

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: P637133

Luminaire Tested: **IFLD-M-SA4E-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637133
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36004.8 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

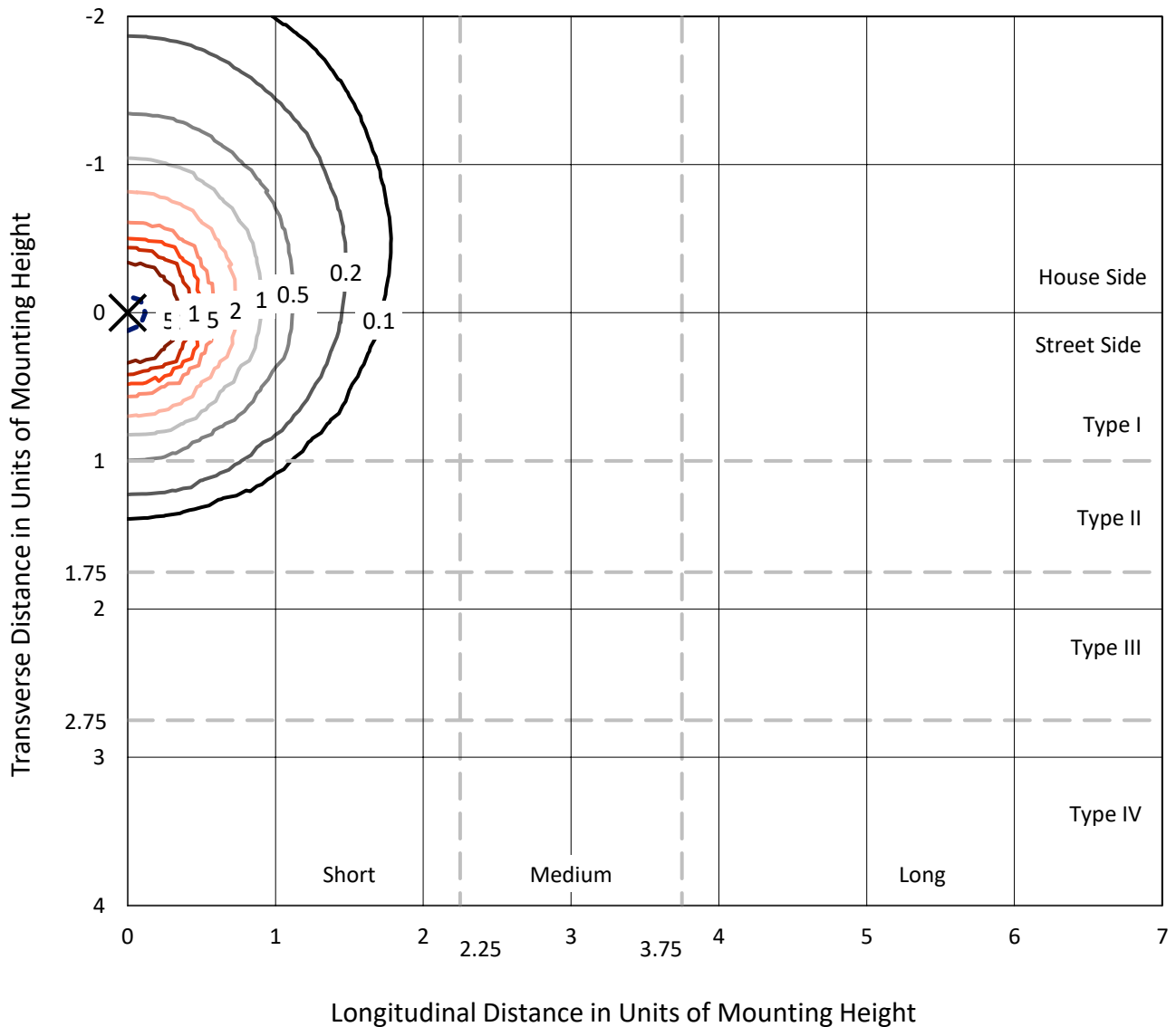
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

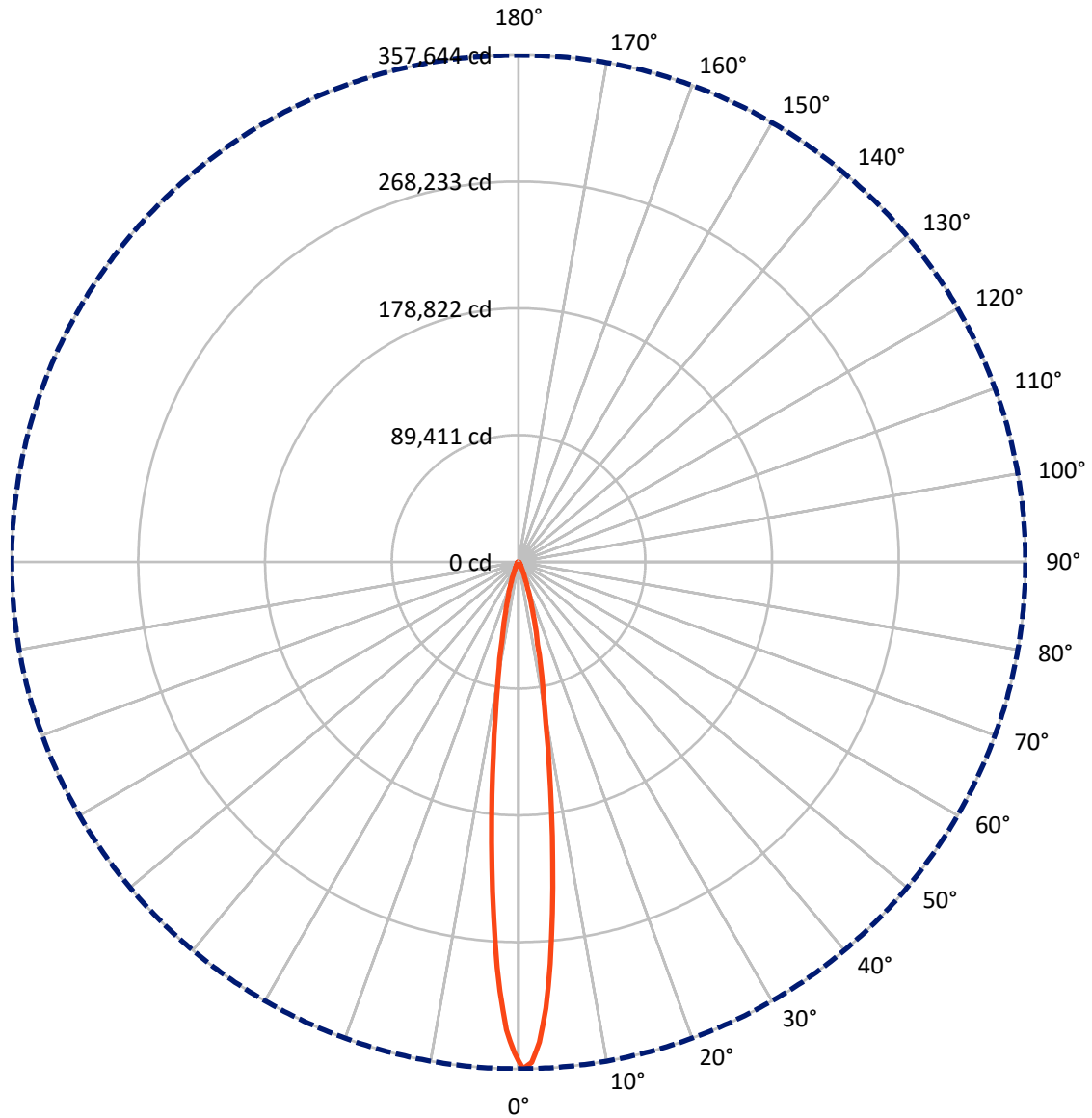
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 894.1 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	18441.0	0.0	18441.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17563.8	0.0	17563.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	36004.8	0.0	36004.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18176.3	50.5
10°-20°	11636.4	32.3
20°-30°	3497.7	9.7
30°-40°	1138.9	3.2
40°-50°	662.6	1.8
50°-60°	440.1	1.2
60°-70°	264.9	0.7
70°-80°	136.2	0.4
80°-90°	51.7	0.1
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°	36004.8	100.0
0°-180°	36004.8	100.0

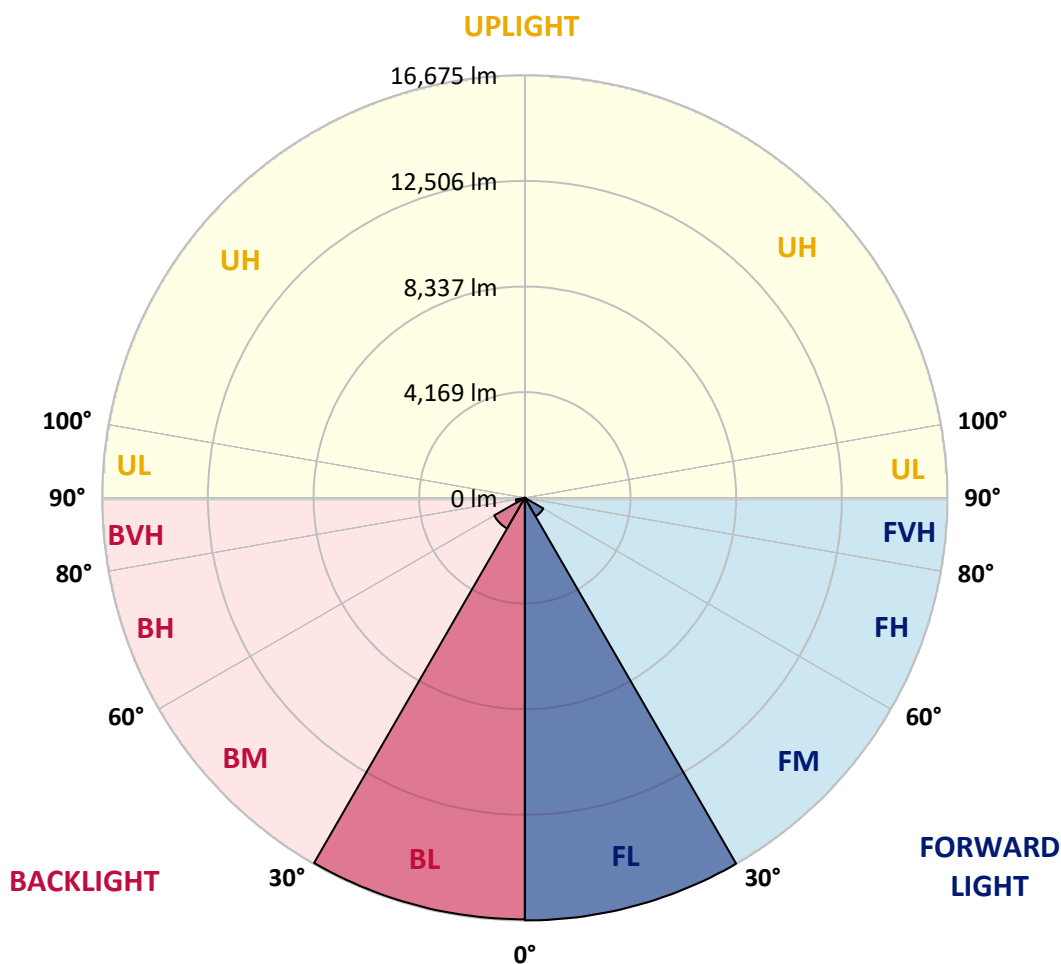


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16674.9	46.3			
FM (30°-60°)	841.5	2.3			
FH (60°-80°)	39.6	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16635.4	46.2	B5		
BM (30°-60°)	1400.1	3.9	B2/2500		
BH (60°-80°)	361.5	1.0	B1/500		G0/660
BVH (80°-90°)	43.9	0.1			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°	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4
1°	353362.2	352283.8	349499.5	351479.8	353221.0	352715.1	352679.8	352491.6	352228.9	354291.6
