

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: P637490

Luminaire Tested: **IFLD-L-SA8D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637490
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39524.6 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

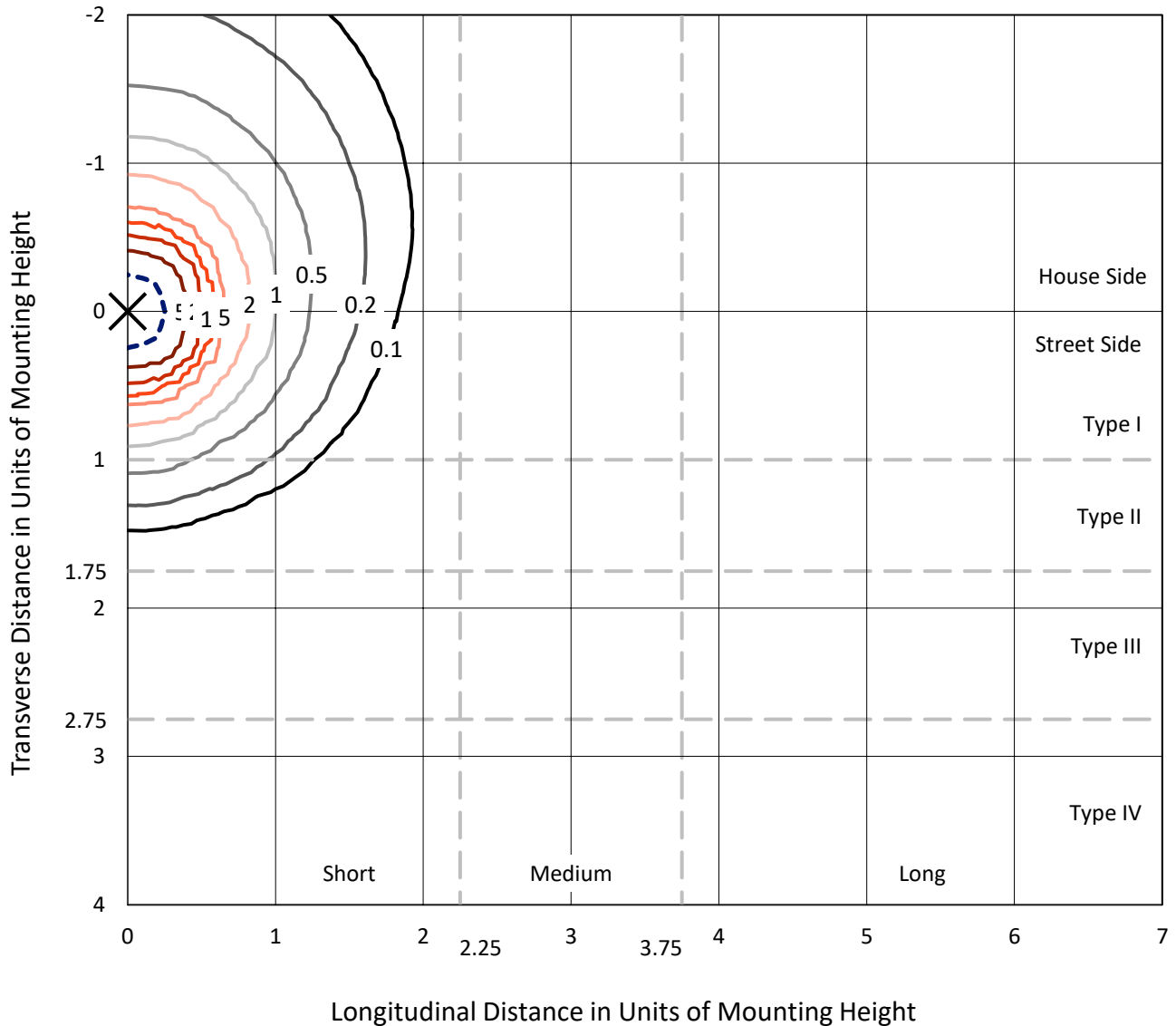
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

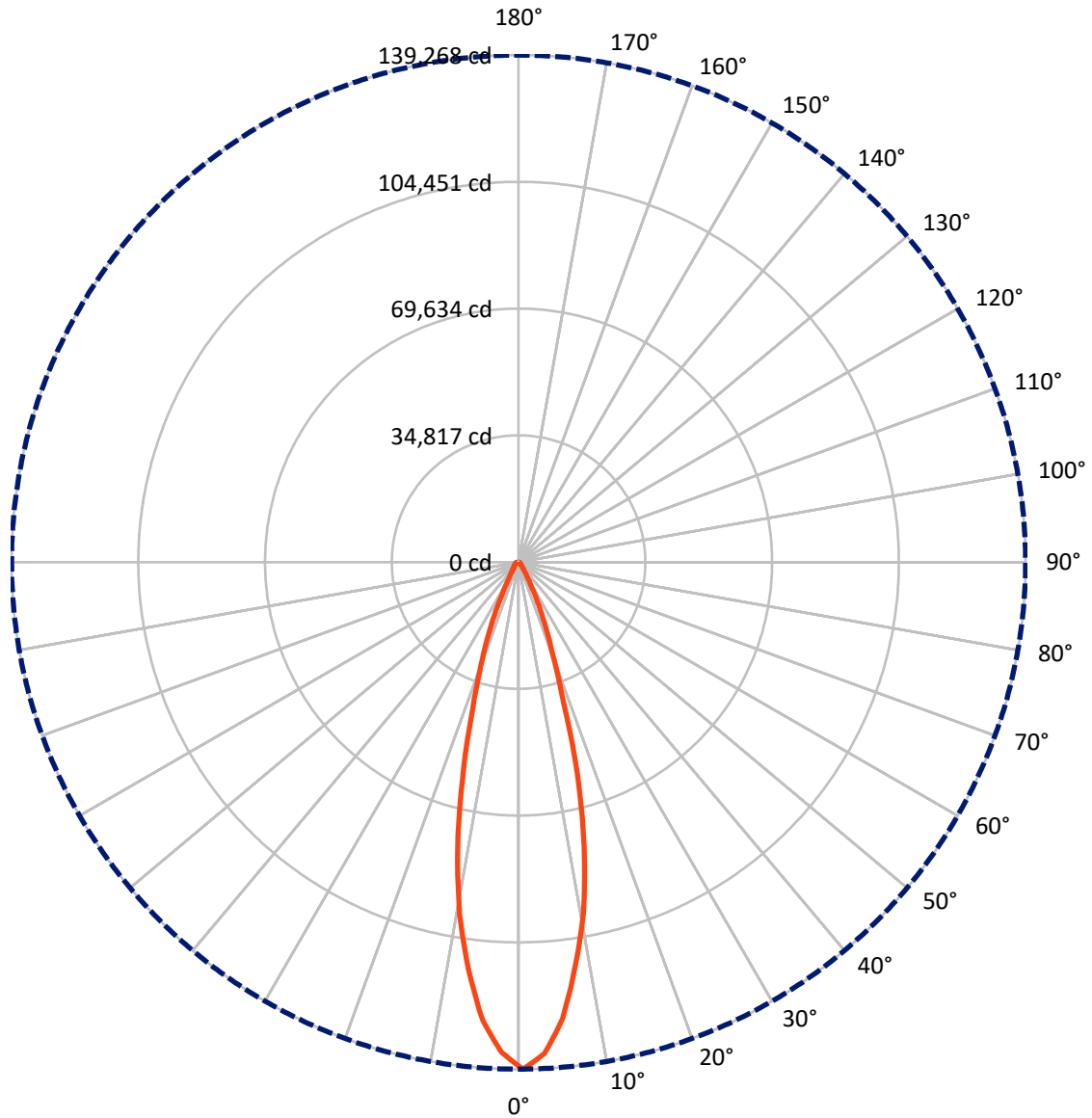
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 348.2 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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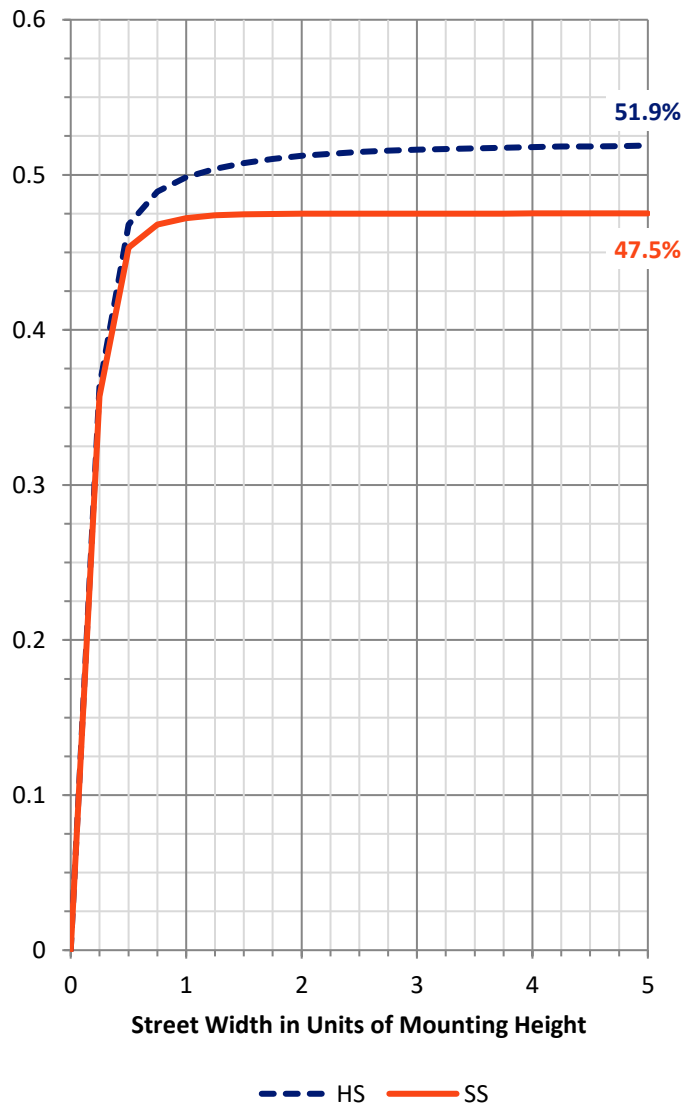
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20840.0	0.0	20840.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18684.6	0.0	18684.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	39524.6	0.0	39524.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11240.1	28.4
10°-20°	17023.1	43.1
20°-30°	7183.8	18.2
30°-40°	1873.6	4.7
40°-50°	947.6	2.4
50°-60°	619.4	1.6
60°-70°	371.1	0.9
70°-80°	195.2	0.5
80°-90°	70.5	0.2
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°	39524.6	100.0
0°-180°	39524.6	100.0



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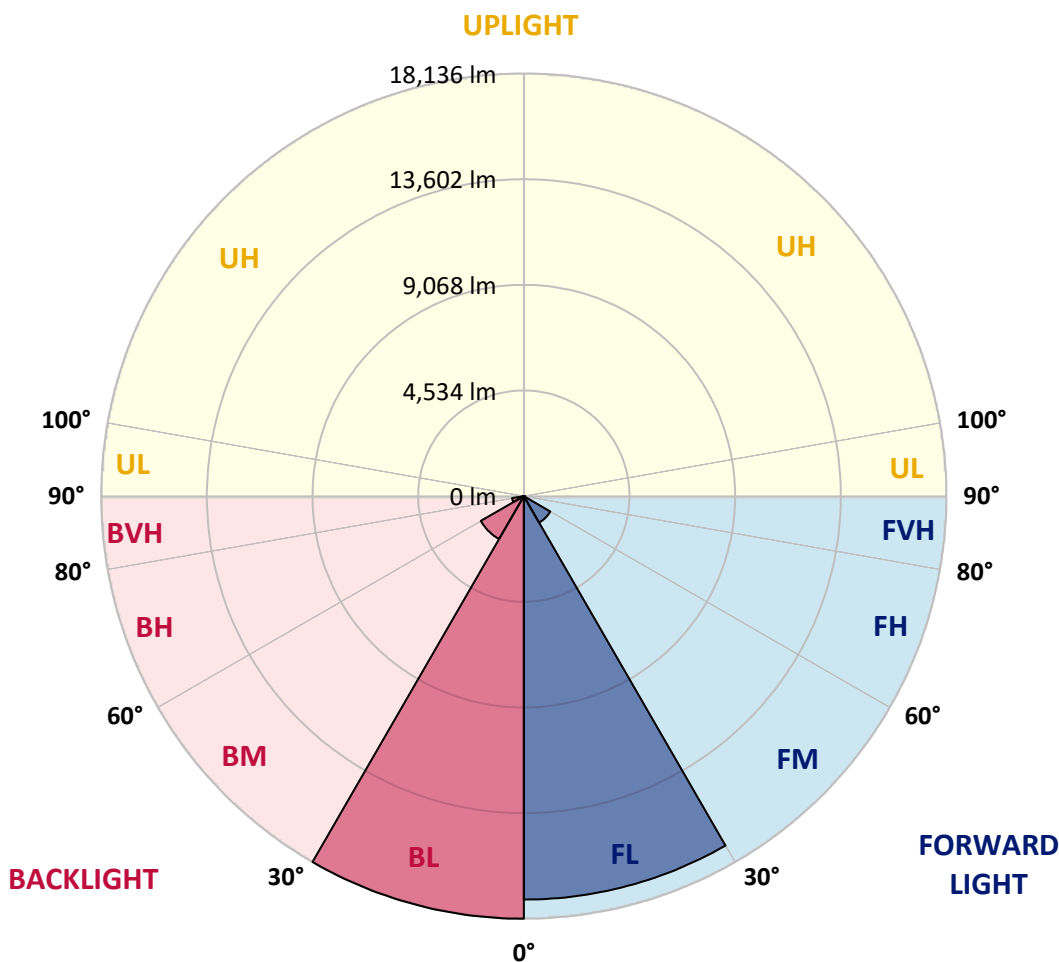
