

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: P637233

Luminaire Tested: **IFLD-S-SA2D-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637233
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12358.6 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

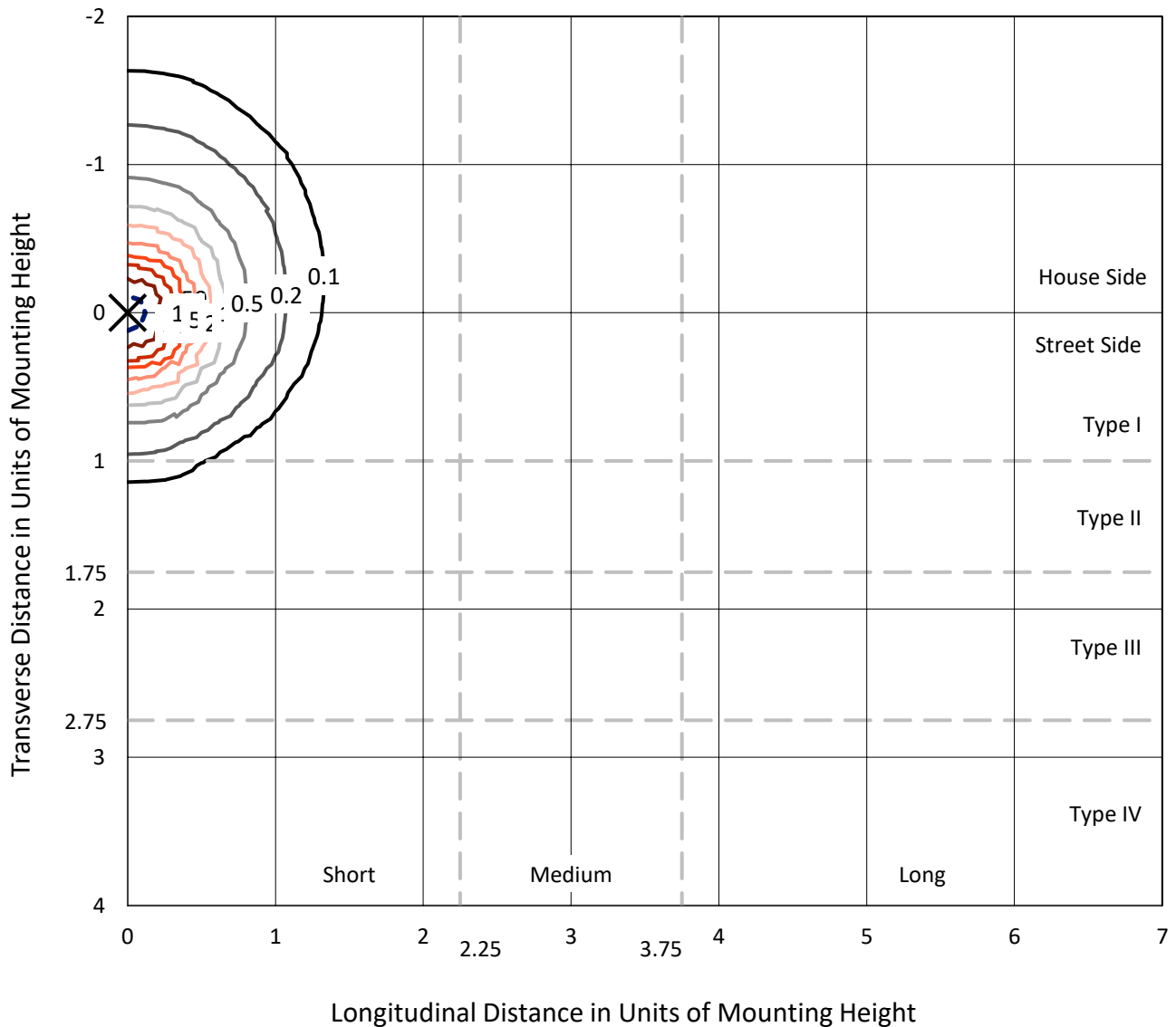
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

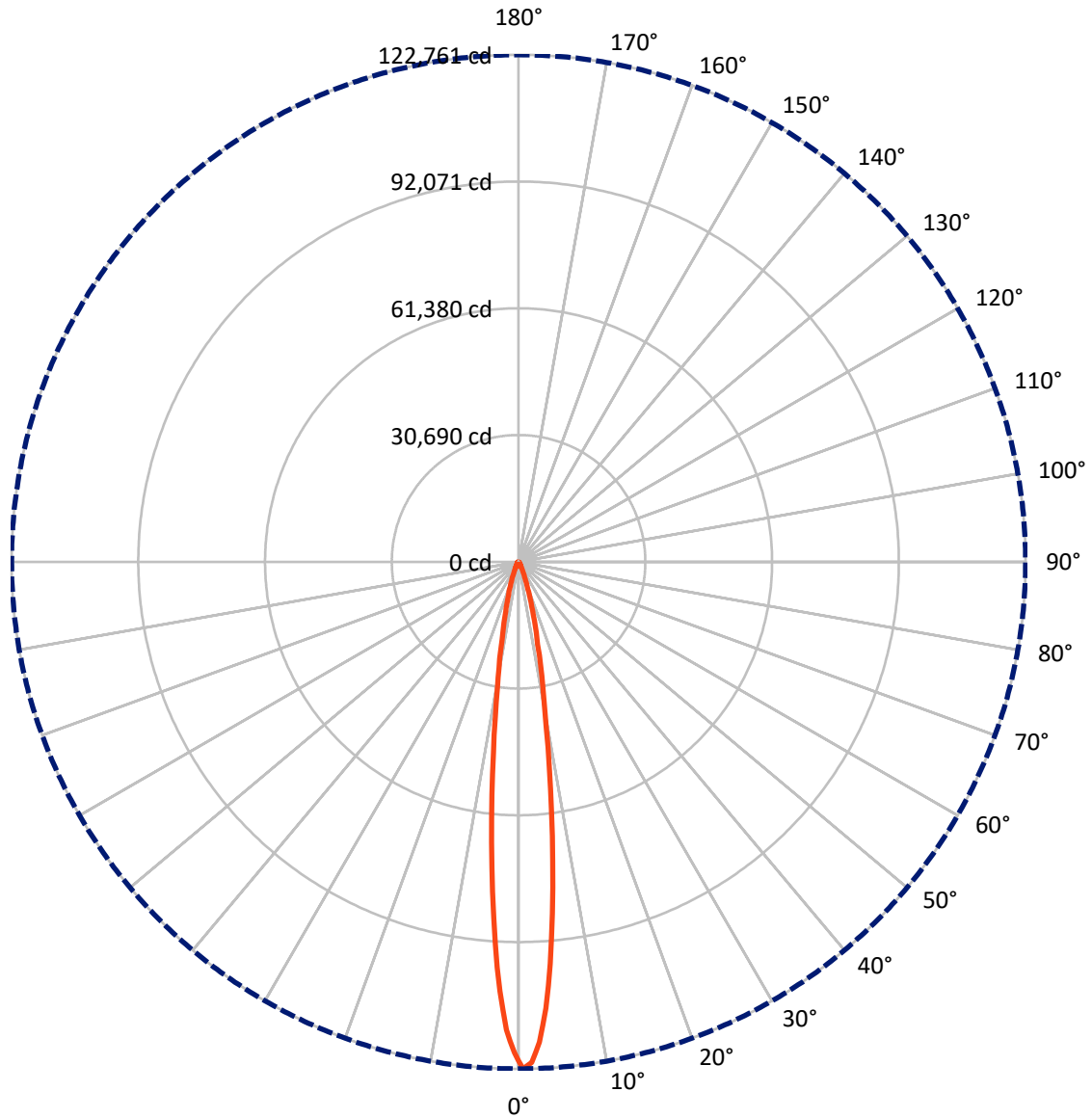
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 306.9 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	6329.8	0.0	6329.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6028.7	0.0	6028.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	12358.6	0.0	12358.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6239.0	50.5
10°-20°	3994.2	32.3
20°-30°	1200.6	9.7
30°-40°	390.9	3.2
40°-50°	227.4	1.8
50°-60°	151.1	1.2
60°-70°	90.9	0.7
70°-80°	46.7	0.4
80°-90°	17.8	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°	12358.6	100.0
0°-180°	12358.6	100.0

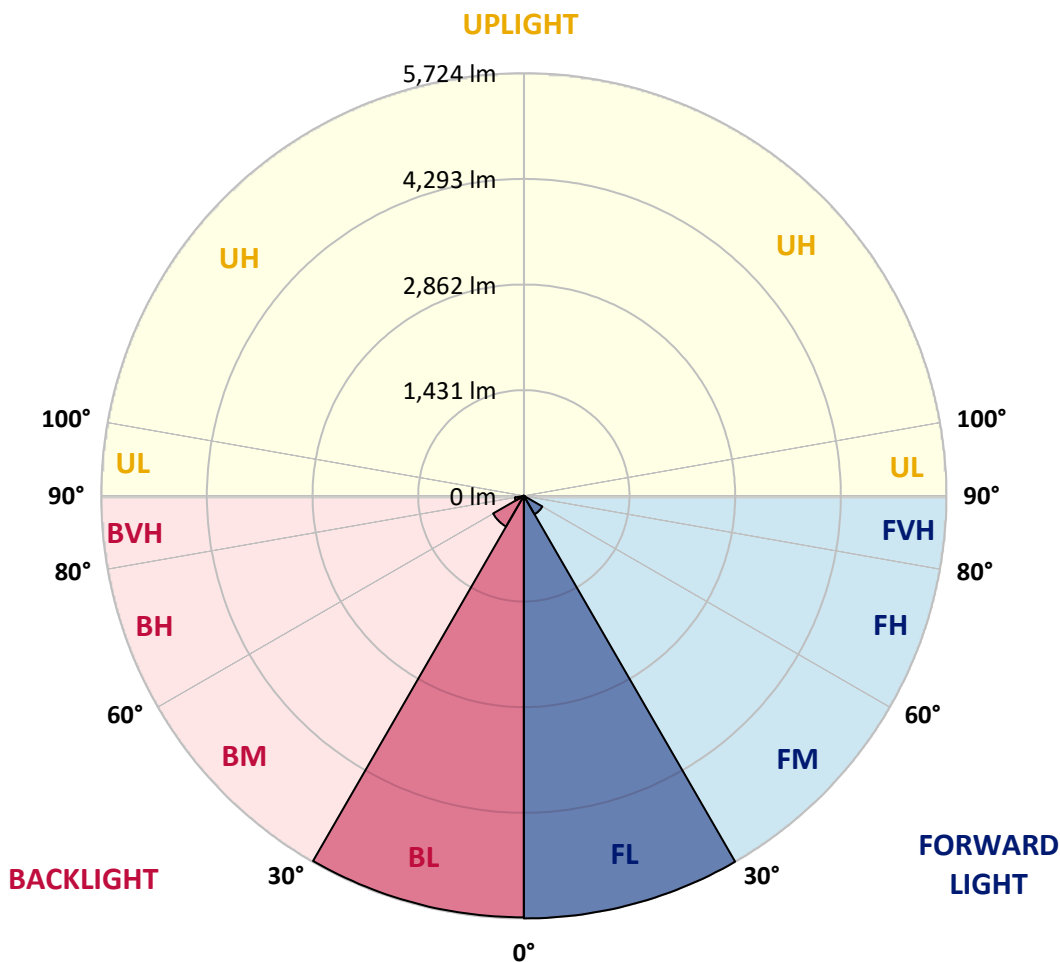


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5723.6	46.3			
FM (30°-60°)	288.8	2.3			
FH (60°-80°)	13.6	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	5710.1	46.2	B5		
BM (30°-60°)	480.6	3.9	B1/1000		
BH (60°-80°)	124.1	1.0	B1/500		G0/660
BVH (80°-90°)	15.1	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°	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9
1°	121291.0	120920.8	119965.1	120644.9	121242.5	121068.9	121056.8	120992.2	120902.0	121610.0
