

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: P637573

Luminaire Tested: **IFLD-L-SA7E-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637573
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44346.6 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 532.7
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

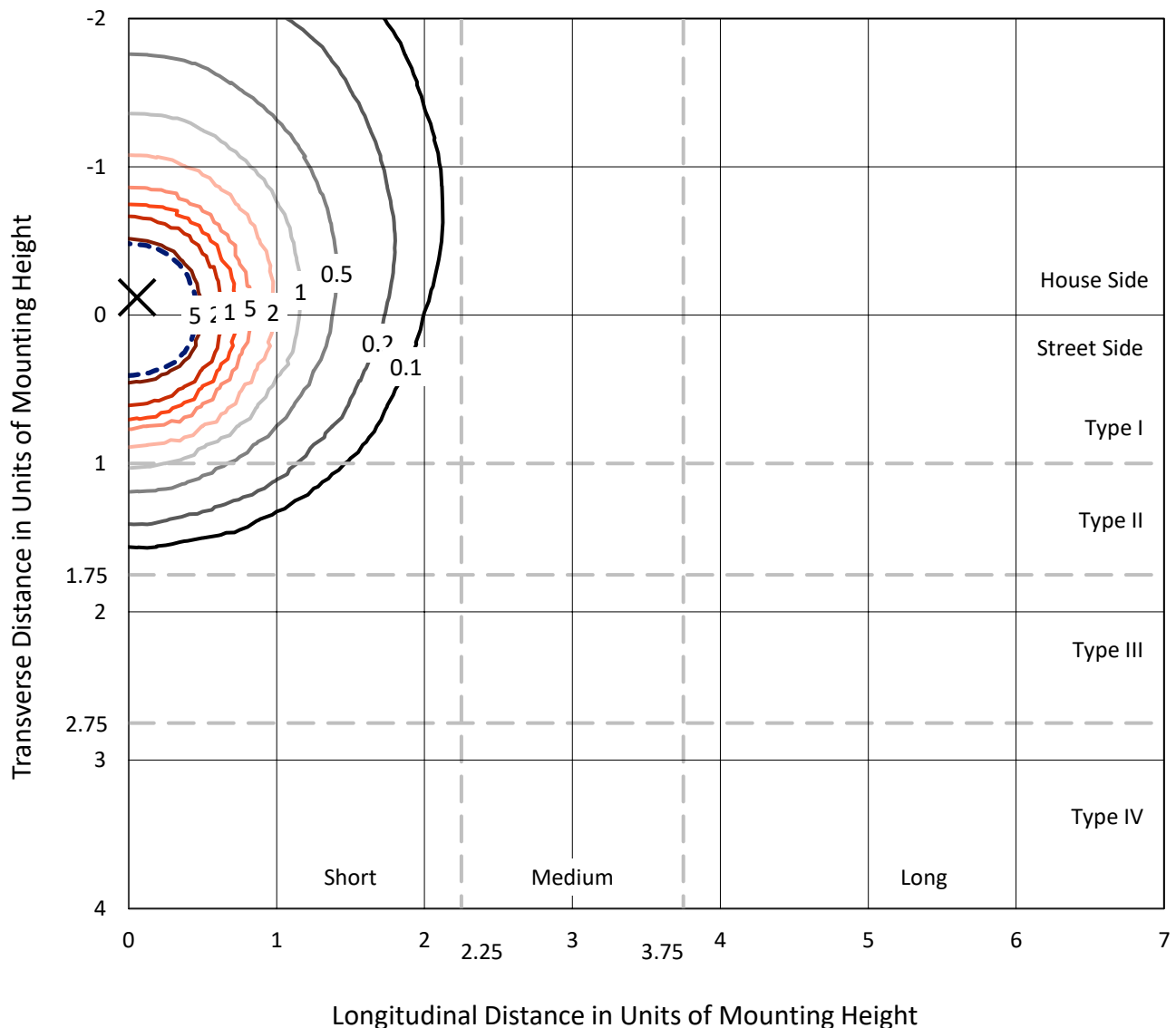


REPORT NUMBER: P637573

CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

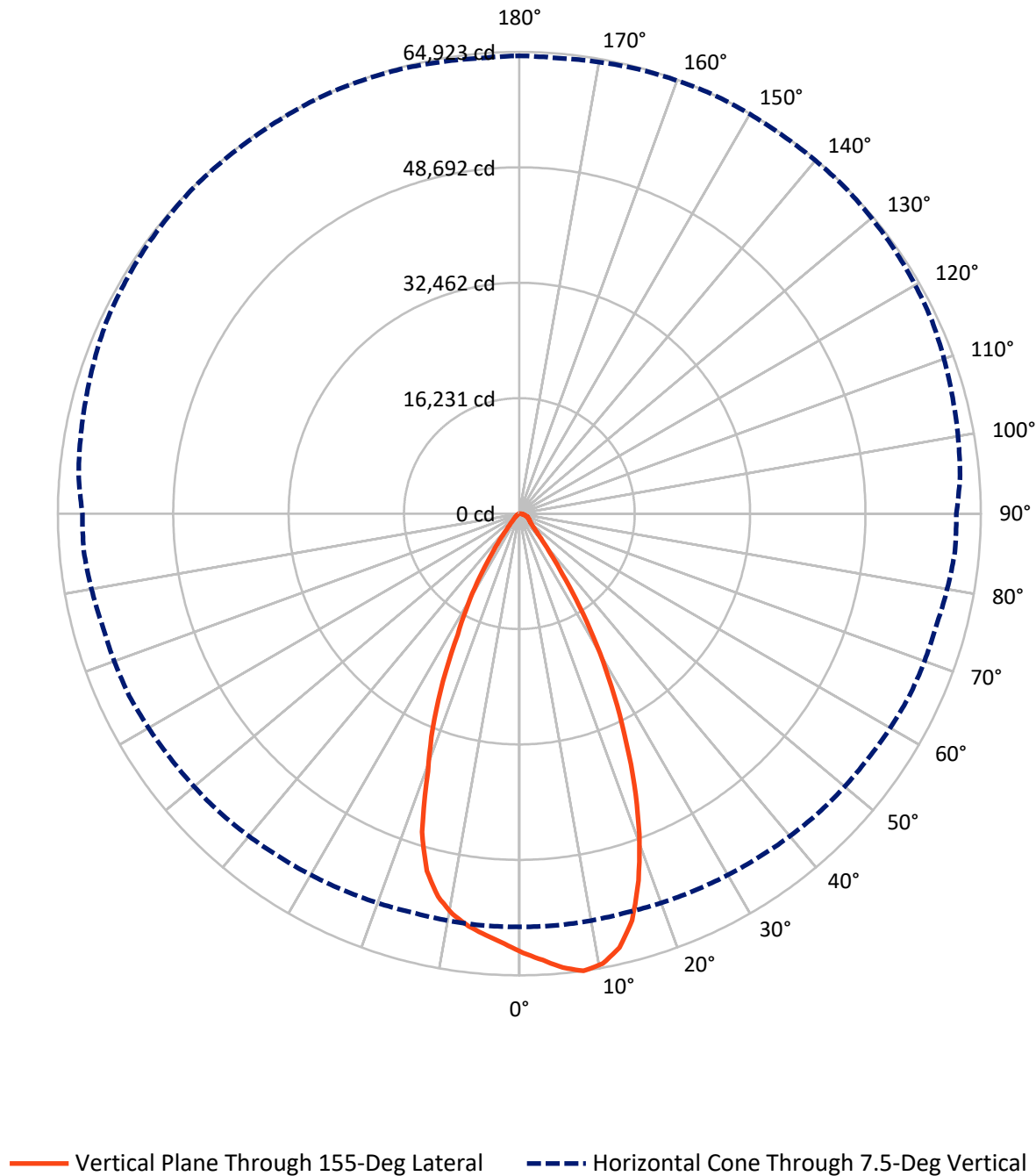
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 157 fc
 Type I - Short - N/A

REPORT NUMBER: P637573
CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637573

CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24481.0	0.0	24481.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	19865.7	0.0	19865.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	44346.6	0.0	44346.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5891.0	13.3
10°-20°	15275.3	34.4
20°-30°	13996.4	31.6
30°-40°	5654.6	12.8
40°-50°	1658.8	3.7
50°-60°	927.5	2.1
60°-70°	563.3	1.3
70°-80°	286.2	0.6
80°-90°	93.6	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°	44346.6	100.0
0°-180°	44346.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637573