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17311.5	43.8			
FM (30°-60°)	1311.0	3.3			
FH (60°-80°)	53.4	0.1			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	18135.6	45.9	B5		
BM (30°-60°)	2129.6	5.4	B2/2500		
BH (60°-80°)	512.9	1.3	B2/1000		G0/660
BVH (80°-90°)	61.9	0.2			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°	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6
2.5°	135210.7	135286.1	135006.5	135610.2	135139.7	136400.2	135774.4	136750.9	136422.4	136968.4
5°	125978.3	125854.0	125774.1	126710.6	126439.9	127793.7	126928.1	126644.1	127522.9	127363.1
7.5°	112036.4	112364.9	112178.4	112422.6	112560.2	114104.8	114593.1	114211.3	114224.7	114446.6
10°	97743.9	97260.1	96572.1	97029.3	97996.9	98671.6	98400.8	98960.1	98835.8	99364.0
12.5°	80157.9	80539.6	80153.5	79745.1	81436.2	81249.8	81720.3	82026.6	81258.7	82967.6
15°	60379.2	60578.9	61049.4	61018.4	62318.9	62580.8	62518.6	62842.7	62243.4	62527.5
17.5°	38789.5	39464.2	40729.2	42868.6	45274.4	45554.0	45483.0	45216.7	44928.2	44608.6
20°	26055.0	25984.0	26441.1	27067.0	32047.2	33365.5	33325.5	32491.0	31283.7	31052.9
22.5°	18251.8	18385.0	18322.8	18944.2	19974.0	23609.3	23161.0	22313.2	21918.1	21660.7
