

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: P637030

Luminaire Tested: **IFLD-S-SA2D-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637030  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13007.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

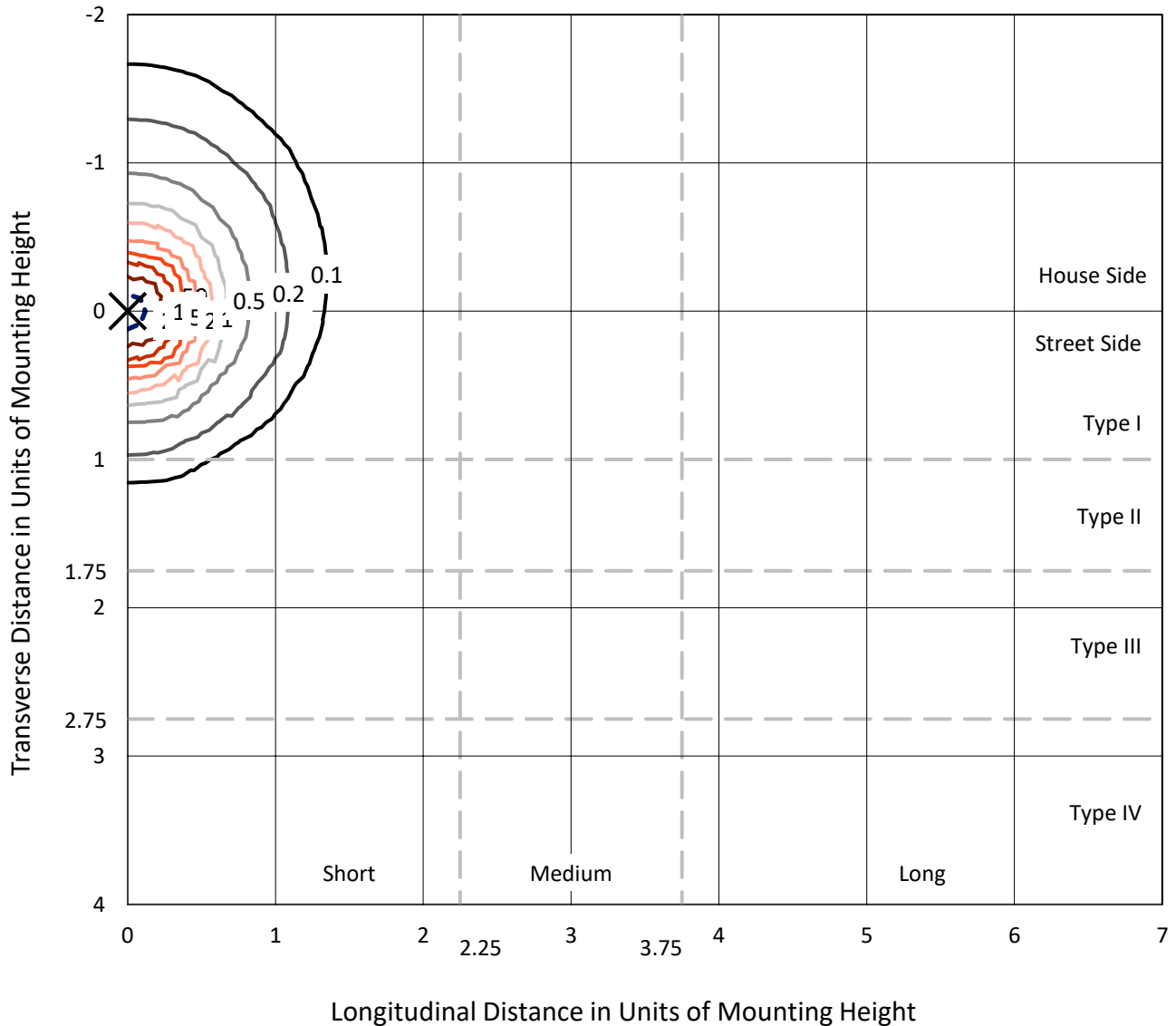
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

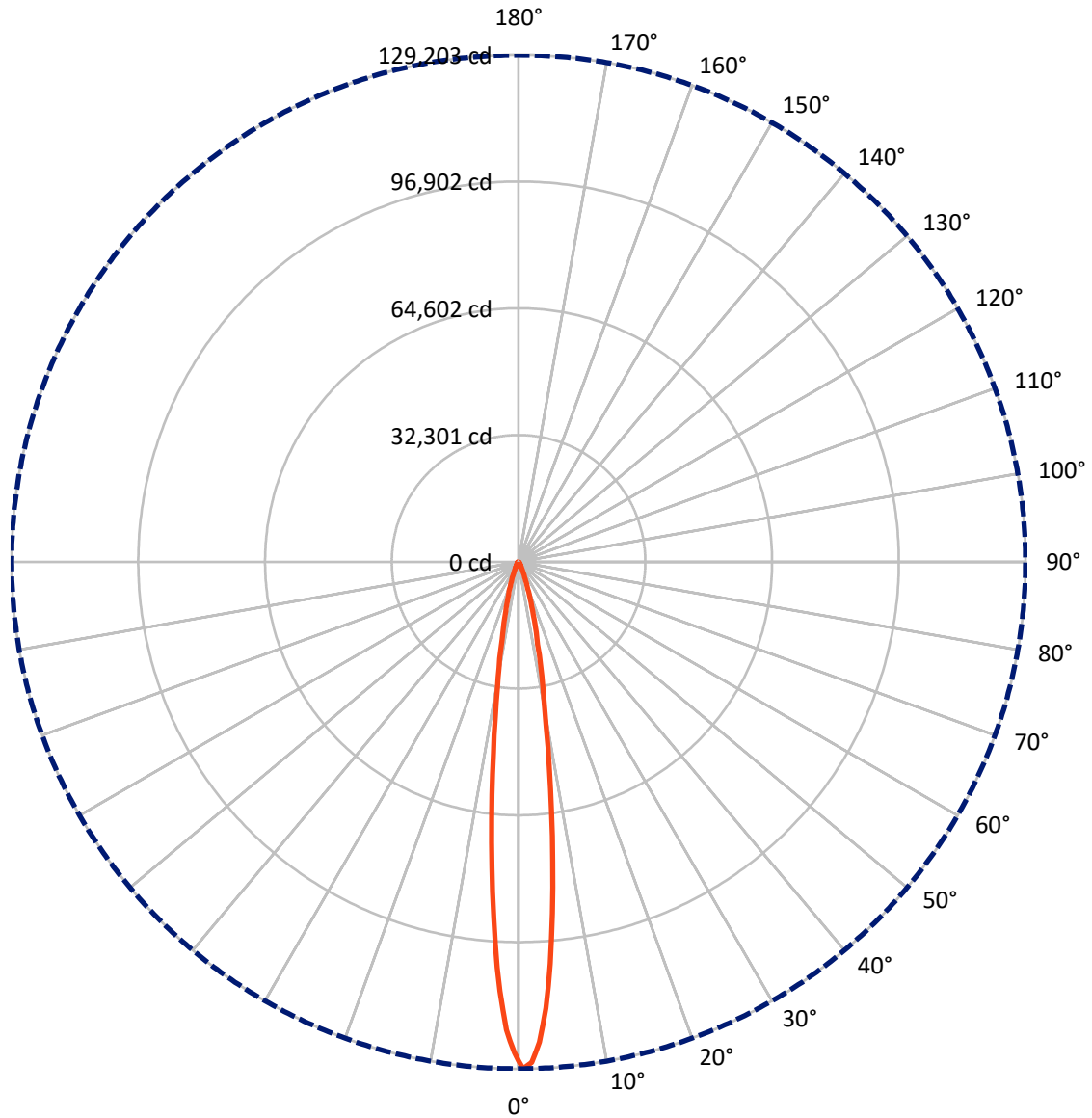
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 323 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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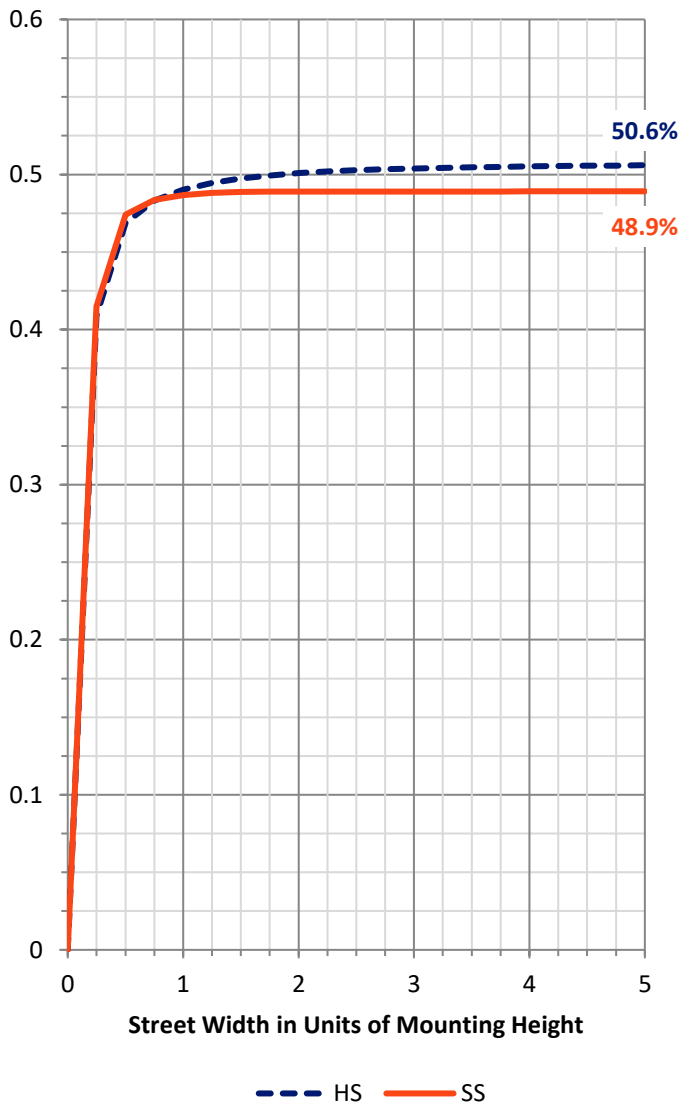
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6662.0	0.0	6662.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	6345.1	0.0	6345.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	13007.2	0.0	13007.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6566.4	50.5
10°-20°	4203.8	32.3
20°-30°	1263.6	9.7
30°-40°	411.4	3.2
40°-50°	239.4	1.8
50°-60°	159.0	1.2
60°-70°	95.7	0.7
70°-80°	49.2	0.4
80°-90°	18.7	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°	13007.2	100.0
0°-180°	13007.2	100.0

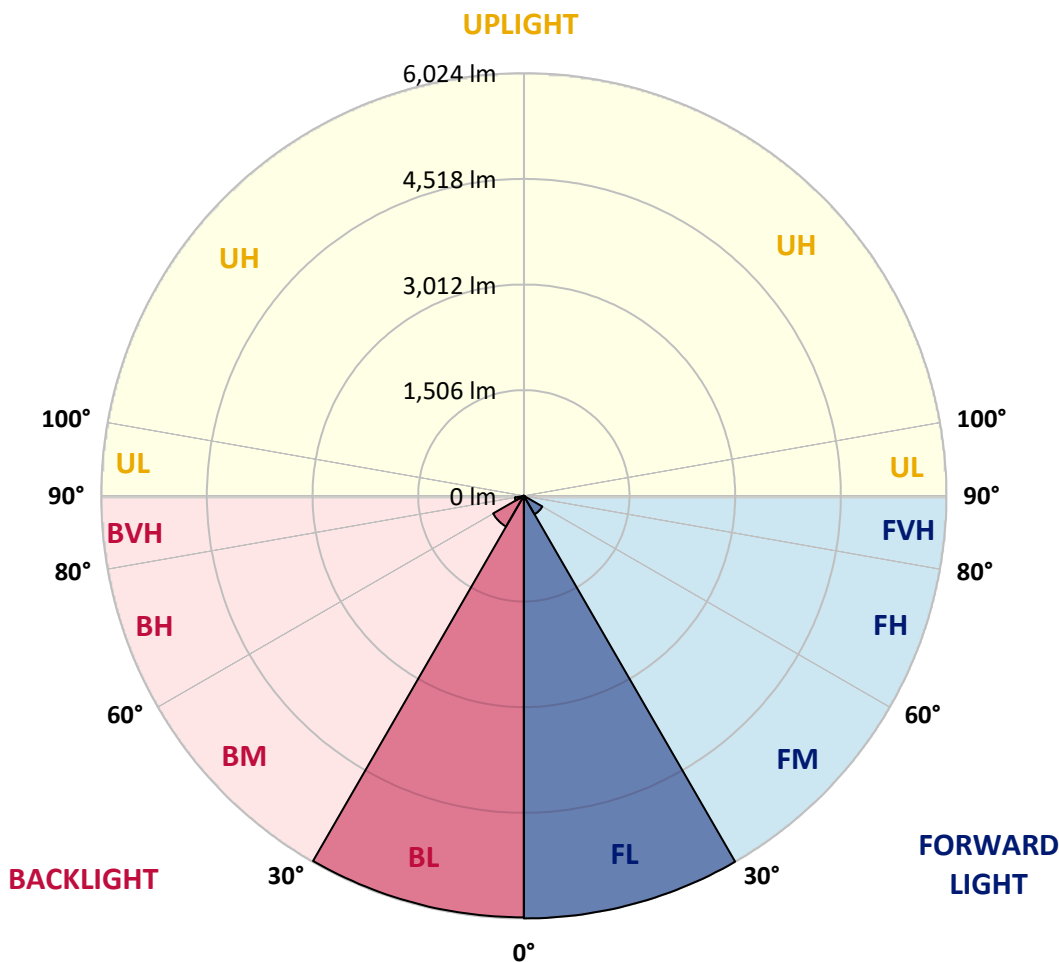


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6024.0	46.3			
FM (30°-60°)	304.0	2.3			
