

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: P637302

Luminaire Tested: **IFLD-S-SA6E-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637302  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42679.5 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

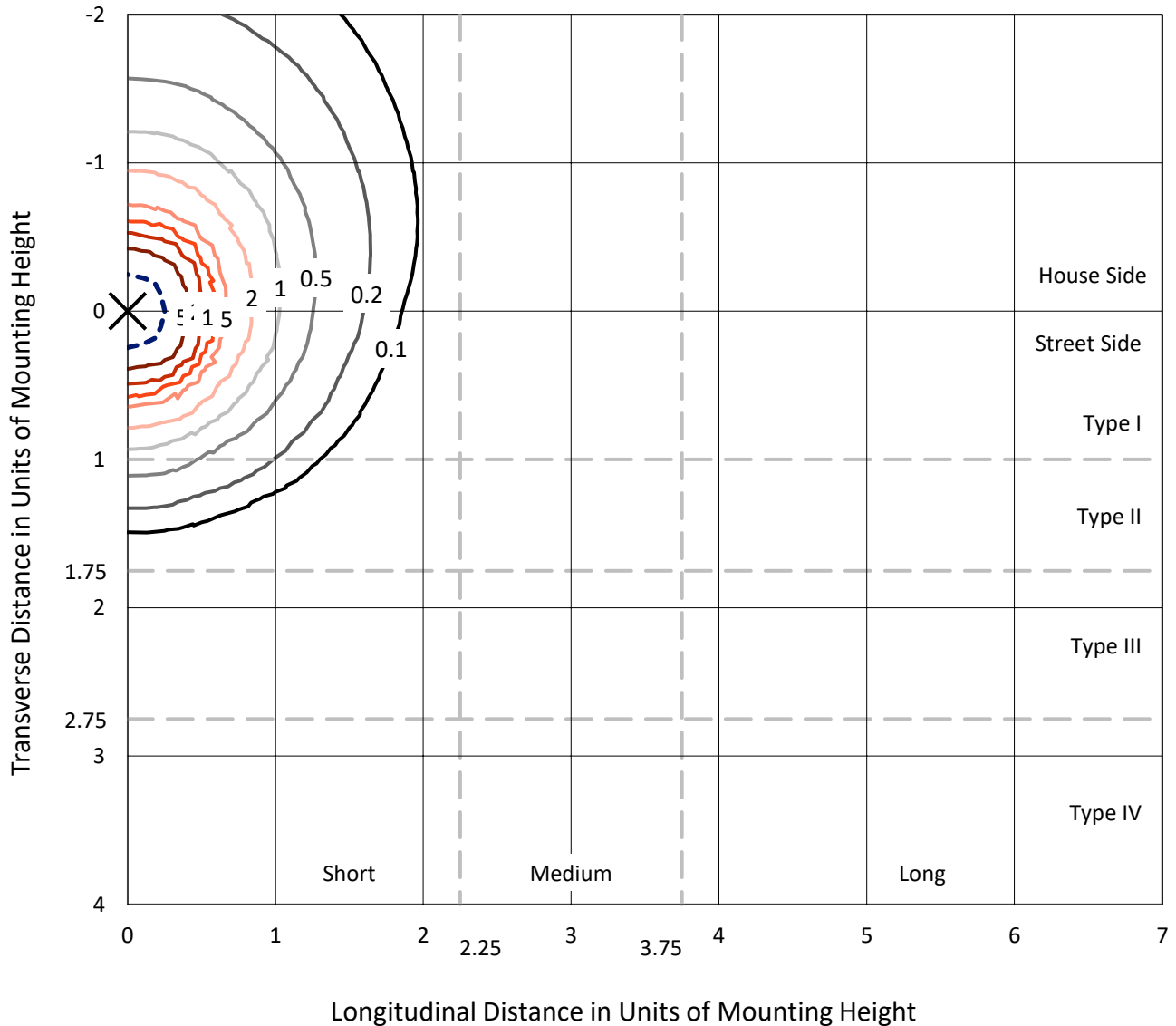
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

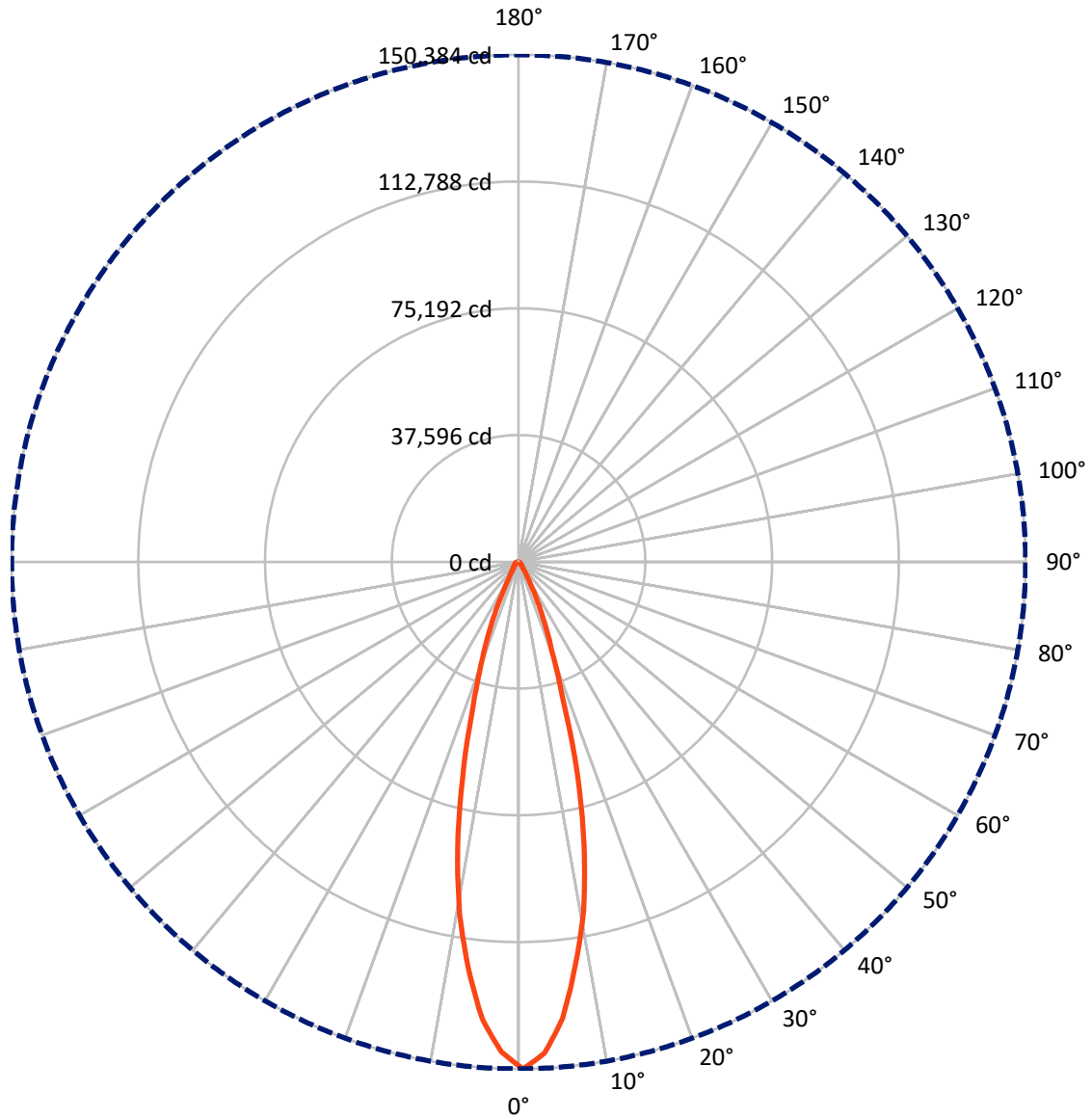
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 376 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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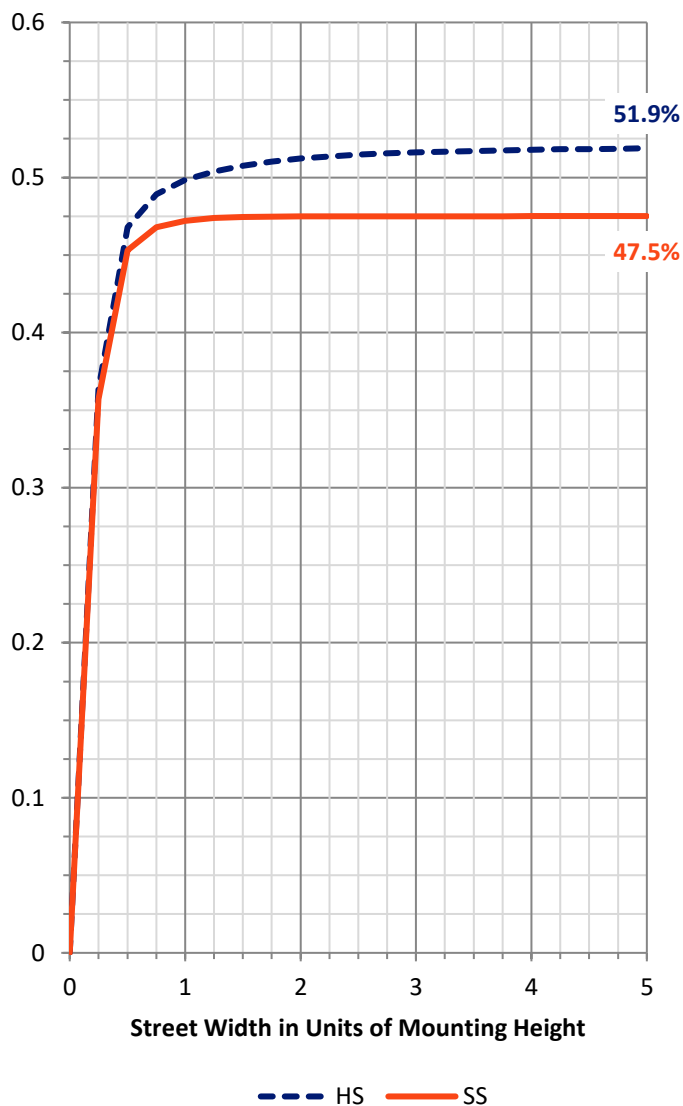
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22503.5	0.0	22503.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	20176.0	0.0	20176.0
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	42679.5	0.0	42679.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12137.3	28.4
10°-20°	18381.9	43.1
20°-30°	7757.2	18.2
30°-40°	2023.2	4.7
40°-50°	1023.3	2.4
50°-60°	668.9	1.6
60°-70°	400.7	0.9
70°-80°	210.8	0.5
80°-90°	76.2	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°	42679.5	100.0
0°-180°	42679.5	100.0

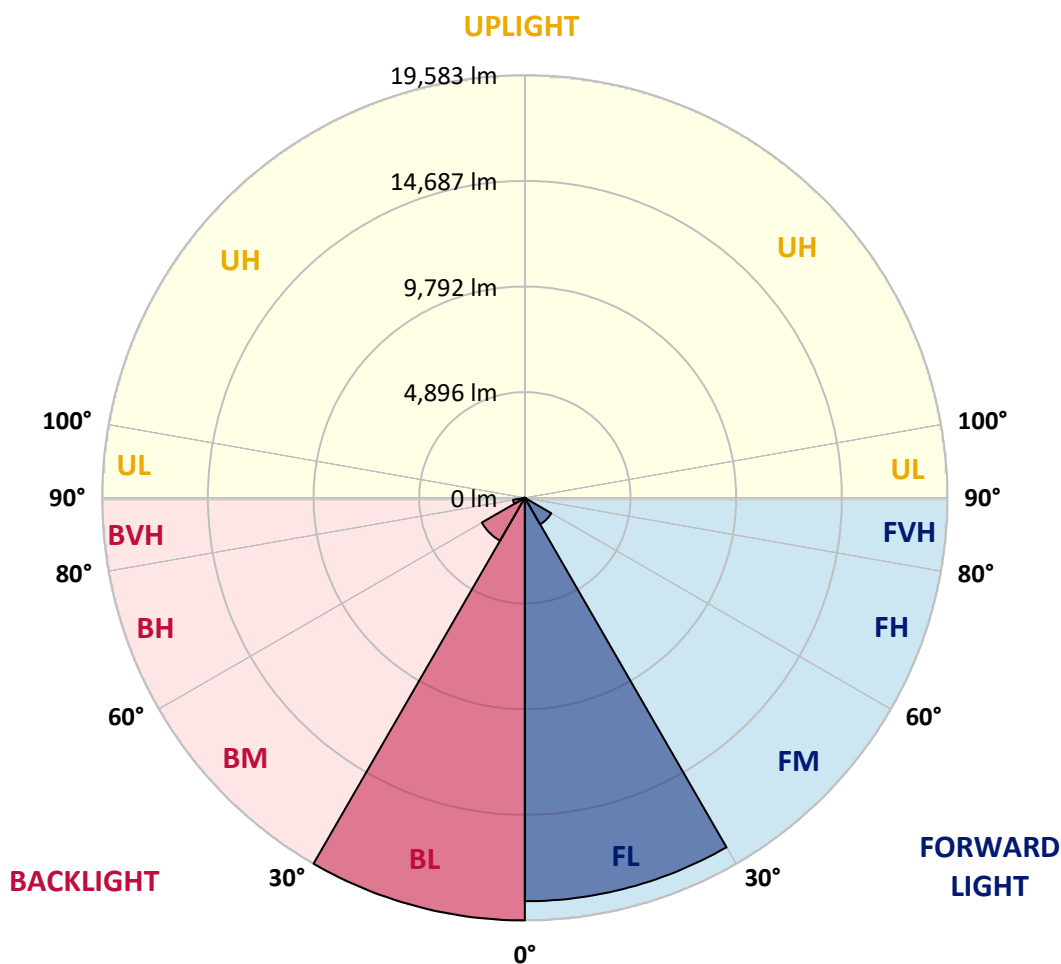


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18693.3	43.8			
