

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: P637140

Luminaire Tested: **IFLD-L-SA8B-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40474.1 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

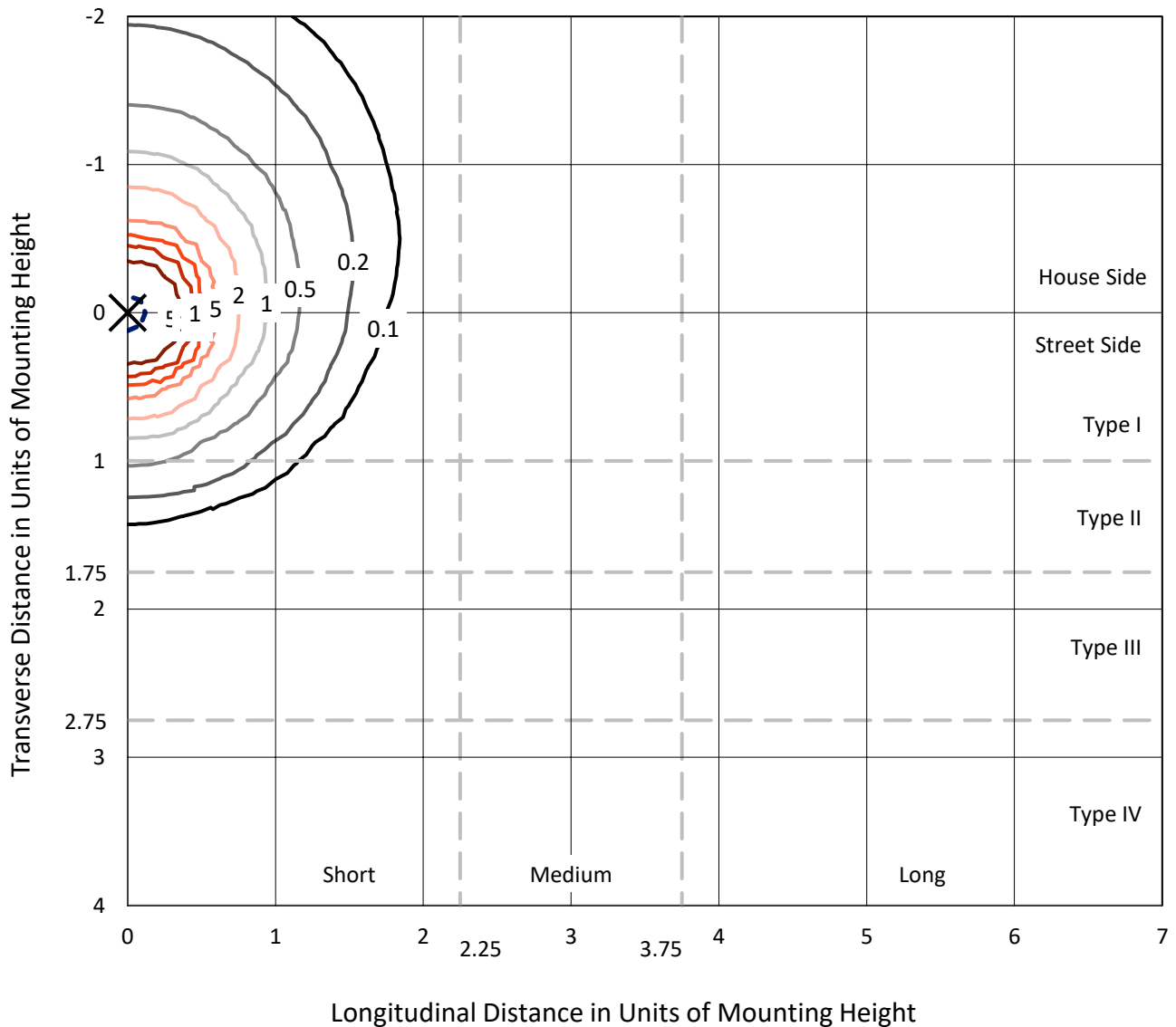
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

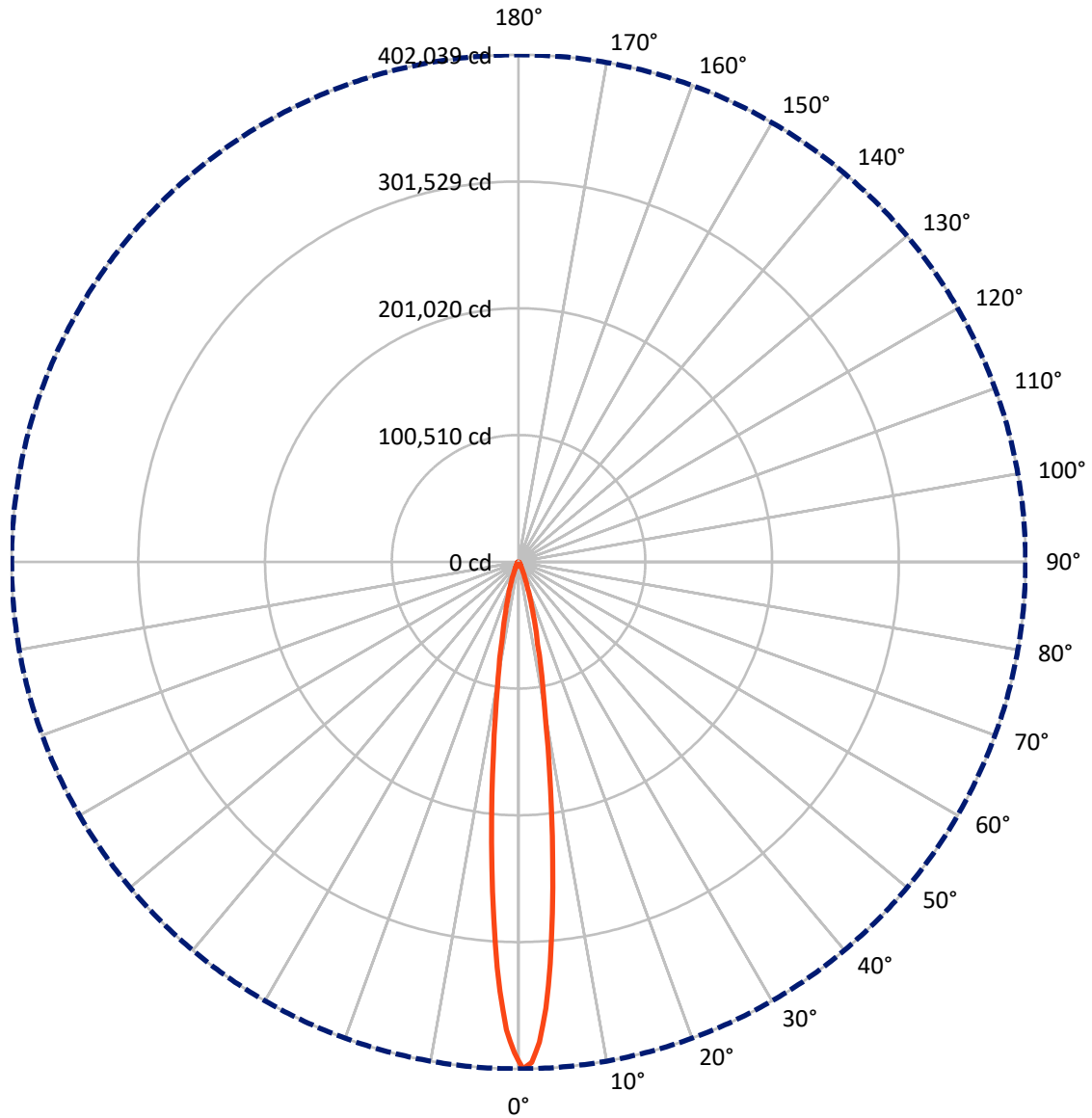
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1005.1 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	20730.1	0.0	20730.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19744.0	0.0	19744.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	40474.1	0.0	40474.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20432.5	50.5
10°-20°	13080.8	32.3
20°-30°	3931.8	9.7
30°-40°	1280.2	3.2
40°-50°	744.9	1.8
50°-60°	494.8	1.2
60°-70°	297.8	0.7
70°-80°	153.1	0.4
80°-90°	58.1	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°	40474.1	100.0
0°-180°	40474.1	100.0

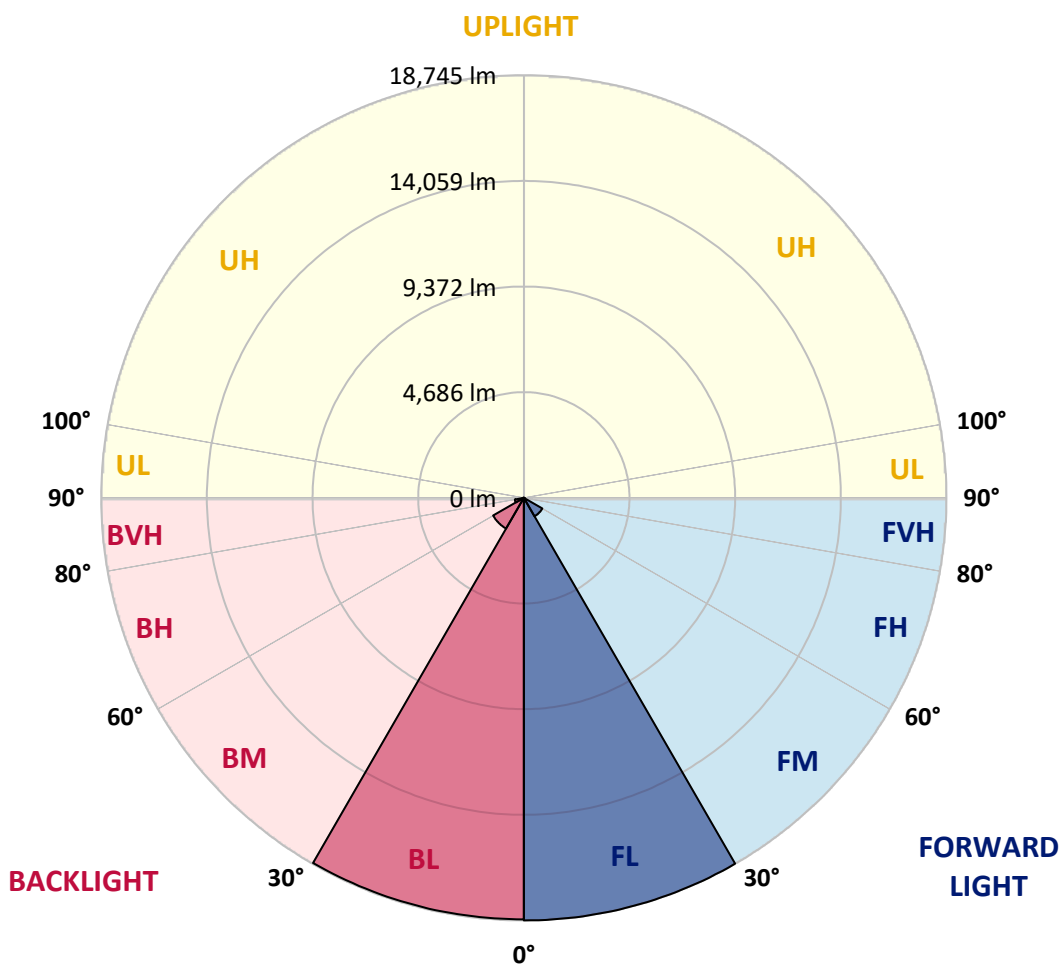


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18744.8	46.3			
FM (30°-60°)	945.9	2.3			
FH (60°-80°)	44.5	0.1			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	18700.4	46.2	B5		
BM (30°-60°)	1573.9	3.9	B2/2500		
BH (60°-80°)	406.4	1.0	B1/500		G0/660
BVH (80°-90°)	49.4	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°	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0
1°	397225.2	396012.9	392883.0	395109.2	397066.5	396497.8	396458.1	396246.5	395951.2	398269.9
2°	381346.6	380561.9	375933.2	377842.0	380623.6	378595.8	379865.4	378750.1	378772.1	381540.5