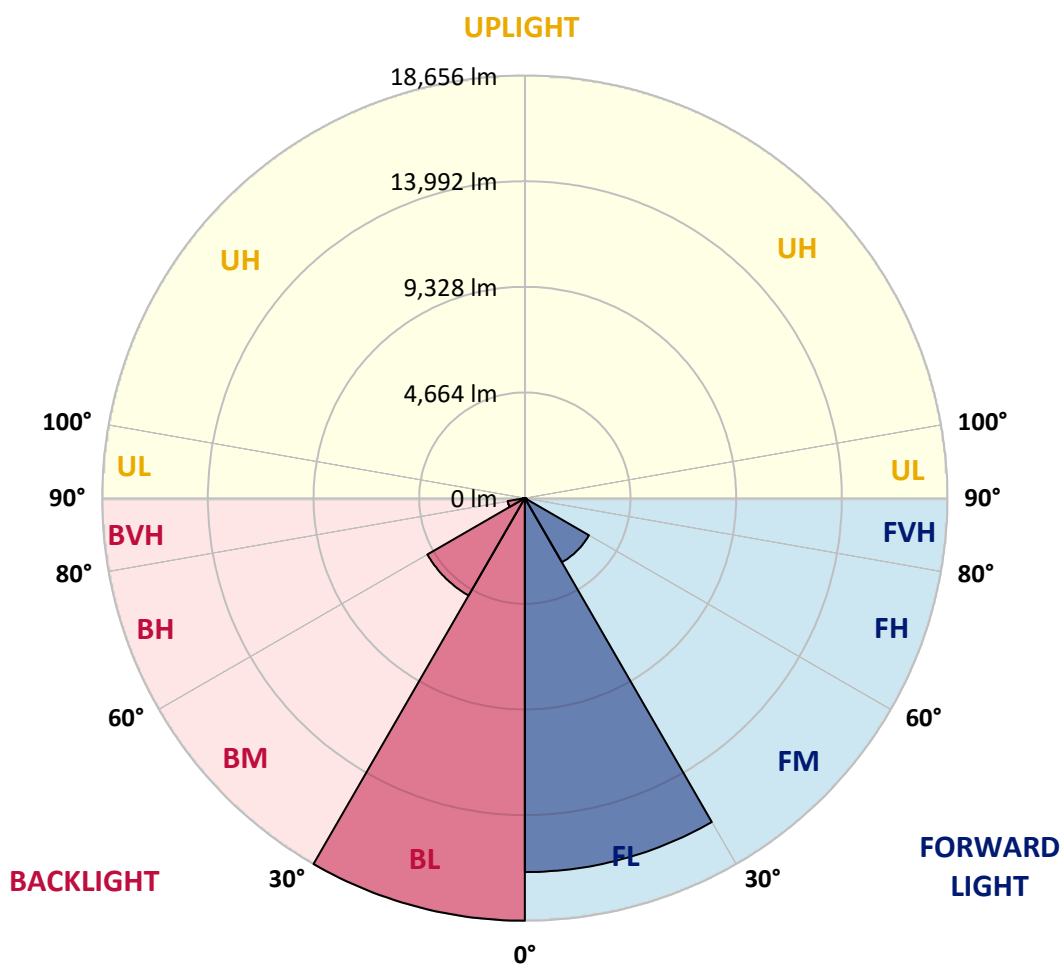
CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	16506.9	37.2			
FM	(30°-60°)	3271.4	7.4			
FH	(60°-80°)	79.2	0.2			G0/660
FVH	(80°-90°)	8.1	0.0			G0/10
BL	(0°-30°)	18655.7	42.1	B5		
BM	(30°-60°)	4969.4	11.2	B3/5000		
BH	(60°-80°)	770.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	85.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short



