

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: P637031

Luminaire Tested: **IFLD-S-SA2E-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637031
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15053 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

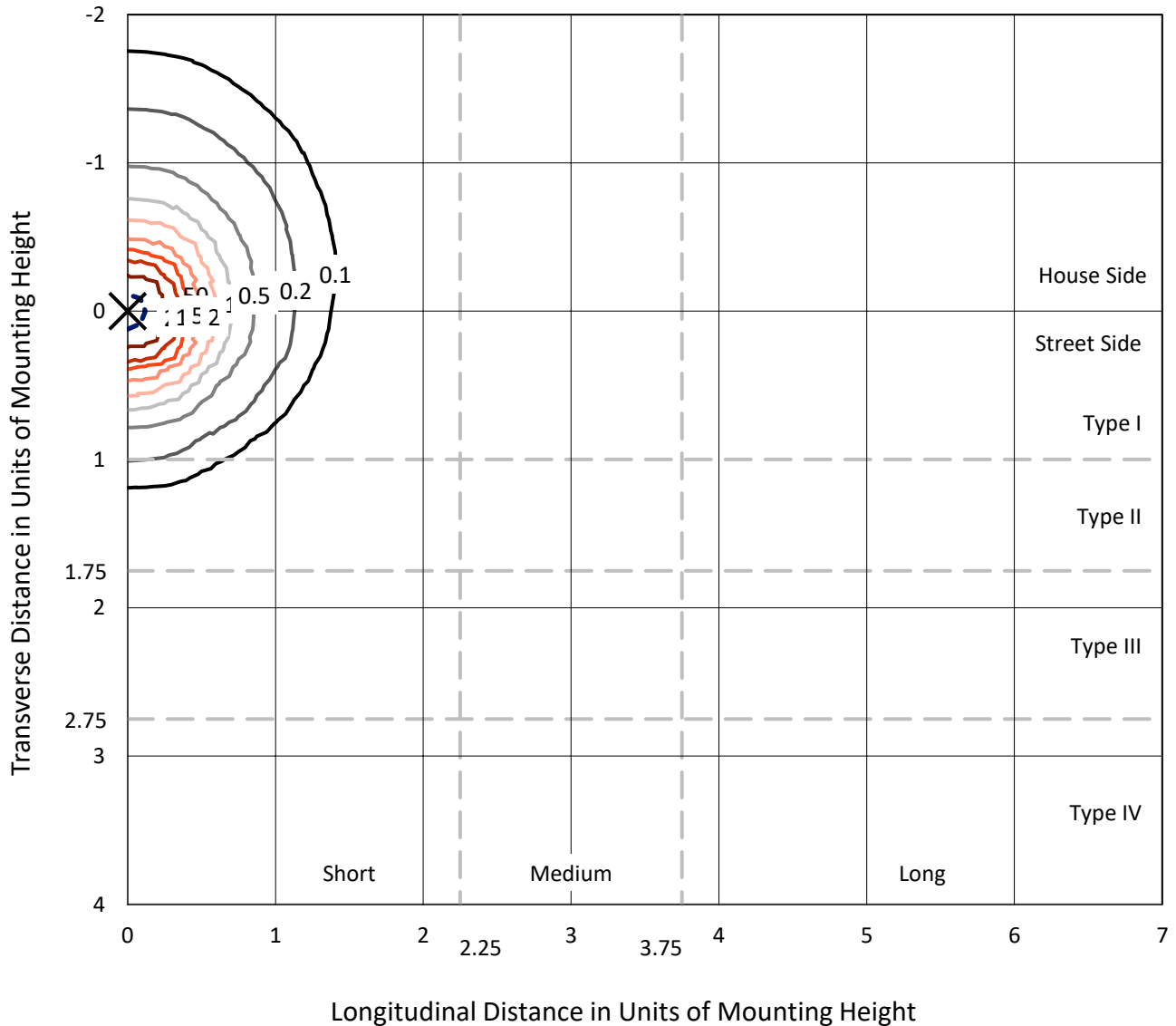
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

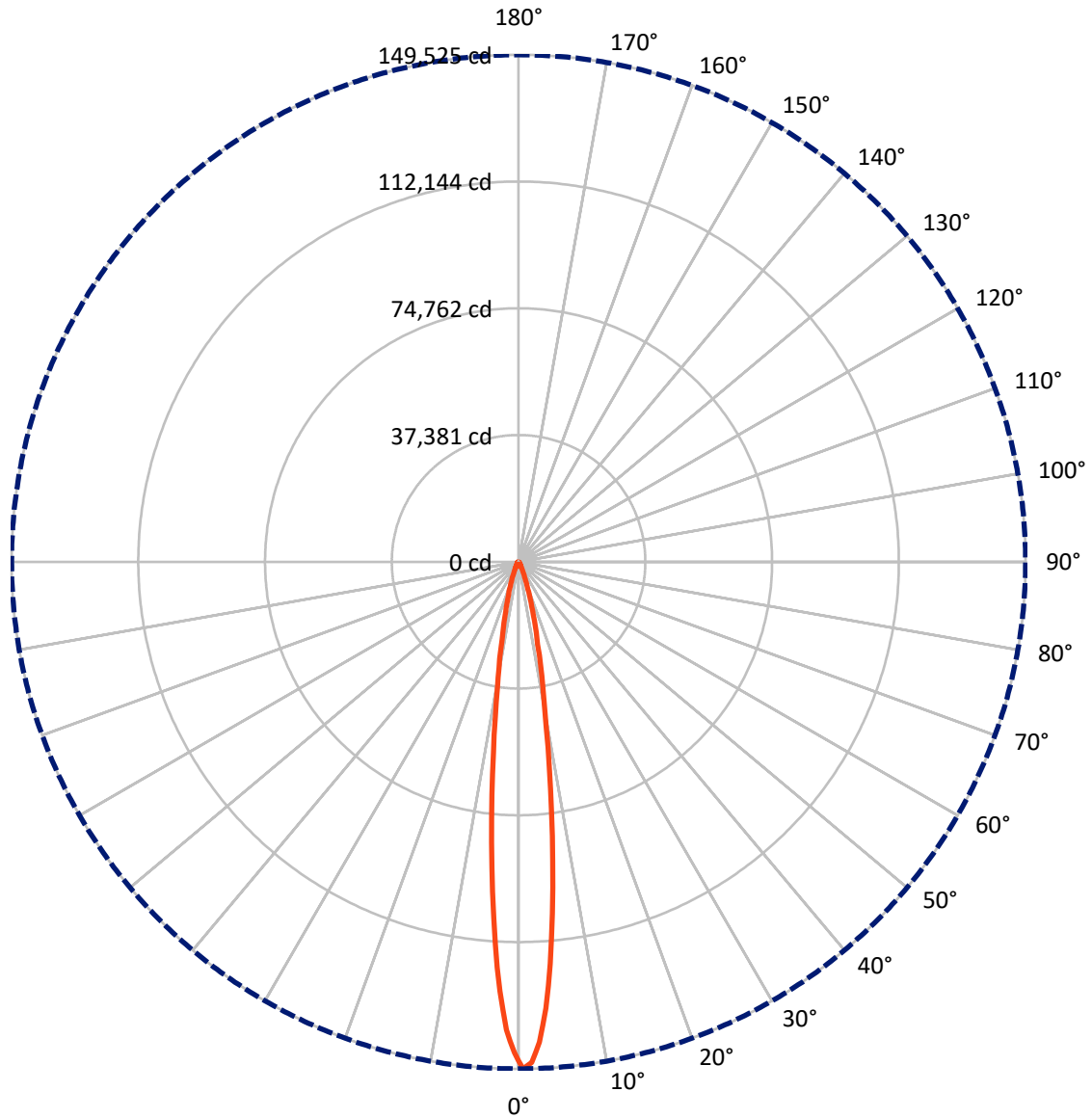
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 373.8 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2E-727-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	7709.9	0.0	7709.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	7343.1	0.0	7343.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	15053.0	0.0	15053.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7599.2	50.5
10°-20°	4865.0	32.3
20°-30°	1462.3	9.7
30°-40°	476.1	3.2
40°-50°	277.0	1.8
50°-60°	184.0	1.2
60°-70°	110.8	0.7
70°-80°	56.9	0.4
80°-90°	21.6	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°	15053.0	100.0
0°-180°	15053.0	100.0

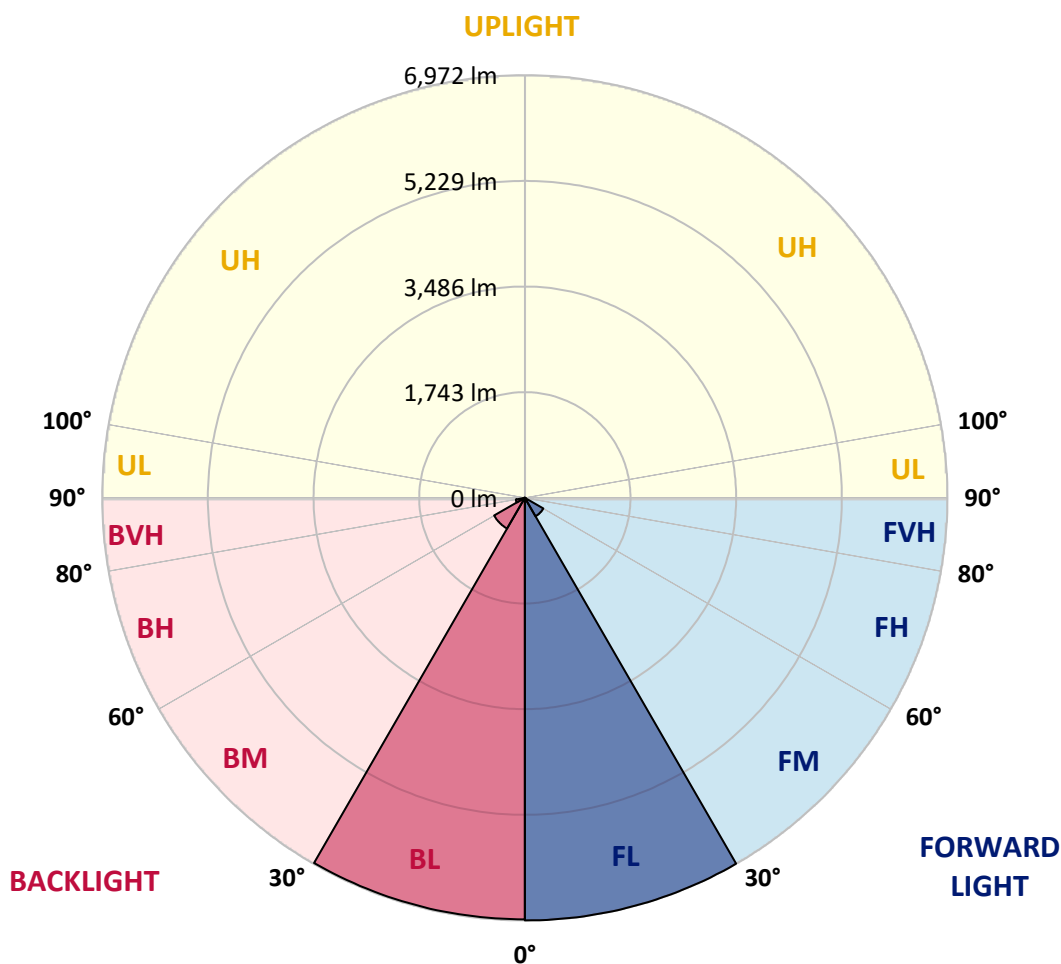


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6971.5	46.3			
FM (30°-60°)	351.8	2.3			
FH (60°-80°)	16.6	0.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	6955.0	46.2	B5		
BM (30°-60°)	585.4	3.9	B1/1000		
BH (60°-80°)	151.1	1.0	B1/500		G0/660
BVH (80°-90°)	18.4	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°	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8
1°	147734.5	147283.6	146119.6	146947.5	147675.5	147464.0	147449.2	147370.5	147260.7	148123.0
