

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: P637486

Luminaire Tested: **IFLD-L-SA7E-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637486  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40023.6 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

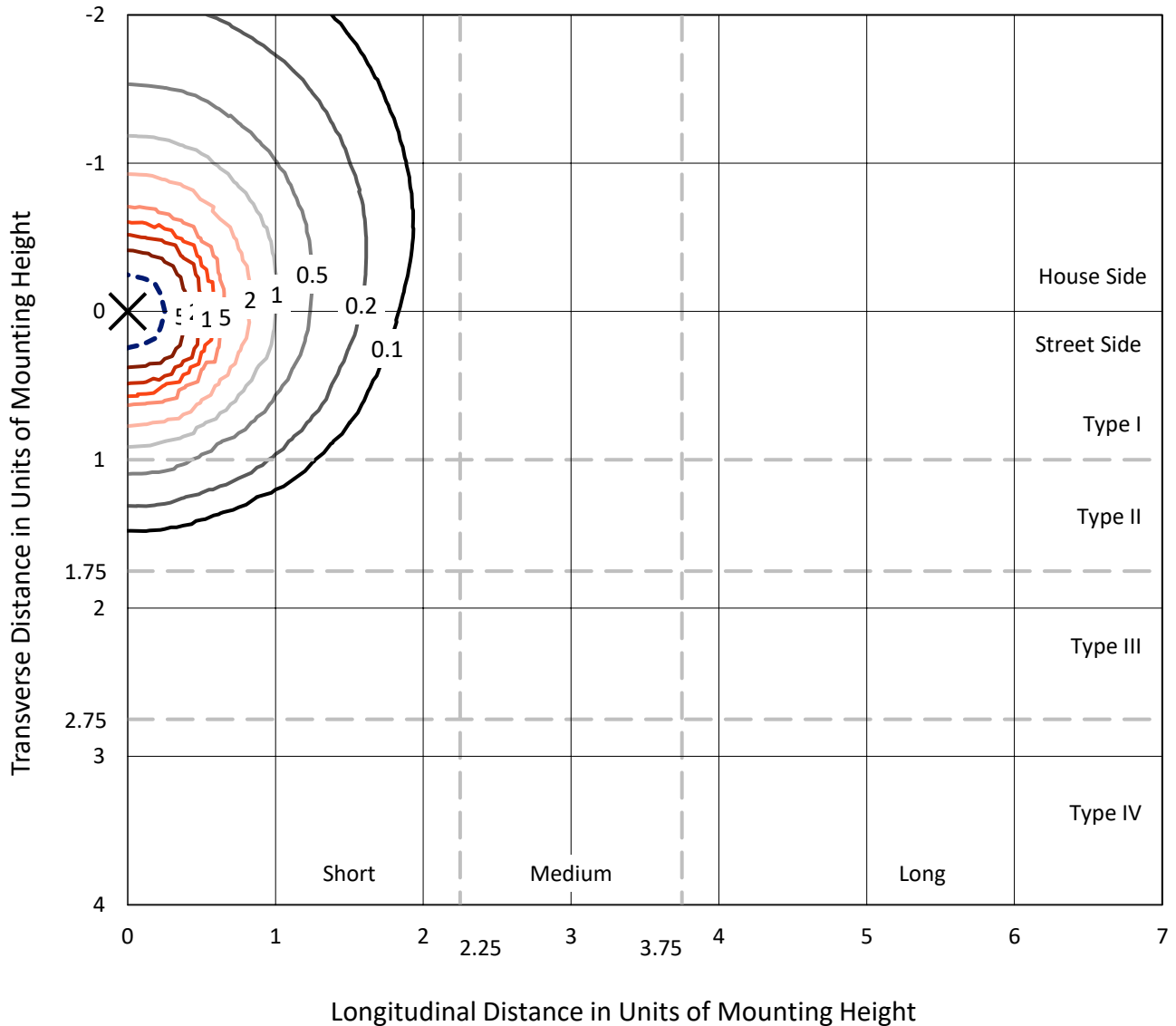
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

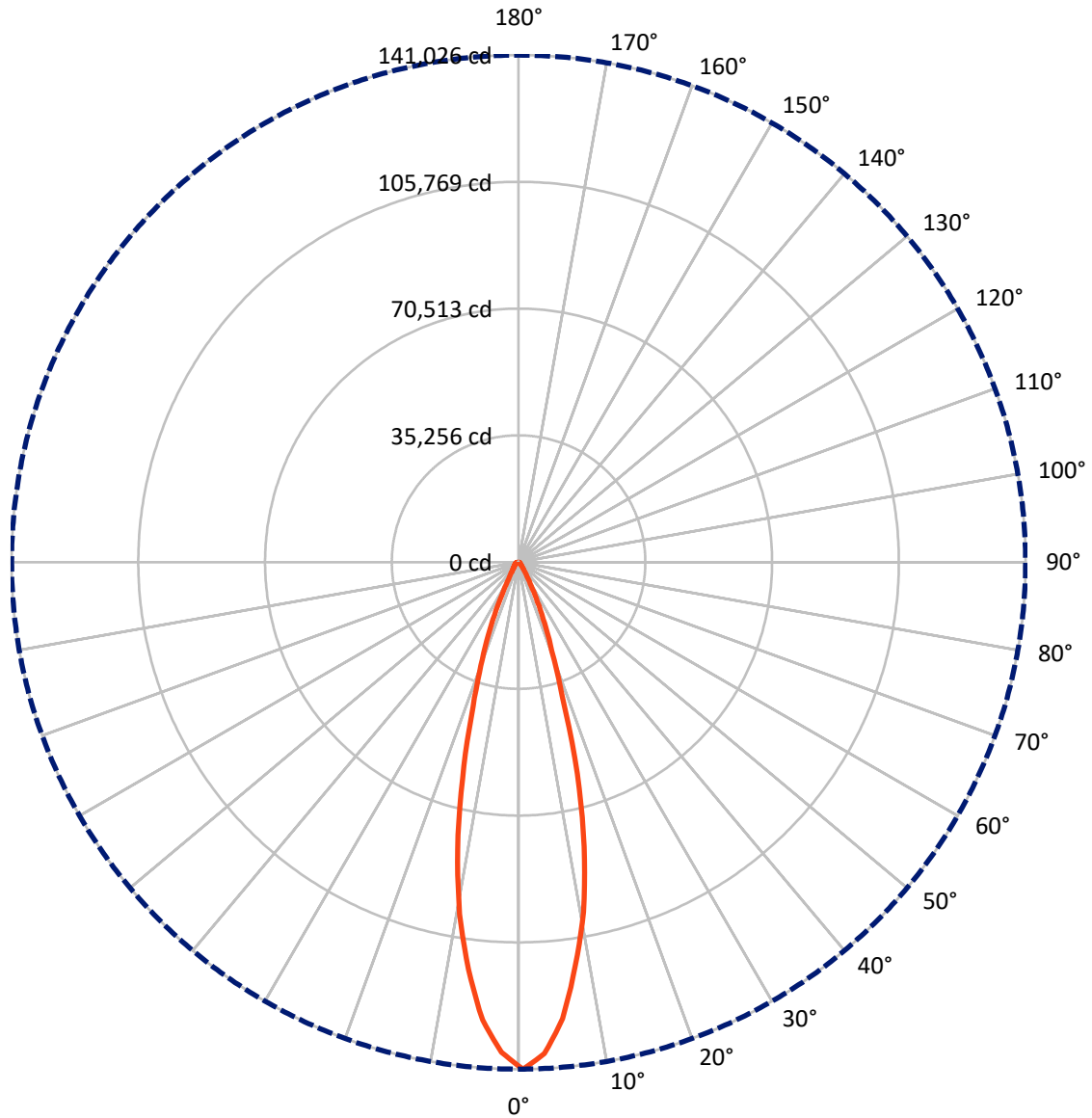
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 352.6 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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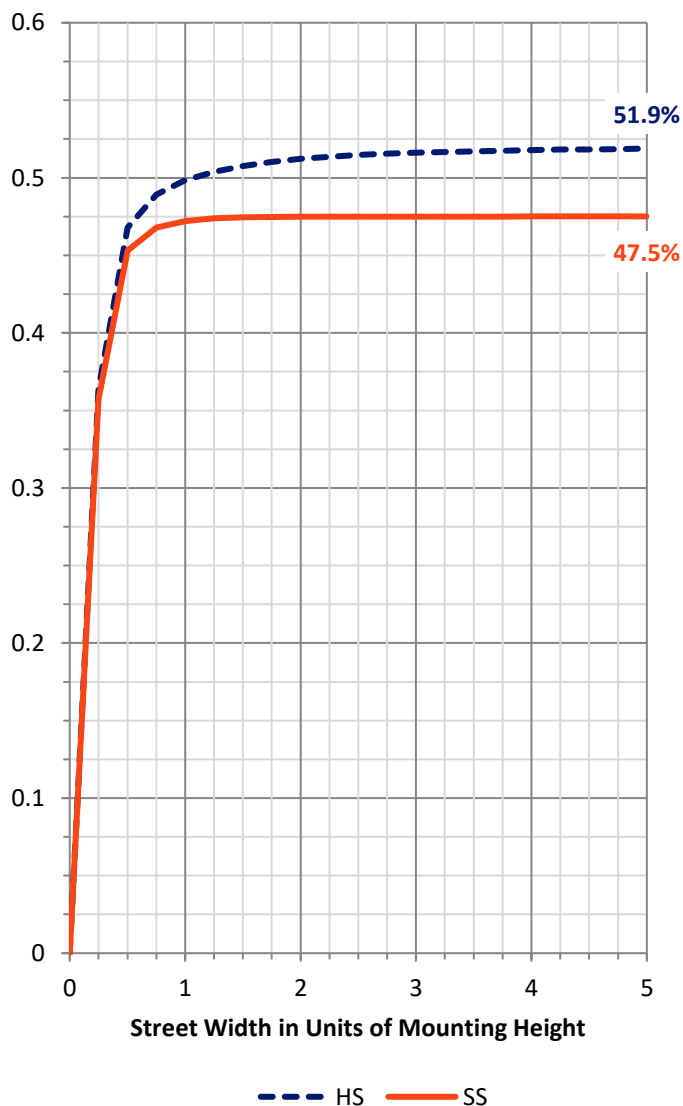
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21103.1	0.0	21103.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	18920.5	0.0	18920.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	40023.6	0.0	40023.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11382.0	28.4
