

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: P637088

Luminaire Tested: **IFLD-S-SA2D-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637088
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 15340.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

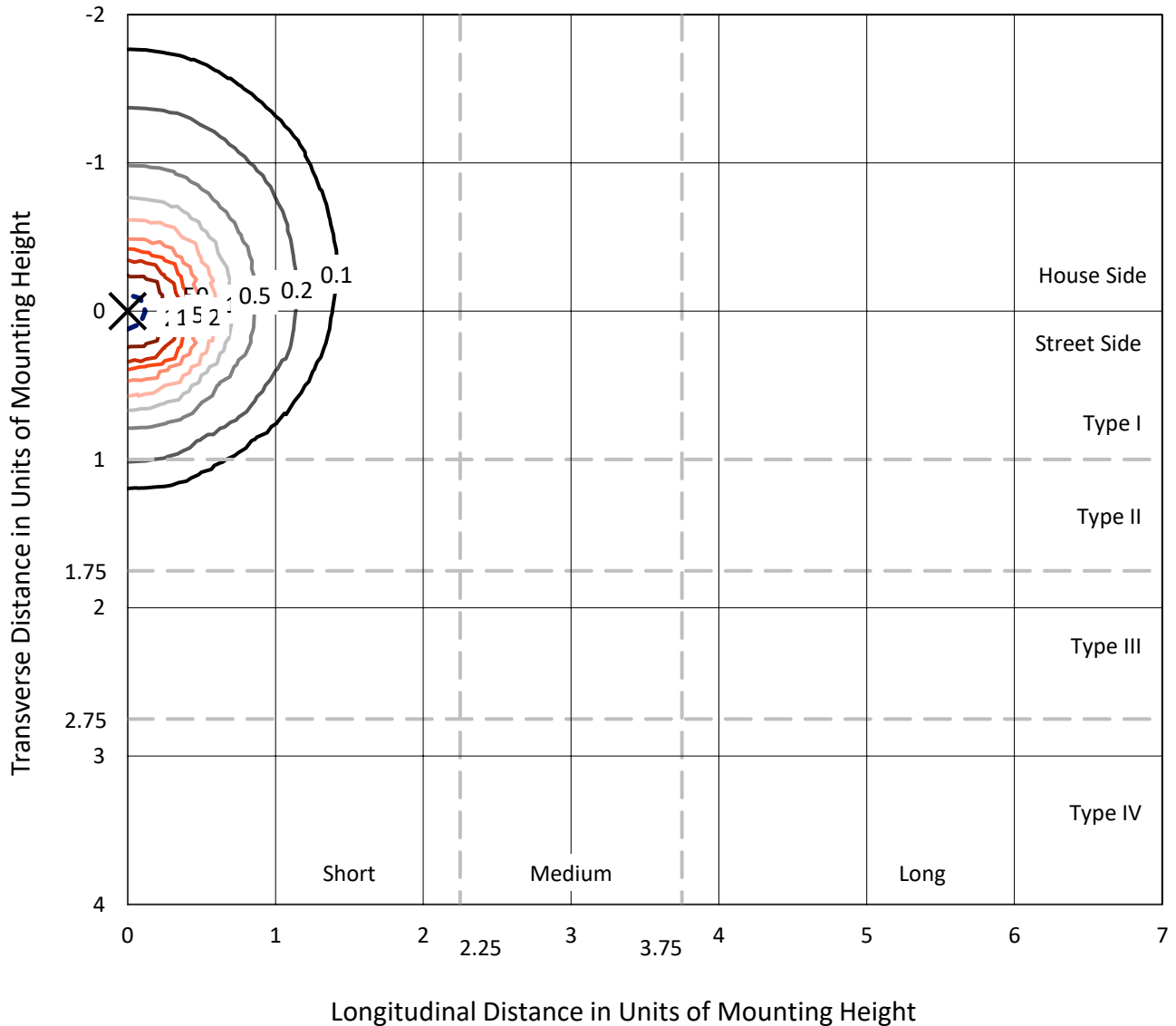
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637088
 CATALOG NUMBER: IFLD-S-SA2D-735-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

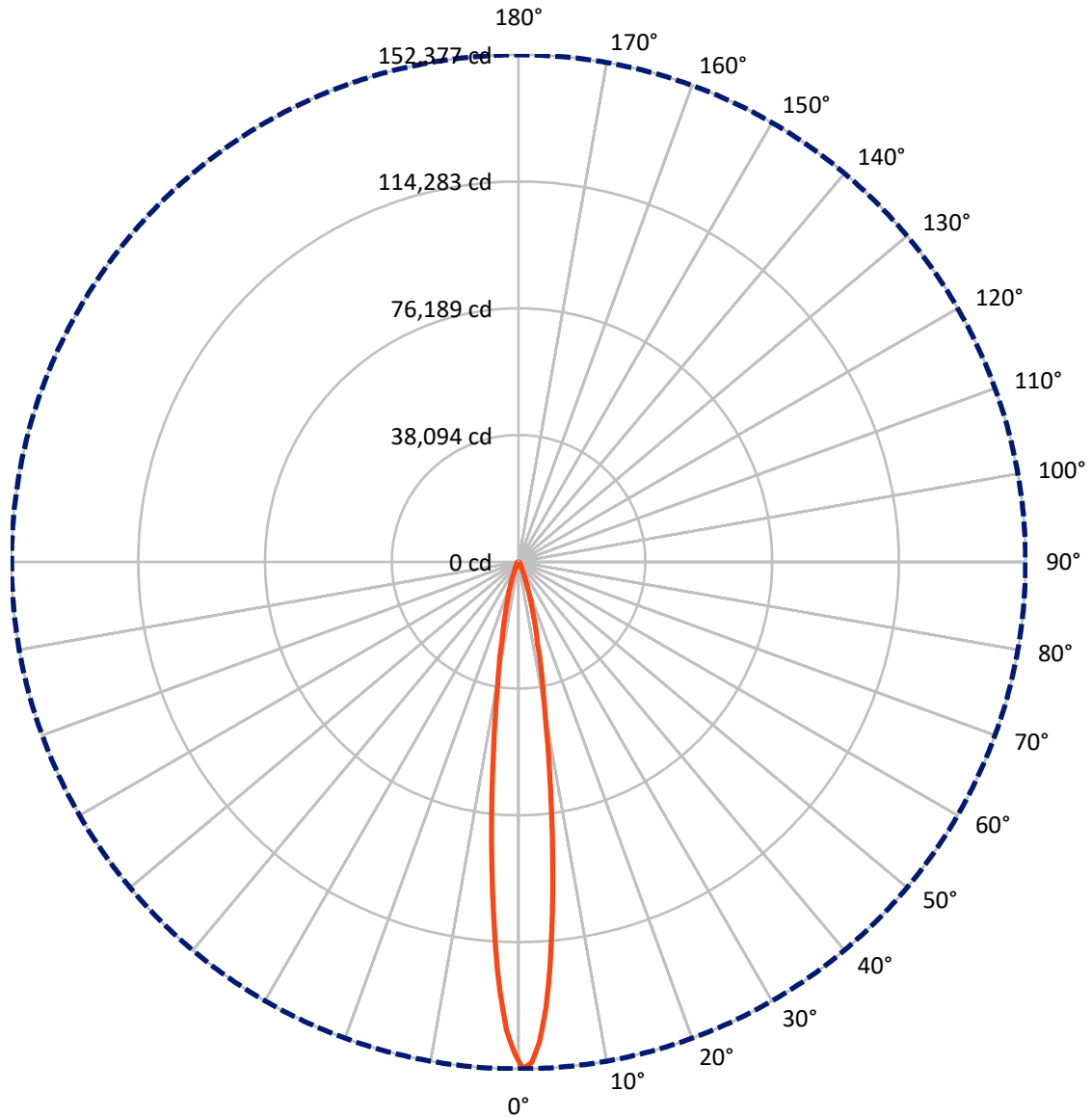
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 380.9 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2D-735-U-33-VI

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	7856.9	0.0	7856.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	7483.2	0.0	7483.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	15340.1	0.0	15340.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7744.2	50.5
10°-20°	4957.8	32.3
20°-30°	1490.2	9.7
30°-40°	485.2	3.2
40°-50°	282.3	1.8
50°-60°	187.5	1.2
60°-70°	112.9	0.7
70°-80°	58.0	0.4
80°-90°	22.0	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°	15340.1	100.0
0°-180°	15340.1	100.0



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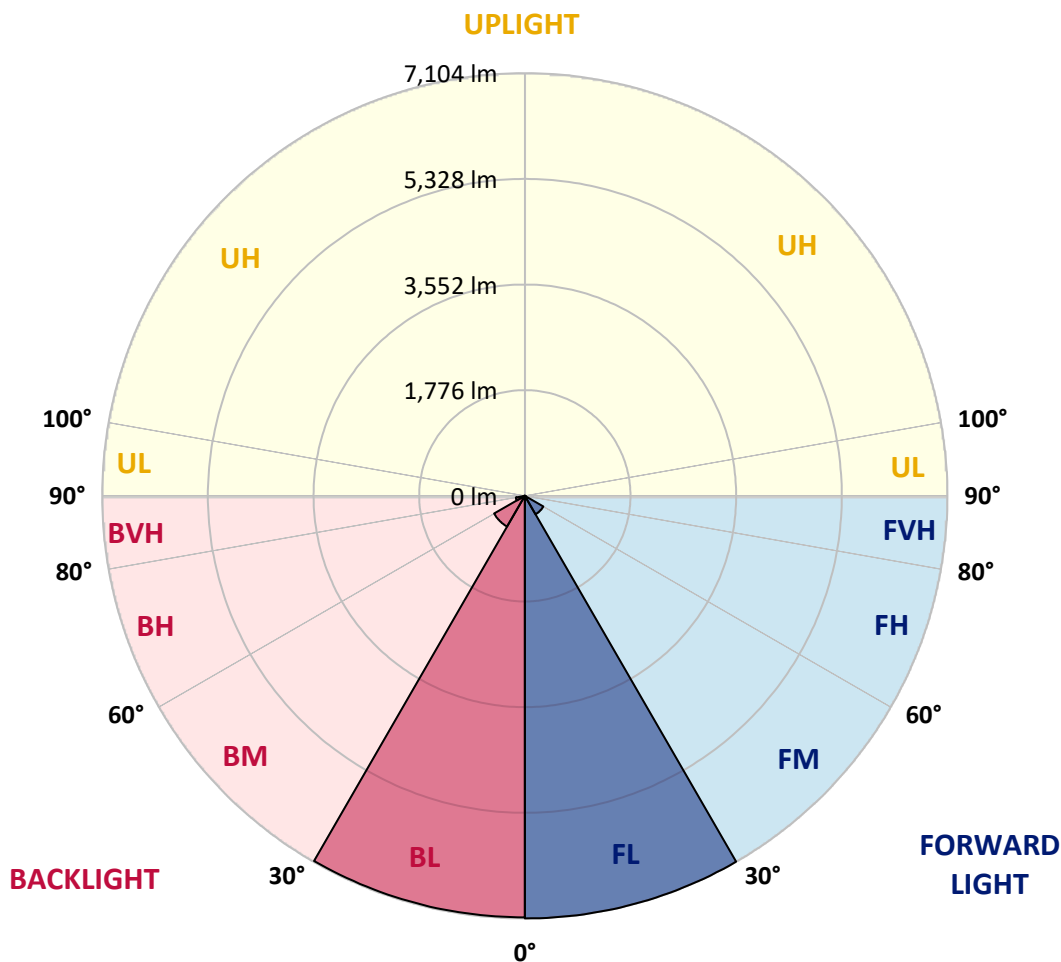
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7104.5	46.3			
FM (30°-60°)	358.5	2.3			
FH (60°-80°)	16.9	0.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	7087.7	46.2	B5		
BM (30°-60°)	596.5	3.9	B1/1000		
BH (60°-80°)	154.0	1.0	B1/500		G0/660
