

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: P637168

Luminaire Tested: **IFLD-L-SA8A-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34847.3 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

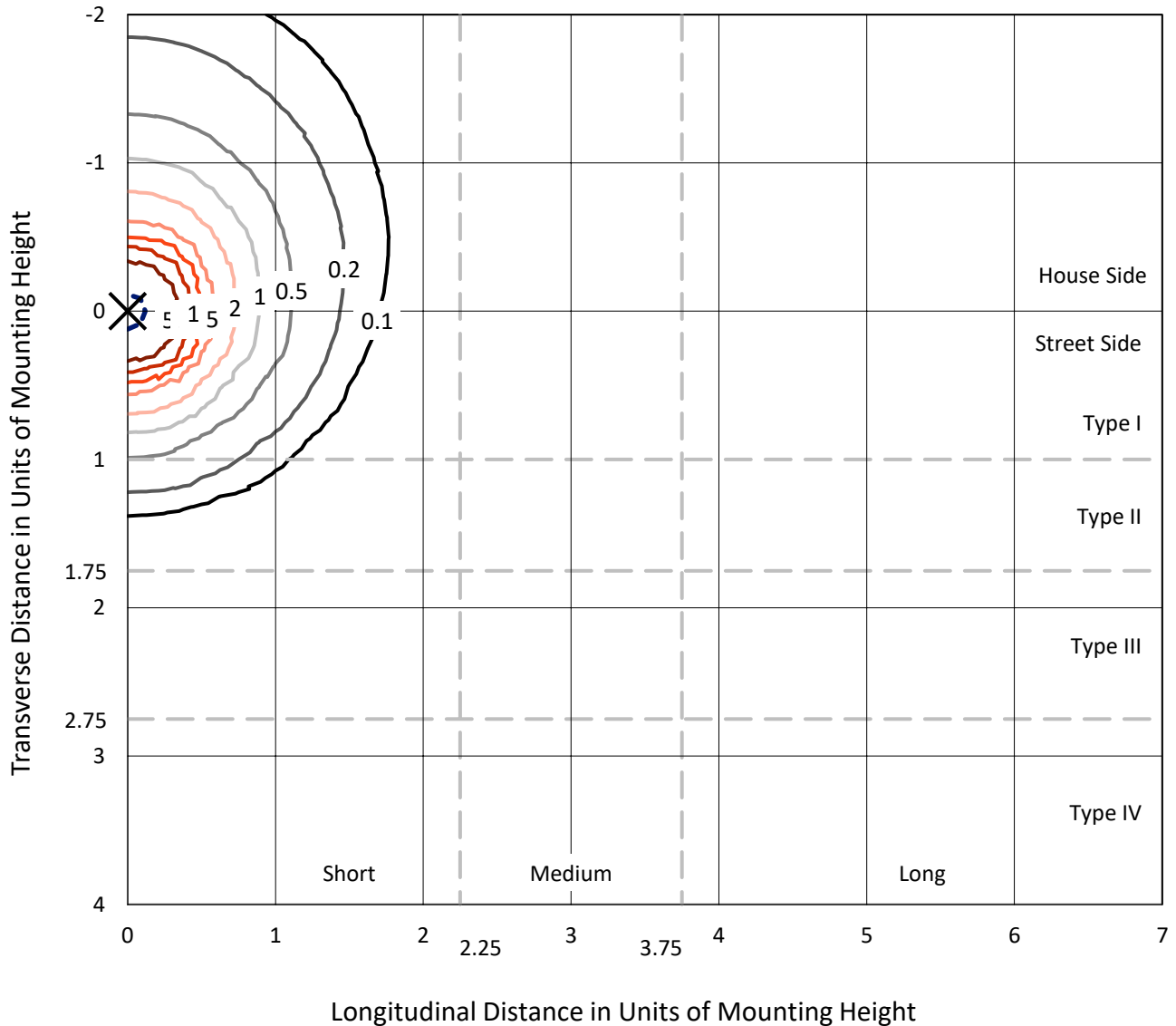
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

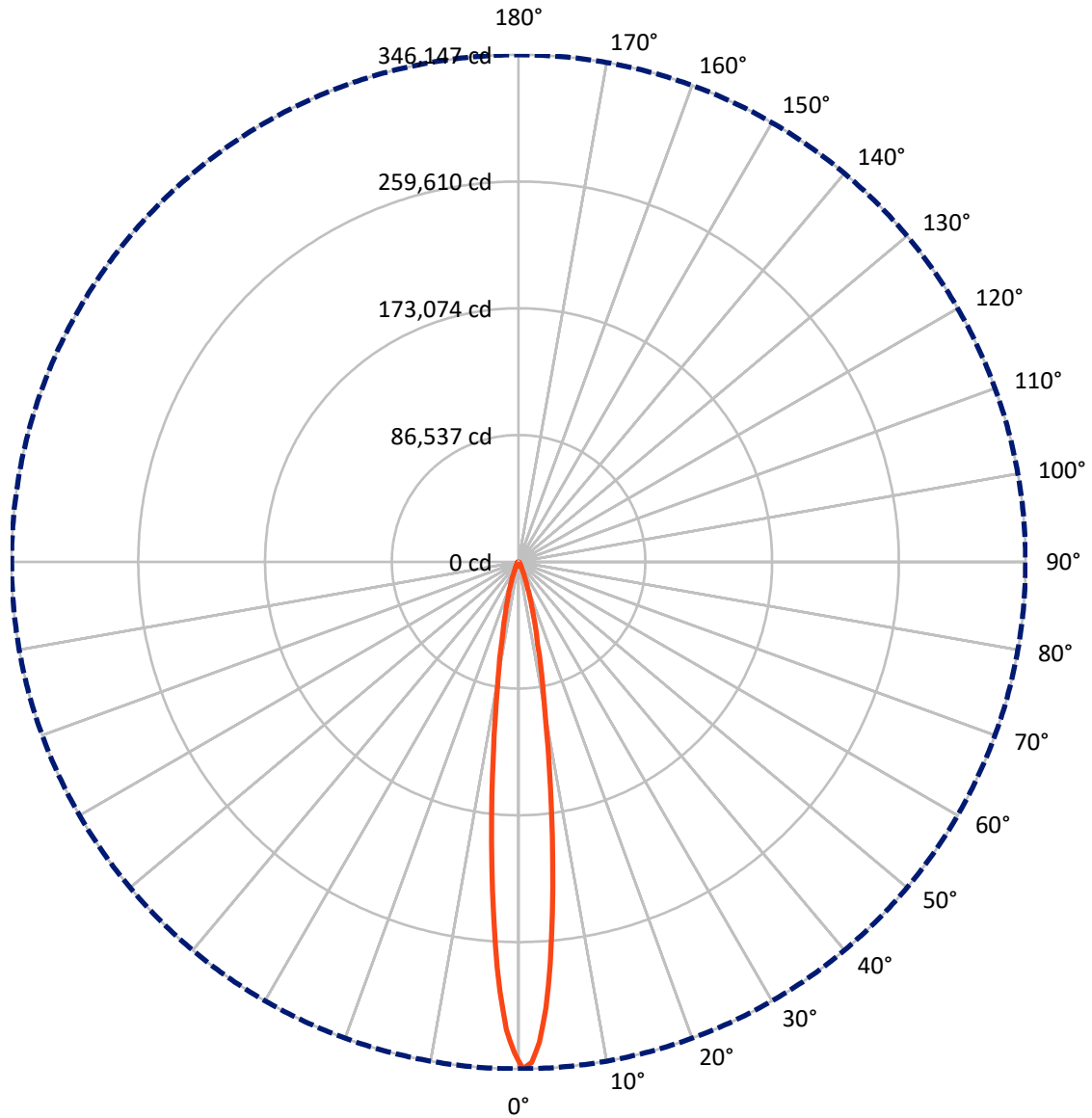
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 865.4 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	17848.2	0.0	17848.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16999.2	0.0	16999.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	34847.3	0.0	34847.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17592.0	50.5
10°-20°	11262.3	32.3
20°-30°	3385.2	9.7
30°-40°	1102.2	3.2
40°-50°	641.3	1.8
50°-60°	426.0	1.2
60°-70°	256.4	0.7
70°-80°	131.8	0.4
80°-90°	50.1	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°	34847.3	100.0
0°-180°	34847.3	100.0

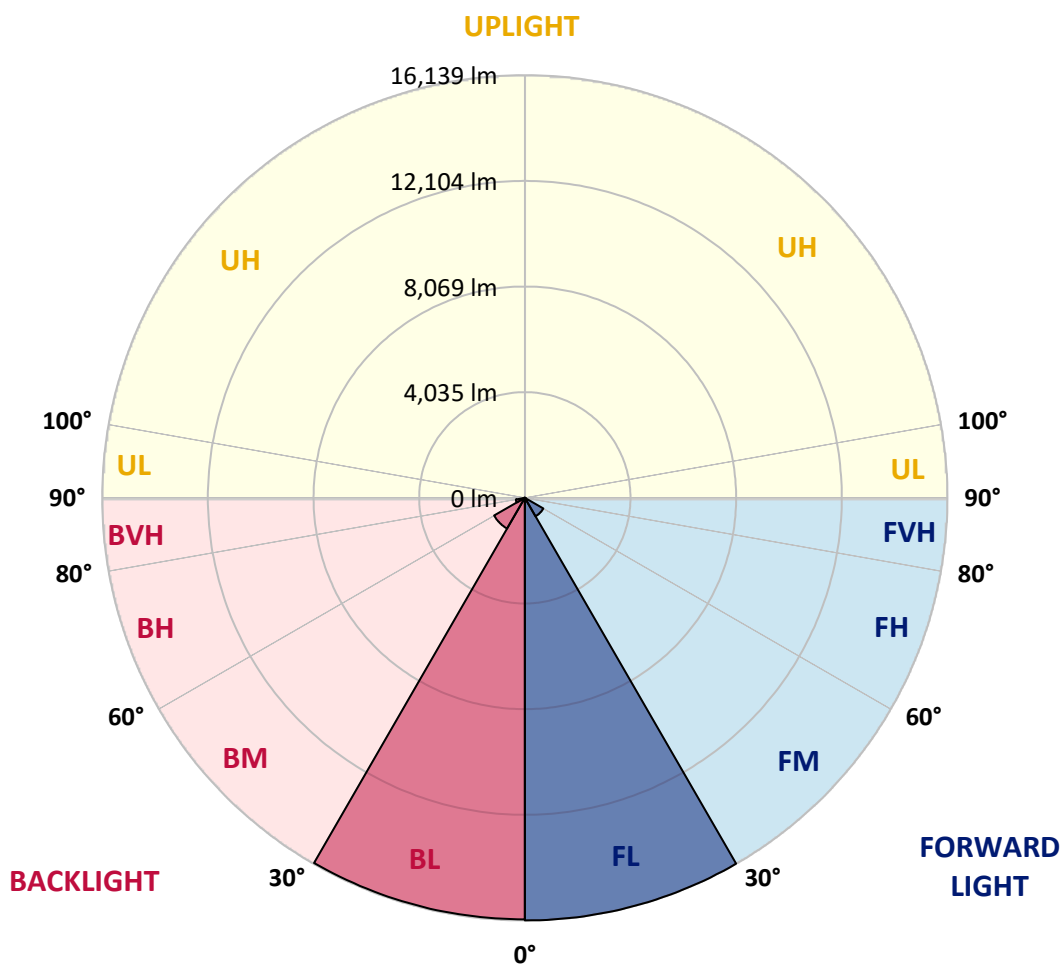


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16138.9	46.3			
FM (30°-60°)	814.4	2.3			
FH (60°-80°)	38.3	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16100.6	46.2	B5		
BM (30°-60°)	1355.1	3.9	B2/2500		
BH (60°-80°)	349.9	1.0	B1/500		G0/660
BVH (80°-90°)	42.5	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°	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1
1°	342002.5	340958.7	338264.0	340180.7	341865.9	341376.2	341342.1	341159.9	340905.6	342902.0
2°	328331.3	327655.8	323670.6	325314.0	327708.9	325963.0	327056.1	326095.8	326114.8	328498.3