REPORT NUMBER: P637573

CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3
2.5°	60438.5	60643.1	60234.0	60505.0	60714.6	61215.8	61256.7	61430.6	61491.9	61947.0
5°	59293.0	59451.6	59119.2	59482.3	59778.8	60223.7	60566.4	61047.0	61312.9	61849.9
7.5°	58101.6	58137.4	58070.9	58454.4	58899.3	59512.9	59937.4	60566.4	60730.0	61497.0
10°	56659.5	56398.7	56526.5	57089.1	57753.8	58694.7	58986.2	59615.2	59906.7	60689.1
12.5°	54358.4	54491.3	54332.8	55048.7	55601.0	56669.7	56976.6	57610.6	58168.0	58858.4
15°	51116.3	51039.6	51361.7	51919.1	52517.4	53366.3	53862.3	54552.7	54977.1	55693.0
17.5°	43829.3	44090.1	45419.6	46815.7	48043.0	49035.0	49628.2	50200.9	50507.8	51285.0
20°	37851.4	37524.1	37703.1	38490.6	41983.3	43502.0	44125.9	44264.0	44391.8	45005.4
22.5°	31167.8	31060.5	31658.8	32543.4	33371.8	36874.7	37723.6	37401.4	37667.3	38245.2
25°	23144.5	23686.5	24218.4	25916.1	26990.0	28708.2	30319.0	30462.2	30559.3	30922.4
27.5°	18838.8	18649.6	18639.3	19114.9	20700.2	22132.0	23502.4	23819.5	23763.2	24111.0
30°	14809.2	14747.8	14533.1	14645.6	14487.0	15760.3	16404.7	17708.7	17637.1	17647.3
32.5°	10682.5	10452.3	10365.4	10534.2	10370.5	10252.9	10815.4	12288.2	12262.6	12364.9
35°	6463.7	6433.0	6504.6	6652.9	6325.6	6315.4	6433.0	7818.8	7987.6	8151.2
37.5°	3569.3	3538.7	3594.9	4142.1	4034.7	3937.5	3968.2	4699.5	5185.3	5308.0
40°	2352.3	2347.2	2388.1	2485.2	2669.3	2633.5	2648.9	2976.2	3436.4	3543.8
42.5°	1575.0	1580.1	1605.7	1718.2	1743.8	1927.9	1897.2	1973.9	2403.4	2495.5
45°	1258.0	1252.9	1268.2	1217.1	1247.7	1436.9	1457.4	1462.5	1830.7	1886.9
47.5°	992.1	992.1	1007.4	940.9	925.6	1043.2	1150.6	1165.9	1462.5	1539.2
50°	695.5	695.5	772.2	741.5	777.3	813.1	930.7	946.0	1196.6	1278.4
52.5°	511.4	521.6	531.8	536.9	654.6	649.4	751.7	823.3	905.1	1048.3
55°	388.6	398.9	373.3	398.9	485.8	542.0	562.5	664.8	721.0	879.6
57.5°	255.7	281.3	260.8	306.8	327.3	419.3	450.0	547.2	583.0	721.0
60°	35.8	40.9	66.5	214.8	230.1	276.1	347.7	434.7	470.5	588.1
62.5°	5.1	5.1	15.3	35.8	153.4	184.1	260.8	301.7	347.7	439.8
65°	0.0	0.0	5.1	10.2	30.7	107.4	133.0	163.6	240.3	317.0
67.5°	0.0	0.0	5.1	10.2	15.3	35.8	56.3	107.4	138.1	219.9
70°	0.0	0.0	5.1	10.2	15.3	20.5	30.7	40.9	81.8	127.8
72.5°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	30.7	35.8	81.8
75°	0.0	0.0	5.1	10.2	15.3	25.6	30.7	30.7	30.7	35.8
77.5°	0.0	0.0	5.1	10.2	20.5	30.7	35.8	30.7	25.6	25.6
80°	0.0	0.0	5.1	15.3	25.6	35.8	40.9	30.7	20.5	15.3
82.5°	0.0	0.0	5.1	15.3	25.6	35.8	40.9	35.8	20.5	15.3
85°	0.0	0.0	5.1	15.3	20.5	25.6	40.9	35.8	20.5	10.2
87.5°	0.0	0.0	0.0	5.1	5.1	10.2	20.5	15.3	10.2	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637573

