

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: P637201

Luminaire Tested: **IFLD-S-SA2A-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637201
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6749.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

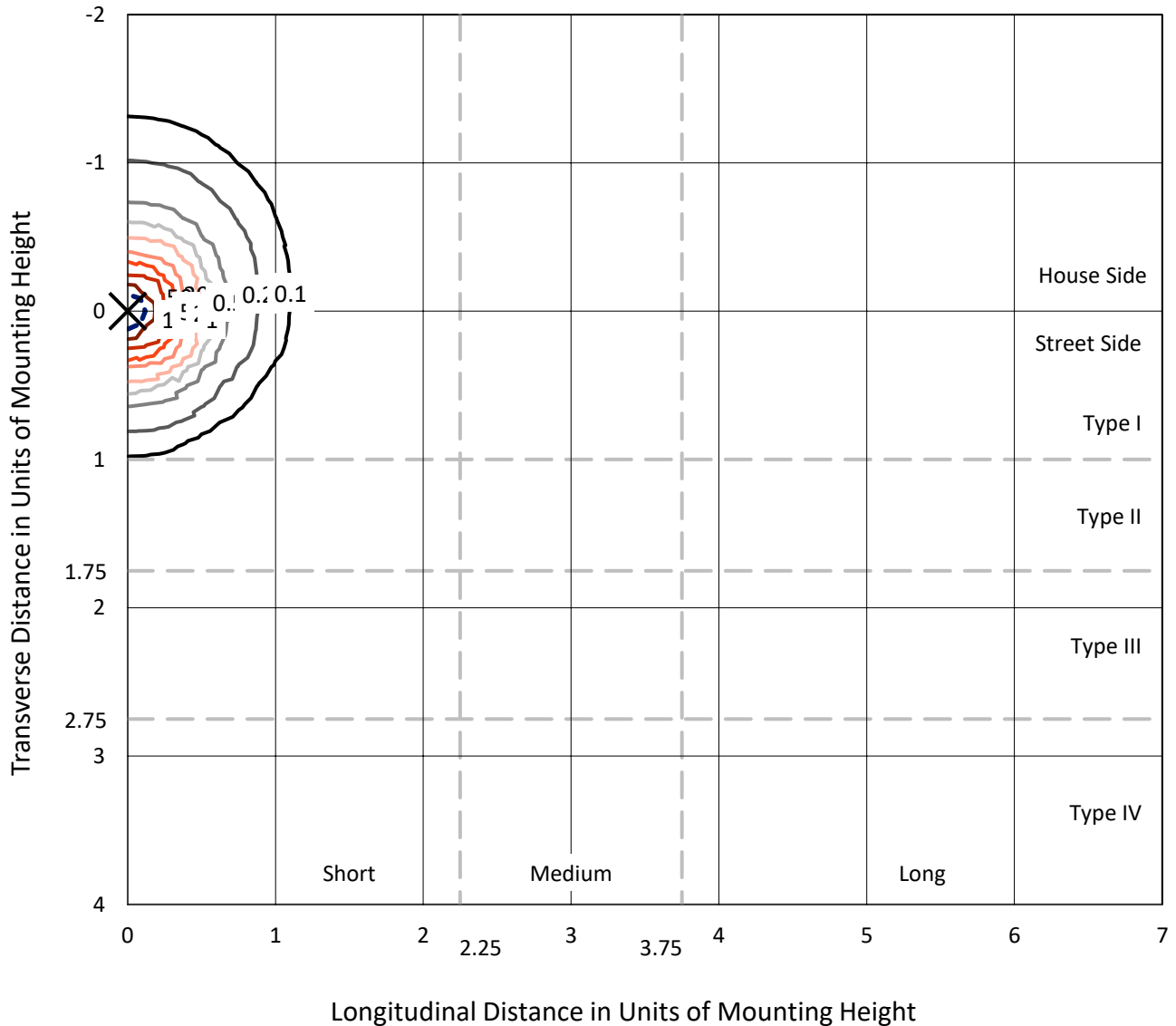
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637201
 CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

