

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: P637725

Luminaire Tested: **IFLD-S-SA2C-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9814.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 108.2
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



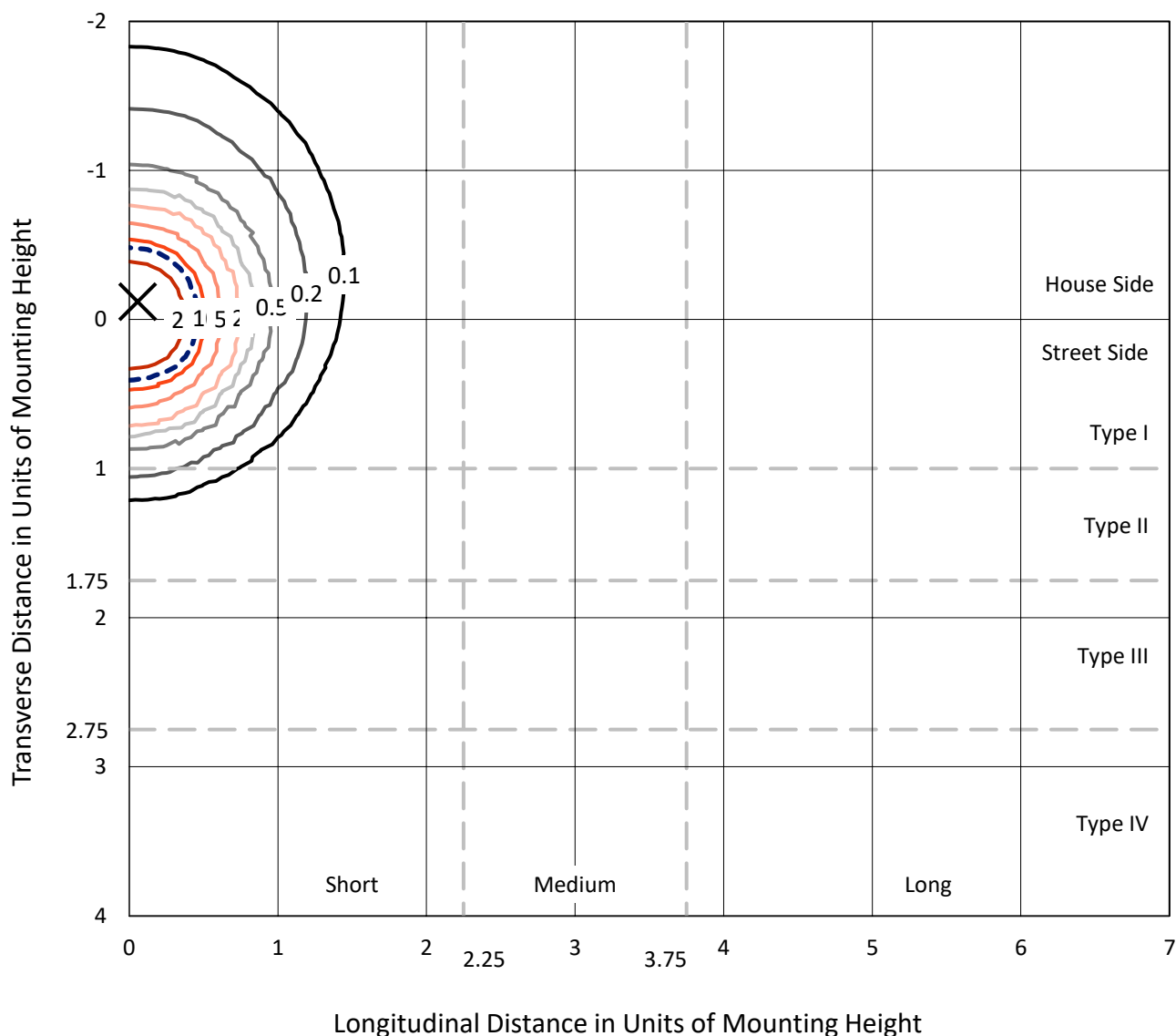
REPORT NUMBER: P637725

CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



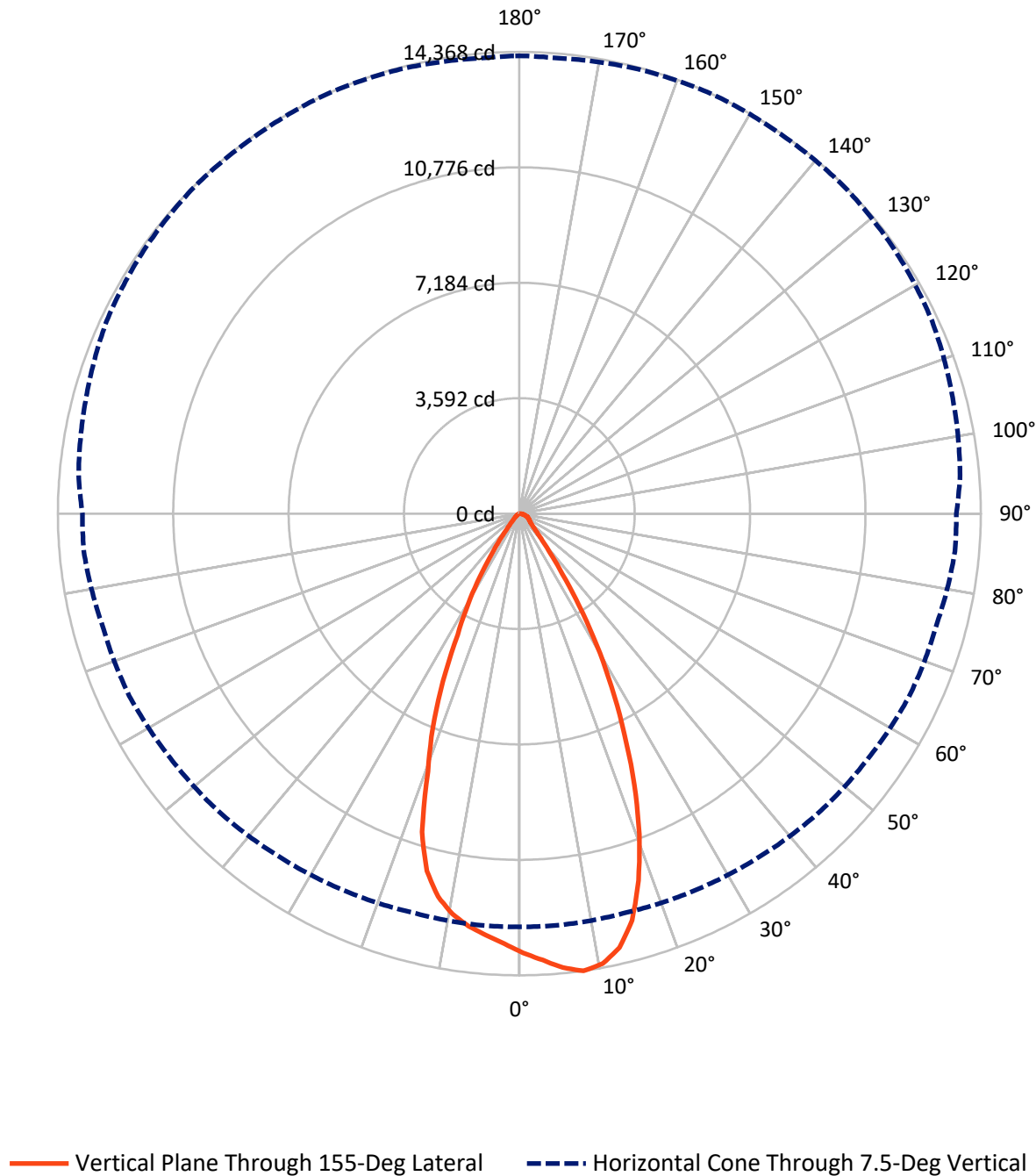
Based on 20 foot mounting height. Maximum calculated value = 34.7 fc

Type I - Short - N/A

REPORT NUMBER: P637725

CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637725

CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5418.0	0.0	5418.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4396.5	0.0	4396.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	9814.5	0.0	9814.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1303.7	13.3
10°-20°	3380.6	34.4
20°-30°	3097.6	31.6
30°-40°	1251.4	12.8
40°-50°	367.1	3.7
50°-60°	205.3	2.1
60°-70°	124.7	1.3
70°-80°	63.3	0.6
80°-90°	20.7	0.2
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°	9814.5	100.0
0°-180°	9814.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637725

