

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: P637518

Luminaire Tested: **IFLD-L-SA8C-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637518  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38827.7 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

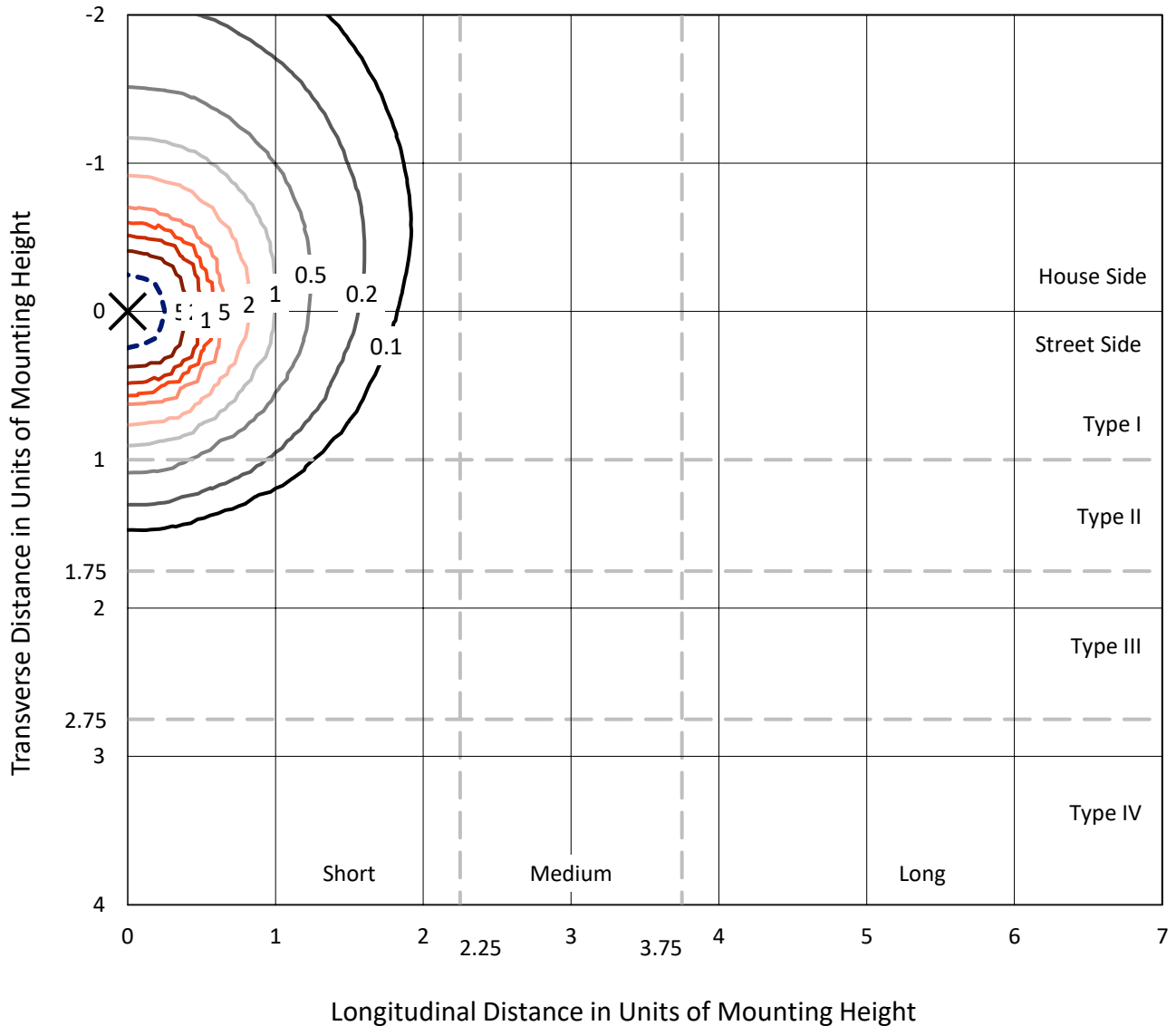
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

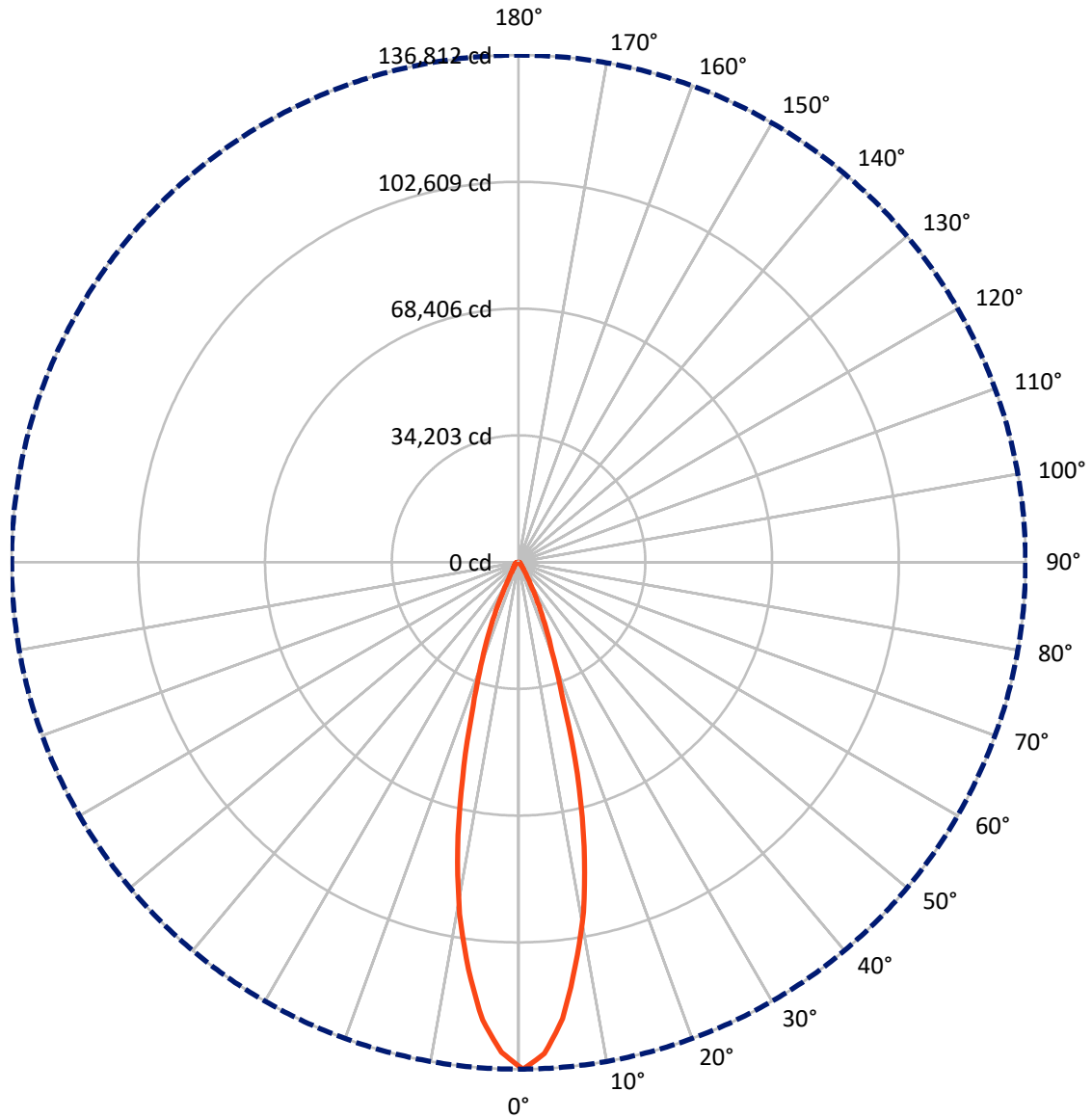
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 342 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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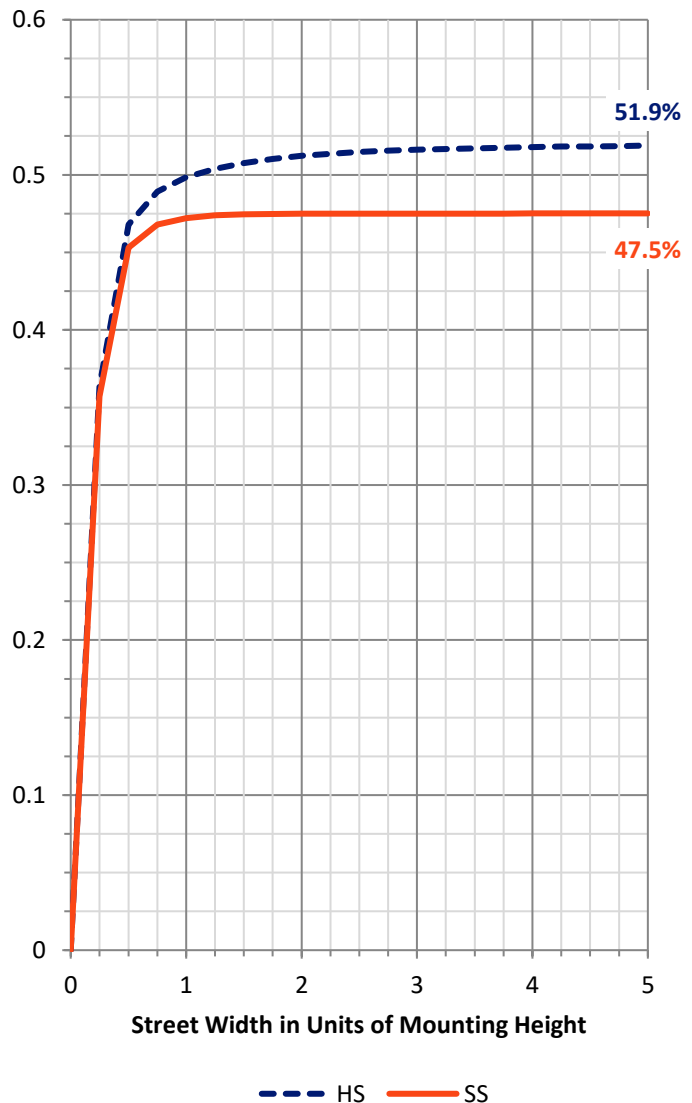
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20472.6	0.0	20472.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	18355.1	0.0	18355.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	38827.7	0.0	38827.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11042.0	28.4
10°-20°	16723.0	43.1
20°-30°	7057.2	18.2
30°-40°	1840.6	4.7
40°-50°	930.9	2.4
50°-60°	608.5	1.6
60°-70°	364.6	0.9
70°-80°	191.8	0.5
80°-90°	69.3	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°	38827.7	100.0
0°-180°	38827.7	100.0

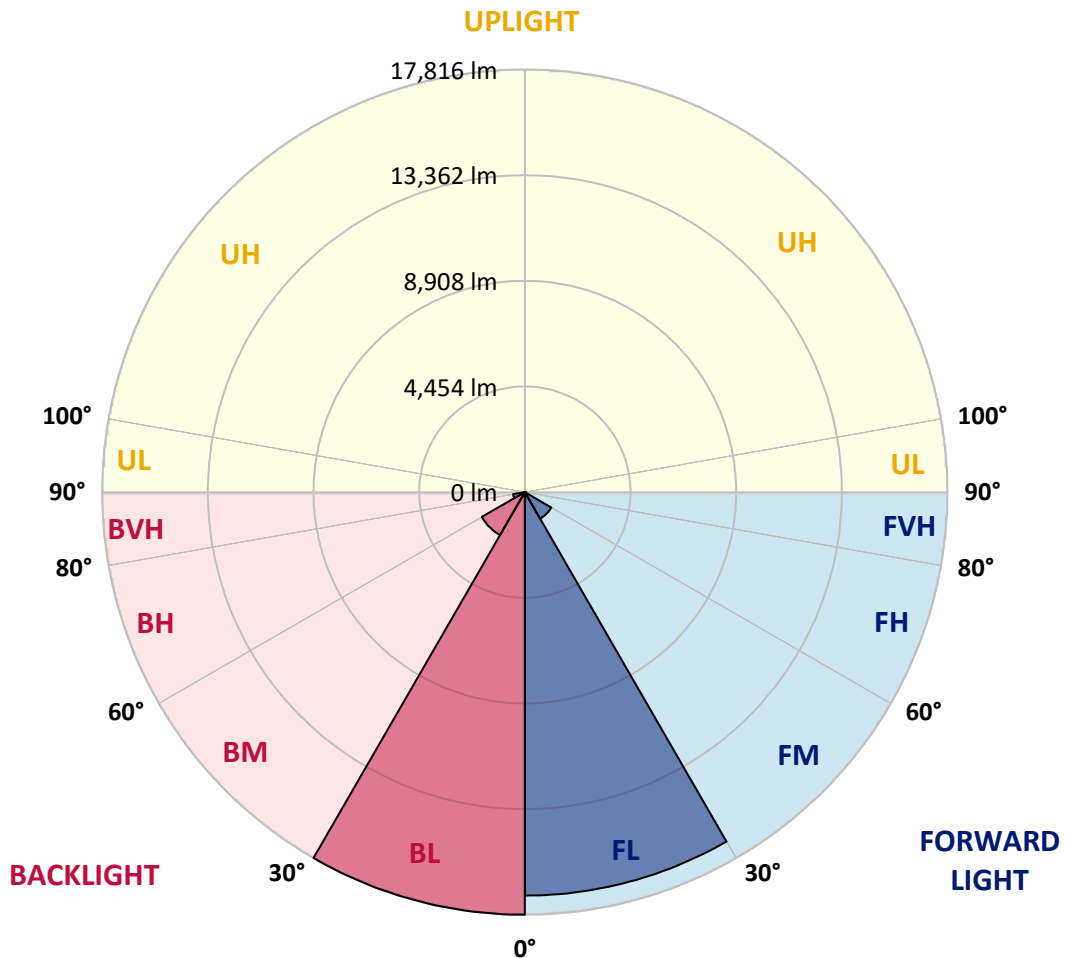