2°	339236.9	338538.9	334421.3	336119.3	338593.8	336789.9	337919.3	336927.2	336946.8	339409.5
3°	315425.6	315806.0	309237.5	312323.7	315762.9	311390.4	312747.2	315296.2	312625.7	311821.7
4°	284477.1	281175.2	277587.1	280724.3	281614.5	279069.4	281571.3	284692.8	280983.1	281147.8
5°	249144.5	246705.3	242458.3	244395.5	242187.7	242991.6	246740.6	248026.8	245438.6	242179.9
6°	212815.7	211082.4	205772.7	208564.8	207780.5	207325.6	212058.9	208137.4	209549.1	207576.6
7°	177020.3	173781.1	171173.3	173847.8	174020.3	172651.7	178796.7	178083.0	175514.4	174918.4
8°	146664.0	143432.7	141224.9	143217.0	144518.9	142369.9	145260.1	147158.1	145150.3	145330.7
9°	118292.0	117723.3	114652.8	117256.7	118672.3	116370.4	119570.4	120256.6	118378.2	119291.9
10°	97127.6	96464.9	94014.0	95068.8	97413.9	94668.9	97739.4	97962.9	96464.9	96892.3
12.5°	60022.4	59755.8	59689.1	59842.0	59810.7	60296.9	61081.2	60187.1	60069.5	58591.1
15°	38795.4	39191.4	38783.6	39567.9	39681.6	40140.4	39662.0	38940.5	37564.0	36881.7
17.5°	24211.3	24717.2	25415.2	26564.2	27713.2	27846.5	27211.3	26364.2	25697.6	24968.2
20°	13929.2	14176.2	14070.3	15446.8	18419.3	19227.1	18407.5	17517.3	16713.4	15976.2
22.5°	8654.7	8564.5	8729.3	9192.0	10160.6	12658.6	11988.0	11097.8	10513.5	9905.7
25°	5305.8	5403.8	5341.1	5596.0	6031.3	7090.1	7243.0	6858.7	6560.7	6246.9
27.5°	3415.6	3415.6	3443.1	3584.2	3882.3	3847.0	4662.7	4364.6	4203.8	4050.9
30°	2372.5	2380.3	2380.3	2462.7	2529.4	2411.7	2623.5	3007.8	2933.3	2815.6
32.5°	1760.8	1784.3	1803.9	1847.0	1792.1	1666.6	1717.6	2164.7	2121.5	2078.4