10°-20°	17238.0	43.1
20°-30°	7274.5	18.2
30°-40°	1897.3	4.7
40°-50°	959.6	2.4
50°-60°	627.2	1.6
60°-70°	375.8	0.9
70°-80°	197.7	0.5
80°-90°	71.4	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°	40023.6	100.0
0°-180°	40023.6	100.0



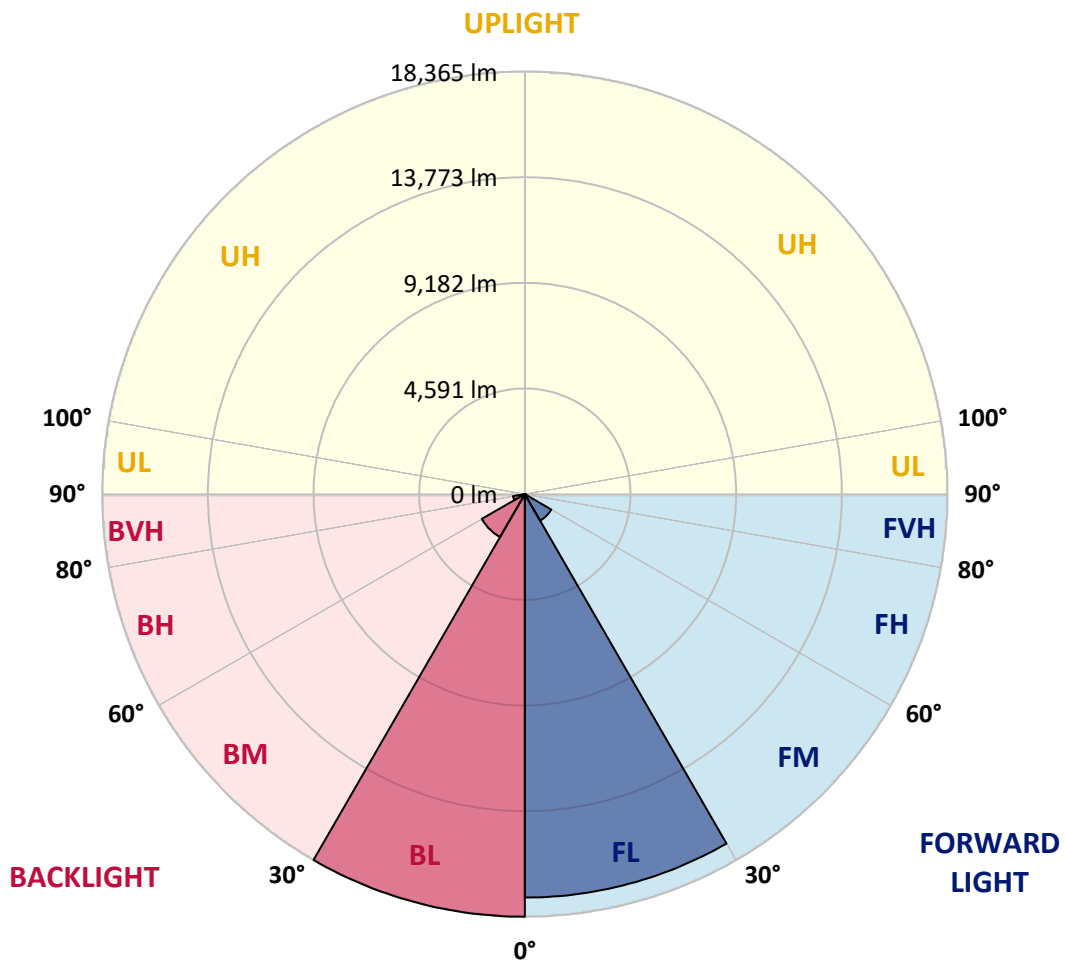
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17530.1	43.8			
FM (30°-60°)	1327.6	3.3			
FH (60°-80°)	54.1	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18364.5	45.9	B5		
BM (30°-60°)	2156.5	5.4	B2/2500		
BH (60°-80°)	519.4	1.3	B2/1000		G0/660
BVH (80°-90°)	62.7	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°	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8
2.5°	136917.7	136994.1	136710.9	137322.2	136845.7	138122.2	137488.5	138477.3	138144.7	138697.6
5°	127568.7	127442.8	127361.9	128310.3	128036.1	129407.0	128530.5	128242.9	129132.8	128971.0