2°	141829.0	141537.1	139815.7	140525.6	141560.1	140805.9	141278.1	140863.3	140871.5	141901.1
3°	131873.9	132032.9	129286.7	130577.0	132014.9	130186.8	130754.1	131819.8	130703.3	130367.2
4°	118934.9	117554.4	116054.3	117365.9	117738.0	116674.0	117720.0	119025.0	117474.1	117542.9
5°	104162.9	103143.1	101367.5	102177.5	101254.4	101590.5	103157.9	103695.6	102613.6	101251.1
6°	88974.5	88249.8	86029.9	87197.3	86869.4	86679.2	88658.1	87018.6	87608.8	86784.1
7°	74009.1	72654.8	71564.6	72682.7	72754.8	72182.6	74751.8	74453.4	73379.5	73130.3
8°	61317.6	59966.7	59043.6	59876.5	60420.8	59522.4	60730.7	61524.2	60684.8	60760.2
9°	49455.8	49218.1	47934.3	49022.9	49614.8	48652.4	49990.3	50277.2	49491.8	49873.9
10°	40607.4	40330.3	39305.6	39746.6	40727.0	39579.4	40863.1	40956.6	40330.3	40509.0
12.5°	25094.3	24982.8	24955.0	25018.9	25005.8	25209.1	25537.0	25163.2	25114.0	24495.9
15°	16219.7	16385.2	16214.7	16542.6	16590.2	16782.0	16582.0	16280.3	15704.9	15419.6
17.5°	10122.3	10333.8	10625.7	11106.0	11586.4	11642.2	11376.6	11022.4	10743.7	10438.8
20°	5823.5	5926.8	5882.6	6458.0	7700.8	8038.5	7695.9	7323.7	6987.6	6679.4
22.5°	3618.4	3580.7	3649.5	3843.0	4248.0	5292.3	5012.0	4639.8	4395.5	4141.4
25°	2218.3	2259.2	2233.0	2339.6	2521.6	2964.2	3028.2	2867.5	2742.9	2611.7
27.5°	1428.0	1428.0	1439.5	1498.5	1623.1	1608.4	1949.4	1824.8	1757.6	1693.6
30°	991.9	995.2	995.2	1029.6	1057.5	1008.3	1096.8	1257.5	1226.4	1177.2
32.5°	736.1	746.0	754.2	772.2	749.3	696.8	718.1	905.0	887.0	868.9