FM (30°-60°)	1415.7	3.3			
FH (60°-80°)	57.7	0.1			G0/660
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	19583.1	45.9	B5		
BM (30°-60°)	2299.6	5.4	B2/2500		
BH (60°-80°)	553.8	1.3	B2/1000		G0/660
BVH (80°-90°)	66.9	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°	150383.9	150383.9	150383.9	150383.9	150383.9	150383.9	150383.9	150383.9	150383.9	150383.9
2.5°	146003.2	146084.6	145782.7	146434.5	145926.5	147287.7	146611.9	147666.3	147311.6	147901.2
5°	136033.8	135899.6	135813.3	136824.6	136532.3	137994.1	137059.5	136752.8	137701.8	137529.2
7.5°	120979.1	121333.8	121132.5	121396.1	121544.7	123212.6	123739.9	123327.7	123342.1	123581.7
10°	105545.8	105023.4	104280.4	104774.1	105819.0	106547.5	106255.1	106859.1	106724.9	107295.2
12.5°	86556.1	86968.3	86551.3	86110.3	87936.5	87735.1	88243.2	88573.9	87744.7	89590.0
15°	65198.6	65414.3	65922.4	65888.8	67293.2	67576.0	67508.9	67858.7	67211.7	67518.4
17.5°	41885.7	42614.2	43980.2	46290.4	48888.2	49190.2	49113.5	48825.9	48514.3	48169.3
20°	28134.7	28058.0	28551.7	29227.5	34605.2	36028.7	35985.5	35084.5	33780.8	33531.6
22.5°	19708.7	19852.4	19785.3	20456.4	21568.3	25493.8	25009.7	24094.2	23667.6	23389.6
