

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: P637258

Luminaire Tested: **IFLD-L-SA8D-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637258
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44052.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

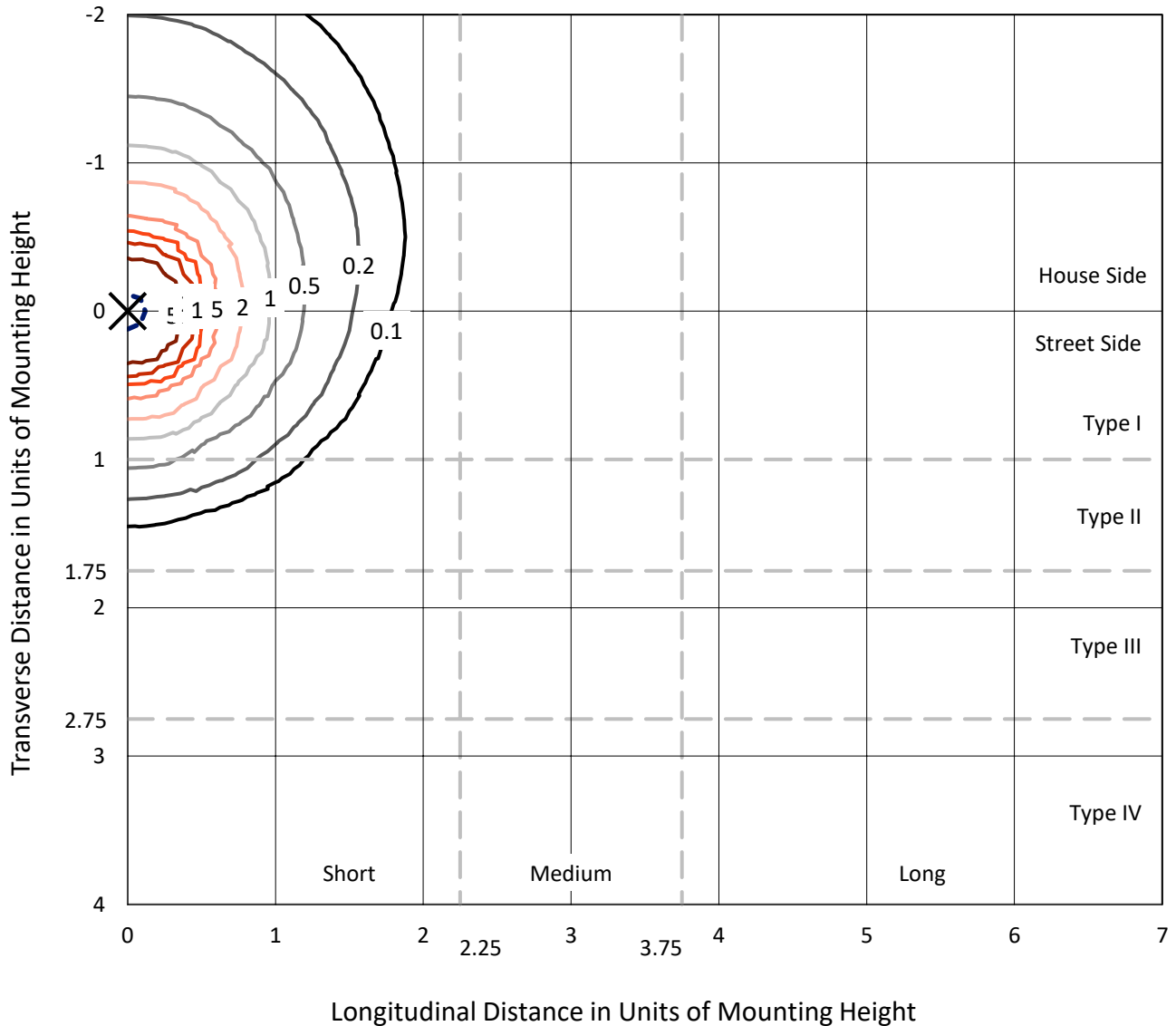
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637258
 CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

