

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: P637089

Luminaire Tested: **IFLD-S-SA2E-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637089
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17752.9 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

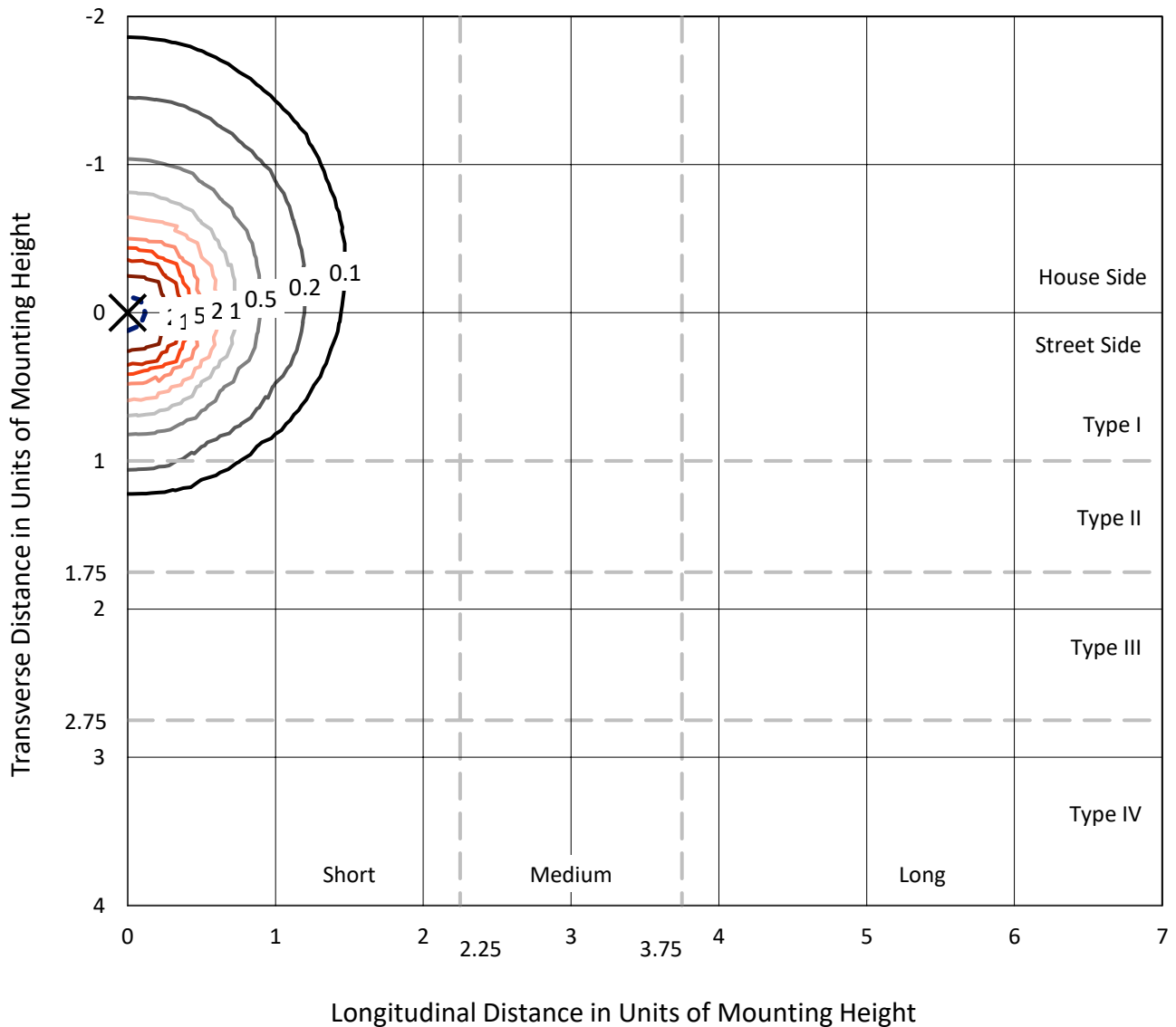
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

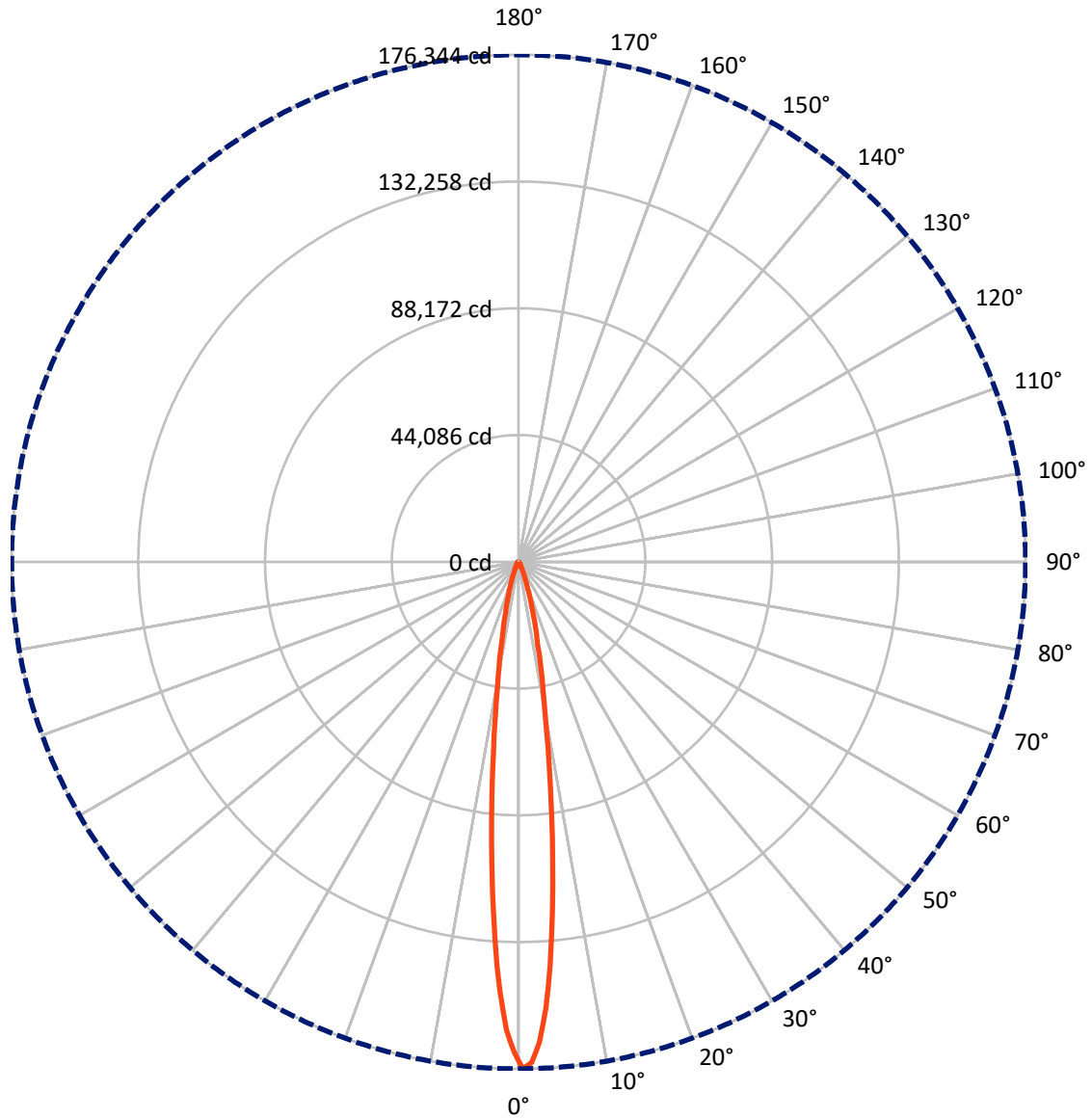
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 440.9 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	9092.7	0.0	9092.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8660.2	0.0	8660.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	17752.9	0.0	17752.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8962.2	50.5
10°-20°	5737.6	32.3
20°-30°	1724.6	9.7
30°-40°	561.5	3.2
40°-50°	326.7	1.8
50°-60°	217.0	1.2
60°-70°	130.6	0.7
70°-80°	67.1	0.4
80°-90°	25.5	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°	17752.9	100.0
0°-180°	17752.9	100.0

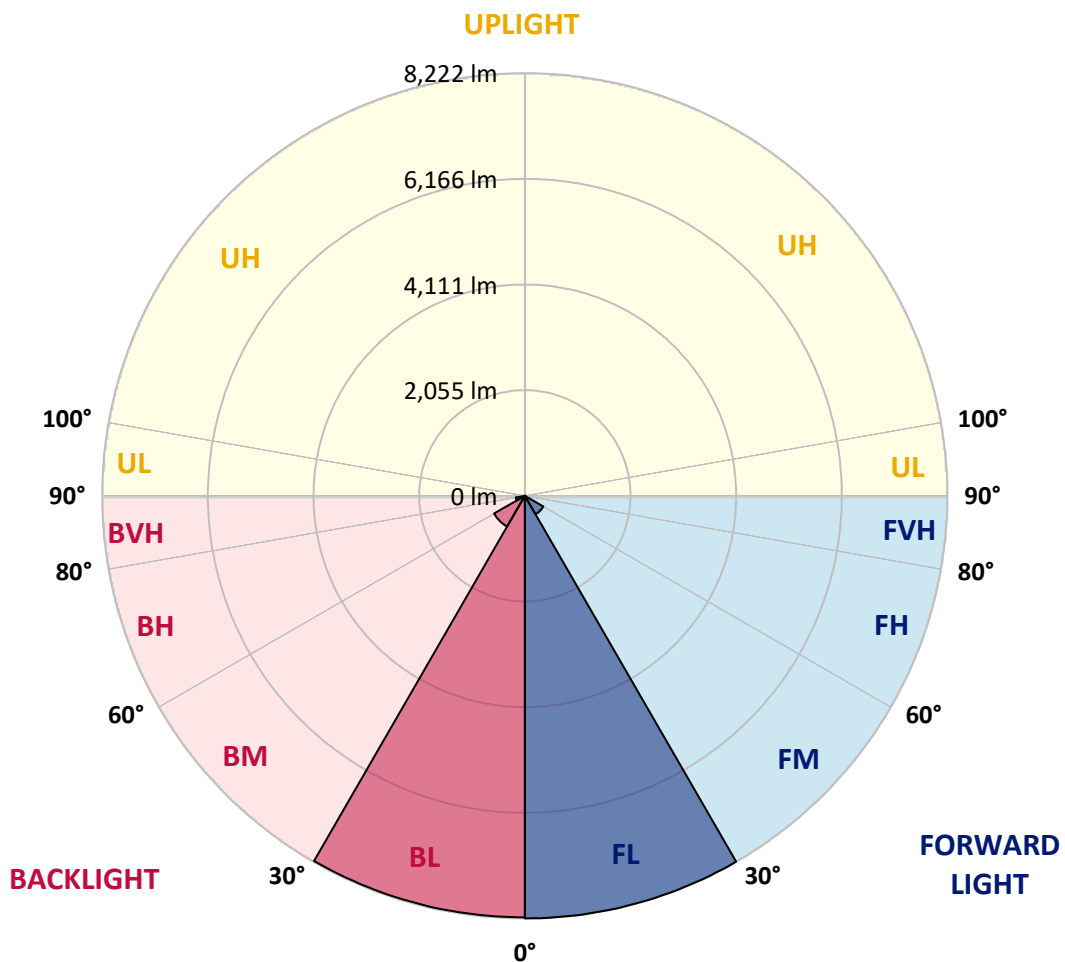


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8221.9	46.3			
FM (30°-60°)	414.9	2.3			
FH (60°-80°)	19.5	0.1			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	8202.4	46.2	B5		
BM (30°-60°)	690.4	3.9	B1/1000		
BH (60°-80°)	178.2	1.0	B1/500		G0/660
BVH (80°-90°)	21.7	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°	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8
1°	174232.4	173700.6	172327.8	173304.2	174162.8	173913.3	173895.9	173803.1	173673.6	174690.6
