

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: P637041

Luminaire Tested: **IFLD-S-SA6E-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637041
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44006.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

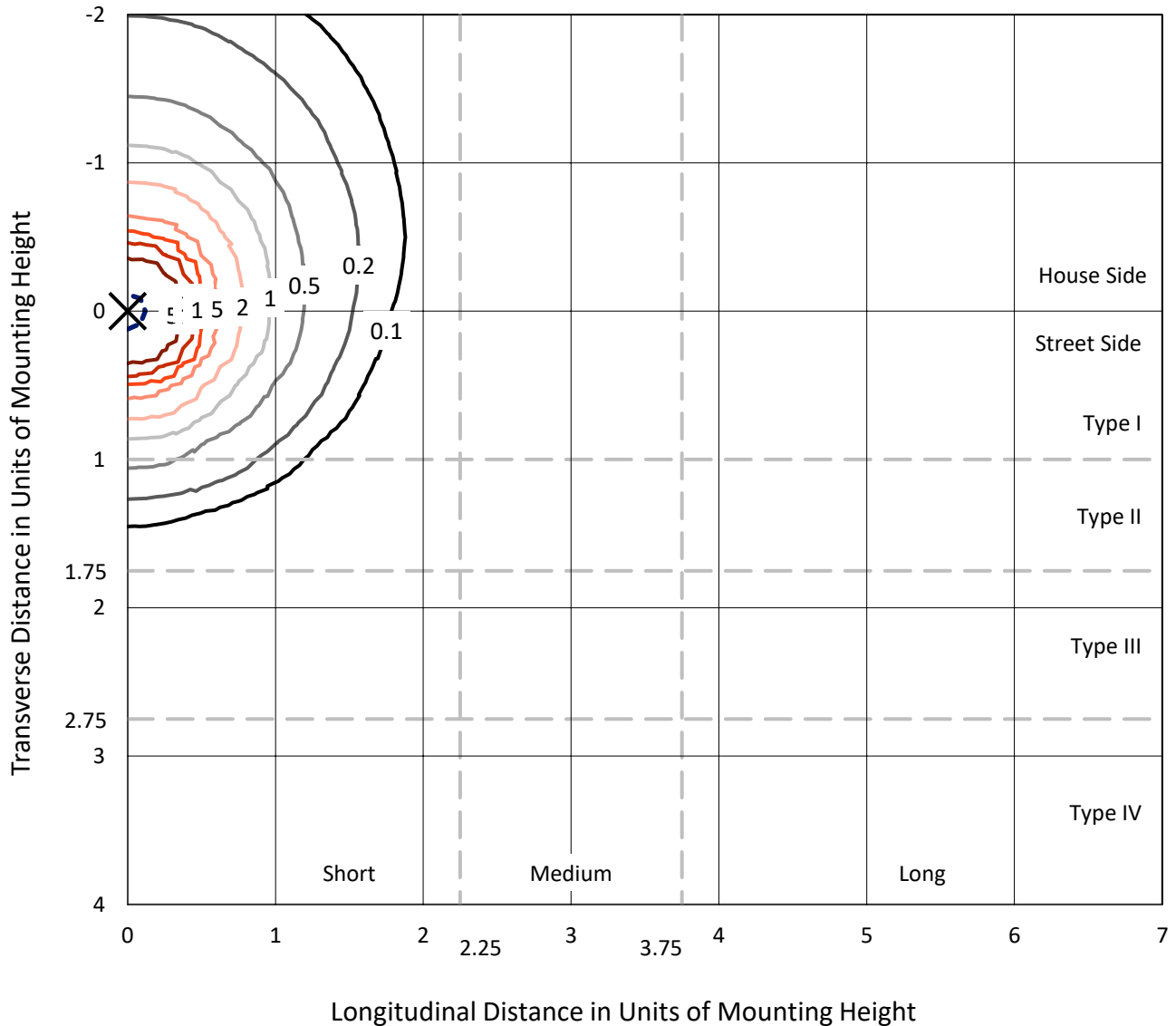
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637041
 CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