35°	560.7	568.9	588.6	598.4	565.6	532.8	513.2	665.6	673.8	668.9
37.5°	408.2	413.2	449.2	486.9	449.2	419.7	408.2	511.5	550.9	546.0
40°	313.1	314.8	321.3	364.0	364.0	341.0	344.3	382.0	450.9	450.9
42.5°	268.9	268.9	275.4	268.9	270.5	295.1	303.3	308.2	382.0	382.0
45°	232.8	232.8	236.1	219.7	203.3	254.1	260.7	262.3	321.3	329.5
47.5°	195.1	195.1	201.7	180.3	172.1	201.7	219.7	224.6	277.1	283.6
50°	144.3	145.9	165.6	147.6	152.5	155.8	190.2	193.5	234.4	249.2
52.5°	96.7	96.7	100.0	114.8	132.8	127.9	154.1	165.6	186.9	206.6
55°	78.7	78.7	77.1	73.8	98.4	106.6	113.1	137.7	152.5	177.1
57.5°	54.1	57.4	52.5	60.7	63.9	80.3	85.3	108.2	116.4	149.2
60°	6.6	8.2	11.5	44.3	42.6	54.1	63.9	85.3	95.1	114.8
62.5°	1.6	1.6	3.3	8.2	29.5	36.1	50.8	59.0	68.9	88.5
65°	0.0	0.0	1.6	3.3	6.6	19.7	26.2	34.4	49.2	62.3
67.5°	0.0	0.0	1.6	3.3	3.3	8.2	13.1	21.3	26.2	45.9
70°	0.0	0.0	1.6	3.3	3.3	6.6	8.2	9.8	18.0	24.6
72.5°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	8.2	8.2	16.4
75°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	8.2	6.6	6.6
77.5°	0.0	0.0	1.6	3.3	6.6	8.2	9.8	8.2	4.9	4.9
80°	0.0	0.0	1.6	4.9	8.2	11.5	13.1	9.8	4.9	3.3
82.5°	0.0	0.0	3.3	6.6	9.8	13.1	18.0	14.8	6.6	3.3
85°	0.0	0.0	1.6	4.9	9.8	13.1	26.2	18.0	8.2	1.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.3	9.8	6.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637031
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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
149524.8	0°	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8	149524.8