2°	167267.6	166923.5	164893.2	165730.4	166950.5	166061.1	166617.9	166128.8	166138.4	167352.7
3°	155527.0	155714.5	152475.8	153997.5	155693.3	153537.3	154206.3	155463.2	154146.4	153750.0
4°	140267.2	138639.1	136869.9	138416.8	138855.7	137600.8	138834.4	140373.6	138544.4	138625.6
5°	122845.7	121643.0	119549.0	120504.2	119415.6	119811.9	121660.4	122294.6	121018.5	119411.7
6°	104933.1	104078.5	101460.4	102837.1	102450.4	102226.1	104559.9	102626.3	103322.4	102349.8
7°	87283.4	85686.3	84400.5	85719.2	85804.3	85129.4	88159.3	87807.4	86540.9	86247.0
8°	72315.6	70722.4	69633.8	70616.0	71258.0	70198.4	71623.4	72559.3	71569.3	71658.2
9°	58326.2	58045.9	56531.9	57815.8	58513.8	57378.8	58956.6	59295.0	58368.8	58819.3
10°	47890.7	47564.0	46355.5	46875.6	48031.9	46678.4	48192.4	48302.6	47564.0	47774.7
12.5°	29595.3	29463.8	29430.9	29506.3	29490.9	29730.6	30117.3	29676.5	29618.5	28889.5
15°	19128.8	19324.1	19123.0	19509.8	19565.8	19792.1	19556.2	19200.4	18521.7	18185.3
17.5°	11937.9	12187.3	12531.5	13098.0	13664.6	13730.3	13417.1	12999.4	12670.7	12311.1
20°	6868.1	6989.9	6937.7	7616.3	9082.0	9480.3	9076.2	8637.3	8240.9	7877.4
22.5°	4267.4	4222.9	4304.1	4532.3	5009.9	6241.6	5910.9	5472.0	5183.9	4884.2
25°	2616.1	2664.5	2633.5	2759.2	2973.8	3495.9	3571.3	3381.8	3234.9	3080.2
27.5°	1684.1	1684.1	1697.7	1767.3	1914.2	1896.8	2299.0	2152.1	2072.8	1997.4
30°	1169.8	1173.7	1173.7	1214.3	1247.2	1189.1	1293.6	1483.1	1446.3	1388.3
32.5°	868.2	879.8	889.4	910.7	883.6	821.8	846.9	1067.3	1046.1	1024.8