BVH (80°-90°)	18.7	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°	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3
1°	150552.8	150093.4	148907.1	149750.9	150492.7	150277.2	150262.1	150181.9	150070.0	150948.8
2°	144534.7	144237.3	142483.0	143206.4	144260.7	143492.1	143973.3	143550.6	143558.9	144608.2
3°	134389.7	134551.7	131753.2	133068.1	134533.4	132670.4	133248.5	134334.5	133196.7	132854.2
4°	121203.8	119797.0	118268.3	119604.9	119984.1	118899.8	119965.8	121295.7	119715.2	119785.3
5°	106150.0	105110.8	103301.4	104126.7	103186.1	103528.6	105125.8	105673.9	104571.1	103182.7
6°	90671.9	89933.4	87671.1	88860.7	88526.6	88332.8	90349.4	88678.6	89280.1	88439.7
7°	75420.9	74040.9	72929.8	74069.3	74142.8	73559.7	76177.8	75873.7	74779.4	74525.4
8°	62487.4	61110.7	60170.0	61018.8	61573.5	60657.9	61889.3	62697.9	61842.5	61919.3
9°	50399.3	50157.0	48848.8	49958.2	50561.3	49580.6	50943.9	51236.3	50436.0	50825.3
10°	41382.0	41099.7	40055.4	40504.9	41504.0	40334.4	41642.7	41737.9	41099.7	41281.8
12.5°	25573.0	25459.4	25431.0	25496.2	25482.8	25690.0	26024.2	25643.2	25593.1	24963.2
15°	16529.1	16697.8	16524.1	16858.2	16906.7	17102.2	16898.3	16590.9	16004.5	15713.7
17.5°	10315.4	10531.0	10828.4	11317.9	11807.4	11864.3	11593.6	11232.7	10948.7	10637.9
20°	5934.6	6039.9	5994.8	6581.2	7847.7	8191.9	7842.7	7463.4	7120.9	6806.8
22.5°	3687.4	3649.0	3719.2	3916.3	4329.0	5393.3	5107.6	4728.3	4479.4	4220.4
25°	2260.6	2302.3	2275.6	2384.2	2569.7	3020.8	3085.9	2922.2	2795.2	2661.6
27.5°	1455.3	1455.3	1467.0	1527.1	1654.1	1639.0	1986.6	1859.6	1791.1	1725.9