147127.9	1°	148155.8	148259.1	147921.4	148444.4	148260.8	147185.3	146829.5	146408.1
141296.1	2°	140863.3	141389.6	141415.8	141996.2	141988.0	140733.8	140345.2	141061.7
131049.2	3°	130652.4	131265.6	130713.1	131744.4	131434.5	129913.0	129517.9	130331.1
118087.3	4°	117734.8	117618.4	117428.2	116841.2	117564.2	116526.4	115744.4	116847.8
103057.9	5°	102851.3	102592.3	102221.7	102047.9	102585.7	101921.7	100313.3	101925.0
88276.1	6°	88384.3	87269.4	87215.3	87118.6	87172.7	85313.5	85425.0	86625.1
72272.8	7°	73036.8	73241.8	72823.7	73494.3	72982.7	71723.6	71238.3	72502.4
61091.4	8°	60665.1	60406.1	60086.4	61088.1	60201.1	59374.8	58809.2	59807.6
49936.2	9°	49842.7	49395.1	49070.5	49019.7	49157.4	47606.4	47921.2	48677.0
40607.4	10°	40622.1	39887.6	40066.3	40113.9	39963.0	38946.5	38956.4	39217.0
24905.8	12.5°	24817.2	24456.6	24546.7	24595.9	24902.5	24545.1	24040.1	23676.1
15703.2	15°	15598.3	15339.2	15868.8	16224.6	16152.4	15834.4	15596.6	15267.1
10438.8	17.5°	10342.0	10681.4	10683.0	11007.7	11040.5	10722.4	10538.8	10242.0
6789.2	20°	6764.6	6905.6	7199.1	7428.6	7561.4	7318.8	7099.1	6895.8
4233.2	22.5°	4233.2	4479.1	4662.8	4961.2	5082.5	4905.4	4749.7	4584.1
2642.9	25°	2598.6	2774.0	2926.5	3185.6	3351.2	3265.9	3123.3	3006.9
1706.7	27.5°	1733.0	1806.7	1882.2	2060.9	2233.0	2185.5	2128.1	2057.6
1203.4	30°	1221.4	1228.0	1308.3	1408.3	1523.1	1552.6	1526.4	1490.3
883.7	32.5°	900.1	926.3	964.0	1026.3	1103.4	1173.9	1160.8	1144.4
675.5	35°	695.2	734.5	765.7	813.2	854.2	921.4	932.9	928.0