35°	1341.2	1360.8	1407.8	1431.3	1352.9	1274.5	1227.4	1592.1	1611.7	1600.0
37.5°	976.5	988.2	1074.5	1164.7	1074.5	1003.9	976.5	1223.5	1317.6	1305.9
40°	749.0	752.9	768.6	870.6	870.6	815.7	823.5	913.7	1078.4	1078.4
42.5°	643.1	643.1	658.8	643.1	647.0	705.9	725.5	737.2	913.7	913.7
45°	556.9	556.9	564.7	525.5	486.3	607.8	623.5	627.4	768.6	788.2
47.5°	466.7	466.7	482.3	431.4	411.8	482.3	525.5	537.2	662.7	678.4
50°	345.1	349.0	396.1	352.9	364.7	372.5	454.9	462.7	560.8	596.1
52.5°	231.4	231.4	239.2	274.5	317.6	305.9	368.6	396.1	447.1	494.1
55°	188.2	188.2	184.3	176.5	235.3	254.9	270.6	329.4	364.7	423.5
57.5°	129.4	137.3	125.5	145.1	152.9	192.2	203.9	258.8	278.4	356.9
60°	15.7	19.6	27.5	105.9	102.0	129.4	152.9	203.9	227.4	274.5
62.5°	3.9	3.9	7.8	19.6	70.6	86.3	121.6	141.2	164.7	211.8
65°	0.0	0.0	3.9	7.8	15.7	47.1	62.7	82.4	117.6	149.0
67.5°	0.0	0.0	3.9	7.8	7.8	19.6	31.4	51.0	62.7	109.8
70°	0.0	0.0	3.9	7.8	7.8	15.7	19.6	23.5	43.1	58.8
72.5°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	19.6	19.6	39.2
75°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	19.6	15.7	15.7
77.5°	0.0	0.0	3.9	7.8	15.7	19.6	23.5	19.6	11.8	11.8
80°	0.0	0.0	3.9	11.8	19.6	27.5	31.4	23.5	11.8	7.8
82.5°	0.0	0.0	7.8	15.7	23.5	31.4	43.1	35.3	15.7	7.8
85°	0.0	0.0	3.9	11.8	23.5	31.4	62.7	43.1	19.6	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	23.5	15.7	7.8	3.9
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°
357644.4	0°	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4	357644.4
351911.2	1°	354370.0	354617.0	353809.2	355060.2	354621.0	352048.5	351197.5	350189.7