25°	12006.6	11957.8	12268.5	12454.9	13338.2	13782.1	15353.3	15038.2	14430.1	14496.7
27.5°	7319.4	7381.5	7496.9	7656.7	8282.6	8140.5	9037.1	9157.0	8961.7	8753.1
30°	4491.9	4536.3	4629.5	4744.9	4962.4	4807.1	5055.6	5486.2	5415.2	5268.7
32.5°	3049.4	3053.8	3120.4	3164.8	3138.1	2991.7	3071.6	3479.9	3488.8	3475.5
35°	2192.7	2192.7	2254.8	2290.4	2214.9	2095.1	2108.4	2361.4	2472.3	2494.5
37.5°	1513.6	1518.0	1624.6	1731.1	1646.7	1615.7	1562.4	1731.1	1908.6	1935.3
40°	1149.6	1145.2	1198.4	1278.3	1287.2	1229.5	1247.3	1353.8	1535.8	1558.0
42.5°	932.1	936.6	963.2	954.3	958.8	1034.2	1060.8	1109.7	1278.3	1318.3
45°	785.6	790.1	803.4	759.0	741.3	856.7	892.2	918.8	1060.8	1109.7
47.5°	648.0	656.9	670.2	621.4	612.5	688.0	750.1	776.8	901.0	954.3
50°	466.1	474.9	523.8	497.1	523.8	541.5	625.9	665.8	750.1	821.2
52.5°	337.3	346.2	359.5	364.0	430.6	439.4	501.6	563.7	603.7	683.6
55°	266.3	275.2	266.3	257.4	315.1	364.0	386.2	452.7	483.8	577.0
57.5°	150.9	159.8	173.1	199.7	208.6	279.6	301.8	359.5	386.2	474.9
60°	26.6	31.1	48.8	119.8	146.5	177.5	226.4	275.2	310.7	372.8
62.5°	4.4	4.4	8.9	26.6	84.3	124.3	164.2	195.3	226.4	284.1
65°	0.0	0.0	4.4	8.9	22.2	71.0	88.8	115.4	155.4	204.2