CATALOG NUMBER: IFLD-L-SA7E-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
61778.3	0°	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3	61778.3
61936.8	2.5°	62397.0	62627.2	63031.1	63143.6	63491.4	63092.5	62872.6	62893.1	62417.5
61783.4	5°	62397.0	62923.8	63629.4	63966.9	64222.6	64202.2	64145.9	64002.7	63655.0
61476.6	7.5°	62233.4	63092.5	64064.1	64514.1	64820.9	64795.4	64923.2	64693.1	64268.7
60929.4	10°	61706.7	62453.3	63649.9	64018.1	64514.1	64524.3	64365.8	64411.8	63655.0
58930.0	12.5°	60049.9	60632.8	61681.1	62100.5	62703.9	62801.0	62627.2	62560.7	61844.8
55652.1	15°	56843.6	57181.1	58234.5	58653.8	59252.1	59170.3	59344.2	59272.6	58643.6
51223.7	17.5°	52154.4	52261.7	53366.3	53719.1	54281.6	54501.5	54240.7	54573.1	54031.1
45112.8	20°	45429.9	46007.7	47250.3	47792.4	48119.7	48513.4	48170.8	48544.1	47910.0
37698.0	22.5°	38608.2	38950.9	40075.9	40858.3	41466.8	41543.5	41415.6	41676.4	40822.5
31162.7	25°	31157.6	31725.2	32615.0	33637.7	34236.0	34604.2	34271.8	34440.6	34302.5
24167.2	27.5°	24576.3	25082.6	25752.5	26514.4	27414.4	27895.1	27629.2	27915.5	27240.5
18020.6	30°	18035.9	18291.6	19048.4	19856.4	20843.3	21426.3	21451.9	21743.3	21344.5
12625.7	32.5°	12717.7	12942.7	13408.1	13945.0	14885.9	15535.3	15433.1	15474.0	15228.5
8227.9	35°	8268.8	8570.5	8902.9	9158.6	9726.2	10442.1	10385.9	10334.7	10166.0
5410.3	37.5°	5527.9	5645.5	5829.6	6059.7	6427.9	6877.9	7026.2	6842.1	6770.5
3651.2	40°	3738.1	3942.6	4065.4	4239.2	4413.1	4791.5	4893.8	4858.0	4786.4
2556.8	42.5°	2654.0	2812.5	2965.9	3134.7	3226.7	3462.0	3661.4	3605.1	3574.5
1943.2	45°	2014.8	2158.0	2336.9	2464.8	2556.8	2694.9	2884.1	2904.6	2858.5
1559.7	47.5°	1615.9	1743.8	1886.9	2045.5	2152.9	2239.8	2403.4	2464.8	2434.1
1314.2	50°	1370.5	1467.6	1605.7	1764.2	1881.8	1958.5	2101.7	2168.2	2147.7
1099.4	52.5°	1165.9	1283.5	1411.4	1544.3	1687.5	1764.2	1897.2	1994.3	1979.0
910.2	55°	966.5	1119.9	1252.9	1385.8	1549.4	1626.1	1743.8	1871.6	1846.0
772.2	57.5°	843.8	971.6	1109.7	1237.5	1411.4	1513.6	1621.0	1754.0	1748.9
634.1	60°	705.7	833.5	986.9	1094.3	1278.4	1421.6	1518.8	1656.8	1667.1
480.7	62.5°	562.5	721.0	838.6	986.9	1155.7	1324.4	1416.5	1554.6	1605.7
368.2	65°	419.3	593.2	726.1	874.4	1033.0	1222.2	1304.0	1442.1	1493.2
265.9	67.5°	311.9	444.9	613.6	741.5	920.5	1084.1	1181.3	1309.1	1344.9
158.5	70°	235.2	342.6	511.4	623.9	808.0	940.9	1038.1	1135.2	1181.3
107.4	72.5°	138.1	255.7	404.0	536.9	695.5	808.0	879.6	956.3	986.9
51.1	75°	97.2	194.3	317.0	444.9	562.5	654.6	721.0	787.5	818.2
25.6	77.5°	51.1	143.2	250.6	358.0	439.8	516.5	583.0	634.1	654.6
20.5	80°	30.7	102.3	204.5	281.3	337.5	404.0	470.5	506.3	501.1
15.3	82.5°	20.5	81.8	148.3	204.5	245.5	296.6	342.6	368.2	368.2
10.2	85°	15.3	56.3	102.3	158.5	163.6	204.5	214.8	240.3	245.5
10.2	87.5°	10.2	35.8	56.3	92.0	86.9	107.4	112.5	127.8	138.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
61778.3
62034.0
63767.5
64365.8
63435.1
61681.1
58843.0
53898.1
47858.9
40704.8
34215.6
27414.4
21416.1
15366.6
10017.7
6755.2
4796.6
3548.9
2853.4
2418.8
2142.6
1968.8
1846.0
1743.8
1667.1
1600.6
1488.1
1344.9
1171.0
976.7
808.0
649.4
496.0
363.1
240.3
133.0
0.0

(END OF REPORT)