3°	354579.5	355007.1	347623.3	351092.6	354958.7	350043.4	351568.7	354434.1	351432.0	350528.3
4°	319789.4	316077.7	312044.1	315570.7	316571.4	313710.4	316522.9	320031.9	315861.7	316046.8
5°	280070.9	277328.9	272554.8	274732.5	272250.6	273154.3	277368.6	278814.5	275905.1	272241.8
6°	239232.6	237284.2	231315.4	234454.1	233572.4	233061.1	238381.8	233973.6	235560.5	233343.2
7°	198993.9	195352.7	192421.2	195427.6	195621.6	194083.1	200990.9	200188.5	197301.1	196631.1
8°	164869.5	161237.0	158755.2	160994.6	162458.1	160042.4	163291.3	165424.9	163167.9	163370.6
9°	132975.6	132336.4	128884.7	131811.8	133403.2	130815.5	134412.7	135184.1	133072.6	134099.7
10°	109184.1	108439.1	105684.0	106869.8	109505.9	106420.1	109871.8	110123.1	108439.1	108919.6
12.5°	67473.0	67173.3	67098.3	67270.3	67235.0	67781.6	68663.3	67658.2	67525.9	65864.0
15°	43611.1	44056.3	43597.8	44479.5	44607.3	45123.1	44585.3	43774.2	42226.9	41459.8
17.5°	27216.7	27785.4	28570.0	29861.6	31153.3	31303.2	30589.0	29636.8	28887.4	28067.5
20°	15658.2	15935.9	15816.9	17364.2	20705.7	21613.8	20692.4	19691.8	18788.1	17959.3
22.5°	9729.1	9627.7	9812.8	10333.0	11421.8	14229.9	13476.1	12475.4	11818.6	11135.3
25°	5964.4	6074.6	6004.1	6290.6	6779.9	7970.2	8142.1	7710.1	7375.0	7022.4
27.5°	3839.6	3839.6	3870.5	4029.2	4364.2	4324.5	5241.4	4906.4	4725.7	4553.7
30°	2667.0	2675.8	2675.8	2768.4	2843.3	2711.1	2949.1	3381.1	3297.4	3165.1
32.5°	1979.3	2005.8	2027.8	2076.3	2014.6	1873.5	1930.8	2433.4	2384.9	2336.4
35°	1507.6	1529.7	1582.6	1609.0	1520.9	1432.7	1379.8	1789.8	1811.8	1798.6