337962.4	2°	336927.2	338186.0	338248.7	339636.9	339617.3	336617.4	335688.0	337401.7
313453.1	3°	312504.1	313970.7	312649.2	315115.8	314374.6	310735.5	309790.4	311735.5
282449.7	4°	281606.6	281328.2	280873.3	279469.4	281198.8	278716.5	276845.9	279485.1
246501.4	5°	246007.3	245387.7	244501.4	244085.7	245372.0	243783.8	239936.8	243791.6
211145.2	6°	211404.0	208737.4	208607.9	208376.6	208506.0	204059.0	204325.7	207196.2
172867.4	7°	174694.8	175185.0	174185.0	175788.9	174565.4	171553.7	170393.0	173416.4
146122.8	8°	145103.2	144483.6	143718.9	146115.0	143993.4	142017.0	140664.1	143052.3
119441.0	9°	119217.4	118146.9	117370.4	117248.8	117578.2	113868.5	114621.4	116429.2
97127.6	10°	97162.9	95406.1	95833.5	95947.3	95586.5	93155.2	93178.7	93802.2
59571.5	12.5°	59359.7	58497.0	58712.7	58830.3	59563.6	58708.7	57500.9	56630.3
37560.1	15°	37309.1	36689.5	37956.2	38807.1	38634.6	37873.8	37305.2	36517.0
24968.2	17.5°	24736.8	25548.6	25552.5	26328.9	26407.4	25646.6	25207.4	24497.6
16238.9	20°	16180.1	16517.3	17219.3	17768.3	18085.9	17505.6	16980.1	16493.8
10125.3	22.5°	10125.3	10713.5	11152.7	11866.4	12156.6	11733.1	11360.6	10964.5
6321.5	25°	6215.6	6635.2	6999.9	7619.5	8015.5	7811.6	7470.5	7192.0
4082.3	27.5°	4145.0	4321.5	4501.9	4929.3	5341.1	5227.4	5090.1	4921.5
2878.4	30°	2921.5	2937.2	3129.4	3368.6	3643.1	3713.7	3650.9	3564.6
2113.7	32.5°	2152.9	2215.6	2305.8	2454.9	2639.2	2807.8	2776.4	2737.2
1615.7	35°	1662.7	1756.8	1831.3	1945.1	2043.1	2203.9	2231.3	2219.6
1329.4	37.5°	1356.8	1439.2	1513.7	1580.4	1662.7	1772.5	1858.8	1862.7