3°	305285.5	305653.6	299296.3	302283.3	305611.9	301380.0	302693.2	305160.2	302575.5	301797.5
4°	275331.9	272136.2	268663.4	271699.7	272561.3	270098.0	272519.5	275540.7	271950.2	272109.6
5°	241135.1	238774.4	234663.9	236538.8	234402.0	235180.1	238808.5	240053.4	237548.4	234394.4
6°	205974.2	204296.7	199157.6	201860.0	201100.9	200660.6	205241.7	201446.3	202812.6	200903.5
7°	171329.5	168194.5	165670.6	168259.0	168426.0	167101.4	173048.9	172358.1	169872.1	169295.2
8°	141949.1	138821.7	136684.9	138612.9	139873.0	137793.1	140590.4	142427.3	140484.1	140658.7
9°	114489.2	113938.8	110967.0	113487.2	114857.3	112629.4	115726.5	116390.7	114572.7	115457.0
10°	94005.2	93363.8	90991.7	92012.6	94282.3	91625.5	94597.3	94813.7	93363.8	93777.5
12.5°	58092.9	57834.8	57770.3	57918.3	57887.9	58358.5	59117.6	58252.3	58138.4	56707.5
15°	37548.2	37931.5	37536.8	38295.9	38406.0	38850.0	38387.0	37688.6	36356.4	35696.0
17.5°	23433.0	23922.6	24598.2	25710.2	26822.3	26951.4	26336.5	25516.7	24871.5	24165.5
20°	13481.4	13720.5	13618.0	14950.2	17827.1	18609.0	17815.8	16954.2	16176.1	15462.6
22.5°	8376.5	8289.2	8448.6	8896.5	9834.0	12251.7	11602.6	10741.1	10175.6	9587.3
25°	5135.2	5230.1	5169.4	5416.1	5837.4	6862.1	7010.2	6638.2	6349.8	6046.1
27.5°	3305.8	3305.8	3332.4	3469.0	3757.5	3723.3	4512.8	4224.3	4068.7	3920.7
30°	2296.2	2303.8	2303.8	2383.5	2448.1	2334.2	2539.1	2911.1	2839.0	2725.1
32.5°	1704.1	1726.9	1745.9	1787.6	1734.5	1613.1	1662.4	2095.1	2053.3	2011.6
35°	1298.0	1317.0	1362.6	1385.3	1309.4	1233.5	1188.0	1540.9	1559.9	1548.5