37.5°	1097.7	1110.9	1207.9	1309.3	1207.9	1128.5	1097.7	1375.4	1481.2	1468.0
40°	842.0	846.4	864.0	978.6	978.6	916.9	925.7	1027.1	1212.3	1212.3
42.5°	723.0	723.0	740.6	723.0	727.4	793.5	815.5	828.8	1027.1	1027.1
45°	626.0	626.0	634.8	590.7	546.6	683.3	700.9	705.3	864.0	886.1
47.5°	524.6	524.6	542.2	484.9	462.9	542.2	590.7	603.9	745.0	762.6
50°	387.9	392.3	445.2	396.7	410.0	418.8	511.4	520.2	630.4	670.1
52.5°	260.1	260.1	268.9	308.6	357.1	343.8	414.4	445.2	502.5	555.4
55°	211.6	211.6	207.2	198.4	264.5	286.5	304.2	370.3	410.0	476.1
57.5°	145.5	154.3	141.1	163.1	171.9	216.0	229.2	290.9	313.0	401.2
60°	17.6	22.0	30.9	119.0	114.6	145.5	171.9	229.2	255.7	308.6
62.5°	4.4	4.4	8.8	22.0	79.3	97.0	136.7	158.7	185.1	238.0
65°	0.0	0.0	4.4	8.8	17.6	52.9	70.5	92.6	132.2	167.5
67.5°	0.0	0.0	4.4	8.8	8.8	22.0	35.3	57.3	70.5	123.4
70°	0.0	0.0	4.4	8.8	8.8	17.6	22.0	26.4	48.5	66.1
72.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	22.0	22.0	44.1
75°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	22.0	17.6	17.6
77.5°	0.0	0.0	4.4	8.8	17.6	22.0	26.4	22.0	13.2	13.2
80°	0.0	0.0	4.4	13.2	22.0	30.9	35.3	26.4	13.2	8.8
82.5°	0.0	0.0	8.8	17.6	26.4	35.3	48.5	39.7	17.6	8.8
85°	0.0	0.0	4.4	13.2	26.4	35.3	70.5	48.5	22.0	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	26.4	17.6	8.8	4.4
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°
402039.0	0°	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0	402039.0
395594.1	1°	398358.1	398635.8	397727.7	399134.0	398640.2	395748.4	394791.8	393658.9