FH (60°-80°)	14.3	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	6009.7	46.2	B5		
BM (30°-60°)	505.8	3.9	B1/1000		
BH (60°-80°)	130.6	1.0	B1/500		G0/660
BVH (80°-90°)	15.9	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°	129203.3	129203.3	129203.3	129203.3	129203.3	129203.3	129203.3	129203.3	129203.3	129203.3
1°	127656.2	127266.6	126260.8	126976.2	127605.2	127422.5	127409.7	127341.7	127246.8	127992.0
2°	122553.3	122301.2	120813.6	121427.1	122321.0	121669.3	122077.3	121718.9	121726.0	122615.7
3°	113951.2	114088.6	111715.7	112830.6	114073.0	112493.4	112983.6	113904.5	112939.7	112649.3
4°	102770.7	101577.9	100281.6	101414.9	101736.5	100817.1	101721.0	102848.6	101508.4	101567.9
5°	90006.4	89125.2	87590.9	88290.8	87493.2	87783.6	89137.9	89602.6	88667.6	87490.3
6°	76882.2	76256.0	74337.8	75346.5	75063.2	74898.8	76608.8	75192.1	75702.1	74989.5
7°	63950.7	62780.5	61838.4	62804.6	62866.9	62372.5	64592.4	64334.6	63406.7	63191.3
8°	52984.1	51816.7	51019.1	51738.8	52209.2	51432.8	52476.9	53162.6	52437.2	52502.4
9°	42734.4	42528.9	41419.7	42360.4	42871.8	42040.2	43196.2	43444.1	42765.5	43095.6
10°	35088.5	34849.1	33963.7	34344.7	35191.9	34200.2	35309.5	35390.3	34849.1	35003.5
12.5°	21683.8	21587.5	21563.4	21618.6	21607.3	21783.0	22066.3	21743.3	21700.8	21166.7