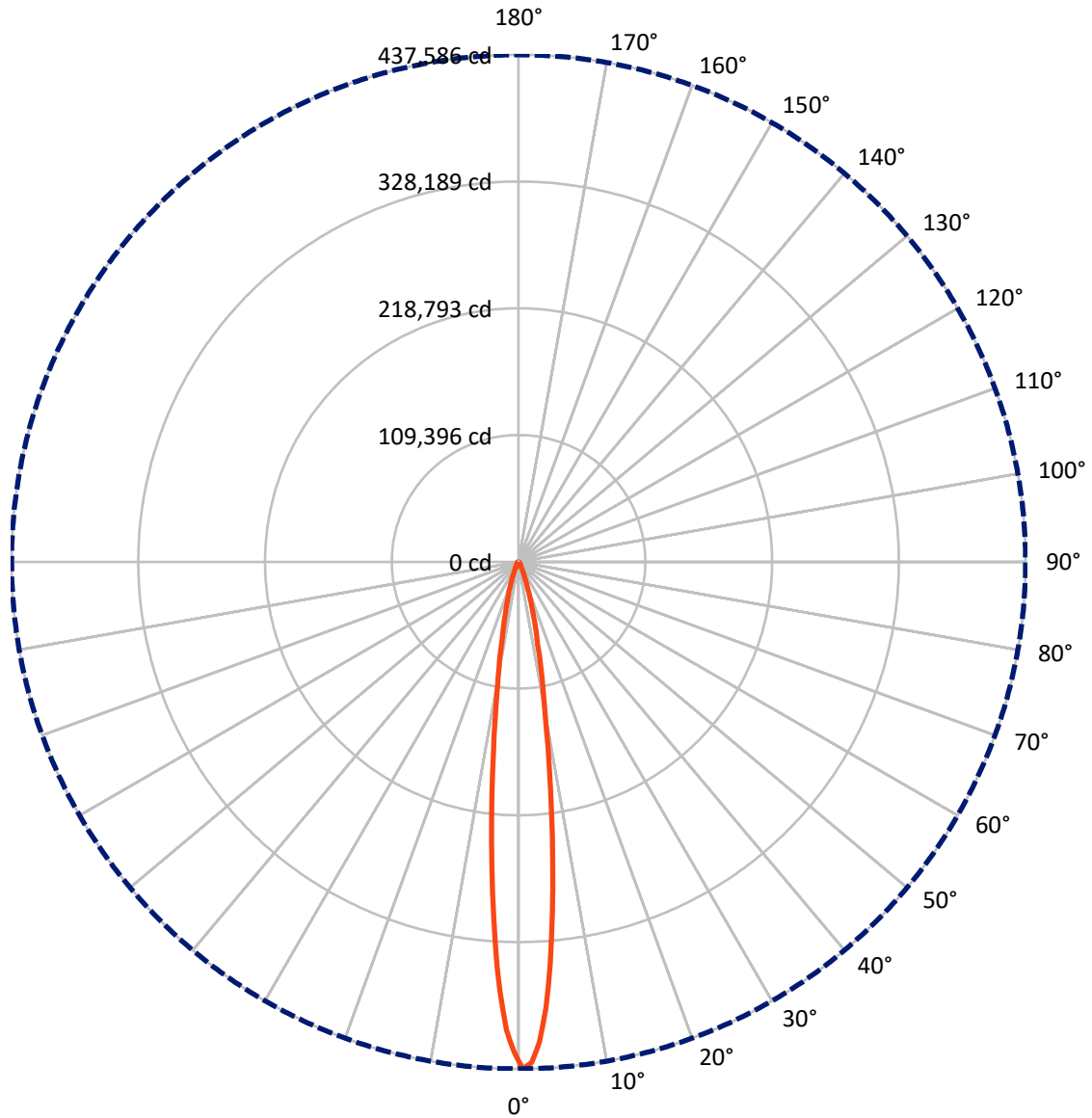
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1094 fc
 Type V - Short - N/A

REPORT NUMBER: P637258
CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637258
 CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22563.0	0.0	22563.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21489.7	0.0	21489.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	44052.6	0.0	44052.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22239.1	50.5
10°-20°	14237.4	32.3
20°-30°	4279.5	9.7
30°-40°	1393.4	3.2
40°-50°	810.7	1.8
50°-60°	538.5	1.2
60°-70°	324.1	0.7
70°-80°	166.6	0.4
80°-90°	63.3	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°	44052.6	100.0
0°-180°	44052.6	100.0