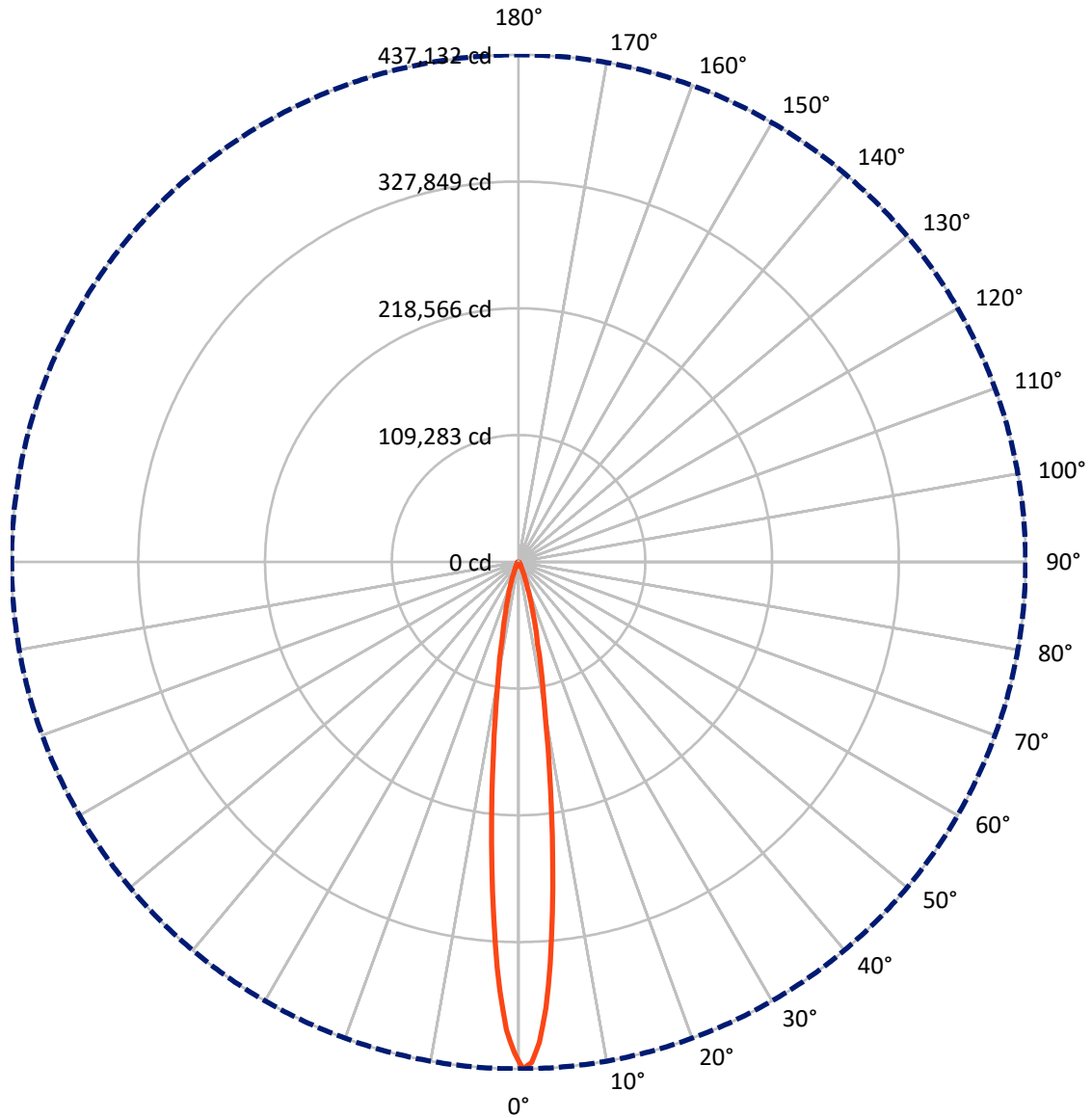
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1092.8 fc
 Type V - Short - N/A

REPORT NUMBER: P637041
CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637041
 CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22539.5	0.0	22539.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21467.4	0.0	21467.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	44006.9	0.0	44006.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22216.0	50.5
10°-20°	14222.6	32.3
20°-30°	4275.0	9.7
30°-40°	1392.0	3.2
40°-50°	809.9	1.8
50°-60°	537.9	1.2
60°-70°	323.8	0.7
70°-80°	166.5	0.4
80°-90°	63.2	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°	44006.9	100.0
0°-180°	44006.9	100.0