379913.9	2°	378750.1	380165.2	380235.7	381796.2	381774.2	378401.9	377357.1	379283.5
352362.2	3°	351295.4	352944.1	351458.5	354231.3	353398.1	349307.2	348244.8	350431.4
317510.4	4°	316562.6	316249.6	315738.2	314160.1	316104.1	313313.7	311210.9	314177.7
277099.7	5°	276544.3	275847.8	274851.5	274384.2	275830.1	274044.8	269720.3	274053.6
237354.7	6°	237645.7	234648.0	234502.6	234242.5	234387.9	229389.0	229688.7	232915.6
194325.5	7°	196379.8	196930.8	195806.7	197609.7	196234.3	192848.8	191543.9	194942.7
164261.1	8°	163115.0	162418.5	161558.8	164252.3	161867.4	159645.7	158124.8	160809.4
134267.2	9°	134015.9	132812.5	131939.6	131803.0	132173.3	128003.1	128849.4	130881.7
109184.1	10°	109223.8	107248.9	107729.4	107857.2	107451.7	104718.6	104745.0	105445.9
66966.1	12.5°	66728.0	65758.2	66000.7	66132.9	66957.3	65996.3	64638.5	63659.9
42222.5	15°	41940.3	41243.8	42667.7	43624.3	43430.3	42575.1	41935.9	41049.8
28067.5	17.5°	27807.4	28719.9	28724.3	29597.2	29685.3	28830.1	28336.4	27538.5
18254.7	20°	18188.5	18567.7	19356.7	19973.9	20331.0	19678.5	19087.8	18541.2
11382.2	22.5°	11382.2	12043.4	12537.1	13339.4	13665.7	13189.6	12770.8	12325.5
7106.1	25°	6987.1	7458.8	7868.8	8565.3	9010.5	8781.3	8397.8	8084.8
4589.0	27.5°	4659.5	4857.9	5060.7	5541.2	6004.1	5876.2	5721.9	5532.4
3235.7	30°	3284.2	3301.8	3517.8	3786.7	4095.3	4174.6	4104.1	4007.1
2376.1	32.5°	2420.1	2490.7	2592.1	2759.6	2966.8	3156.3	3121.1	3077.0
1816.2	35°	1869.1	1974.9	2058.7	2186.5	2296.7	2477.5	2508.3	2495.1
1494.4	37.5°	1525.3	1617.8	1701.6	1776.5	1869.1	1992.5	2089.5	2093.9