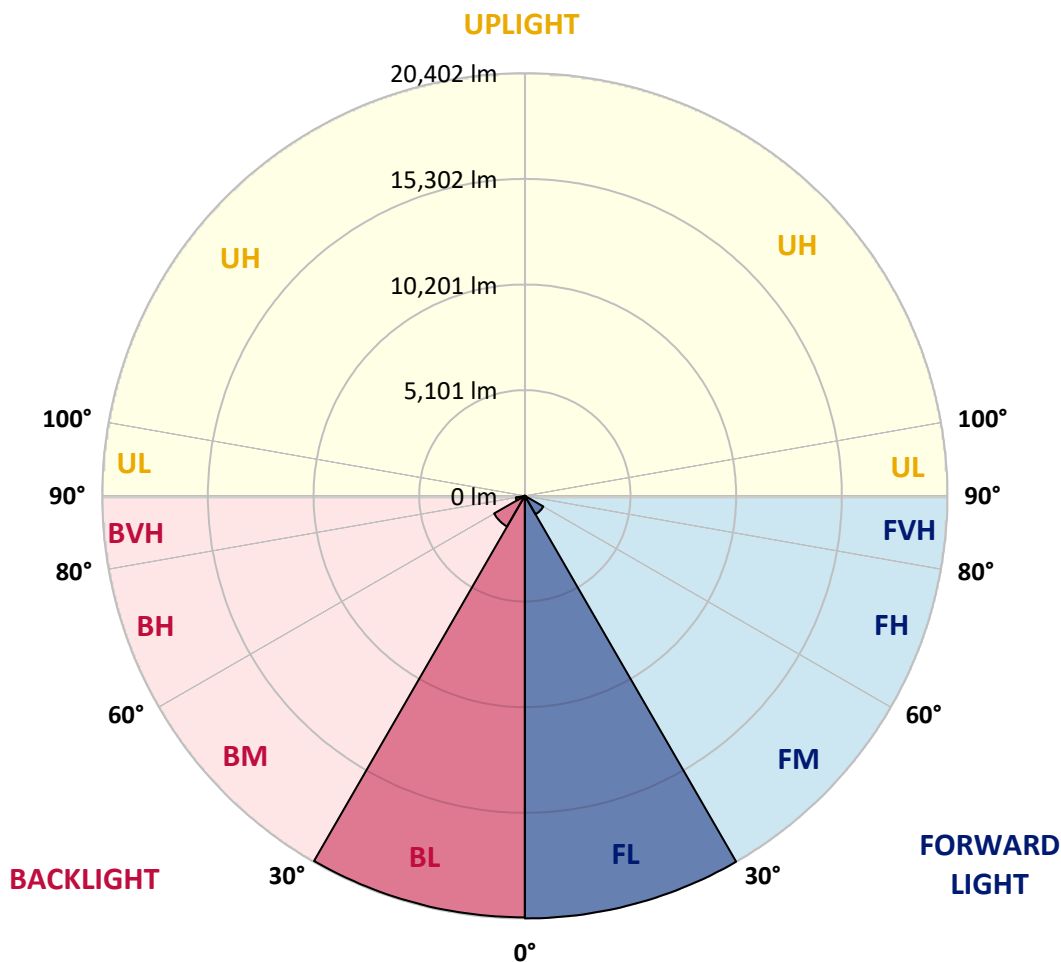


REPORT NUMBER: P637258
 CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20402.1	46.3			
FM (30°-60°)	1029.5	2.3			
FH (60°-80°)	48.5	0.1			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	20353.8	46.2	B5		
BM (30°-60°)	1713.1	3.9	B2/2500		
BH (60°-80°)	442.3	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: P637258
 CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5
1°	432346.1	431026.6	427620.0	430043.0	432173.4	431554.4	431511.2	431280.9	430959.5	433483.2
2°	415063.6	414209.5	409171.6	411249.1	414276.7	412069.6	413451.4	412237.5	412261.5	415274.7
3°	385929.9	386395.3	378358.6	382134.7	386342.5	380992.7	382652.8	385771.6	382504.1	381520.5
4°	348063.8	344023.9	339633.7	343472.1	344561.3	341447.3	344508.5	348327.7	343788.8	343990.3
5°	304833.5	301849.1	296652.9	299023.1	296321.8	297305.4	301892.3	303466.1	300299.4	296312.2
6°	260384.5	258263.8	251767.3	255183.5	254223.9	253667.3	259458.5	254660.5	256387.8	253974.4
7°	216588.1	212624.9	209434.2	212706.5	212917.6	211243.1	218761.6	217888.3	214745.6	214016.3
8°	179446.5	175492.9	172791.6	175229.0	176822.0	174192.6	177728.8	180051.0	177594.4	177815.2
9°	144732.7	144037.0	140280.1	143466.0	145198.1	142381.7	146296.9	147136.5	144838.3	145956.2
10°	118837.7	118026.9	115028.1	116318.8	119188.0	115829.4	119586.2	119859.7	118026.9	118549.8
12.5°	73438.7	73112.4	73030.9	73218.0	73179.6	73774.6	74734.2	73640.2	73496.3	71687.4
15°	47467.0	47951.6	47452.6	48412.2	48551.3	49112.7	48527.3	47644.5	45960.4	45125.5
17.5°	29623.1	30242.0	31096.1	32501.9	33907.7	34070.8	33293.6	32257.2	31441.5	30549.1
20°	17042.6	17344.9	17215.3	18899.5	22536.4	23524.8	22522.0	21432.8	20449.2	19547.2