35°	661.3	670.9	694.2	705.8	667.1	628.4	605.2	785.0	794.7	788.9
37.5°	481.5	487.3	529.8	574.3	529.8	495.0	481.5	603.3	649.7	643.9
40°	369.3	371.2	379.0	429.3	429.3	402.2	406.1	450.5	531.7	531.7
42.5°	317.1	317.1	324.8	317.1	319.0	348.0	357.7	363.5	450.5	450.5
45°	274.6	274.6	278.4	259.1	239.8	299.7	307.4	309.4	379.0	388.6
47.5°	230.1	230.1	237.8	212.7	203.0	237.8	259.1	264.9	326.8	334.5
50°	170.2	172.1	195.3	174.0	179.8	183.7	224.3	228.2	276.5	293.9
52.5°	114.1	114.1	117.9	135.4	156.6	150.8	181.8	195.3	220.4	243.6
55°	92.8	92.8	90.9	87.0	116.0	125.7	133.4	162.4	179.8	208.8
57.5°	63.8	67.7	61.9	71.5	75.4	94.7	100.5	127.6	137.3	176.0
60°	7.7	9.7	13.5	52.2	50.3	63.8	75.4	100.5	112.1	135.4
62.5°	1.9	1.9	3.9	9.7	34.8	42.5	59.9	69.6	81.2	104.4
65°	0.0	0.0	1.9	3.9	7.7	23.2	30.9	40.6	58.0	73.5
67.5°	0.0	0.0	1.9	3.9	3.9	9.7	15.5	25.1	30.9	54.1
70°	0.0	0.0	1.9	3.9	3.9	7.7	9.7	11.6	21.3	29.0
72.5°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	9.7	9.7	19.3
75°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	9.7	7.7	7.7
77.5°	0.0	0.0	1.9	3.9	7.7	9.7	11.6	9.7	5.8	5.8
80°	0.0	0.0	1.9	5.8	9.7	13.5	15.5	11.6	5.8	3.9
82.5°	0.0	0.0	3.9	7.7	11.6	15.5	21.3	17.4	7.7	3.9
85°	0.0	0.0	1.9	5.8	11.6	15.5	30.9	21.3	9.7	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	11.6	7.7	3.9	1.9
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°
176343.8	0°	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8	176343.8
173516.9	1°	174729.3	174851.1	174452.8	175069.6	174853.0	173584.6	173165.0	171952.7