1098.0	40°	1125.5	1200.0	1298.0	1349.0	1407.8	1490.2	1596.0	1603.9
929.4	42.5°	949.0	1019.6	1117.6	1180.4	1223.5	1301.9	1407.8	1423.5
796.1	45°	815.7	858.8	960.8	1035.3	1078.4	1129.4	1243.1	1258.8
686.3	47.5°	709.8	752.9	815.7	921.6	960.8	1007.8	1098.0	1125.5
607.8	50°	623.5	666.7	721.6	815.7	874.5	913.7	988.2	1027.4
529.4	52.5°	552.9	596.1	654.9	729.4	796.1	831.4	901.9	952.9
431.4	55°	462.7	537.2	580.4	647.0	737.2	768.6	823.5	890.2
376.5	57.5°	403.9	466.7	529.4	584.3	674.5	713.7	768.6	831.4
298.0	60°	341.2	400.0	474.5	521.6	607.8	658.8	717.6	776.5
227.4	62.5°	270.6	349.0	400.0	466.7	549.0	615.7	662.7	721.6
176.5	65°	200.0	286.3	345.1	415.7	494.1	564.7	603.9	666.7
125.5	67.5°	145.1	223.5	294.1	360.8	435.3	505.9	545.1	600.0
78.4	70°	113.7	164.7	243.1	302.0	380.4	439.2	482.3	517.6
51.0	72.5°	66.7	125.5	196.1	262.7	333.3	372.5	403.9	435.3
23.5	75°	43.1	98.0	160.8	219.6	270.6	305.9	333.3	360.8
11.8	77.5°	27.5	70.6	129.4	184.3	207.8	251.0	274.5	290.2
7.8	80°	15.7	54.9	113.7	149.0	168.6	196.1	219.6	239.2
7.8	82.5°	11.8	47.1	94.1	125.5	125.5	156.9	168.6	168.6
3.9	85°	7.8	39.2	74.5	117.6	94.1	117.6	109.8	109.8
3.9	87.5°	7.8	27.5	35.3	51.0	43.1	51.0	51.0	58.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
357644.4
346197.6
330143.0
303096.4
269932.3
233634.9
198874.8
165193.1
136232.8
110782.3
89559.1
56100.9
36113.1
24321.1
16325.2
10752.7
7031.2
4823.4
3505.8
2705.8
2180.4
1835.3
1592.1
1411.7
1254.9
1129.4
1031.4
952.9
894.1
835.3
792.1
749.0
678.4
603.9
529.4
443.1
360.8
282.3
215.7
156.9
105.9
58.8
0.0

(END OF REPORT)