30°	1010.8	1014.2	1014.2	1049.3	1077.7	1027.5	1117.8	1281.5	1249.7	1199.6
32.5°	750.2	760.2	768.6	786.9	763.5	710.1	731.8	922.3	903.9	885.5
35°	571.4	579.8	599.8	609.8	576.4	543.0	523.0	678.3	686.7	681.7
37.5°	416.0	421.0	457.8	496.2	457.8	427.7	416.0	521.3	561.4	556.4
40°	319.1	320.8	327.5	370.9	370.9	347.5	350.9	389.3	459.5	459.5
42.5°	274.0	274.0	280.7	274.0	275.7	300.7	309.1	314.1	389.3	389.3
45°	237.3	237.3	240.6	223.9	207.2	259.0	265.7	267.3	327.5	335.8
47.5°	198.8	198.8	205.5	183.8	175.4	205.5	223.9	228.9	282.4	289.0
50°	147.0	148.7	168.7	150.4	155.4	158.7	193.8	197.2	238.9	254.0
52.5°	98.6	98.6	101.9	117.0	135.3	130.3	157.1	168.7	190.5	210.5
55°	80.2	80.2	78.5	75.2	100.2	108.6	115.3	140.3	155.4	180.4
57.5°	55.1	58.5	53.5	61.8	65.2	81.9	86.9	110.3	118.6	152.0
60°	6.7	8.4	11.7	45.1	43.4	55.1	65.2	86.9	96.9	117.0
62.5°	1.7	1.7	3.3	8.4	30.1	36.8	51.8	60.1	70.2	90.2
65°	0.0	0.0	1.7	3.3	6.7	20.0	26.7	35.1	50.1	63.5
67.5°	0.0	0.0	1.7	3.3	3.3	8.4	13.4	21.7	26.7	46.8
70°	0.0	0.0	1.7	3.3	3.3	6.7	8.4	10.0	18.4	25.1
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	8.4	8.4	16.7
75°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	8.4	6.7	6.7
77.5°	0.0	0.0	1.7	3.3	6.7	8.4	10.0	8.4	5.0	5.0
80°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	10.0	5.0	3.3
82.5°	0.0	0.0	3.3	6.7	10.0	13.4	18.4	15.0	6.7	3.3
85°	0.0	0.0	1.7	5.0	10.0	13.4	26.7	18.4	8.4	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.3	10.0	6.7	3.3	1.7
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°
