

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: P637251

Luminaire Tested: **IFLD-L-SA7B-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637251
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28141.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

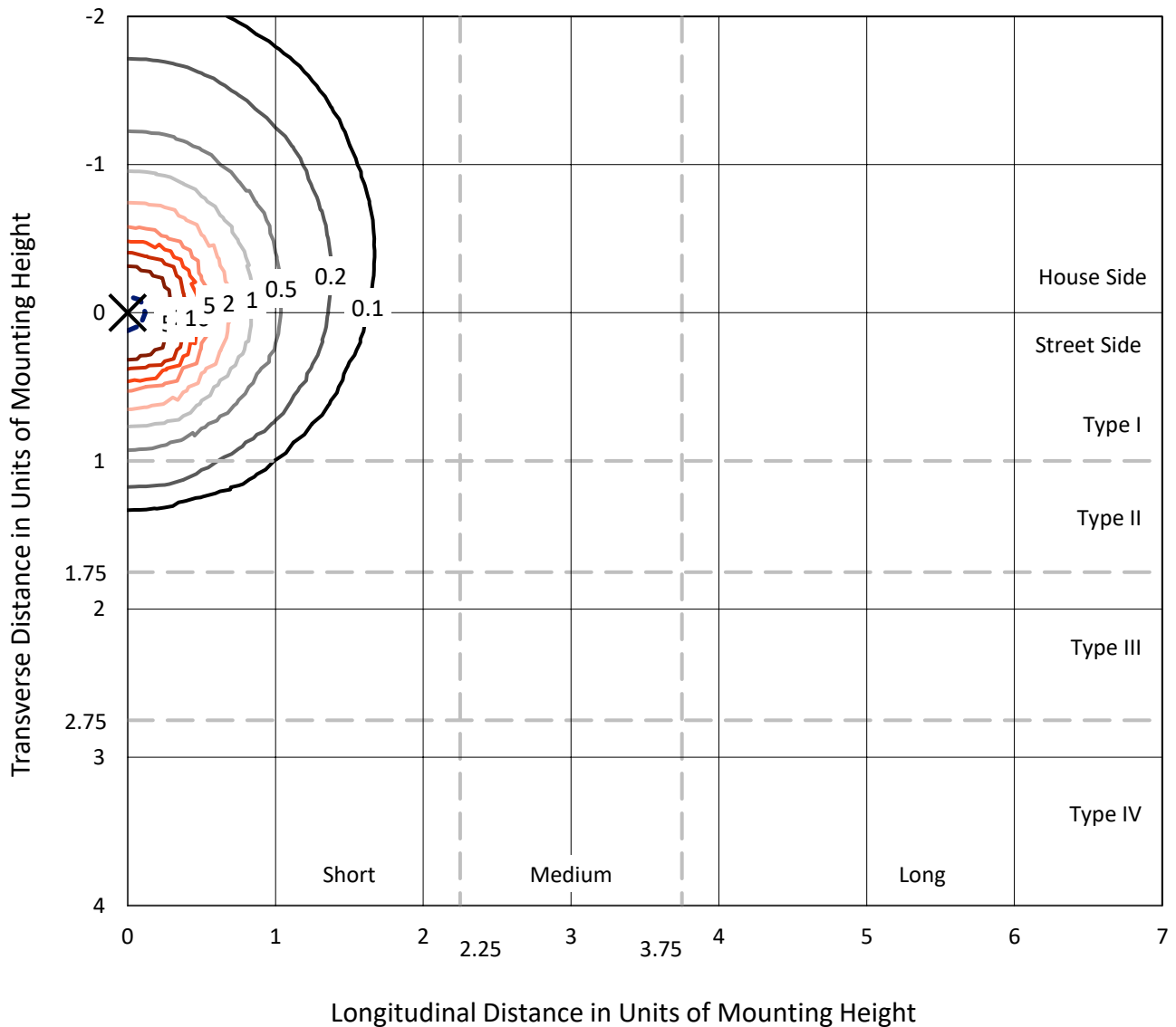
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637251
 CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