25°	12965.0	12912.2	13247.7	13449.0	14402.8	14882.1	16578.9	16238.6	15581.9	15653.8
27.5°	7903.6	7970.7	8095.3	8267.9	8943.7	8790.3	9758.5	9887.9	9677.0	9451.7
30°	4850.5	4898.4	4999.1	5123.7	5358.5	5190.8	5459.2	5924.1	5847.4	5689.2
32.5°	3292.8	3297.6	3369.5	3417.4	3388.6	3230.5	3316.7	3757.7	3767.3	3752.9
35°	2367.7	2367.7	2434.8	2473.2	2391.7	2262.3	2276.7	2549.9	2669.7	2693.6
37.5°	1634.4	1639.2	1754.2	1869.3	1778.2	1744.6	1687.1	1869.3	2061.0	2089.7
40°	1241.4	1236.6	1294.1	1380.4	1390.0	1327.7	1346.8	1461.9	1658.4	1682.3
42.5°	1006.5	1011.3	1040.1	1030.5	1035.3	1116.8	1145.5	1198.2	1380.4	1423.5
45°	848.4	853.1	867.5	819.6	800.4	925.0	963.4	992.1	1145.5	1198.2
47.5°	699.8	709.4	723.7	671.0	661.4	742.9	810.0	838.8	973.0	1030.5
50°	503.3	512.8	565.6	536.8	565.6	584.7	675.8	718.9	810.0	886.7
52.5°	364.3	373.9	388.2	393.0	464.9	474.5	541.6	608.7	651.8	738.1
55°	287.6	297.2	287.6	278.0	340.3	393.0	417.0	488.9	522.4	623.1
57.5°	163.0	172.5	186.9	215.7	225.3	302.0	325.9	388.2	417.0	512.8
60°	28.8	33.6	52.7	129.4	158.2	191.7	244.4	297.2	335.5	402.6
62.5°	4.8	4.8	9.6	28.8	91.1	134.2	177.3	210.9	244.4	306.7
65°	0.0	0.0	4.8	9.6	24.0	76.7	95.9	124.6	167.8	220.5
67.5°	0.0	0.0	4.8	9.6	14.4	28.8	43.1	76.7	95.9	148.6