166639.2	2°	166128.8	166749.4	166780.4	167464.9	167455.2	165976.0	165517.7	166362.7
154554.4	3°	154086.5	154809.6	154158.0	155374.2	155008.8	153214.4	152748.4	153707.5
139267.6	4°	138851.8	138714.6	138490.3	137798.0	138650.7	137426.8	136504.5	137805.8
121542.5	5°	121298.9	120993.4	120556.4	120351.4	120985.6	120202.5	118305.7	120206.4
104109.4	6°	104237.0	102922.2	102858.4	102744.3	102808.1	100615.4	100746.9	102162.3
85235.8	7°	86136.8	86378.5	85885.5	86676.3	86073.0	84588.0	84015.7	85506.5
72048.8	8°	71546.1	71240.6	70863.5	72044.9	70998.9	70024.4	69357.3	70534.8
58892.8	9°	58782.6	58254.7	57871.9	57811.9	57974.3	56145.2	56516.4	57407.8
47890.7	10°	47908.1	47041.9	47252.7	47308.7	47130.9	45932.0	45943.6	46251.1
29372.9	12.5°	29268.5	28843.1	28949.5	29007.5	29369.0	28947.5	28352.0	27922.7
18519.8	15°	18396.0	18090.5	18715.1	19134.6	19049.6	18674.5	18394.1	18005.4
12311.1	17.5°	12197.0	12597.2	12599.2	12982.0	13020.7	12645.6	12429.0	12079.0
8006.9	20°	7977.9	8144.2	8490.3	8761.0	8917.6	8631.5	8372.4	8132.6
4992.5	22.5°	4992.5	5282.5	5499.1	5851.0	5994.1	5785.3	5601.6	5406.3
3116.9	25°	3064.7	3271.6	3451.4	3756.9	3952.2	3851.7	3683.5	3546.2
2012.8	27.5°	2043.8	2130.8	2219.7	2430.5	2633.5	2577.5	2509.8	2426.6
1419.2	30°	1440.5	1448.2	1543.0	1660.9	1796.3	1831.1	1800.2	1757.6
1042.2	32.5°	1061.5	1092.5	1136.9	1210.4	1301.3	1384.4	1369.0	1349.6
796.6	35°	819.8	866.2	903.0	959.1	1007.4	1086.7	1100.2	1094.4
655.5	37.5°	669.0	709.6	746.4	779.2	819.8	874.0	916.5	918.4