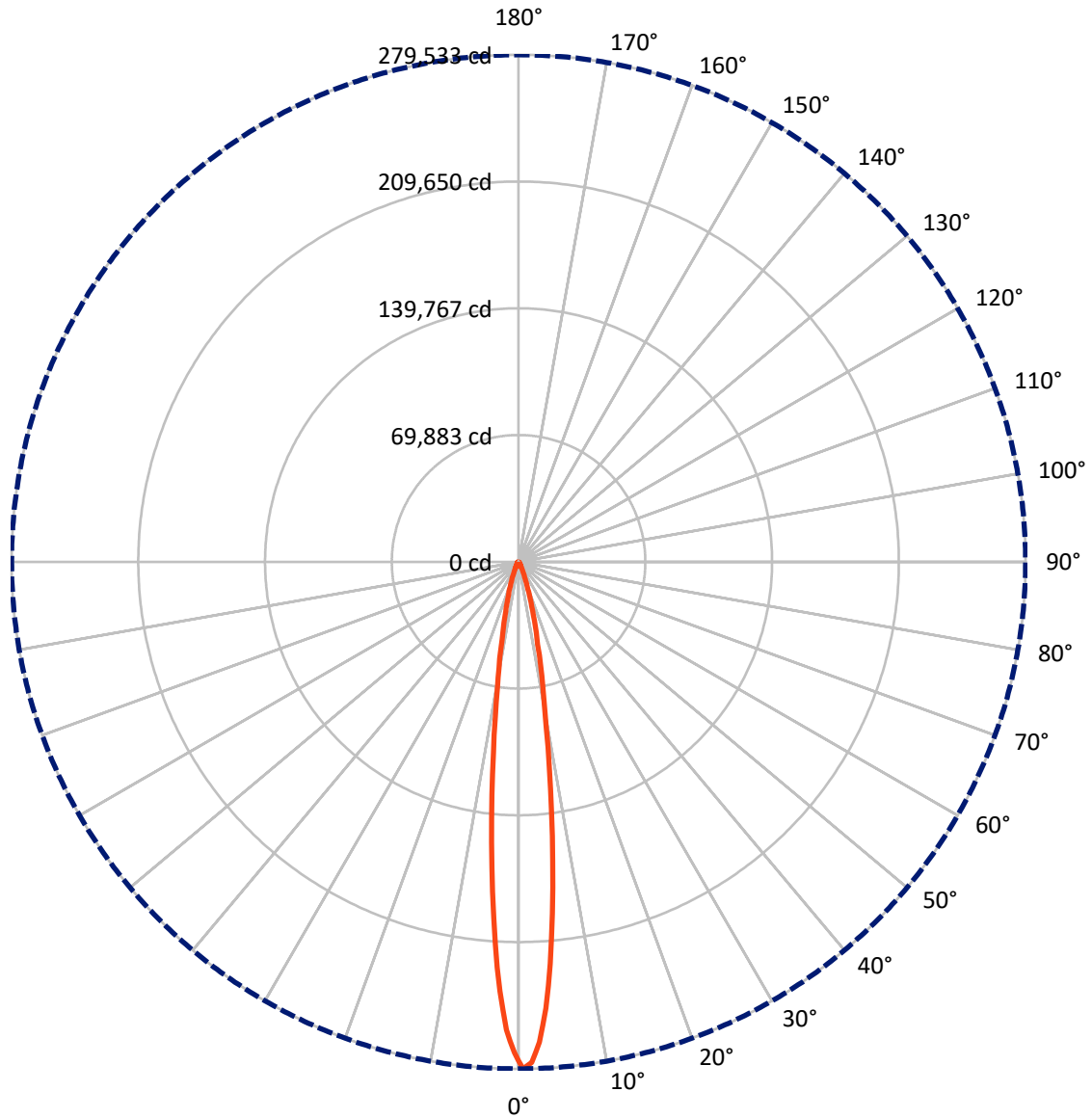
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 698.8 fc
 Type V - Short - N/A

REPORT NUMBER: P637251
CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637251
 CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14413.4	0.0	14413.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	13727.8	0.0	13727.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	28141.2	0.0	28141.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14206.5	50.5
10°-20°	9095.0	32.3
20°-30°	2733.8	9.7
30°-40°	890.1	3.2
40°-50°	517.9	1.8
50°-60°	344.0	1.2
60°-70°	207.1	0.7
70°-80°	106.4	0.4
80°-90°	40.4	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°	28141.2	100.0
0°-180°	28141.2	100.0