2°	116442.5	116202.9	114789.6	115372.4	116221.8	115602.6	115990.2	115649.7	115656.4	116501.7
3°	108269.3	108399.9	106145.3	107204.6	108385.1	106884.2	107350.0	108224.9	107308.2	107032.3
4°	97646.3	96512.9	95281.3	96358.1	96663.7	95790.1	96648.9	97720.3	96447.0	96503.5
5°	85518.4	84681.2	83223.4	83888.4	83130.5	83406.5	84693.3	85134.8	84246.4	83127.8
6°	73048.6	72453.7	70631.1	71589.5	71320.3	71164.2	72788.9	71442.8	71927.4	71250.3
7°	60761.9	59650.1	58755.0	59673.0	59732.2	59262.4	61371.7	61126.7	60245.0	60040.4
8°	50342.2	49233.0	48475.2	49159.0	49605.9	48868.2	49860.3	50511.8	49822.6	49884.5
9°	40603.5	40408.3	39354.4	40248.2	40734.1	39944.0	41042.3	41277.9	40633.1	40946.8
10°	33338.9	33111.4	32270.1	32632.2	33437.2	32494.9	33548.9	33625.6	33111.4	33258.1
12.5°	20602.6	20511.1	20488.2	20540.7	20529.9	20696.8	20966.0	20659.1	20618.8	20111.3
15°	13316.4	13452.4	13312.4	13581.6	13620.7	13778.1	13613.9	13366.2	12893.8	12659.6
17.5°	8310.5	8484.1	8723.7	9118.1	9512.5	9558.3	9340.2	9049.5	8820.6	8570.3
20°	4781.2	4866.0	4829.6	5302.1	6322.4	6599.7	6318.3	6012.8	5736.9	5483.8
22.5°	2970.7	2939.8	2996.3	3155.1	3487.6	4345.0	4114.9	3809.3	3608.8	3400.1
25°	1821.2	1854.9	1833.3	1920.8	2070.2	2433.7	2486.1	2354.2	2251.9	2144.3
27.5°	1172.4	1172.4	1181.8	1230.3	1332.6	1320.5	1600.5	1498.2	1443.0	1390.5
30°	814.4	817.1	817.1	845.3	868.2	827.8	900.5	1032.4	1006.8	966.5
32.5°	604.4	612.5	619.2	634.0	615.1	572.1	589.6	743.0	728.2	713.4
35°	460.3	467.1	483.2	491.3	464.4	437.5	421.3	546.5	553.2	549.2
37.5°	335.2	339.2	368.8	399.8	368.8	344.6	335.2	420.0	452.3	448.2