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17006.3	43.8			
FM (30°-60°)	1287.9	3.3			
FH (60°-80°)	52.5	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17815.8	45.9	B5		
BM (30°-60°)	2092.1	5.4	B2/2500		
BH (60°-80°)	503.9	1.3	B2/1000		G0/660
BVH (80°-90°)	60.9	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°	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3
2.5°	132826.8	132901.0	132626.3	133219.3	132757.1	133995.4	133380.6	134339.9	134017.2	134553.6
5°	123757.2	123635.1	123556.6	124476.7	124210.7	125540.6	124690.3	124411.2	125274.6	125117.6
7.5°	110061.1	110383.8	110200.7	110440.5	110575.7	112093.1	112572.7	112197.7	112210.8	112428.8
10°	96020.6	95545.3	94869.5	95318.6	96269.2	96931.9	96666.0	97215.4	97093.3	97612.2
12.5°	78744.7	79119.7	78740.3	78339.1	80000.5	79817.3	80279.5	80580.4	79826.0	81504.8
15°	59314.7	59510.9	59973.1	59942.6	61220.2	61477.4	61416.4	61734.7	61146.0	61425.1
17.5°	38105.6	38768.4	40011.1	42112.8	44476.2	44750.9	44681.1	44419.5	44136.1	43822.1
20°	25595.6	25525.8	25975.0	26589.8	31482.2	32777.2	32738.0	31918.2	30732.2	30505.4
22.5°	17930.0	18060.8	17999.8	18610.2	19621.8	23193.0	22752.6	21919.8	21531.7	21278.8
25°	11794.9	11746.9	12052.2	12235.3	13103.0	13539.1	15082.7	14773.1	14175.7	14241.1