37.5°	945.1	956.4	1039.9	1127.2	1039.9	971.6	945.1	1184.2	1275.3	1263.9
40°	724.9	728.7	743.9	842.6	842.6	789.4	797.0	884.3	1043.7	1043.7
42.5°	622.5	622.5	637.6	622.5	626.2	683.2	702.2	713.5	884.3	884.3
45°	539.0	539.0	546.5	508.6	470.6	588.3	603.5	607.3	743.9	762.9
47.5°	451.7	451.7	466.8	417.5	398.5	466.8	508.6	520.0	641.4	656.6
50°	334.0	337.8	383.3	341.6	353.0	360.6	440.3	447.9	542.7	576.9
52.5°	223.9	223.9	231.5	265.7	307.4	296.0	356.8	383.3	432.7	478.2
55°	182.2	182.2	178.4	170.8	227.7	246.7	261.9	318.8	353.0	409.9
57.5°	125.2	132.8	121.5	140.4	148.0	186.0	197.4	250.5	269.5	345.4
60°	15.2	19.0	26.6	102.5	98.7	125.2	148.0	197.4	220.1	265.7
62.5°	3.8	3.8	7.6	19.0	68.3	83.5	117.7	136.6	159.4	205.0
65°	0.0	0.0	3.8	7.6	15.2	45.5	60.7	79.7	113.9	144.2
67.5°	0.0	0.0	3.8	7.6	7.6	19.0	30.4	49.3	60.7	106.3
70°	0.0	0.0	3.8	7.6	7.6	15.2	19.0	22.8	41.7	56.9
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	19.0	38.0
75°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	15.2	15.2
77.5°	0.0	0.0	3.8	7.6	15.2	19.0	22.8	19.0	11.4	11.4
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	11.4	7.6
82.5°	0.0	0.0	7.6	15.2	22.8	30.4	41.7	34.2	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	60.7	41.7	19.0	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	22.8	15.2	7.6	3.8
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°
346147.1	0°	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1	346147.1
340598.2	1°	342977.9	343217.0	342435.2	343645.9	343220.8	340731.0	339907.4	338932.0
