

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: P637254

Luminaire Tested: **IFLD-L-SA7E-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637254
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-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: 44608.8 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

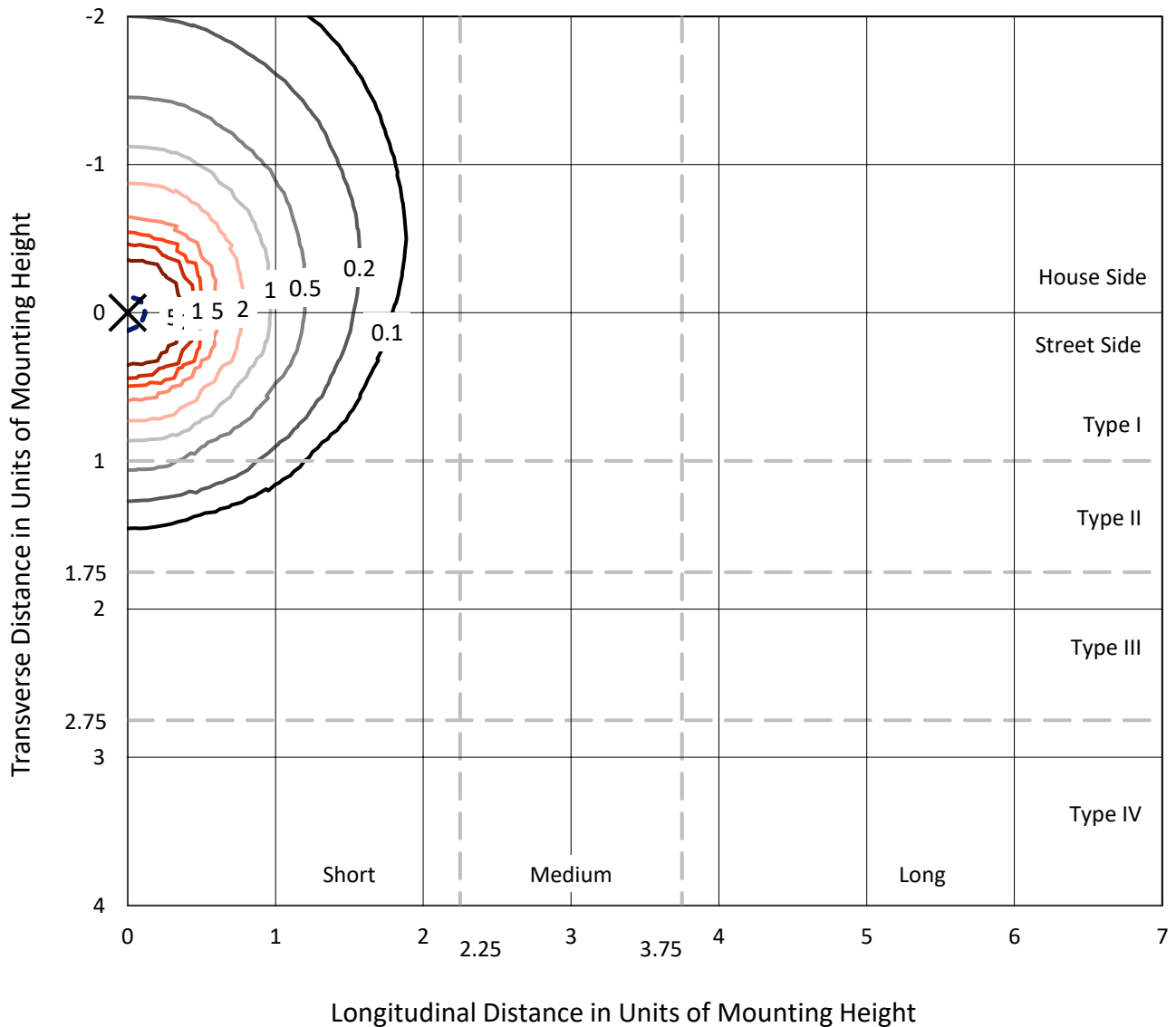
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

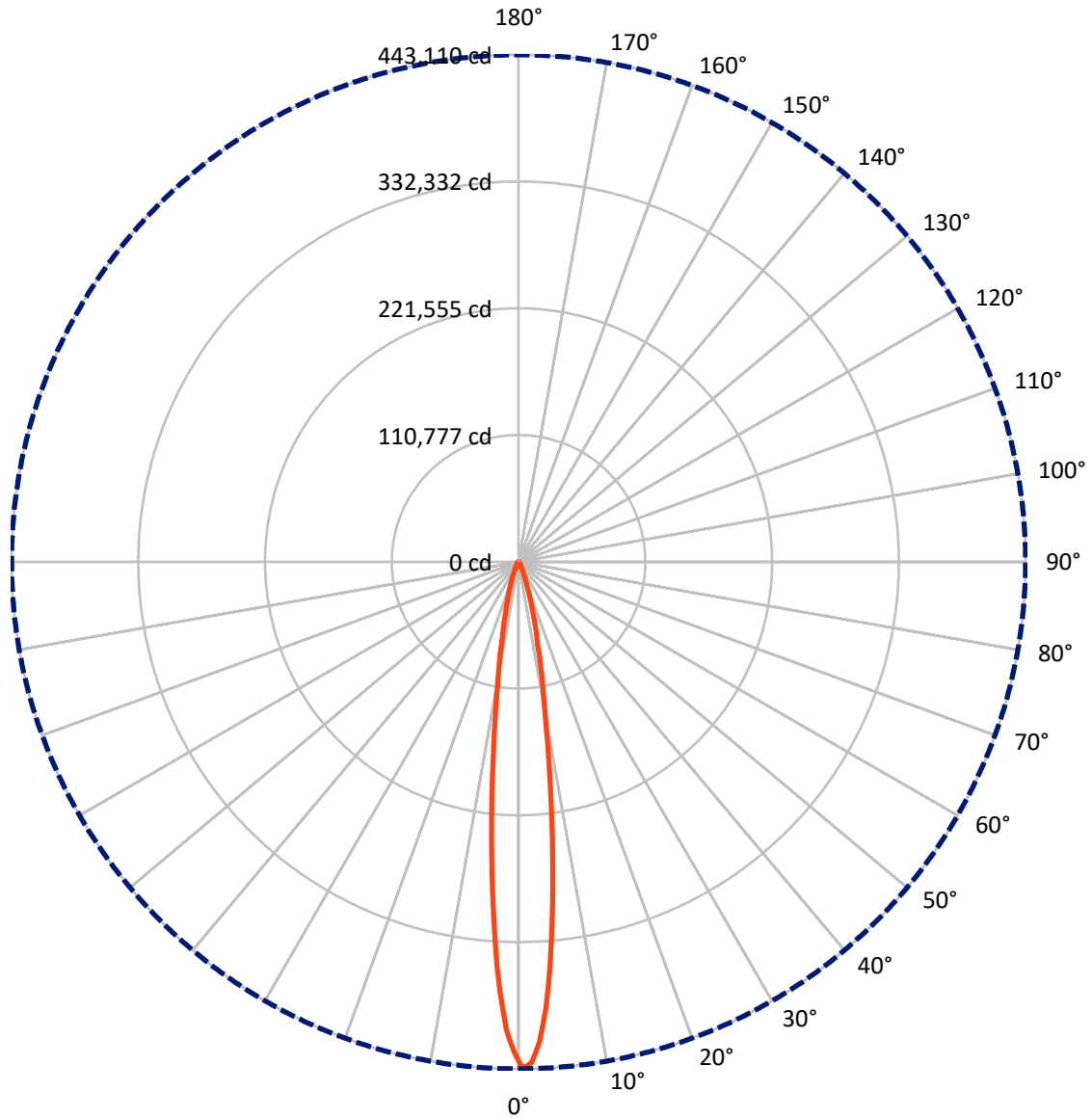
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1107.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22847.8	0.0	22847.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21761.0	0.0	21761.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	44608.8	0.0	44608.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22519.9	50.5
10°-20°	14417.1	32.3
20°-30°	4333.5	9.7
30°-40°	1411.0	3.2
40°-50°	821.0	1.8
50°-60°	545.3	1.2
60°-70°	328.2	0.7
70°-80°	168.7	0.4
80°-90°	64.1	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°	44608.8	100.0
0°-180°	44608.8	100.0

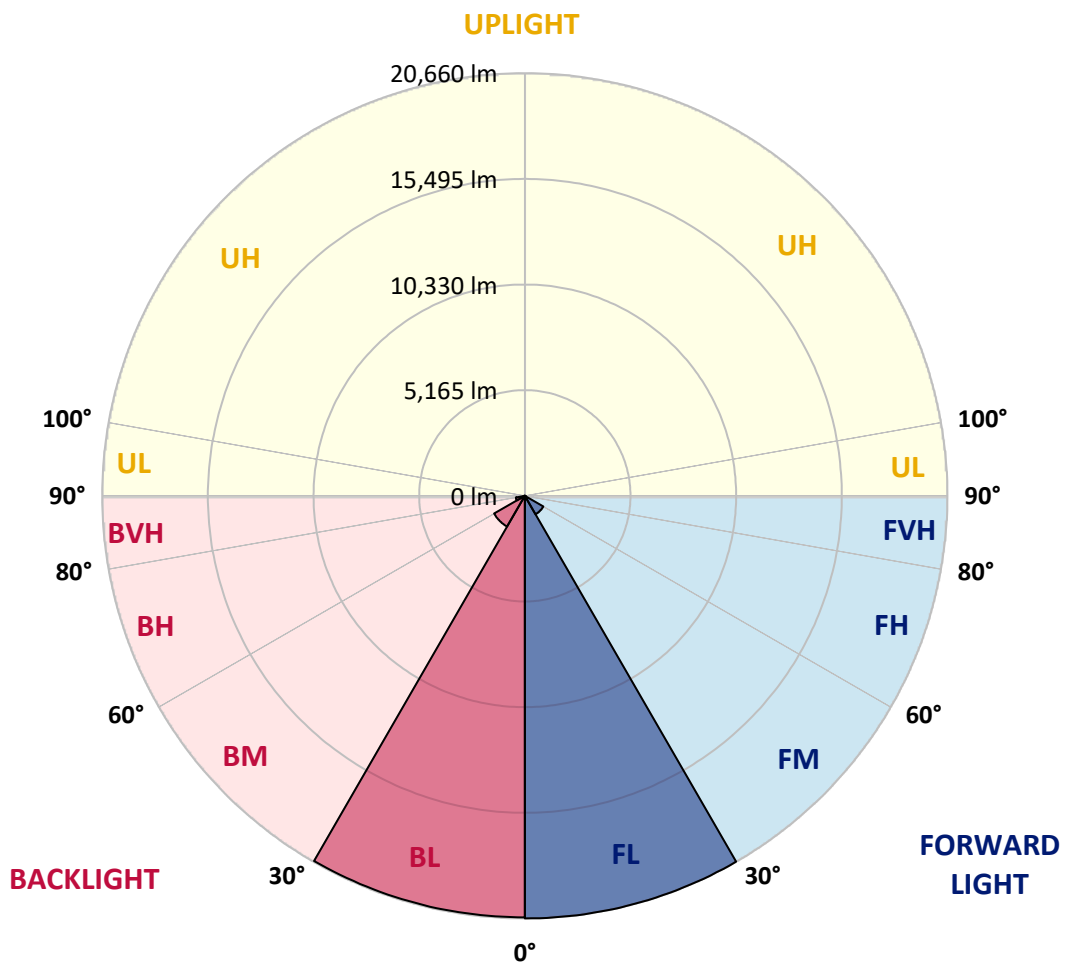


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20659.7	46.3			
FM (30°-60°)	1042.5	2.3			
FH (60°-80°)	49.1	0.1			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	20610.7	46.2	B5		
BM (30°-60°)	1734.7	3.9	B2/2500		
BH (60°-80°)	447.9	1.0	B1/500		G0/660
BVH (80°-90°)	54.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9
1°	437804.3	436468.1	433018.5	435472.1	437629.4	437002.6	436958.9	436725.7	436400.1	438955.8