27.5°	7190.3	7251.4	7364.7	7521.7	8136.5	7997.0	8877.8	8995.5	8803.7	8598.7
30°	4412.7	4456.3	4547.9	4661.3	4874.9	4722.3	4966.5	5389.5	5319.7	5175.8
32.5°	2995.6	3000.0	3065.4	3109.0	3082.8	2938.9	3017.4	3418.6	3427.3	3414.2
35°	2154.0	2154.0	2215.1	2250.0	2175.8	2058.1	2071.2	2319.7	2428.7	2450.6
37.5°	1486.9	1491.3	1595.9	1700.6	1617.7	1587.2	1534.9	1700.6	1875.0	1901.1
40°	1129.3	1125.0	1177.3	1255.8	1264.5	1207.8	1225.3	1329.9	1508.7	1530.5
42.5°	915.7	920.0	946.2	937.5	941.8	1016.0	1042.1	1090.1	1255.8	1295.0
45°	771.8	776.2	789.2	745.6	728.2	841.6	876.4	902.6	1042.1	1090.1
47.5°	636.6	645.3	658.4	610.5	601.7	675.9	736.9	763.1	885.2	937.5
50°	457.8	466.6	514.5	488.4	514.5	532.0	614.8	654.1	736.9	806.7
52.5°	331.4	340.1	353.2	357.6	423.0	431.7	492.7	553.8	593.0	671.5
55°	261.6	270.3	261.6	252.9	309.6	357.6	379.4	444.8	475.3	566.9
57.5°	148.3	157.0	170.1	196.2	204.9	274.7	296.5	353.2	379.4	466.6
60°	26.2	30.5	48.0	117.7	143.9	174.4	222.4	270.3	305.2	366.3
62.5°	4.4	4.4	8.7	26.2	82.8	122.1	161.3	191.9	222.4	279.1
65°	0.0	0.0	4.4	8.7	21.8	69.8	87.2	113.4	152.6	200.6
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	39.2	69.8	87.2	135.2