327097.8	2°	326095.8	327314.2	327374.9	328718.5	328699.5	325796.0	324896.5	326555.1
303376.4	3°	302457.9	303877.4	302598.3	304985.6	304268.3	300746.2	299831.5	301714.0
273369.7	4°	272553.7	272284.2	271843.9	270485.2	272159.0	269756.5	267946.0	270500.4
238577.0	5°	238098.8	237499.1	236641.3	236239.0	237483.9	235946.8	232223.4	235954.4
204357.4	6°	204607.9	202027.0	201901.7	201677.8	201803.1	197499.0	197757.1	200535.4
167310.2	7°	169078.9	169553.3	168585.5	170137.8	168953.6	166038.7	164915.3	167841.5
141425.3	8°	140438.5	139838.9	139098.7	141417.8	139364.4	137451.5	136142.1	138453.5
115601.2	9°	115384.9	114348.7	113597.2	113479.6	113798.4	110207.9	110936.7	112686.3
94005.2	10°	94039.4	92339.0	92752.7	92862.8	92513.6	90160.5	90183.2	90786.7
57656.4	12.5°	57451.4	56616.4	56825.2	56939.1	57648.8	56821.4	55652.4	54809.8
36352.6	15°	36109.7	35510.1	36736.0	37559.6	37392.6	36656.3	36105.9	35343.1
24165.5	17.5°	23941.6	24727.2	24731.0	25482.5	25558.4	24822.1	24397.0	23710.1
15716.9	20°	15659.9	15986.4	16665.7	17197.1	17504.5	16942.8	16434.2	15963.6
9799.8	22.5°	9799.8	10369.1	10794.2	11485.0	11765.8	11355.9	10995.4	10612.0
6118.2	25°	6015.8	6421.9	6774.8	7374.5	7757.9	7560.5	7230.3	6960.8
3951.0	27.5°	4011.8	4182.6	4357.2	4770.9	5169.4	5059.3	4926.5	4763.3
2785.8	30°	2827.6	2842.8	3028.8	3260.3	3526.0	3594.3	3533.5	3450.0
2045.7	32.5°	2083.7	2144.4	2231.7	2375.9	2554.3	2717.5	2687.2	2649.2
1563.7	35°	1609.3	1700.4	1772.5	1882.5	1977.4	2133.0	2159.6	2148.2
1286.7	37.5°	1313.2	1392.9	1465.0	1529.6	1609.3	1715.5	1799.0	1802.8