15°	14015.3	14158.4	14011.0	14294.4	14335.5	14501.2	14328.4	14067.7	13570.4	13323.9
17.5°	8746.6	8929.4	9181.5	9596.6	10011.7	10059.9	9830.4	9524.4	9283.5	9020.0
20°	5032.1	5121.3	5083.1	5580.3	6654.2	6946.0	6649.9	6328.3	6037.9	5771.6
22.5°	3126.6	3094.0	3153.5	3320.7	3670.6	4573.1	4330.8	4009.2	3798.1	3578.6
25°	1916.8	1952.2	1929.5	2021.6	2178.9	2561.4	2616.6	2477.8	2370.1	2256.8
27.5°	1233.9	1233.9	1243.9	1294.9	1402.5	1389.8	1684.4	1576.8	1518.7	1463.4
30°	857.1	859.9	859.9	889.7	913.8	871.3	947.8	1086.6	1059.7	1017.2
32.5°	636.1	644.6	651.7	667.3	647.4	602.1	620.5	782.0	766.4	750.8
35°	484.5	491.6	508.6	517.1	488.8	460.4	443.4	575.2	582.3	578.0
37.5°	352.8	357.0	388.2	420.8	388.2	362.7	352.8	442.0	476.0	471.8
40°	270.6	272.0	277.7	314.5	314.5	294.7	297.5	330.1	389.6	389.6
42.5°	232.3	232.3	238.0	232.3	233.8	255.0	262.1	266.3	330.1	330.1
45°	201.2	201.2	204.0	189.8	175.7	219.6	225.3	226.7	277.7	284.8
47.5°	168.6	168.6	174.3	155.8	148.8	174.3	189.8	194.1	239.4	245.1
50°	124.7	126.1	143.1	127.5	131.8	134.6	164.3	167.2	202.6	215.3
52.5°	83.6	83.6	86.4	99.2	114.8	110.5	133.2	143.1	161.5	178.5
55°	68.0	68.0	66.6	63.8	85.0	92.1	97.8	119.0	131.8	153.0
57.5°	46.8	49.6	45.3	52.4	55.3	69.4	73.7	93.5	100.6	128.9
60°	5.7	7.1	9.9	38.3	36.8	46.8	55.3	73.7	82.2	99.2
62.5°	1.4	1.4	2.8	7.1	25.5	31.2	43.9	51.0	59.5	76.5