70°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	30.5	52.3	82.8
72.5°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	26.2	26.2	52.3
75°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	26.2	21.8	21.8
77.5°	0.0	0.0	4.4	8.7	17.4	26.2	30.5	26.2	17.4	17.4
80°	0.0	0.0	8.7	13.1	21.8	30.5	39.2	30.5	17.4	8.7
82.5°	0.0	0.0	8.7	17.4	21.8	34.9	48.0	39.2	17.4	8.7
85°	0.0	0.0	4.4	13.1	26.2	34.9	48.0	34.9	17.4	4.4
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	26.2	21.8	8.7	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°
136812.3	0°	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3	136812.3
133537.6	2.5°	134305.0	135002.7	135146.6	134954.7	135233.8	134732.3	134348.6	133354.4	132757.1
125069.7	5°	125876.3	125771.7	126499.9	126739.7	126709.2	126325.5	125789.1	125187.4	124603.1
112005.9	7.5°	112703.5	112838.7	113501.5	113924.5	113710.8	113231.2	112860.5	112407.0	112014.6
97799.7	10°	98693.5	97764.8	98588.9	98588.9	99160.1	97804.0	97930.5	96788.0	96840.4
81474.3	12.5°	81753.3	82089.1	82224.3	82612.3	81945.2	81225.7	80344.9	80170.5	79625.5
60893.1	15°	61769.6	62728.9	61904.8	63313.2	62632.9	61883.0	61747.8	60396.1	60823.4
44166.6	17.5°	43948.6	45008.2	45339.6	46146.2	45527.1	45082.3	44519.8	44109.9	44079.4