2°	420303.6	419438.7	414337.2	416441.0	419506.7	417271.8	418671.1	417441.8	417466.1	420517.3
3°	390802.1	391273.4	383135.2	386958.9	391219.9	385802.6	387483.7	390641.8	387333.0	386337.0
4°	352458.0	348367.0	343921.4	347808.3	348911.2	345757.9	348857.7	352725.2	348128.9	348333.0
5°	308681.9	305659.9	300398.0	302798.1	300062.7	301058.8	305703.6	307297.2	304090.5	300053.0
6°	263671.8	261524.3	254945.7	258405.0	257433.3	256869.7	262734.1	257875.5	259624.5	257180.7
7°	219322.4	215309.2	212078.2	215391.8	215605.6	213909.9	221523.3	220639.1	217456.7	216718.2
8°	181711.9	177708.4	174973.0	177441.2	179054.3	176391.7	179972.5	182324.1	179836.5	180060.0
9°	146559.9	145855.4	142051.1	145277.2	147031.2	144179.2	148143.8	148994.1	146666.8	147798.8
10°	120338.0	119516.9	116480.3	117787.2	120692.7	117291.6	121095.9	121372.9	119516.9	120046.5
12.5°	74365.8	74035.5	73952.9	74142.4	74103.5	74705.9	75677.7	74569.9	74424.1	72592.5
15°	48066.2	48556.9	48051.6	49023.3	49164.2	49732.7	49140.0	48246.0	46540.6	45695.2
17.5°	29997.0	30623.8	31488.6	32912.2	34335.8	34501.0	33713.9	32664.4	31838.5	30934.8
20°	17257.8	17563.9	17432.7	19138.1	22820.9	23821.8	22806.3	21703.4	20707.4	19794.0
22.5°	10722.9	10611.2	10815.3	11388.6	12588.7	15683.6	14852.8	13749.9	13025.9	12272.8
25°	6573.7	6695.2	6617.4	6933.2	7472.5	8784.4	8973.8	8497.7	8128.5	7739.8
27.5°	4231.8	4231.8	4265.9	4440.8	4810.0	4766.3	5776.9	5407.6	5208.4	5018.9
30°	2939.5	2949.2	2949.2	3051.2	3133.8	2988.0	3250.4	3726.6	3634.2	3488.5
32.5°	2181.5	2210.7	2235.0	2288.4	2220.4	2064.9	2128.1	2682.0	2628.5	2575.1