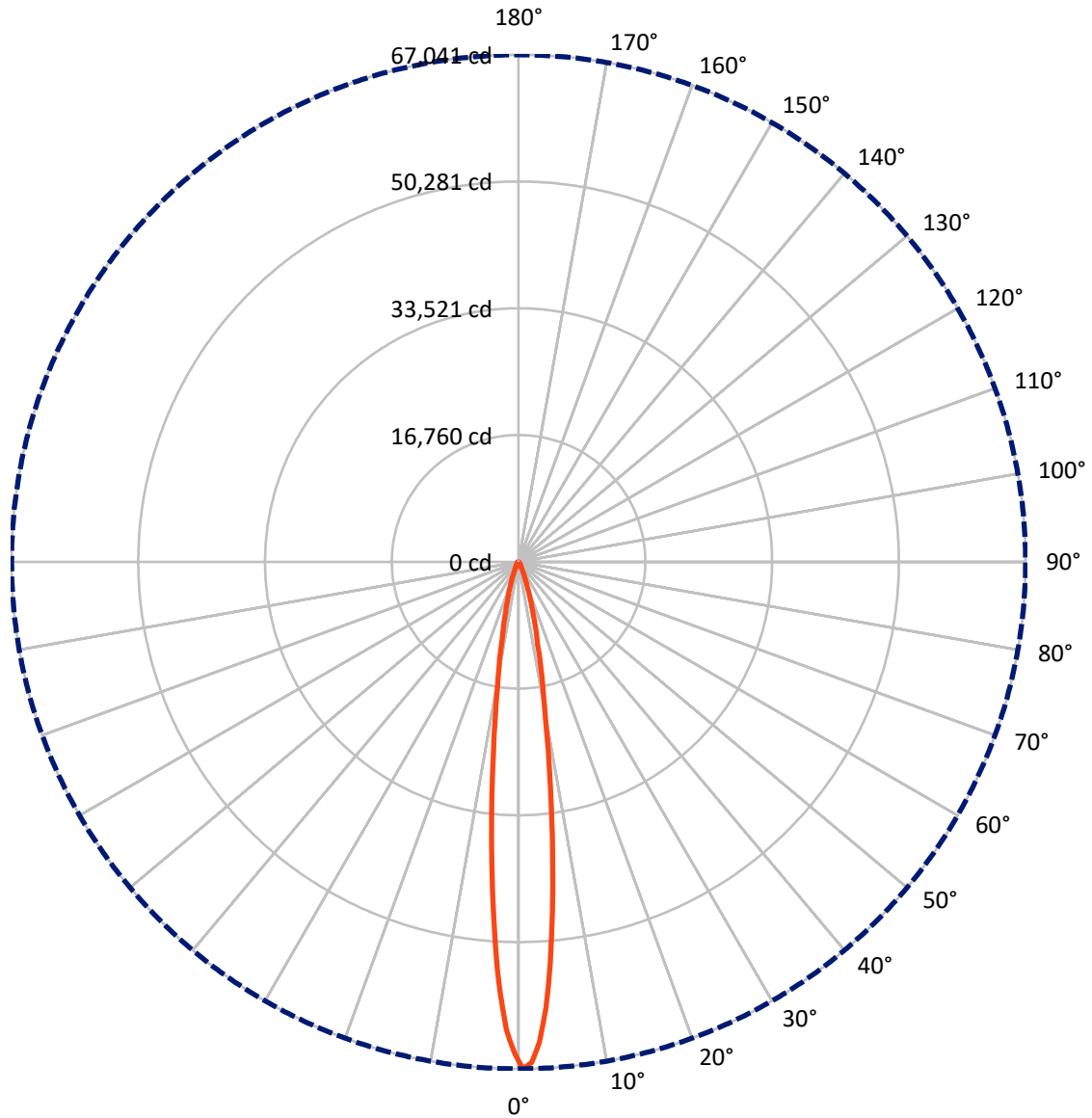
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 167.6 fc
 Type V - Short - N/A

REPORT NUMBER: P637201
CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637201
 CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3456.8	0.0	3456.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	3292.4	0.0	3292.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	6749.1	0.0	6749.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3407.2	50.5
10°-20°	2181.3	32.3
20°-30°	655.6	9.7
30°-40°	213.5	3.2
40°-50°	124.2	1.8
50°-60°	82.5	1.2
60°-70°	49.7	0.7
70°-80°	25.5	0.4
80°-90°	9.7	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°	6749.1	100.0
0°-180°	6749.1	100.0