30919.7	20°	31163.9	32227.8	32472.0	33440.0	33370.2	33230.7	32755.4	32236.5	31674.0
21047.7	22.5°	21366.0	22233.7	23044.8	24348.5	24326.7	23916.9	23868.9	23136.3	23149.4
14219.3	25°	14367.6	14999.8	15191.7	16526.0	16674.2	16630.6	16382.1	15701.8	15959.1
8685.9	27.5°	8694.7	9248.4	9898.1	10369.1	10813.8	10744.1	10495.5	10116.2	9950.5
5219.4	30°	5358.9	5607.5	5847.3	6414.2	6680.1	6819.7	6702.0	6348.8	6374.9
3436.0	32.5°	3510.1	3719.4	3893.8	4251.4	4390.9	4648.2	4600.2	4526.1	4438.9
2472.4	35°	2559.6	2712.2	2829.9	2995.6	3174.4	3392.4	3427.3	3396.8	3361.9
1909.9	37.5°	1953.5	2110.4	2245.6	2315.4	2454.9	2625.0	2720.9	2716.5	2690.4
1556.7	40°	1587.2	1704.9	1827.0	1918.6	2014.5	2141.0	2258.7	2271.8	2271.8
1308.1	42.5°	1325.6	1425.9	1547.9	1643.9	1713.6	1831.4	1953.5	1962.2	1953.5
1107.5	45°	1133.7	1220.9	1338.6	1452.0	1508.7	1595.9	1713.6	1739.8	1722.4
950.6	47.5°	985.5	1063.9	1164.2	1286.3	1347.4	1425.9	1534.9	1565.4	1561.0
819.8	50°	845.9	937.5	1037.8	1138.1	1216.6	1290.7	1395.3	1430.2	1417.1
697.7	52.5°	745.6	828.5	915.7	1024.7	1116.3	1181.7	1264.5	1325.6	1308.1
588.7	55°	623.5	723.8	815.4	907.0	1020.3	1090.1	1168.6	1242.7	1225.3