22.5°	10589.3	10478.9	10680.4	11246.6	12431.7	15488.1	14667.6	13578.4	12863.5	12119.8
25°	6491.7	6611.7	6534.9	6846.8	7379.4	8674.8	8862.0	8391.8	8027.1	7643.3
27.5°	4179.1	4179.1	4212.7	4385.4	4750.1	4706.9	5704.9	5340.2	5143.5	4956.4
30°	2902.8	2912.4	2912.4	3013.2	3094.7	2950.8	3209.9	3680.1	3588.9	3445.0
32.5°	2154.3	2183.1	2207.1	2259.9	2192.7	2039.2	2101.5	2648.5	2595.7	2543.0
35°	1640.9	1664.9	1722.5	1751.3	1655.3	1559.4	1501.8	1948.0	1972.0	1957.6
37.5°	1194.7	1209.1	1314.7	1425.0	1314.7	1228.3	1194.7	1497.0	1612.1	1597.7
40°	916.4	921.2	940.4	1065.2	1065.2	998.0	1007.6	1117.9	1319.5	1319.5
42.5°	786.9	786.9	806.1	786.9	791.7	863.6	887.6	902.0	1117.9	1117.9
45°	681.3	681.3	690.9	642.9	595.0	743.7	762.9	767.7	940.4	964.4
47.5°	571.0	571.0	590.2	527.8	503.8	590.2	642.9	657.3	810.9	830.1
50°	422.2	427.0	484.6	431.8	446.2	455.8	556.6	566.2	686.1	729.3
52.5°	283.1	283.1	292.7	335.9	388.6	374.2	451.0	484.6	547.0	604.6
55°	230.3	230.3	225.5	215.9	287.9	311.9	331.1	403.0	446.2	518.2
57.5°	158.3	167.9	153.5	177.5	187.1	235.1	249.5	316.7	340.7	436.6
60°	19.2	24.0	33.6	129.5	124.7	158.3	187.1	249.5	278.3	335.9
62.5°	4.8	4.8	9.6	24.0	86.4	105.6	148.7	172.7	201.5	259.1
65°	0.0	0.0	4.8	9.6	19.2	57.6	76.8	100.8	143.9	182.3
67.5°	0.0	0.0	4.8	9.6	9.6	24.0	38.4	62.4	76.8	134.3
70°	0.0	0.0	4.8	9.6	9.6	19.2	24.0	28.8	52.8	72.0
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	24.0	24.0	48.0
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	38.4	28.8	14.4	9.6
82.5°	0.0	0.0	9.6	19.2	28.8	38.4	52.8	43.2	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.8	38.4	76.8	52.8	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: P637258