1234.3	40°	1265.2	1348.9	1459.1	1516.4	1582.6	1675.1	1794.2	1803.0
1044.8	42.5°	1066.8	1146.2	1256.4	1326.9	1375.4	1463.5	1582.6	1600.2
894.9	45°	916.9	965.4	1080.0	1163.8	1212.3	1269.6	1397.4	1415.1
771.4	47.5°	797.9	846.4	916.9	1035.9	1080.0	1132.9	1234.3	1265.2
683.3	50°	700.9	749.4	811.1	916.9	983.0	1027.1	1110.9	1155.0
595.1	52.5°	621.6	670.1	736.2	819.9	894.9	934.6	1013.9	1071.2
484.9	55°	520.2	603.9	652.4	727.4	828.8	864.0	925.7	1000.7
423.2	57.5°	454.1	524.6	595.1	656.8	758.2	802.3	864.0	934.6
335.0	60°	383.5	449.6	533.4	586.3	683.3	740.6	806.7	872.8
255.7	62.5°	304.2	392.3	449.6	524.6	617.2	692.1	745.0	811.1
198.4	65°	224.8	321.8	387.9	467.3	555.4	634.8	678.9	749.4
141.1	67.5°	163.1	251.3	330.6	405.6	489.3	568.7	612.8	674.5
88.2	70°	127.8	185.1	273.3	339.4	427.6	493.7	542.2	581.9
57.3	72.5°	74.9	141.1	220.4	295.4	374.7	418.8	454.1	489.3
26.4	75°	48.5	110.2	180.7	246.9	304.2	343.8	374.7	405.6
13.2	77.5°	30.9	79.3	145.5	207.2	233.6	282.1	308.6	326.2
8.8	80°	17.6	61.7	127.8	167.5	189.6	220.4	246.9	268.9
8.8	82.5°	13.2	52.9	105.8	141.1	141.1	176.3	189.6	189.6
4.4	85°	8.8	44.1	83.8	132.2	105.8	132.2	123.4	123.4
4.4	87.5°	8.8	30.9	39.7	57.3	48.5	57.3	57.3	66.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
402039.0
389171.3
371123.8
340719.9
303439.1
262636.2
223561.2
185698.6
153143.4
124533.7
100676.2
63064.8
40595.8
27340.1
18351.6
12087.5
7904.0
5422.2
3941.0
3041.7
2451.0
2063.1
1789.8
1587.0
1410.6
1269.6
1159.4
1071.2
1005.1
939.0
890.5
842.0
762.6
678.9
595.1
498.1
405.6
317.4
242.5
176.3
119.0
66.1
0.0

(END OF REPORT)