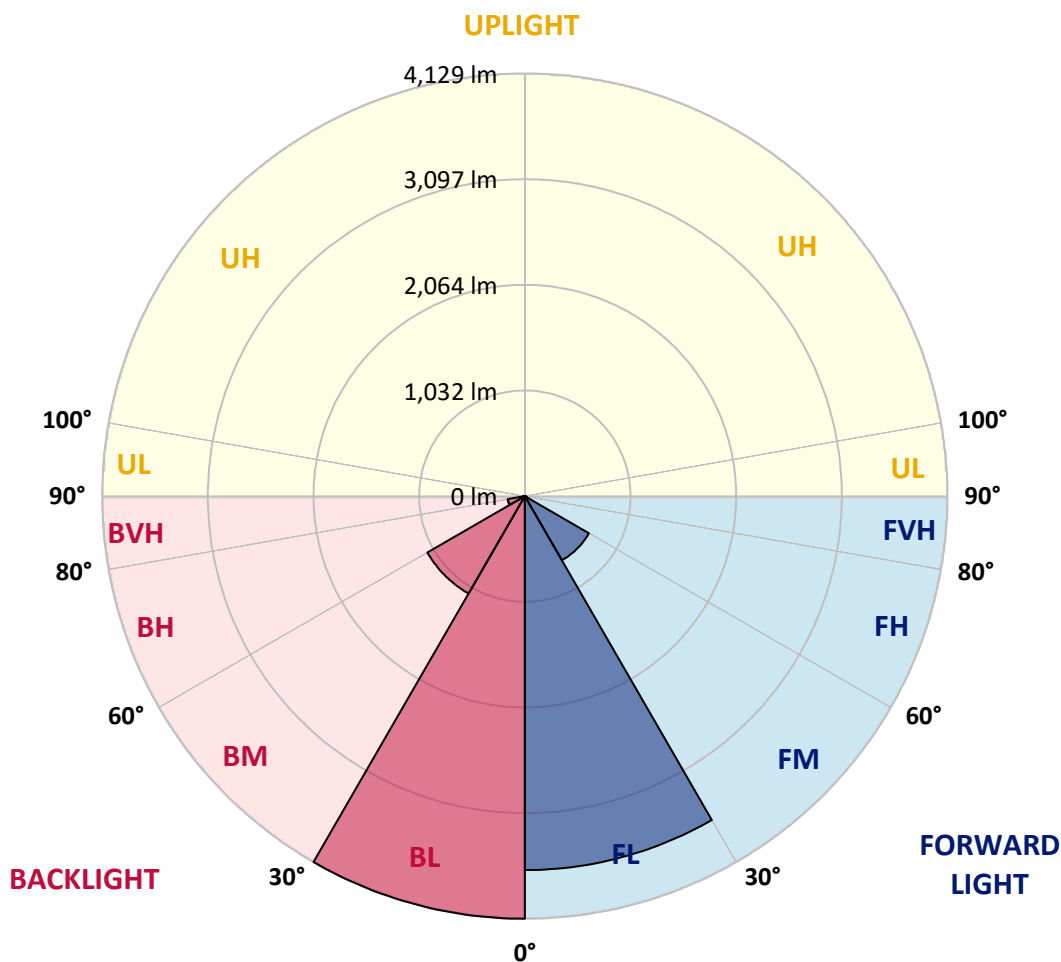
CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3653.2	37.2			
FM	(30°-60°)	724.0	7.4			
FH	(60°-80°)	17.5	0.2			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	4128.8	42.1	B4/5000		
BM	(30°-60°)	1099.8	11.2	B2/2500		
BH	(60°-80°)	170.5	1.7	B1/500		G1/500
BVH	(80°-90°)	18.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