35°	1661.6	1685.9	1744.2	1773.4	1676.2	1579.0	1520.7	1972.6	1996.9	1982.3
37.5°	1209.8	1224.4	1331.3	1443.0	1331.3	1243.8	1209.8	1515.9	1632.5	1617.9
40°	928.0	932.9	952.3	1078.6	1078.6	1010.6	1020.3	1132.1	1336.1	1336.1
42.5°	796.8	796.8	816.2	796.8	801.7	874.5	898.8	913.4	1132.1	1132.1
45°	689.9	689.9	699.6	651.1	602.5	753.1	772.5	777.4	952.3	976.6
47.5°	578.2	578.2	597.6	534.4	510.2	597.6	651.1	665.6	821.1	840.5
50°	427.6	432.4	490.7	437.3	451.9	461.6	563.6	573.3	694.8	738.5
52.5°	286.7	286.7	296.4	340.1	393.5	379.0	456.7	490.7	553.9	612.2
55°	233.2	233.2	228.4	218.6	291.5	315.8	335.2	408.1	451.9	524.7
57.5°	160.3	170.1	155.5	179.8	189.5	238.1	252.6	320.7	345.0	442.1
60°	19.4	24.3	34.0	131.2	126.3	160.3	189.5	252.6	281.8	340.1
62.5°	4.9	4.9	9.7	24.3	87.5	106.9	150.6	174.9	204.1	262.4
65°	0.0	0.0	4.9	9.7	19.4	58.3	77.7	102.0	145.8	184.6
67.5°	0.0	0.0	4.9	9.7	9.7	24.3	38.9	63.2	77.7	136.0
70°	0.0	0.0	4.9	9.7	9.7	19.4	24.3	29.2	53.4	72.9
72.5°	0.0	0.0	4.9	9.7	14.6	19.4	24.3	24.3	24.3	48.6
75°	0.0	0.0	4.9	9.7	14.6	19.4	24.3	24.3	19.4	19.4
77.5°	0.0	0.0	4.9	9.7	19.4	24.3	29.2	24.3	14.6	14.6
80°	0.0	0.0	4.9	14.6	24.3	34.0	38.9	29.2	14.6	9.7
82.5°	0.0	0.0	9.7	19.4	29.2	38.9	53.4	43.7	19.4	9.7
85°	0.0	0.0	4.9	14.6	29.2	38.9	77.7	53.4	24.3	4.9
87.5°	0.0	0.0	0.0	4.9	4.9	9.7	29.2	19.4	9.7	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
443109.9	0°	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9	443109.9
436006.6	1°	439052.9	439359.0	438358.1	439908.0	439363.9	436176.6	435122.3	433873.6