65°	0.0	0.0	1.4	2.8	5.7	17.0	22.7	29.8	42.5	53.8
67.5°	0.0	0.0	1.4	2.8	2.8	7.1	11.3	18.4	22.7	39.7
70°	0.0	0.0	1.4	2.8	2.8	5.7	7.1	8.5	15.6	21.3
72.5°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	7.1	7.1	14.2
75°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	7.1	5.7	5.7
77.5°	0.0	0.0	1.4	2.8	5.7	7.1	8.5	7.1	4.3	4.3
80°	0.0	0.0	1.4	4.3	7.1	9.9	11.3	8.5	4.3	2.8
82.5°	0.0	0.0	2.8	5.7	8.5	11.3	15.6	12.8	5.7	2.8
85°	0.0	0.0	1.4	4.3	8.5	11.3	22.7	15.6	7.1	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	8.5	5.7	2.8	1.4
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°
<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>	<b>129203.3</b>
127132.1	128020.3	128109.6	127817.7	128269.7	128111.0	127181.6	126874.2	126510.1	125986.0
122092.9	121718.9	122173.7	122196.3	122697.8	122690.7	121607.0	121271.2	121890.3	120681.9
113238.6	112895.8	113425.6	112948.2	113839.3	113571.5	112256.9	111915.4	112618.1	111739.8
102038.3	101733.7	101633.1	101468.8	100961.6	101586.4	100689.6	100013.8	100967.3	99088.7
89051.5	88873.0	88649.2	88329.0	88178.8	88643.5	88069.8	86680.0	88072.6	84722.1
76278.7	76372.2	75408.8	75362.1	75278.5	75325.2	73718.7	73815.1	74852.1	72064.0
62450.4	63110.6	63287.7	62926.4	63505.8	63063.8	61975.8	61556.5	62648.7	60678.1