7.5°	113450.8	113783.4	113594.6	113841.8	113981.2	115545.3	116039.8	115653.2	115666.7	115891.4
10°	98977.9	98487.9	97791.3	98254.2	99234.1	99917.3	99643.1	100209.4	100083.6	100618.4
12.5°	81169.8	81556.4	81165.4	80751.8	82464.3	82275.5	82752.0	83062.1	82284.5	84015.0
15°	61141.4	61343.7	61820.2	61788.7	63105.6	63370.8	63307.9	63636.0	63029.2	63316.9
17.5°	39279.2	39962.4	41243.4	43409.8	45846.0	46129.1	46057.2	45787.5	45495.4	45171.8
20°	26383.9	26312.0	26774.9	27408.7	32451.8	33786.7	33746.2	32901.2	31678.7	31444.9
22.5°	18482.2	18617.1	18554.1	19183.4	20226.2	23907.3	23453.4	22594.9	22194.8	21934.2
25°	12158.2	12108.7	12423.4	12612.1	13506.6	13956.1	15547.2	15228.1	14612.3	14679.7
27.5°	7411.8	7474.7	7591.6	7753.4	8387.1	8243.3	9151.2	9272.6	9074.8	8863.6
30°	4548.6	4593.6	4688.0	4804.8	5025.1	4867.8	5119.5	5555.5	5483.5	5335.2