70°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	33.6	57.5	91.1
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	28.8	28.8	57.5
75°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	28.8	24.0	24.0
77.5°	0.0	0.0	4.8	9.6	19.2	28.8	33.6	28.8	19.2	19.2
80°	0.0	0.0	9.6	14.4	24.0	33.6	43.1	33.6	19.2	9.6
82.5°	0.0	0.0	9.6	19.2	24.0	38.3	52.7	43.1	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.8	38.3	52.7	38.3	19.2	4.8
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	28.8	24.0	9.6	4.8
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>150383.9</b>	0°	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>	<b>150383.9</b>
146784.4	2.5°	147628.0	148394.9	148553.0	148342.1	148648.9	148097.7	147675.9	146583.1	145926.5
137476.5	5°	138363.2	138248.2	139048.6	139312.2	139278.6	138856.9	138267.3	137605.9	136963.6
123116.8	7.5°	123883.7	124032.2	124760.8	125225.7	124990.8	124463.6	124056.2	123557.7	123126.4
107501.3	10°	108483.9	107463.0	108368.8	108368.8	108996.7	107506.1	107645.1	106389.3	106446.9
89556.5	12.5°	89863.2	90232.3	90380.9	90807.4	90074.1	89283.3	88315.1	88123.4	87524.3
66933.7	15°	67897.1	68951.5	68045.7	69593.8	68846.1	68021.7	67873.1	66387.3	66857.0