40°	257.1	258.4	263.8	298.8	298.8	280.0	282.7	313.6	370.2	370.2
42.5°	220.8	220.8	226.1	220.8	222.1	242.3	249.0	253.1	313.6	313.6
45°	191.1	191.1	193.8	180.4	166.9	208.6	214.0	215.4	263.8	270.6
47.5°	160.2	160.2	165.6	148.1	141.3	165.6	180.4	184.4	227.5	232.9
50°	118.5	119.8	136.0	121.1	125.2	127.9	156.1	158.8	192.5	204.6
52.5°	79.4	79.4	82.1	94.2	109.0	105.0	126.5	136.0	153.4	169.6
55°	64.6	64.6	63.3	60.6	80.8	87.5	92.9	113.1	125.2	145.4
57.5°	44.4	47.1	43.1	49.8	52.5	66.0	70.0	88.8	95.6	122.5
60°	5.4	6.7	9.4	36.3	35.0	44.4	52.5	70.0	78.1	94.2
62.5°	1.3	1.3	2.7	6.7	24.2	29.6	41.7	48.5	56.5	72.7
65°	0.0	0.0	1.3	2.7	5.4	16.2	21.5	28.3	40.4	51.1
67.5°	0.0	0.0	1.3	2.7	2.7	6.7	10.8	17.5	21.5	37.7
70°	0.0	0.0	1.3	2.7	2.7	5.4	6.7	8.1	14.8	20.2
72.5°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	6.7	6.7	13.5
75°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	6.7	5.4	5.4
77.5°	0.0	0.0	1.3	2.7	5.4	6.7	8.1	6.7	4.0	4.0
80°	0.0	0.0	1.3	4.0	6.7	9.4	10.8	8.1	4.0	2.7
82.5°	0.0	0.0	2.7	5.4	8.1	10.8	14.8	12.1	5.4	2.7
85°	0.0	0.0	1.3	4.0	8.1	10.8	21.5	14.8	6.7	1.3
87.5°	0.0	0.0	0.0	1.3	1.3	2.7	8.1	5.4	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637233
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
122760.9	0°	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9	122760.9
120792.9	1°	121636.9	121721.7	121444.4	121873.8	121723.1	120840.1	120548.0	120202.0	119704.0
116005.1	2°	115649.7	116081.8	116103.3	116579.8	116573.1	115543.4	115224.3	115812.6	114664.4