CATALOG NUMBER: IFLD-L-SA8D-830-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
437585.5	0°	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5	437585.5
430570.8	1°	433579.2	433881.5	432893.1	434423.6	433886.3	430738.8	429697.6	428464.5
413504.2	2°	412237.5	413777.7	413854.5	415553.0	415529.0	411858.5	410721.4	412818.1
383516.5	3°	382355.4	384149.8	382532.9	385550.9	384644.0	380191.5	379035.1	381415.0
345583.2	4°	344551.7	344211.0	343654.4	341936.7	344052.7	341015.5	338726.8	341955.9
301599.7	5°	300995.1	300237.0	299152.7	298644.1	300217.8	298274.6	293567.7	298284.2
258340.6	6°	258657.2	255394.6	255236.2	254953.2	255111.5	249670.5	249996.8	253509.0
211507.0	7°	213742.8	214342.6	213119.1	215081.5	213584.5	209899.6	208479.4	212178.7
178784.4	8°	177536.9	176778.8	175843.2	178774.8	176179.0	173760.8	172105.5	175027.5
146138.5	9°	145865.0	144555.2	143605.2	143456.4	143859.5	139320.5	140241.8	142453.6
118837.7	10°	118880.9	116731.4	117254.4	117393.5	116952.1	113977.3	114006.1	114769.0
72886.9	12.5°	72627.8	71572.3	71836.2	71980.1	72877.3	71831.4	70353.6	69288.4
45955.6	15°	45648.5	44890.4	46440.2	47481.3	47270.2	46339.4	45643.7	44679.3
30549.1	17.5°	30266.0	31259.2	31264.0	32214.0	32310.0	31379.1	30841.8	29973.3
19868.7	20°	19796.7	20209.3	21068.2	21739.9	22128.5	21418.4	20775.5	20180.5
12388.5	22.5°	12388.5	13108.2	13645.6	14518.9	14873.9	14355.7	13899.9	13415.3
7734.4	25°	7604.9	8118.3	8564.5	9322.6	9807.2	9557.7	9140.3	8799.6
4994.8	27.5°	5071.5	5287.4	5508.1	6031.1	6534.9	6395.8	6227.8	6021.5
3521.8	30°	3574.5	3593.7	3828.8	4121.5	4457.4	4543.7	4467.0	4361.4
2586.1	32.5°	2634.1	2710.9	2821.2	3003.6	3229.1	3435.4	3397.0	3349.0
1976.8	35°	2034.4	2149.5	2240.7	2379.8	2499.8	2696.5	2730.1	2715.7
1626.5	37.5°	1660.1	1760.9	1852.0	1933.6	2034.4	2168.7	2274.3	2279.1
1343.4	40°	1377.0	1468.2	1588.1	1650.5	1722.5	1823.3	1952.8	1962.4
1137.1	42.5°	1161.1	1247.5	1367.4	1444.2	1497.0	1592.9	1722.5	1741.7
974.0	45°	998.0	1050.8	1175.5	1266.7	1319.5	1381.8	1521.0	1540.2
839.7	47.5°	868.4	921.2	998.0	1127.5	1175.5	1233.1	1343.4	1377.0
743.7	50°	762.9	815.7	882.8	998.0	1070.0	1117.9	1209.1	1257.1
647.7	52.5°	676.5	729.3	801.3	892.4	974.0	1017.2	1103.5	1165.9
527.8	55°	566.2	657.3	710.1	791.7	902.0	940.4	1007.6	1089.2
460.6	57.5°	494.2	571.0	647.7	714.9	825.3	873.2	940.4	1017.2
364.7	60°	417.4	489.4	580.6	638.1	743.7	806.1	878.0	950.0
278.3	62.5°	331.1	427.0	489.4	571.0	671.7	753.3	810.9	882.8
215.9	65°	244.7	350.3	422.2	508.6	604.6	690.9	738.9	815.7
153.5	67.5°	177.5	273.5	359.9	441.4	532.6	618.9	666.9	734.1
96.0	70°	139.1	201.5	297.5	369.4	465.4	537.4	590.2	633.3
62.4	72.5°	81.6	153.5	239.9	321.5	407.8	455.8	494.2	532.6
28.8	75°	52.8	120.0	196.7	268.7	331.1	374.2	407.8	441.4
14.4	77.5°	33.6	86.4	158.3	225.5	254.3	307.1	335.9	355.1
9.6	80°	19.2	67.2	139.1	182.3	206.3	239.9	268.7	292.7
9.6	82.5°	14.4	57.6	115.2	153.5	153.5	191.9	206.3	206.3
4.8	85°	9.6	48.0	91.2	143.9	115.2	143.9	134.3	134.3
4.8	87.5°	9.6	33.6	43.2	62.4	52.8	62.4	62.4	72.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
437585.5
423580.1
403936.9
370844.9
330267.9
285857.3
243327.5
202117.2
166683.7
135544.5
109577.5
68640.7
44185.1
29757.4
19974.2
13156.2
8602.9
5901.6
4289.4
3310.6
2667.7
2245.5
1948.0
1727.3
1535.4
1381.8
1261.9
1165.9
1094.0
1022.0
969.2
916.4
830.1
738.9
647.7
542.2
441.4
345.5
263.9
191.9
129.5
72.0
0.0

(END OF REPORT)