418724.5	2°	417441.8	419001.5	419079.2	420799.1	420774.8	417058.0	415906.5	418029.7
388358.2	3°	387182.4	388999.5	387362.2	390418.3	389500.0	384991.2	383820.3	386230.1
349946.1	4°	348901.5	348556.5	347992.9	346253.5	348396.2	345320.7	343003.1	346273.0
305407.2	5°	304795.0	304027.4	302929.3	302414.3	304007.9	302040.2	297273.9	302049.9
261602.0	6°	261922.7	258618.8	258458.5	258171.8	258332.2	252822.5	253152.9	256709.4
214177.1	7°	216441.2	217048.6	215809.6	217796.8	216280.9	212549.5	211111.4	214857.3
181041.4	8°	179778.2	179010.5	178063.1	181031.7	178403.2	175954.5	174278.3	177237.1
147983.5	9°	147706.5	146380.1	145418.1	145267.5	145675.6	141079.4	142012.2	144252.1
120338.0	10°	120381.7	118205.1	118734.6	118875.5	118428.6	115416.2	115445.4	116217.9
73807.1	12.5°	73544.7	72475.8	72743.1	72888.8	73797.4	72738.2	71241.8	70163.2
46535.7	15°	46224.8	45457.1	47026.5	48080.8	47867.0	46924.4	46219.9	45243.4
30934.8	17.5°	30648.1	31653.8	31658.7	32620.7	32717.9	31775.3	31231.1	30351.7
20119.5	20°	20046.6	20464.5	21334.1	22014.4	22407.9	21688.8	21037.8	20435.3
12544.9	22.5°	12544.9	13273.7	13817.9	14702.1	15061.7	14537.0	14075.4	13584.7
7832.1	25°	7700.9	8220.8	8672.6	9440.3	9931.0	9678.3	9255.6	8910.7
5057.8	27.5°	5135.5	5354.2	5577.7	6107.3	6617.4	6476.5	6306.5	6097.6
3566.2	30°	3619.7	3639.1	3877.2	4173.5	4513.6	4601.1	4523.4	4416.5
2618.8	32.5°	2667.4	2745.1	2856.9	3041.5	3269.8	3478.8	3439.9	3391.3
2001.7	35°	2060.0	2176.7	2269.0	2409.9	2531.3	2730.5	2764.5	2750.0
1647.1	37.5°	1681.1	1783.1	1875.4	1958.0	2060.0	2196.1	2303.0	2307.8