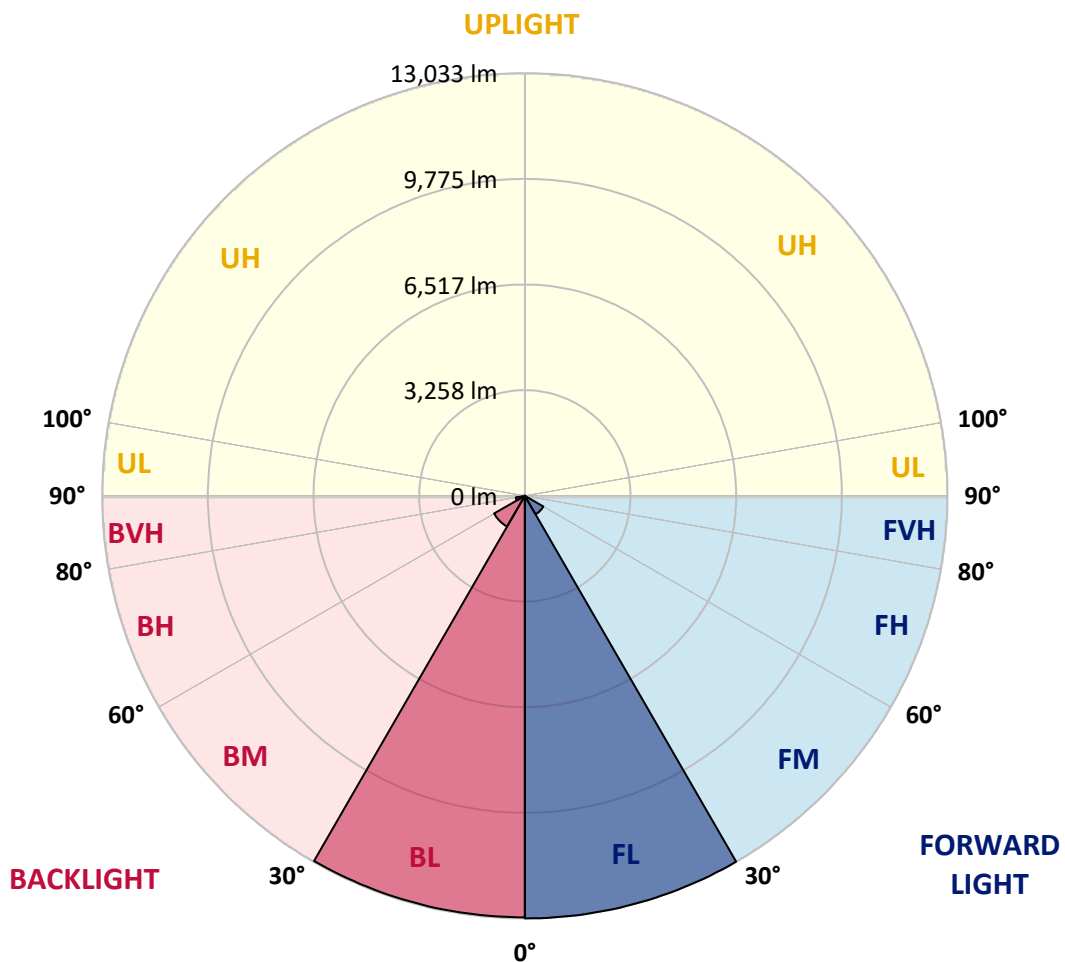


REPORT NUMBER: P637251
 CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13033.1	46.3			
FM (30°-60°)	657.7	2.3			
FH (60°-80°)	31.0	0.1			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	13002.2	46.2	B5		
BM (30°-60°)	1094.3	3.9	B2/2500		
BH (60°-80°)	282.5	1.0	B1/500		G0/660
BVH (80°-90°)	34.3	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: P637251
 CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4
1°	276186.4	275343.5	273167.4	274715.2	276076.1	275680.7	275653.1	275506.0	275300.6	276912.8
2°	265146.2	264600.6	261382.3	262709.5	264643.5	263233.6	264116.3	263340.9	263356.2	265281.1
3°	246535.4	246832.7	241698.7	244110.9	246798.9	243381.4	244441.9	246434.2	244346.9	243718.6
4°	222346.2	219765.4	216960.9	219412.9	220108.7	218119.5	220075.0	222514.7	219615.2	219744.0
5°	194730.3	192823.8	189504.4	191018.5	189292.9	189921.3	192851.4	193856.8	191833.8	189286.8
6°	166335.9	164981.1	160831.1	163013.4	162400.4	162044.9	165744.3	162679.3	163782.7	162241.0
7°	138358.3	135826.6	133788.4	135878.7	136013.6	134943.9	139746.8	139189.0	137181.4	136715.5
8°	114632.0	112106.4	110380.8	111937.8	112955.4	111275.8	113534.7	115018.2	113448.9	113589.9
9°	92456.5	92012.1	89612.2	91647.3	92753.8	90954.6	93455.7	93992.1	92523.9	93238.1
10°	75914.6	75396.6	73480.9	74305.4	76138.3	73992.8	76392.7	76567.4	75396.6	75730.7
12.5°	46913.3	46704.9	46652.8	46772.3	46747.8	47127.8	47740.8	47042.0	46950.1	45794.6
15°	30322.3	30631.9	30313.1	30926.1	31015.0	31373.6	30999.7	30435.7	29359.9	28826.6
17.5°	18923.5	19318.9	19864.4	20762.5	21660.5	21764.7	21268.2	20606.2	20085.1	19515.0
20°	10887.0	11080.1	10997.3	12073.1	14396.4	15027.8	14387.2	13691.5	13063.1	12486.9