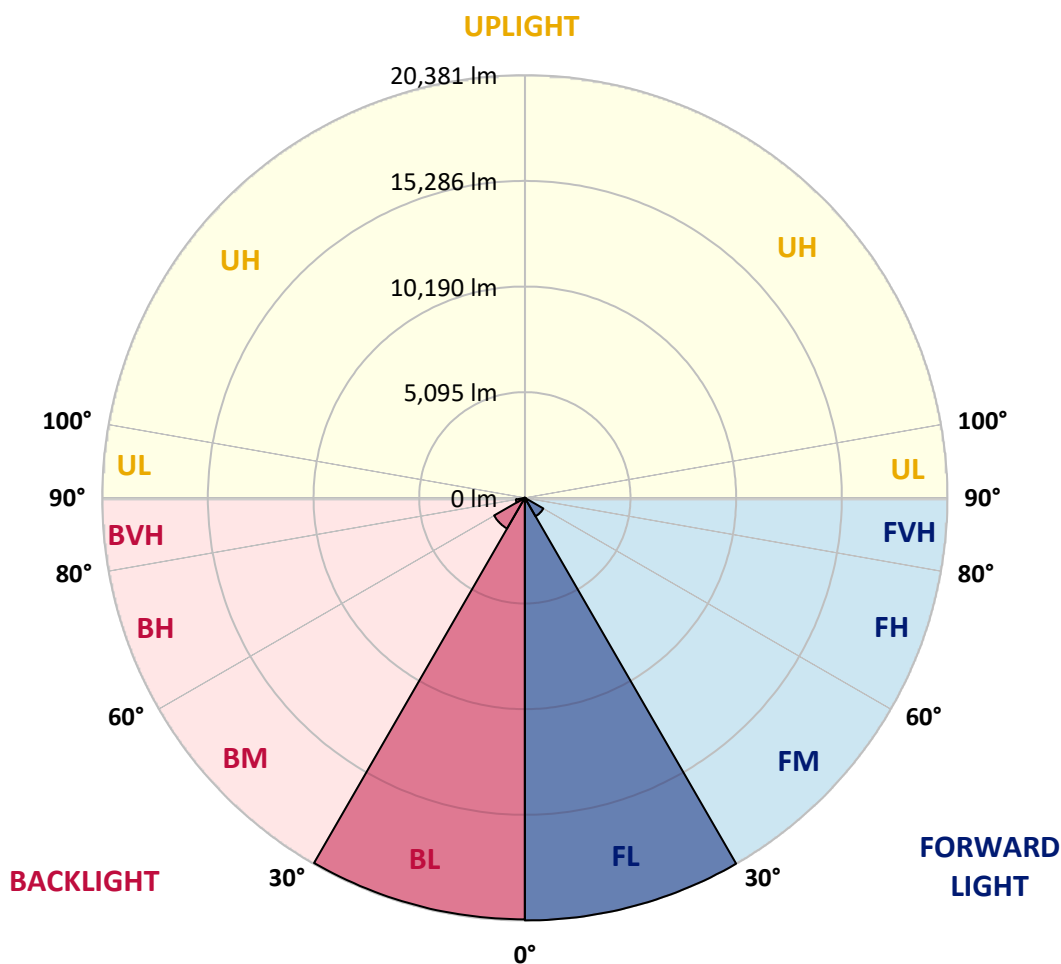


REPORT NUMBER: P637041
 CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20381.0	46.3			
FM (30°-60°)	1028.5	2.3			
FH (60°-80°)	48.4	0.1			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	20332.7	46.2	B5		
BM (30°-60°)	1711.3	3.9	B2/2500		
BH (60°-80°)	441.8	1.0	B1/500		G0/660
BVH (80°-90°)	53.7	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