555.8	37.5°	567.3	601.7	632.9	660.7	695.2	741.1	777.1	778.8
459.1	40°	470.5	501.7	542.7	564.0	588.6	623.0	667.3	670.6
388.6	42.5°	396.8	426.3	467.3	493.5	511.5	544.3	588.6	595.1
332.8	45°	341.0	359.1	401.7	432.8	450.9	472.2	519.7	526.3
286.9	47.5°	296.8	314.8	341.0	385.3	401.7	421.4	459.1	470.5
254.1	50°	260.7	278.7	301.7	341.0	365.6	382.0	413.2	429.6
221.3	52.5°	231.2	249.2	273.8	304.9	332.8	347.6	377.1	398.4
180.3	55°	193.5	224.6	242.6	270.5	308.2	321.3	344.3	372.2
157.4	57.5°	168.9	195.1	221.3	244.3	282.0	298.4	321.3	347.6
124.6	60°	142.6	167.2	198.4	218.1	254.1	275.4	300.0	324.6
95.1	62.5°	113.1	145.9	167.2	195.1	229.5	257.4	277.1	301.7
73.8	65°	83.6	119.7	144.3	173.8	206.6	236.1	252.5	278.7
52.5	67.5°	60.7	93.5	123.0	150.8	182.0	211.5	227.9	250.8
32.8	70°	47.5	68.9	101.6	126.2	159.0	183.6	201.7	216.4
21.3	72.5°	27.9	52.5	82.0	109.8	139.4	155.8	168.9	182.0
9.8	75°	18.0	41.0	67.2	91.8	113.1	127.9	139.4	150.8
4.9	77.5°	11.5	29.5	54.1	77.1	86.9	104.9	114.8	121.3
3.3	80°	6.6	23.0	47.5	62.3	70.5	82.0	91.8	100.0
3.3	82.5°	4.9	19.7	39.3	52.5	52.5	65.6	70.5	70.5
1.6	85°	3.3	16.4	31.2	49.2	39.3	49.2	45.9	45.9
1.6	87.5°	3.3	11.5	14.8	21.3	18.0	21.3	21.3	24.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
149524.8
144739.1
138027.0
126719.3
112853.9
97678.6
83146.0
69064.3
56956.5
46316.1
37443.1
23454.8
15098.2
10168.2
6825.3
4495.5
2939.6
2016.6
1465.7
1131.3
911.6
767.3
665.6
590.2
524.6
472.2
431.2
398.4
373.8
349.2
331.2
313.1
283.6
252.5
221.3
185.3
150.8
118.0
90.2
65.6
44.3
24.6
0.0

(END OF REPORT)