221.7	339.1	421.7	534.8	617.4	678.3	730.4	747.8
69.6	72.5°	95.7	173.9	273.9	360.9	460.9	534.8	578.3	608.7	634.8
39.1	75°	65.2	134.8	221.7	308.7	382.6	439.1	478.3	504.3	526.1
17.4	77.5°	39.1	104.3	182.6	256.5	304.3	347.8	387.0	404.3	417.4
13.0	80°	21.7	78.3	152.2	208.7	239.1	269.6	300.0	321.7	330.4
8.7	82.5°	13.0	60.9	121.7	160.9	173.9	204.3	234.8	247.8	247.8
4.3	85°	8.7	43.5	82.6	117.4	126.1	147.8	156.5	165.2	173.9
4.3	87.5°	8.7	26.1	52.2	65.2	69.6	78.3	82.6	91.3	100.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
136416.4
131933.8
123590.4
110364.4
96051.5
78899.4
60221.3
43143.2
31338.9
22830.3
15508.6
9778.2
6243.4
4395.6
3339.1
2669.5
2239.1
1939.1
1717.4
1547.8
1404.3
1300.0
1230.4
1160.9
1100.0
1030.4
943.5
852.2
756.5
630.4
521.7
413.0
321.7
243.5
169.6
95.7
0.0

(END OF REPORT)