REPORT NUMBER: P637725

CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4
2.5°	13375.8	13421.1	13330.6	13390.6	13437.0	13547.9	13556.9	13595.4	13609.0	13709.7
5°	13122.3	13157.4	13083.9	13164.2	13229.8	13328.3	13404.1	13510.5	13569.4	13688.2
7.5°	12858.6	12866.6	12851.9	12936.7	13035.2	13171.0	13264.9	13404.1	13440.3	13610.1
10°	12539.5	12481.8	12510.1	12634.6	12781.7	12989.9	13054.4	13193.6	13258.1	13431.3
12.5°	12030.2	12059.6	12024.6	12183.0	12305.2	12541.8	12609.7	12750.0	12873.4	13026.1
15°	11312.7	11295.7	11367.0	11490.4	11622.8	11810.7	11920.4	12073.2	12167.2	12325.6
17.5°	9700.0	9757.7	10052.0	10360.9	10632.5	10852.1	10983.4	11110.1	11178.0	11350.1
20°	8377.0	8304.6	8344.2	8518.5	9291.4	9627.6	9765.6	9796.2	9824.5	9960.3
22.5°	6897.9	6874.1	7006.5	7202.3	7385.6	8160.9	8348.7	8277.4	8336.3	8464.2
25°	5122.2	5242.1	5359.8	5735.6	5973.2	6353.5	6710.0	6741.7	6763.2	6843.5
27.5°	4169.3	4127.4	4125.1	4230.4	4581.2	4898.1	5201.4	5271.6	5259.1	5336.1
30°	3277.5	3263.9	3216.4	3241.3	3206.2	3488.0	3630.6	3919.2	3903.3	3905.6
32.5°	2364.2	2313.2	2294.0	2331.4	2295.1	2269.1	2393.6	2719.5	2713.9	2736.5
35°	1430.5	1423.7	1439.6	1472.4	1399.9	1397.7	1423.7	1730.4	1767.8	1804.0
37.5°	789.9	783.2	795.6	916.7	892.9	871.4	878.2	1040.1	1147.6	1174.7
40°	520.6	519.5	528.5	550.0	590.8	582.8	586.2	658.7	760.5	784.3
42.5°	348.6	349.7	355.4	380.3	385.9	426.7	419.9	436.8	531.9	552.3
45°	278.4	277.3	280.7	269.4	276.1	318.0	322.5	323.7	405.2	417.6
47.5°	219.6	219.6	222.9	208.2	204.8	230.9	254.6	258.0	323.7	340.6
50°	153.9	153.9	170.9	164.1	172.0	179.9	206.0	209.4	264.8	282.9
52.5°	113.2	115.4	117.7	118.8	144.9	143.7	166.4	182.2	200.3	232.0
55°	86.0	88.3	82.6	88.3	107.5	120.0	124.5	147.1	159.6	194.7
57.5°	56.6	62.2	57.7	67.9	72.4	92.8	99.6	121.1	129.0	159.6
60°	7.9	9.1	14.7	47.5	50.9	61.1	77.0	96.2	104.1	130.1
62.5°	1.1	1.1	3.4	7.9	34.0	40.7	57.7	66.8	77.0	97.3
65°	0.0	0.0	1.1	2.3	6.8	23.8	29.4	36.2	53.2	70.2
67.5°	0.0	0.0	1.1	2.3	3.4	7.9	12.4	23.8	30.6	48.7
70°	0.0	0.0	1.1	2.3	3.4	4.5	6.8	9.1	18.1	28.3
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	6.8	7.9	18.1
75°	0.0	0.0	1.1	2.3	3.4	5.7	6.8	6.8	6.8	7.9
77.5°	0.0	0.0	1.1	2.3	4.5	6.8	7.9	6.8	5.7	5.7
80°	0.0	0.0	1.1	3.4	5.7	7.9	9.1	6.8	4.5	3.4
82.5°	0.0	0.0	1.1	3.4	5.7	7.9	9.1	7.9	4.5	3.4
85°	0.0	0.0	1.1	3.4	4.5	5.7	9.1	7.9	4.5	2.3
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	4.5	3.4	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637725