152377.3	0°	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3	152377.3
149934.7	1°	150982.2	151087.5	150743.3	151276.3	151089.2	149993.1	149630.6	149201.2
143991.7	2°	143550.6	144086.9	144113.6	144705.1	144696.7	143418.6	143022.6	143752.7
133549.3	3°	133144.9	133769.8	133206.7	134257.7	133941.9	132391.4	131988.7	132817.5
120340.0	4°	119980.8	119862.2	119668.4	119070.2	119807.0	118749.4	117952.5	119076.9
105023.9	5°	104813.4	104549.4	104171.8	103994.7	104542.7	103866.1	102227.0	103869.4
89960.1	6°	90070.4	88934.3	88879.1	88780.6	88835.7	86941.0	87054.6	88277.6
73651.6	7°	74430.2	74639.0	74213.0	74896.3	74375.0	73091.9	72597.3	73885.5
62256.8	8°	61822.4	61558.4	61232.6	62253.5	61349.6	60507.5	59931.1	60948.6
50888.8	9°	50793.6	50337.4	50006.6	49954.8	50095.2	48514.6	48835.4	49605.6
41382.0	10°	41397.1	40648.6	40830.7	40879.1	40725.4	39689.5	39699.5	39965.2
25380.9	12.5°	25290.7	24923.1	25015.0	25065.1	25377.6	25013.3	24498.7	24127.8
16002.8	15°	15895.9	15631.9	16171.5	16534.1	16460.6	16136.5	15894.2	15558.4
10637.9	17.5°	10539.3	10885.2	10886.8	11217.7	11251.1	10926.9	10739.8	10437.4
6918.7	20°	6893.7	7037.4	7336.4	7570.3	7705.7	7458.4	7234.5	7027.3
4314.0	22.5°	4314.0	4564.6	4751.7	5055.8	5179.4	4999.0	4840.3	4671.5
2693.3	25°	2648.2	2827.0	2982.4	3246.3	3415.1	3328.2	3182.8	3064.2
1739.3	27.5°	1766.0	1841.2	1918.1	2100.2	2275.6	2227.2	2168.7	2096.8
1226.4	30°	1244.7	1251.4	1333.3	1435.2	1552.2	1582.2	1555.5	1518.7
900.6	32.5°	917.3	944.0	982.4	1045.9	1124.4	1196.3	1182.9	1166.2
688.4	35°	708.4	748.5	780.3	828.7	870.5	939.0	950.7	945.7