497.1	57.5°	540.7	623.5	728.2	811.0	924.4	1007.3	1085.7	1164.2	1159.9
405.5	60°	453.5	540.7	641.0	728.2	832.8	924.4	1002.9	1090.1	1098.8
305.2	62.5°	357.6	462.2	549.4	649.7	754.4	854.6	924.4	1011.6	1024.7
231.1	65°	270.3	379.4	475.3	571.2	675.9	784.9	845.9	920.0	933.1
170.1	67.5°	200.6	292.1	405.5	492.7	601.7	706.4	763.1	824.1	845.9
104.6	70°	152.6	222.4	340.1	423.0	536.3	619.2	680.2	732.5	750.0
69.8	72.5°	95.9	174.4	274.7	361.9	462.2	536.3	579.9	610.5	636.6
39.2	75°	65.4	135.2	222.4	309.6	383.7	440.4	479.6	505.8	527.6
17.4	77.5°	39.2	104.6	183.1	257.3	305.2	348.8	388.1	405.5	418.6
13.1	80°	21.8	78.5	152.6	209.3	239.8	270.3	300.9	322.7	331.4
8.7	82.5°	13.1	61.0	122.1	161.3	174.4	204.9	235.5	248.5	248.5
4.4	85°	8.7	43.6	82.8	117.7	126.5	148.3	157.0	165.7	174.4
4.4	87.5°	8.7	26.2	52.3	65.4	69.8	78.5	82.8	91.6	100.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
136812.3  
132316.7  
123949.0  
110684.7  
96330.2  
79128.4  
60396.1  
43268.4  
31429.8  
22896.5  
15553.6  
9806.6  
6261.6  
4408.4  
3348.8  
2677.3  
2245.6  
1944.7  
1722.4  
1552.3  
1408.4  
1303.8  
1234.0  
1164.2  
1103.2  
1033.4  
946.2  
854.6  
758.7  
632.3  
523.2  
414.2  
322.7  
244.2  
170.1  
95.9  
0.0

(END OF REPORT)