67.5°	0.0	0.0	4.4	8.9	13.3	26.6	39.9	71.0	88.8	137.6
70°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	31.1	53.3	84.3
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.6	26.6	53.3
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.6	26.6	22.2	22.2
77.5°	0.0	0.0	4.4	8.9	17.8	26.6	31.1	26.6	17.8	17.8
80°	0.0	0.0	8.9	13.3	22.2	31.1	39.9	31.1	17.8	8.9
82.5°	0.0	0.0	8.9	17.8	22.2	35.5	48.8	39.9	17.8	8.9
85°	0.0	0.0	4.4	13.3	26.6	35.5	48.8	35.5	17.8	4.4
87.5°	0.0	0.0	4.4	4.4	8.9	13.3	26.6	22.2	8.9	4.4
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°
139267.6	0°	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6	139267.6
135934.2	2.5°	136715.4	137425.6	137572.1	137376.8	137660.8	137150.4	136759.8	135747.8	135139.7
127314.3	5°	128135.4	128028.9	128770.2	129014.3	128983.2	128592.6	128046.7	127434.1	126839.4
114016.0	7.5°	114726.2	114863.8	115538.5	115969.1	115751.6	115263.3	114886.0	114424.4	114024.9
99554.9	10°	100464.8	99519.4	100358.3	100358.3	100939.7	99559.3	99688.0	98525.1	98578.4
82936.5	12.5°	83220.6	83562.3	83699.9	84095.0	83415.9	82683.5	81786.9	81609.3	81054.5
61986.0	15°	62878.2	63854.7	63015.8	64449.4	63757.0	62993.6	62856.0	61480.0	61915.0