52788.6	52420.2	52196.4	51920.2	52785.8	52019.3	51305.3	50816.6	51679.3	50215.9
43149.4	43068.7	42681.9	42401.4	42357.5	42476.5	41136.3	41408.3	42061.4	41180.3
35088.5	35101.3	34466.6	34621.0	34662.1	34531.7	33653.4	33661.9	33887.1	32827.5
21520.9	21444.4	21132.7	21210.6	21253.1	21518.1	21209.2	20772.9	20458.4	20299.7
13569.0	13478.4	13254.5	13712.1	14019.5	13957.2	13682.4	13476.9	13192.2	12962.7
9020.0	8936.5	9229.7	9231.1	9511.6	9540.0	9265.1	9106.5	8850.0	8861.4
5866.5	5845.2	5967.1	6220.7	6419.0	6533.8	6324.1	6134.3	5958.6	5884.9
3657.9	3657.9	3870.4	4029.1	4286.9	4391.7	4238.7	4104.1	3961.1	3873.2
2283.7	2245.4	2397.0	2528.8	2752.6	2895.7	2822.0	2698.8	2598.2	2551.5
1474.8	1497.4	1561.2	1626.4	1780.8	1929.5	1888.4	1838.9	1777.9	1756.7
1039.8	1055.4	1061.1	1130.5	1216.9	1316.1	1341.6	1318.9	1287.8	1263.7
763.6	777.8	800.4	833.0	886.8	953.4	1014.3	1003.0	988.8	977.5
583.7	600.7	634.7	661.6	702.7	738.1	796.2	806.1	801.8	793.3
480.3	490.2	519.9	546.8	570.9	600.7	640.3	671.5	672.9	664.4
396.7	406.6	433.5	468.9	487.3	508.6	538.3	576.6	579.4	576.6
335.8	342.8	368.3	403.8	426.4	442.0	470.3	508.6	514.3	508.6
287.6	294.7	310.3	347.1	374.0	389.6	408.0	449.1	454.8	453.3
247.9	256.4	272.0	294.7	332.9	347.1	364.1	396.7	406.6	406.6
219.6	225.3	240.8	260.7	294.7	315.9	330.1	357.0	371.2	371.2