22.5°	6764.5	6694.0	6822.7	7184.4	7941.5	9893.9	9369.8	8674.0	8217.3	7742.3
25°	4147.0	4223.6	4174.6	4373.8	4714.0	5541.6	5661.1	5360.7	5127.8	4882.6
27.5°	2669.6	2669.6	2691.1	2801.4	3034.4	3006.8	3644.3	3411.4	3285.7	3166.2
30°	1854.3	1860.5	1860.5	1924.8	1976.9	1885.0	2050.5	2350.9	2292.6	2200.7
32.5°	1376.2	1394.6	1409.9	1443.6	1400.7	1302.6	1342.5	1691.9	1658.2	1624.5
35°	1048.2	1063.6	1100.3	1118.7	1057.4	996.1	959.4	1244.4	1259.7	1250.5
37.5°	763.2	772.4	839.8	910.3	839.8	784.6	763.2	956.3	1029.8	1020.7
40°	585.4	588.5	600.7	680.4	680.4	637.5	643.7	714.2	842.9	842.9
42.5°	502.7	502.7	514.9	502.7	505.7	551.7	567.0	576.2	714.2	714.2
45°	435.2	435.2	441.4	410.7	380.1	475.1	487.3	490.4	600.7	616.1
47.5°	364.7	364.7	377.0	337.2	321.8	377.0	410.7	419.9	518.0	530.2
50°	269.7	272.8	309.6	275.9	285.0	291.2	355.5	361.7	438.3	465.9
52.5°	180.8	180.8	187.0	214.6	248.3	239.1	288.1	309.6	349.4	386.2
55°	147.1	147.1	144.1	137.9	183.9	199.2	211.5	257.5	285.0	331.0
57.5°	101.1	107.3	98.1	113.4	119.5	150.2	159.4	202.3	217.6	278.9
60°	12.3	15.3	21.5	82.8	79.7	101.1	119.5	159.4	177.8	214.6
62.5°	3.1	3.1	6.1	15.3	55.2	67.4	95.0	110.3	128.7	165.5
65°	0.0	0.0	3.1	6.1	12.3	36.8	49.0	64.4	92.0	116.5
67.5°	0.0	0.0	3.1	6.1	6.1	15.3	24.5	39.8	49.0	85.8
70°	0.0	0.0	3.1	6.1	6.1	12.3	15.3	18.4	33.7	46.0
72.5°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	15.3	15.3	30.7
75°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	15.3	12.3	12.3
77.5°	0.0	0.0	3.1	6.1	12.3	15.3	18.4	15.3	9.2	9.2
80°	0.0	0.0	3.1	9.2	15.3	21.5	24.5	18.4	9.2	6.1
82.5°	0.0	0.0	6.1	12.3	18.4	24.5	33.7	27.6	12.3	6.1
85°	0.0	0.0	3.1	9.2	18.4	24.5	49.0	33.7	15.3	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.1	18.4	12.3	6.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637251