48547.9	17.5°	48308.3	49472.9	49837.2	50723.9	50043.3	49554.4	48936.1	48485.6	48452.0
33986.9	20°	34255.3	35424.8	35693.2	36757.2	36680.5	36527.2	36004.7	35434.4	34816.1
23135.6	22.5°	23485.5	24439.3	25330.8	26763.9	26739.9	26289.4	26236.7	25431.4	25445.8
15629.8	25°	15792.8	16487.8	16698.7	18165.3	18328.3	18280.4	18007.2	17259.5	17542.2
9547.6	27.5°	9557.2	10165.9	10880.0	11397.7	11886.5	11809.9	11536.7	11119.7	10937.5
5737.2	30°	5890.5	6163.7	6427.4	7050.4	7342.8	7496.2	7366.8	6978.6	7007.3
3776.9	32.5°	3858.3	4088.4	4280.1	4673.1	4826.5	5109.3	5056.6	4975.1	4879.2
2717.6	35°	2813.5	2981.2	3110.6	3292.8	3489.3	3728.9	3767.3	3733.7	3695.4
2099.3	37.5°	2147.2	2319.8	2468.4	2545.1	2698.4	2885.4	2990.8	2986.0	2957.3
1711.1	40°	1744.6	1874.0	2008.3	2108.9	2214.3	2353.3	2482.8	2497.1	2497.1
1437.9	42.5°	1457.1	1567.3	1701.5	1806.9	1883.6	2013.0	2147.2	2156.8	2147.2
1217.4	45°	1246.2	1342.0	1471.4	1596.1	1658.4	1754.2	1883.6	1912.4	1893.2
1044.9	47.5°	1083.2	1169.5	1279.7	1413.9	1481.0	1567.3	1687.1	1720.7	1715.9
901.1	50°	929.8	1030.5	1140.7	1251.0	1337.2	1418.7	1533.7	1572.1	1557.7
766.9	52.5°	819.6	910.7	1006.5	1126.3	1227.0	1298.9	1390.0	1457.1	1437.9
647.0	55°	685.4	795.6	896.3	996.9	1121.6	1198.2	1284.5	1366.0	1346.8