REPORT NUMBER: P637041
 CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5
1°	431897.5	430579.4	427176.3	429596.8	431724.9	431106.6	431063.5	430833.4	430512.3	433033.4
2°	414632.9	413779.7	408747.0	410822.4	413846.8	411642.0	413022.4	411809.8	411833.8	414843.8
3°	385529.5	385994.4	377966.0	381738.2	385941.7	380597.4	382255.8	385371.3	382107.2	381124.6
4°	347702.7	343666.9	339281.3	343115.7	344203.7	341093.0	344151.0	347966.3	343432.1	343633.4
5°	304517.2	301536.0	296345.1	298712.8	296014.4	296996.9	301579.1	303151.2	299987.8	296004.8
6°	260114.4	257995.8	251506.0	254918.7	253960.1	253404.1	259189.3	254396.2	256121.7	253710.8
7°	216363.3	212404.3	209216.9	212485.8	212696.7	211023.9	218534.6	217662.3	214522.8	213794.3
8°	179260.3	175310.8	172612.3	175047.2	176638.5	174011.9	177544.4	179864.2	177410.2	177630.7
9°	144582.5	143887.5	140134.6	143317.2	145047.5	142233.9	146145.1	146983.9	144688.0	145804.8
10°	118714.4	117904.4	114908.7	116198.1	119064.3	115709.2	119462.1	119735.3	117904.4	118426.8
12.5°	73362.5	73036.6	72955.1	73142.0	73103.7	73698.0	74656.6	73563.8	73420.0	71613.1
15°	47417.7	47901.8	47403.3	48361.9	48500.9	49061.7	48477.0	47595.0	45912.7	45078.7
17.5°	29592.3	30210.6	31063.8	32468.2	33872.5	34035.5	33259.0	32223.7	31408.9	30517.4
20°	17024.9	17326.9	17197.5	18879.8	22513.0	23500.4	22498.6	21410.6	20428.0	19526.9
22.5°	10578.3	10468.0	10669.3	11234.9	12418.8	15472.0	14652.4	13564.3	12850.2	12107.3
25°	6485.0	6604.8	6528.1	6839.7	7371.7	8665.8	8852.8	8383.1	8018.8	7635.3
27.5°	4174.8	4174.8	4208.3	4380.9	4745.1	4702.0	5698.9	5334.7	5138.2	4951.2
30°	2899.8	2909.4	2909.4	3010.0	3091.5	2947.7	3206.6	3676.3	3585.2	3441.4
32.5°	2152.1	2180.8	2204.8	2257.5	2190.4	2037.0	2099.4	2645.8	2593.0	2540.3
35°	1639.2	1663.2	1720.7	1749.5	1653.6	1557.7	1500.2	1946.0	1969.9	1955.6
37.5°	1193.5	1207.9	1313.3	1423.5	1313.3	1227.0	1193.5	1495.4	1610.5	1596.1
40°	915.5	920.3	939.4	1064.1	1064.1	997.0	1006.5	1116.8	1318.1	1318.1
42.5°	786.1	786.1	805.2	786.1	790.9	862.8	886.7	901.1	1116.8	1116.8
45°	680.6	680.6	690.2	642.3	594.3	742.9	762.1	766.9	939.4	963.4
47.5°	570.4	570.4	589.5	527.2	503.3	589.5	642.3	656.6	810.0	829.2
50°	421.8	426.6	484.1	431.4	445.8	455.3	556.0	565.6	685.4	728.5
52.5°	282.8	282.8	292.4	335.5	388.2	373.9	450.5	484.1	546.4	603.9
55°	230.1	230.1	225.3	215.7	287.6	311.5	330.7	402.6	445.8	517.7
57.5°	158.2	167.8	153.4	177.3	186.9	234.9	249.2	316.3	340.3	436.2
60°	19.2	24.0	33.6	129.4	124.6	158.2	186.9	249.2	278.0	335.5
62.5°	4.8	4.8	9.6	24.0	86.3	105.4	148.6	172.6	201.3	258.8
65°	0.0	0.0	4.8	9.6	19.2	57.5	76.7	100.7	143.8	182.1
67.5°	0.0	0.0	4.8	9.6	9.6	24.0	38.3	62.3	76.7	134.2
70°	0.0	0.0	4.8	9.6	9.6	19.2	24.0	28.8	52.7	71.9
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	24.0	24.0	47.9
75°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	24.0	19.2	19.2
77.5°	0.0	0.0	4.8	9.6	19.2	24.0	28.8	24.0	14.4	14.4
80°	0.0	0.0	4.8	14.4	24.0	33.6	38.3	28.8	14.4	9.6
82.5°	0.0	0.0	9.6	19.2	28.8	38.3	52.7	43.1	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.8	38.3	76.7	52.7	24.0	4.8
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	28.8	19.2	9.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637041
 CATALOG NUMBER: IFLD-S-SA6E-727-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