CATALOG NUMBER: IFLD-S-SA2C-827-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13672.4	0°	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4	13672.4
13707.4	2.5°	13809.3	13860.2	13949.6	13974.5	14051.5	13963.2	13914.5	13919.1	13813.8
13673.5	5°	13809.3	13925.9	14082.0	14156.7	14213.3	14208.8	14196.3	14164.7	14087.7
13605.6	7.5°	13773.1	13963.2	14178.2	14277.8	14345.7	14340.1	14368.4	14317.4	14223.5
13484.5	10°	13656.5	13821.7	14086.6	14168.0	14277.8	14280.1	14245.0	14255.2	14087.7
13042.0	12.5°	13289.8	13418.8	13650.8	13743.6	13877.2	13898.7	13860.2	13845.5	13687.1
12316.5	15°	12580.2	12654.9	12888.1	12980.9	13113.3	13095.2	13133.7	13117.8	12978.6
11336.5	17.5°	11542.4	11566.2	11810.7	11888.8	12013.2	12061.9	12004.2	12077.8	11957.8
9984.1	20°	10054.2	10182.1	10457.1	10577.1	10649.5	10736.7	10660.8	10743.5	10603.1
8343.1	22.5°	8544.5	8620.3	8869.3	9042.5	9177.1	9194.1	9165.8	9223.5	9034.5
6896.7	25°	6895.6	7021.2	7218.1	7444.5	7576.9	7658.4	7584.8	7622.2	7591.6
5348.5	27.5°	5439.1	5551.1	5699.4	5868.0	6067.2	6173.6	6114.7	6178.1	6028.7
3988.2	30°	3991.6	4048.2	4215.7	4394.5	4612.9	4741.9	4747.6	4812.1	4723.8
2794.2	32.5°	2814.6	2864.4	2967.4	3086.2	3294.4	3438.2	3415.5	3424.6	3370.3
1820.9	35°	1830.0	1896.8	1970.3	2026.9	2152.5	2311.0	2298.5	2287.2	2249.9
1197.4	37.5°	1223.4	1249.4	1290.2	1341.1	1422.6	1522.2	1555.0	1514.2	1498.4
808.1	40°	827.3	872.6	899.7	938.2	976.7	1060.4	1083.1	1075.1	1059.3
565.9	42.5°	587.4	622.4	656.4	693.7	714.1	766.2	810.3	797.9	791.1
430.1	45°	445.9	477.6	517.2	545.5	565.9	596.4	638.3	642.8	632.6
345.2	47.5°	357.6	385.9	417.6	452.7	476.5	495.7	531.9	545.5	538.7
290.9	50°	303.3	324.8	355.4	390.4	416.5	433.5	465.1	479.9	475.3
243.3	52.5°	258.0	284.1	312.4	341.8	373.5	390.4	419.9	441.4	438.0
201.4	55°	213.9	247.8	277.3	306.7	342.9	359.9	385.9	414.2	408.6
170.9	57.5°	186.7	215.0	245.6	273.9	312.4	335.0	358.8	388.2	387.0
140.3	60°	156.2	184.5	218.4	242.2	282.9	314.6	336.1	366.7	368.9
106.4	62.5°	124.5	159.6	185.6	218.4	255.8	293.1	313.5	344.0	355.4
81.5	65°	92.8	131.3	160.7	193.5	228.6	270.5	288.6	319.1	330.5
58.8	67.5°	69.0	98.5	135.8	164.1	203.7	239.9	261.4	289.7	297.6
35.1	70°	52.1	75.8	113.2	138.1	178.8	208.2	229.7	251.2	261.4
23.8	72.5°	30.6	56.6	89.4	118.8	153.9	178.8	194.7	211.6	218.4
11.3	75°	21.5	43.0	70.2	98.5	124.5	144.9	159.6	174.3	181.1
5.7	77.5°	11.3	31.7	55.5	79.2	97.3	114.3	129.0	140.3	144.9
4.5	80°	6.8	22.6	45.3	62.2	74.7	89.4	104.1	112.0	110.9
3.4	82.5°	4.5	18.1	32.8	45.3	54.3	65.6	75.8	81.5	81.5
2.3	85°	3.4	12.4	22.6	35.1	36.2	45.3	47.5	53.2	54.3
2.3	87.5°	2.3	7.9	12.4	20.4	19.2	23.8	24.9	28.3	30.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13672.4
13728.9
14112.6
14245.0
14039.0
13650.8
13022.7
11928.4
10591.8
9008.5
7572.4
6067.2
4739.7
3400.8
2217.0
1495.0
1061.6
785.4
631.5
535.3
474.2
435.7
408.6
385.9
368.9
354.2
329.3
297.6
259.2
216.2
178.8
143.7
109.8
80.4
53.2
29.4
0.0

(END OF REPORT)