1360.4	40°	1394.4	1486.7	1608.2	1671.4	1744.2	1846.3	1977.5	1987.2
1151.5	42.5°	1175.8	1263.2	1384.7	1462.4	1515.9	1613.1	1744.2	1763.7
986.3	45°	1010.6	1064.0	1190.4	1282.7	1336.1	1399.3	1540.2	1559.6
850.3	47.5°	879.4	932.9	1010.6	1141.8	1190.4	1248.7	1360.4	1394.4
753.1	50°	772.5	826.0	894.0	1010.6	1083.5	1132.1	1224.4	1273.0
655.9	52.5°	685.1	738.5	811.4	903.7	986.3	1030.0	1117.5	1180.6
534.4	55°	573.3	665.6	719.1	801.7	913.4	952.3	1020.3	1102.9
466.4	57.5°	500.4	578.2	655.9	723.9	835.7	884.3	952.3	1030.0
369.3	60°	422.7	495.6	587.9	646.2	753.1	816.2	889.1	962.0
281.8	62.5°	335.2	432.4	495.6	578.2	680.2	762.8	821.1	894.0
218.6	65°	247.8	354.7	427.6	515.0	612.2	699.6	748.2	826.0
155.5	67.5°	179.8	276.9	364.4	447.0	539.3	626.8	675.3	743.4
97.2	70°	140.9	204.1	301.2	374.1	471.3	544.2	597.6	641.3
63.2	72.5°	82.6	155.5	242.9	325.5	413.0	461.6	500.4	539.3
29.2	75°	53.4	121.5	199.2	272.1	335.2	379.0	413.0	447.0
14.6	77.5°	34.0	87.5	160.3	228.4	257.5	311.0	340.1	359.5
9.7	80°	19.4	68.0	140.9	184.6	208.9	242.9	272.1	296.4
9.7	82.5°	14.6	58.3	116.6	155.5	155.5	194.3	208.9	208.9
4.9	85°	9.7	48.6	92.3	145.8	116.6	145.8	136.0	136.0
4.9	87.5°	9.7	34.0	43.7	63.2	53.4	63.2	63.2	72.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
443109.9
428927.6
409036.4
375526.6
334437.4
289466.1
246399.4
204668.8
168788.0
137255.7
110960.9
69507.2
44742.9
30133.1
20226.4
13322.3
8711.5
5976.1
4343.6
3352.4
2701.4
2273.8
1972.6
1749.1
1554.8
1399.3
1277.8
1180.6
1107.8
1034.9
981.4
928.0
840.5
748.2
655.9
549.0
447.0
349.8
267.2
194.3
131.2
72.9
0.0

(END OF REPORT)