CATALOG NUMBER: IFLD-L-SA7B-830-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
279533.4	0°	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4	279533.4
275052.4	1°	276974.1	277167.2	276535.8	277513.6	277170.3	275159.6	274494.5	273706.8
264150.1	2°	263340.9	264324.8	264373.8	265458.8	265443.5	263098.8	262372.3	263711.8
244993.6	3°	244251.9	245398.2	244365.3	246293.2	245713.9	242869.6	242130.9	243651.2
220761.6	4°	220102.6	219885.0	219529.4	218432.1	219783.8	217843.6	216381.6	218444.4
192664.5	5°	192278.3	191794.0	191101.3	190776.4	191781.7	190540.4	187533.6	190546.5
165030.2	6°	165232.5	163148.3	163047.1	162866.3	162967.4	159491.7	159700.1	161943.7
135112.5	7°	136540.8	136923.9	136142.3	137395.9	136439.6	134085.7	133178.4	135541.6
114209.0	8°	113412.1	112927.8	112330.1	114202.9	112544.7	110999.9	109942.5	111809.1
93354.6	9°	93179.9	92343.1	91736.2	91641.2	91898.7	88999.2	89587.6	91000.6
75914.6	10°	75942.1	74569.0	74903.1	74992.0	74710.0	72809.7	72828.1	73315.4
46560.8	12.5°	46395.3	45721.0	45889.6	45981.5	46554.7	45886.5	44942.5	44262.0
29356.8	15°	29160.7	28676.4	29666.4	30331.5	30196.6	29602.0	29157.6	28541.5
19515.0	17.5°	19334.2	19968.6	19971.7	20578.6	20639.9	20045.3	19702.0	19147.2
12692.3	20°	12646.3	12909.9	13458.5	13887.6	14135.9	13682.3	13271.6	12891.5
7913.9	22.5°	7913.9	8373.7	8716.9	9274.8	9501.6	9170.6	8879.4	8569.8
4940.8	25°	4858.1	5186.0	5471.1	5955.3	6264.9	6105.5	5838.9	5621.3
3190.7	27.5°	3239.7	3377.7	3518.6	3852.7	4174.6	4085.7	3978.4	3846.6
2249.7	30°	2283.4	2295.7	2445.9	2632.9	2847.4	2902.6	2853.5	2786.1
1652.0	32.5°	1682.7	1731.7	1802.2	1918.7	2062.8	2194.6	2170.0	2139.4
1262.8	35°	1299.6	1373.1	1431.4	1520.3	1596.9	1722.5	1744.0	1734.8
1039.0	37.5°	1060.5	1124.9	1183.1	1235.2	1299.6	1385.4	1452.8	1455.9
858.2	40°	879.7	937.9	1014.5	1054.4	1100.3	1164.7	1247.5	1253.6
726.4	42.5°	741.7	796.9	873.5	922.6	956.3	1017.6	1100.3	1112.6
622.2	45°	637.5	671.2	750.9	809.2	842.9	882.7	971.6	983.9
536.4	47.5°	554.8	588.5	637.5	720.3	750.9	787.7	858.2	879.7
475.1	50°	487.3	521.1	564.0	637.5	683.5	714.2	772.4	803.0
413.8	52.5°	432.2	465.9	511.9	570.1	622.2	649.8	705.0	744.8
337.2	55°	361.7	419.9	453.6	505.7	576.2	600.7	643.7	695.8
294.2	57.5°	315.7	364.7	413.8	456.7	527.2	557.8	600.7	649.8
232.9	60°	266.7	312.6	370.9	407.6	475.1	514.9	560.9	606.9
177.8	62.5°	211.5	272.8	312.6	364.7	429.1	481.2	518.0	564.0
137.9	65°	156.3	223.7	269.7	324.9	386.2	441.4	472.0	521.1
98.1	67.5°	113.4	174.7	229.9	282.0	340.2	395.4	426.0	468.9
61.3	70°	88.9	128.7	190.0	236.0	297.3	343.3	377.0	404.6
39.8	72.5°	52.1	98.1	153.3	205.4	260.5	291.2	315.7	340.2
18.4	75°	33.7	76.6	125.7	171.6	211.5	239.1	260.5	282.0
9.2	77.5°	21.5	55.2	101.1	144.1	162.4	196.2	214.6	226.8
6.1	80°	12.3	42.9	88.9	116.5	131.8	153.3	171.6	187.0
6.1	82.5°	9.2	36.8	73.6	98.1	98.1	122.6	131.8	131.8
3.1	85°	6.1	30.7	58.2	92.0	73.6	92.0	85.8	85.8
3.1	87.5°	6.1	21.5	27.6	39.8	33.7	39.8	39.8	46.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
279533.4
270586.6
258038.4
236898.9
210978.0
182608.1
155439.7
129114.2
106479.0
86587.0
69999.1
43848.3
28225.8
19009.3
12759.7
8404.3
5495.6
3770.0
2740.1
2114.9
1704.2
1434.4
1244.4
1103.4
980.8
882.7
806.1
744.8
698.8
652.9
619.1
585.4
530.2
472.0
413.8
346.3
282.0
220.7
168.6
122.6
82.8
46.0
0.0

(END OF REPORT)