44959.3	17.5°	44737.3	45815.9	46153.3	46974.4	46344.1	45891.4	45318.8	44901.6	44870.5
31474.6	20°	31723.2	32806.2	33054.8	34040.1	33969.1	33827.1	33343.3	32815.1	32242.5
21425.4	22.5°	21749.5	22632.8	23458.4	24785.5	24763.3	24346.1	24297.3	23551.6	23564.9
14474.5	25°	14625.4	15269.0	15464.3	16822.5	16973.5	16929.1	16676.1	15983.6	16245.5
8841.8	27.5°	8850.7	9414.4	10075.8	10555.2	11007.9	10936.9	10683.9	10297.7	10129.0
5313.1	30°	5455.1	5708.1	5952.3	6529.3	6800.0	6942.1	6822.2	6462.7	6489.3
3497.7	32.5°	3573.1	3786.2	3963.7	4327.7	4469.7	4731.6	4682.8	4607.3	4518.6
2516.7	35°	2605.5	2760.9	2880.7	3049.4	3231.3	3453.3	3488.8	3457.7	3422.2
1944.1	37.5°	1988.5	2148.3	2285.9	2356.9	2499.0	2672.1	2769.7	2765.3	2738.7
1584.6	40°	1615.7	1735.5	1859.8	1953.0	2050.7	2179.4	2299.2	2312.5	2312.5
1331.6	42.5°	1349.4	1451.4	1575.7	1673.4	1744.4	1864.2	1988.5	1997.4	1988.5
1127.4	45°	1154.1	1242.8	1362.7	1478.1	1535.8	1624.6	1744.4	1771.0	1753.3
967.6	47.5°	1003.1	1083.0	1185.1	1309.4	1371.5	1451.4	1562.4	1593.5	1589.0
834.5	50°	861.1	954.3	1056.4	1158.5	1238.4	1313.8	1420.4	1455.9	1442.6
710.2	52.5°	759.0	843.3	932.1	1043.1	1136.3	1202.9	1287.2	1349.4	1331.6