546.4	57.5°	594.3	685.4	800.4	891.5	1016.1	1107.2	1193.4	1279.7	1274.9
445.7	60°	498.5	594.3	704.6	800.4	915.5	1016.1	1102.4	1198.2	1207.8
335.5	62.5°	393.0	508.1	603.9	714.2	829.2	939.4	1016.1	1112.0	1126.3
254.0	65°	297.2	417.0	522.4	627.9	742.9	862.7	929.8	1011.3	1025.7
186.9	67.5°	220.5	321.1	445.7	541.6	661.4	776.5	838.8	905.9	929.8
115.0	70°	167.8	244.4	373.9	464.9	589.5	680.6	747.7	805.2	824.4
76.7	72.5°	105.4	191.7	302.0	397.8	508.1	589.5	637.5	671.0	699.8
43.1	75°	71.9	148.6	244.4	340.3	421.8	484.1	527.2	556.0	579.9
19.2	77.5°	43.1	115.0	201.3	282.8	335.5	383.4	426.6	445.7	460.1
14.4	80°	24.0	86.3	167.8	230.1	263.6	297.2	330.7	354.7	364.3
9.6	82.5°	14.4	67.1	134.2	177.3	191.7	225.3	258.8	273.2	273.2
4.8	85°	9.6	47.9	91.1	129.4	139.0	163.0	172.5	182.1	191.7
4.8	87.5°	9.6	28.8	57.5	71.9	76.7	86.3	91.1	100.7	110.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
150383.9  
145442.4  
136244.7  
121664.5  
105886.1  
86977.9  
66387.3  
47560.5  
34547.7  
25167.8  
17096.5  
10779.4  
6882.7  
4845.7  
3681.0  
2942.9  
2468.4  
2137.7  
1893.2  
1706.3  
1548.1  
1433.1  
1356.4  
1279.7  
1212.6  
1135.9  
1040.1  
939.4  
834.0  
695.0  
575.2  
455.3  
354.7  
268.4  
186.9  
105.4  
0.0

(END OF REPORT)