437131.5	0°	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5	437131.5
430124.1	1°	433129.3	433431.3	432443.9	433972.9	433436.1	430291.8	429251.7	428019.9
413075.2	2°	411809.8	413348.4	413425.1	415121.8	415097.8	411431.1	410295.2	412389.8
383118.6	3°	381958.6	383751.2	382136.0	385150.8	384244.9	379797.0	378641.8	381019.2
345224.7	4°	344194.2	343853.8	343297.8	341581.9	343695.7	340661.7	338375.4	341601.1
301286.7	5°	300682.8	299925.5	298842.3	298334.2	299906.3	297965.1	293263.1	297974.7
258072.5	6°	258388.9	255129.6	254971.4	254688.6	254846.8	249411.5	249737.4	253245.9
211287.5	7°	213521.1	214120.2	212898.0	214858.3	213362.9	209681.8	208263.1	211958.5
178598.9	8°	177352.7	176595.4	175660.7	178589.3	175996.2	173580.5	171926.9	174845.9
145986.9	9°	145713.7	144405.2	143456.2	143307.6	143710.2	139176.0	140096.2	142305.8
118714.4	10°	118757.6	116610.3	117132.7	117271.7	116830.7	113859.0	113887.8	114649.9
72811.3	12.5°	72552.5	71498.0	71761.6	71905.4	72801.7	71756.8	70280.6	69216.5
45907.9	15°	45601.1	44843.8	46392.0	47432.1	47221.2	46291.3	45596.3	44632.9
30517.4	17.5°	30234.6	31226.8	31231.6	32180.6	32276.4	31346.6	30809.8	29942.2
19848.0	20°	19776.1	20188.4	21046.3	21717.3	22105.6	21396.2	20753.9	20159.6
12375.7	22.5°	12375.7	13094.6	13631.5	14503.8	14858.5	14340.8	13885.5	13401.4
7726.4	25°	7597.0	8109.9	8555.6	9312.9	9797.0	9547.8	9130.8	8790.5
4989.6	27.5°	5066.3	5281.9	5502.4	6024.9	6528.1	6389.1	6221.4	6015.3
3518.1	30°	3570.8	3590.0	3824.9	4117.2	4452.7	4539.0	4462.3	4356.9
2583.5	32.5°	2631.4	2708.1	2818.3	3000.5	3225.7	3431.8	3393.5	3345.6
1974.7	35°	2032.3	2147.3	2238.4	2377.4	2497.2	2693.7	2727.2	2712.9
1624.8	37.5°	1658.4	1759.1	1850.1	1931.6	2032.3	2166.5	2271.9	2276.7
1342.1	40°	1375.6	1466.7	1586.5	1648.8	1720.7	1821.4	1950.8	1960.4
1136.0	42.5°	1159.9	1246.2	1366.0	1442.7	1495.4	1591.3	1720.7	1739.9
973.0	45°	997.0	1049.7	1174.3	1265.4	1318.1	1380.4	1519.4	1538.6
838.8	47.5°	867.5	920.3	997.0	1126.4	1174.3	1231.8	1342.1	1375.6
742.9	50°	762.1	814.8	881.9	997.0	1068.9	1116.8	1207.9	1255.8
647.1	52.5°	675.8	728.5	800.4	891.5	973.0	1016.1	1102.4	1164.7
527.2	55°	565.6	656.6	709.4	790.9	901.1	939.4	1006.5	1088.0
460.1	57.5°	493.7	570.4	647.1	714.2	824.4	872.3	939.4	1016.1
364.3	60°	417.0	488.9	580.0	637.5	742.9	805.2	877.1	949.0
278.0	62.5°	330.7	426.6	488.9	570.4	671.0	752.5	810.0	881.9
215.7	65°	244.4	349.9	421.8	508.1	603.9	690.2	738.1	814.8
153.4	67.5°	177.3	273.2	359.5	441.0	532.0	618.3	666.2	733.3
95.9	70°	139.0	201.3	297.2	369.1	464.9	536.8	589.5	632.7
62.3	72.5°	81.5	153.4	239.7	321.1	407.4	455.3	493.7	532.0
28.8	75°	52.7	119.8	196.5	268.4	330.7	373.9	407.4	441.0
14.4	77.5°	33.6	86.3	158.2	225.3	254.0	306.8	335.5	354.7
9.6	80°	19.2	67.1	139.0	182.1	206.1	239.7	268.4	292.4
9.6	82.5°	14.4	57.5	115.0	153.4	153.4	191.7	206.1	206.1
4.8	85°	9.6	47.9	91.1	143.8	115.0	143.8	134.2	134.2
4.8	87.5°	9.6	33.6	43.1	62.3	52.7	62.3	62.3	71.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
437131.5
423140.6
403517.8
370460.1
329925.2
285560.7
243075.0
201907.5
166510.8
135403.8
109463.8
68569.5
44139.3
29726.5
19953.5
13142.6
8593.9
5895.5
4285.0
3307.2
2664.9
2243.2
1946.0
1725.5
1533.8
1380.4
1260.6
1164.7
1092.8
1020.9
968.2
915.5
829.2
738.1
647.1
541.6
441.0
345.1
263.6
191.7
129.4
71.9
0.0

(END OF REPORT)