541.4	40°	554.9	591.7	640.0	665.1	694.2	734.8	787.0	790.8
458.3	42.5°	467.9	502.7	551.1	582.0	603.3	641.9	694.2	701.9
392.5	45°	402.2	423.5	473.7	510.5	531.7	556.9	612.9	620.7
338.4	47.5°	350.0	371.2	402.2	454.4	473.7	496.9	541.4	554.9
299.7	50°	307.4	328.7	355.8	402.2	431.2	450.5	487.3	506.6
261.0	52.5°	272.6	293.9	322.9	359.6	392.5	409.9	444.7	469.9
212.7	55°	228.2	264.9	286.2	319.0	363.5	379.0	406.1	438.9
185.6	57.5°	199.2	230.1	261.0	288.1	332.6	351.9	379.0	409.9
147.0	60°	168.2	197.2	234.0	257.2	299.7	324.8	353.8	382.8
112.1	62.5°	133.4	172.1	197.2	230.1	270.7	303.6	326.8	355.8
87.0	65°	98.6	141.2	170.2	205.0	243.6	278.4	297.8	328.7
61.9	67.5°	71.5	110.2	145.0	177.9	214.6	249.4	268.8	295.8
38.7	70°	56.1	81.2	119.9	148.9	187.6	216.6	237.8	255.2
25.1	72.5°	32.9	61.9	96.7	129.5	164.4	183.7	199.2	214.6
11.6	75°	21.3	48.3	79.3	108.3	133.4	150.8	164.4	177.9
5.8	77.5°	13.5	34.8	63.8	90.9	102.5	123.7	135.4	143.1
3.9	80°	7.7	27.1	56.1	73.5	83.1	96.7	108.3	117.9
3.9	82.5°	5.8	23.2	46.4	61.9	61.9	77.3	83.1	83.1
1.9	85°	3.9	19.3	36.7	58.0	46.4	58.0	54.1	54.1
1.9	87.5°	3.9	13.5	17.4	25.1	21.3	25.1	25.1	29.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
176343.8
170699.7
162783.7
149447.8
133095.6
115198.4
98059.2
81451.8
67172.3
54623.4
44158.9
27661.7
17806.3
11992.0
8049.5
5301.9
3466.9
2378.3
1728.6
1334.2
1075.1
904.9
785.0
696.1
618.7
556.9
508.5
469.9
440.9
411.9
390.6
369.3
334.5
297.8
261.0
218.5
177.9
139.2
106.3
77.3
52.2
29.0
0.0

(END OF REPORT)