566.4	37.5°	578.1	613.2	644.9	673.3	708.4	755.2	792.0	793.6
467.8	40°	479.5	511.3	553.0	574.8	599.8	634.9	680.0	683.4
396.0	42.5°	404.3	434.4	476.2	502.9	521.3	554.7	599.8	606.5
339.2	45°	347.5	365.9	409.3	441.1	459.5	481.2	529.6	536.3
292.4	47.5°	302.4	320.8	347.5	392.6	409.3	429.4	467.8	479.5
259.0	50°	265.7	284.0	307.4	347.5	372.6	389.3	421.0	437.7
225.6	52.5°	235.6	254.0	279.0	310.8	339.2	354.2	384.3	406.0
183.8	55°	197.2	228.9	247.3	275.7	314.1	327.5	350.9	379.3
160.4	57.5°	172.1	198.8	225.6	248.9	287.4	304.1	327.5	354.2
127.0	60°	145.4	170.4	202.2	222.2	259.0	280.7	305.8	330.8
96.9	62.5°	115.3	148.7	170.4	198.8	233.9	262.3	282.4	307.4
75.2	65°	85.2	122.0	147.0	177.1	210.5	240.6	257.3	284.0
53.5	67.5°	61.8	95.2	125.3	153.7	185.5	215.5	232.2	255.6
33.4	70°	48.5	70.2	103.6	128.7	162.1	187.1	205.5	220.5
21.7	72.5°	28.4	53.5	83.5	111.9	142.0	158.7	172.1	185.5
10.0	75°	18.4	41.8	68.5	93.6	115.3	130.3	142.0	153.7
5.0	77.5°	11.7	30.1	55.1	78.5	88.6	106.9	117.0	123.6
3.3	80°	6.7	23.4	48.5	63.5	71.8	83.5	93.6	101.9
3.3	82.5°	5.0	20.0	40.1	53.5	53.5	66.8	71.8	71.8
1.7	85°	3.3	16.7	31.7	50.1	40.1	50.1	46.8	46.8
1.7	87.5°	3.3	11.7	15.0	21.7	18.4	21.7	21.7	25.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
152377.3
147500.3
140660.1
129136.7
115006.9
99542.1
84732.2
70381.9
58043.1
47199.7
38157.4
23902.3
15386.3
10362.2
6955.5
4581.3
2995.7
2055.1
1493.7
1152.8
929.0
781.9
678.3
601.5
534.7
481.2
439.4
406.0
380.9
355.9
337.5
319.1
289.0
257.3
225.6
188.8
153.7
120.3
91.9
66.8
45.1
25.1
0.0

(END OF REPORT)