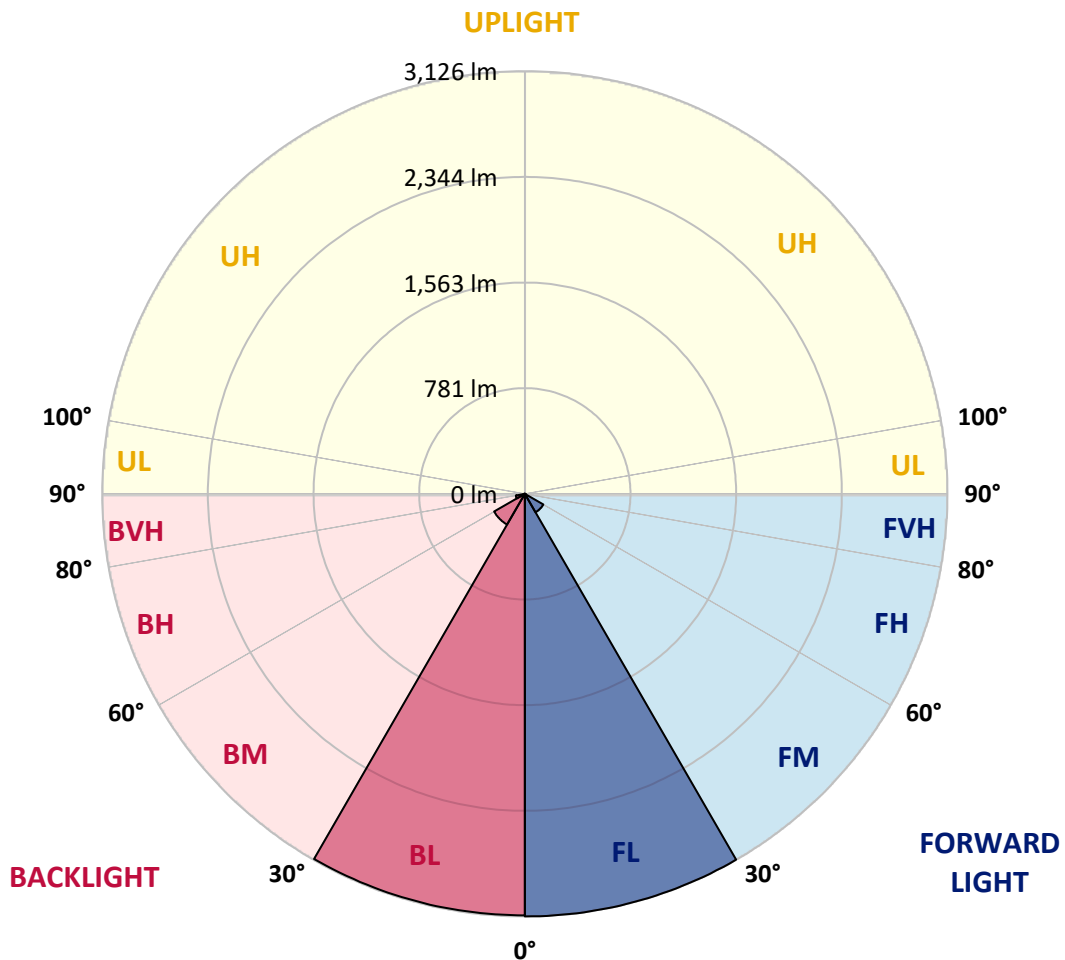


REPORT NUMBER: P637201
 CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3125.7	46.3			
FM (30°-60°)	157.7	2.3			
FH (60°-80°)	7.4	0.1			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	3118.3	46.2	B4/5000		
BM (30°-60°)	262.5	3.9	B1/1000		
BH (60°-80°)	67.8	1.0	B0/110		G0/660
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