191.3	199.8	215.3	236.6	263.5	287.6	300.3	325.8	344.3	344.3
155.8	167.2	194.1	209.7	233.8	266.3	277.7	297.5	321.6	321.6
136.0	145.9	168.6	191.3	211.1	243.7	257.8	277.7	300.3	303.2
107.7	123.3	144.5	171.4	188.4	219.6	238.0	259.3	280.5	286.2
82.2	97.8	126.1	144.5	168.6	198.3	222.4	239.4	260.7	269.2
63.8	72.3	103.4	124.7	150.2	178.5	204.0	218.2	240.8	246.5
45.3	52.4	80.8	106.3	130.3	157.3	182.8	196.9	216.8	221.0
28.3	41.1	59.5	87.8	109.1	137.4	158.7	174.3	187.0	191.3
18.4	24.1	45.3	70.8	94.9	120.4	134.6	145.9	157.3	160.1
8.5	15.6	35.4	58.1	79.3	97.8	110.5	120.4	130.3	131.8
4.3	9.9	25.5	46.8	66.6	75.1	90.7	99.2	104.8	102.0
2.8	5.7	19.8	41.1	53.8	60.9	70.8	79.3	86.4	79.3
2.8	4.3	17.0	34.0	45.3	45.3	56.7	60.9	60.9	58.1
1.4	2.8	14.2	26.9	42.5	34.0	42.5	39.7	39.7	39.7
1.4	2.8	9.9	12.8	18.4	15.6	18.4	18.4	21.3	21.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
129203.3  
125067.9  
119268.0  
109497.1  
97516.2  
84403.4  
71845.9  
59677.9  
49215.7  
40021.4  
32354.3  
20267.1  
13046.3  
8786.3  
5897.7  
3884.6  
2540.1  
1742.5  
1266.5  
977.5  
787.7  
663.0  
575.2  
510.0  
453.3  
408.0  
372.6  
344.3  
323.0  
301.8  
286.2  
270.6  
245.1  
218.2  
191.3  
160.1  
130.3  
102.0  
77.9  
56.7  
38.3  
21.3  
0.0

(END OF REPORT)