599.2	55°	634.7	736.8	830.0	923.2	1038.6	1109.7	1189.6	1265.0	1247.3
506.0	57.5°	550.4	634.7	741.3	825.6	941.0	1025.3	1105.2	1185.1	1180.7
412.8	60°	461.6	550.4	652.5	741.3	847.8	941.0	1020.9	1109.7	1118.5
310.7	62.5°	364.0	470.5	559.3	661.4	767.9	870.0	941.0	1029.8	1043.1
235.2	65°	275.2	386.2	483.8	581.5	688.0	799.0	861.1	936.6	949.9
173.1	67.5°	204.2	297.4	412.8	501.6	612.5	719.1	776.8	838.9	861.1
106.5	70°	155.4	226.4	346.2	430.6	546.0	630.3	692.4	745.7	763.5
71.0	72.5°	97.7	177.5	279.6	368.4	470.5	546.0	590.3	621.4	648.0
39.9	75°	66.6	137.6	226.4	315.1	390.6	448.3	488.3	514.9	537.1
17.8	77.5°	39.9	106.5	186.4	261.9	310.7	355.1	395.0	412.8	426.1
13.3	80°	22.2	79.9	155.4	213.1	244.1	275.2	306.3	328.5	337.3
8.9	82.5°	13.3	62.1	124.3	164.2	177.5	208.6	239.7	253.0	253.0
4.4	85°	8.9	44.4	84.3	119.8	128.7	150.9	159.8	168.7	177.5
4.4	87.5°	8.9	26.6	53.3	66.6	71.0	79.9	84.3	93.2	102.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
139267.6
134691.4
126173.6
112671.1
98059.0
80548.5
61480.0
44044.9
31993.9
23307.4
15832.7
9982.6
6373.9
4487.5
3408.9
2725.3
2285.9
1979.6
1753.3
1580.2
1433.7
1327.2
1256.1
1185.1
1123.0
1052.0
963.2
870.0
772.3
643.6
532.6
421.7
328.5
248.6
173.1
97.7
0.0

(END OF REPORT)