1062.7	40°	1089.3	1161.4	1256.3	1305.6	1362.6	1442.3	1544.7	1552.3
899.5	42.5°	918.5	986.8	1081.7	1142.4	1184.2	1260.1	1362.6	1377.7
770.5	45°	789.4	831.2	929.9	1002.0	1043.7	1093.1	1203.2	1218.3
664.2	47.5°	687.0	728.7	789.4	891.9	929.9	975.4	1062.7	1089.3
588.3	50°	603.5	645.2	698.4	789.4	846.4	884.3	956.4	994.4
512.4	52.5°	535.2	576.9	633.8	706.0	770.5	804.6	872.9	922.3
417.5	55°	447.9	520.0	561.7	626.2	713.5	743.9	797.0	861.6
364.4	57.5°	390.9	451.7	512.4	565.5	652.8	690.8	743.9	804.6
288.5	60°	330.2	387.1	459.2	504.8	588.3	637.6	694.6	751.5
220.1	62.5°	261.9	337.8	387.1	451.7	531.4	595.9	641.4	698.4
170.8	65°	193.6	277.1	334.0	402.3	478.2	546.5	584.5	645.2
121.5	67.5°	140.4	216.3	284.7	349.2	421.3	489.6	527.6	580.7
75.9	70°	110.1	159.4	235.3	292.2	368.2	425.1	466.8	501.0
49.3	72.5°	64.5	121.5	189.8	254.3	322.6	360.6	390.9	421.3
22.8	75°	41.7	94.9	155.6	212.5	261.9	296.0	322.6	349.2
11.4	77.5°	26.6	68.3	125.2	178.4	201.2	242.9	265.7	280.9
7.6	80°	15.2	53.1	110.1	144.2	163.2	189.8	212.5	231.5
7.6	82.5°	11.4	45.5	91.1	121.5	121.5	151.8	163.2	163.2
3.8	85°	7.6	38.0	72.1	113.9	91.1	113.9	106.3	106.3
3.8	87.5°	7.6	26.6	34.2	49.3	41.7	49.3	49.3	56.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
346147.1
335068.2
319529.7
293352.7
261254.7
226124.2
192481.5
159882.5
131853.3
107220.9
86680.1
54297.4
34952.1
23539.3
15800.4
10407.1
6805.2
4668.4
3393.1
2618.8
2110.3
1776.3
1540.9
1366.4
1214.5
1093.1
998.2
922.3
865.4
808.4
766.7
724.9
656.6
584.5
512.4
428.9
349.2
273.3
208.7
151.8
102.5
56.9
0.0

(END OF REPORT)