REPORT NUMBER: P637201
 CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0
1°	66238.3	66036.1	65514.2	65885.4	66211.8	66117.0	66110.4	66075.1	66025.8	66412.5
2°	63590.5	63459.6	62687.8	63006.1	63469.9	63131.8	63343.5	63157.5	63161.2	63622.8
3°	59127.0	59198.3	57967.0	58545.5	59190.2	58370.6	58624.9	59102.7	58602.1	58451.5
4°	53325.7	52706.7	52034.1	52622.2	52789.0	52312.0	52781.0	53366.1	52670.7	52701.6
5°	46702.5	46245.3	45449.2	45812.3	45398.5	45549.1	46251.9	46493.0	46007.8	45397.0
6°	39892.6	39567.7	38572.4	39095.8	38948.8	38863.5	39750.8	39015.7	39280.3	38910.5
7°	33182.7	32575.5	32086.7	32588.0	32620.4	32363.8	33515.7	33381.9	32900.4	32788.7
8°	27492.4	26886.7	26472.8	26846.2	27090.3	26687.5	27229.2	27585.0	27208.6	27242.5
9°	22174.0	22067.4	21491.8	21979.9	22245.3	21813.8	22413.6	22542.3	22190.2	22361.5
10°	18206.7	18082.5	17623.1	17820.8	18260.4	17745.8	18321.4	18363.3	18082.5	18162.6
12.5°	11251.3	11201.3	11188.8	11217.5	11211.6	11302.8	11449.8	11282.2	11260.1	10983.0
15°	7272.2	7346.5	7270.0	7417.1	7438.4	7524.4	7434.7	7299.4	7041.4	6913.5
17.5°	4538.4	4633.3	4764.1	4979.5	5194.9	5219.9	5100.8	4942.0	4817.0	4680.3
20°	2611.0	2657.4	2637.5	2895.5	3452.7	3604.1	3450.5	3283.6	3133.0	2994.8
22.5°	1622.3	1605.4	1636.3	1723.1	1904.6	2372.9	2247.2	2080.3	1970.8	1856.8
25°	994.6	1013.0	1001.2	1049.0	1130.6	1329.0	1357.7	1285.7	1229.8	1171.0
27.5°	640.3	640.3	645.4	671.9	727.7	721.1	874.0	818.2	788.0	759.3
30°	444.7	446.2	446.2	461.6	474.1	452.1	491.8	563.8	549.8	527.8
32.5°	330.1	334.5	338.1	346.2	335.9	312.4	322.0	405.8	397.7	389.6
35°	251.4	255.1	263.9	268.3	253.6	238.9	230.1	298.4	302.1	299.9
37.5°	183.0	185.2	201.4	218.3	201.4	188.2	183.0	229.3	247.0	244.8
40°	140.4	141.1	144.1	163.2	163.2	152.9	154.4	171.3	202.1	202.1
42.5°	120.6	120.6	123.5	120.6	121.3	132.3	136.0	138.2	171.3	171.3
45°	104.4	104.4	105.9	98.5	91.2	113.9	116.9	117.6	144.1	147.8
47.5°	87.5	87.5	90.4	80.9	77.2	90.4	98.5	100.7	124.2	127.2
50°	64.7	65.4	74.2	66.2	68.4	69.8	85.3	86.7	105.1	111.7
52.5°	43.4	43.4	44.8	51.5	59.5	57.3	69.1	74.2	83.8	92.6
55°	35.3	35.3	34.5	33.1	44.1	47.8	50.7	61.7	68.4	79.4
57.5°	24.3	25.7	23.5	27.2	28.7	36.0	38.2	48.5	52.2	66.9
60°	2.9	3.7	5.1	19.8	19.1	24.3	28.7	38.2	42.6	51.5
62.5°	0.7	0.7	1.5	3.7	13.2	16.2	22.8	26.5	30.9	39.7
65°	0.0	0.0	0.7	1.5	2.9	8.8	11.8	15.4	22.1	27.9
67.5°	0.0	0.0	0.7	1.5	1.5	3.7	5.9	9.6	11.8	20.6
70°	0.0	0.0	0.7	1.5	1.5	2.9	3.7	4.4	8.1	11.0
72.5°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	3.7	3.7	7.4
75°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	3.7	2.9	2.9
77.5°	0.0	0.0	0.7	1.5	2.9	3.7	4.4	3.7	2.2	2.2
80°	0.0	0.0	0.7	2.2	3.7	5.1	5.9	4.4	2.2	1.5
82.5°	0.0	0.0	1.5	2.9	4.4	5.9	8.1	6.6	2.9	1.5
85°	0.0	0.0	0.7	2.2	4.4	5.9	11.8	8.1	3.7	0.7
87.5°	0.0	0.0	0.0	0.7	0.7	1.5	4.4	2.9	1.5	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637201