107592.3	3°	107266.5	107769.9	107316.3	108163.0	107908.6	106659.4	106335.0	107002.7	106168.1
96950.4	4°	96661.0	96565.4	96409.3	95927.4	96521.0	95669.0	95026.9	95932.8	94147.9
84611.2	5°	84441.6	84228.9	83924.7	83782.0	84223.5	83678.4	82357.9	83681.1	80497.7
72475.2	6°	72564.1	71648.8	71604.3	71524.9	71569.3	70042.9	70134.4	71119.8	68470.7
59336.5	7°	59963.7	60132.0	59788.7	60339.3	59919.3	58885.5	58487.1	59524.9	57652.6
50156.4	8°	49806.4	49593.8	49331.3	50153.7	49425.5	48747.1	48282.7	49102.5	47712.0
40997.9	9°	40921.2	40553.7	40287.2	40245.5	40358.5	39085.2	39343.6	39964.1	39126.9
33338.9	10°	33351.0	32748.0	32894.7	32933.7	32809.9	31975.4	31983.4	32197.5	31190.6
20447.8	12.5°	20375.1	20079.0	20153.0	20193.4	20445.1	20151.7	19737.1	19438.3	19287.5
12892.4	15°	12806.3	12593.6	13028.4	13320.5	13261.3	13000.1	12804.9	12534.4	12316.3
8570.3	17.5°	8490.9	8769.5	8770.8	9037.4	9064.3	8803.1	8652.4	8408.8	8419.5
5574.0	20°	5553.8	5669.6	5910.5	6098.9	6208.0	6008.8	5828.4	5661.5	5591.5
3475.5	22.5°	3475.5	3677.4	3828.2	4073.1	4172.7	4027.4	3899.5	3763.5	3680.1
2169.8	25°	2133.5	2277.5	2402.7	2615.4	2751.3	2681.3	2564.2	2468.7	2424.2
1401.2	27.5°	1422.8	1483.3	1545.3	1692.0	1833.3	1794.3	1747.2	1689.3	1669.1
988.0	30°	1002.8	1008.2	1074.1	1156.3	1250.5	1274.7	1253.2	1223.6	1200.7
725.5	32.5°	739.0	760.5	791.5	842.6	905.9	963.8	953.0	939.5	928.8
554.6	35°	570.7	603.0	628.6	667.6	701.3	756.5	765.9	761.9	753.8
456.3	37.5°	465.7	494.0	519.6	542.5	570.7	608.4	638.0	639.4	631.3
376.9	40°	386.3	411.9	445.5	463.0	483.2	511.5	547.8	550.5	547.8
319.0	42.5°	325.7	350.0	383.6	405.2	420.0	446.9	483.2	488.6	483.2
273.2	45°	280.0	294.8	329.8	355.4	370.2	387.7	426.7	432.1	430.7
235.6	47.5°	243.6	258.4	280.0	316.3	329.8	345.9	376.9	386.3	386.3
208.6	50°	214.0	228.8	247.7	280.0	300.2	313.6	339.2	352.7	352.7
181.7	52.5°	189.8	204.6	224.8	250.4	273.2	285.4	309.6	327.1	327.1
148.1	55°	158.8	184.4	199.2	222.1	253.1	263.8	282.7	305.6	305.6
129.2	57.5°	138.6	160.2	181.7	200.6	231.5	245.0	263.8	285.4	288.1
102.3	60°	117.1	137.3	162.9	179.0	208.6	226.1	246.3	266.5	271.9
78.1	62.5°	92.9	119.8	137.3	160.2	188.4	211.3	227.5	247.7	255.7
60.6	65°	68.6	98.3	118.5	142.7	169.6	193.8	207.3	228.8	234.2
43.1	67.5°	49.8	76.7	101.0	123.8	149.4	173.6	187.1	205.9	210.0
26.9	70°	39.0	56.5	83.5	103.6	130.6	150.8	165.6	177.7	181.7
17.5	72.5°	22.9	43.1	67.3	90.2	114.4	127.9	138.6	149.4	152.1
8.1	75°	14.8	33.7	55.2	75.4	92.9	105.0	114.4	123.8	125.2
4.0	77.5°	9.4	24.2	44.4	63.3	71.3	86.1	94.2	99.6	96.9
2.7	80°	5.4	18.8	39.0	51.1	57.9	67.3	75.4	82.1	75.4
2.7	82.5°	4.0	16.2	32.3	43.1	43.1	53.8	57.9	57.9	55.2
1.3	85°	2.7	13.5	25.6	40.4	32.3	40.4	37.7	37.7	37.7
1.3	87.5°	2.7	9.4	12.1	17.5	14.8	17.5	17.5	20.2	20.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
122760.9
118831.8
113321.0
104037.3
92653.8
80194.8
68263.4
56702.2
46761.7
38025.8
30741.0
19256.6
12395.7
8348.2
5603.6
3690.9
2413.5
1655.6
1203.4
928.8
748.4
630.0
546.5
484.6
430.7
387.7
354.0
327.1
306.9
286.7
271.9
257.1
232.9
207.3
181.7
152.1
123.8
96.9
74.0
53.8
36.3
20.2
0.0

(END OF REPORT)