CATALOG NUMBER: IFLD-S-SA2A-827-U-33-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
67041.0	0°	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0	67041.0
65966.3	1°	66427.2	66473.5	66322.1	66556.6	66474.2	65992.0	65832.5	65643.6	65371.6
63351.6	2°	63157.5	63393.5	63405.2	63665.4	63661.8	63099.4	62925.2	63246.4	62619.4
58757.2	3°	58579.4	58854.3	58606.6	59068.9	58930.0	58247.8	58070.7	58435.3	57979.5
52945.6	4°	52787.6	52735.4	52650.1	52387.0	52711.1	52245.8	51895.2	52389.9	51415.2
46207.0	5°	46114.4	45998.3	45832.2	45754.2	45995.3	45697.6	44976.5	45699.1	43960.6
39579.5	6°	39628.0	39128.1	39103.9	39060.5	39084.8	38251.2	38301.2	38839.2	37392.6
32404.3	7°	32746.8	32838.7	32651.2	32951.9	32722.6	32158.0	31940.4	32507.2	31484.7
27390.9	8°	27199.8	27083.7	26940.3	27389.5	26991.8	26621.3	26367.7	26815.4	26056.0
22389.4	9°	22347.5	22146.8	22001.3	21978.5	22040.2	21344.8	21486.0	21824.8	21367.6
18206.7	10°	18213.3	17884.0	17964.1	17985.5	17917.8	17462.1	17466.5	17583.4	17033.5
11166.8	12.5°	11127.1	10965.3	11005.8	11027.8	11165.3	11005.0	10778.6	10615.4	10533.1
7040.7	15°	6993.7	6877.5	7114.9	7274.5	7242.1	7099.5	6992.9	6845.2	6726.1
4680.3	17.5°	4637.0	4789.1	4789.8	4935.4	4950.1	4807.5	4725.2	4592.1	4598.0
3044.0	20°	3033.0	3096.2	3227.8	3330.7	3390.2	3281.4	3182.9	3091.8	3053.6
1898.0	22.5°	1898.0	2008.3	2090.6	2224.4	2278.8	2199.4	2129.6	2055.3	2009.7
1185.0	25°	1165.1	1243.8	1312.1	1428.3	1502.5	1464.3	1400.3	1348.2	1323.9
765.2	27.5°	777.0	810.1	843.9	924.0	1001.2	979.9	954.1	922.5	911.5
539.6	30°	547.6	550.6	586.6	631.4	682.9	696.1	684.4	668.2	655.7
396.2	32.5°	403.6	415.3	432.2	460.2	494.7	526.3	520.4	513.1	507.2
302.9	35°	311.7	329.3	343.3	364.6	383.0	413.1	418.3	416.1	411.7
249.2	37.5°	254.3	269.8	283.7	296.2	311.7	332.3	348.4	349.2	344.8
205.8	40°	211.0	224.9	243.3	252.9	263.9	279.3	299.2	300.7	299.2
174.2	42.5°	177.9	191.1	209.5	221.3	229.3	244.1	263.9	266.8	263.9
149.2	45°	152.9	161.0	180.1	194.1	202.1	211.7	233.0	236.0	235.2
128.6	47.5°	133.1	141.1	152.9	172.7	180.1	188.9	205.8	211.0	211.0
113.9	50°	116.9	125.0	135.3	152.9	163.9	171.3	185.2	192.6	192.6
99.2	52.5°	103.6	111.7	122.8	136.7	149.2	155.8	169.1	178.6	178.6
80.9	55°	86.7	100.7	108.8	121.3	138.2	144.1	154.4	166.9	166.9
70.6	57.5°	75.7	87.5	99.2	109.5	126.4	133.8	144.1	155.8	157.3
55.9	60°	64.0	75.0	88.9	97.8	113.9	123.5	134.5	145.5	148.5
42.6	62.5°	50.7	65.4	75.0	87.5	102.9	115.4	124.2	135.3	139.7
33.1	65°	37.5	53.7	64.7	77.9	92.6	105.9	113.2	125.0	127.9
23.5	67.5°	27.2	41.9	55.1	67.6	81.6	94.8	102.2	112.5	114.7
14.7	70°	21.3	30.9	45.6	56.6	71.3	82.3	90.4	97.0	99.2
9.6	72.5°	12.5	23.5	36.8	49.3	62.5	69.8	75.7	81.6	83.1
4.4	75°	8.1	18.4	30.1	41.2	50.7	57.3	62.5	67.6	68.4
2.2	77.5°	5.1	13.2	24.3	34.5	39.0	47.0	51.5	54.4	52.9
1.5	80°	2.9	10.3	21.3	27.9	31.6	36.8	41.2	44.8	41.2
1.5	82.5°	2.2	8.8	17.6	23.5	23.5	29.4	31.6	31.6	30.1
0.7	85°	1.5	7.4	14.0	22.1	17.6	22.1	20.6	20.6	20.6
0.7	87.5°	1.5	5.1	6.6	9.6	8.1	9.6	9.6	11.0	11.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
67041.0
64895.3
61885.8
56815.9
50599.2
43795.2
37279.4
30965.7
25537.0
20766.3
16788.0
10516.2
6769.4
4559.0
3060.2
2015.6
1318.0
904.2
657.2
507.2
408.7
344.0
298.4
264.6
235.2
211.7
193.3
178.6
167.6
156.6
148.5
140.4
127.2
113.2
99.2
83.1
67.6
52.9
40.4
29.4
19.8
11.0
0.0

(END OF REPORT)