32.5°	3087.9	3092.4	3159.8	3204.7	3177.8	3029.4	3110.3	3523.8	3532.8	3519.4
35°	2220.4	2220.4	2283.3	2319.3	2242.9	2121.5	2135.0	2391.2	2503.5	2526.0
37.5°	1532.7	1537.2	1645.1	1752.9	1667.5	1636.1	1582.1	1752.9	1932.7	1959.7
40°	1164.1	1159.6	1213.6	1294.5	1303.5	1245.0	1263.0	1370.9	1555.2	1577.6
42.5°	943.9	948.4	975.4	966.4	970.9	1047.3	1074.2	1123.7	1294.5	1334.9
45°	795.6	800.1	813.5	768.6	750.6	867.5	903.4	930.4	1074.2	1123.7
47.5°	656.2	665.2	678.7	629.3	620.3	696.7	759.6	786.6	912.4	966.4
50°	471.9	480.9	530.4	503.4	530.4	548.4	633.8	674.2	759.6	831.5
52.5°	341.6	350.6	364.1	368.6	436.0	445.0	507.9	570.8	611.3	692.2
55°	269.7	278.7	269.7	260.7	319.1	368.6	391.0	458.5	489.9	584.3
57.5°	152.8	161.8	175.3	202.3	211.3	283.2	305.6	364.1	391.0	480.9
60°	27.0	31.5	49.4	121.4	148.3	179.8	229.2	278.7	314.6	377.6
62.5°	4.5	4.5	9.0	27.0	85.4	125.9	166.3	197.8	229.2	287.7
65°	0.0	0.0	4.5	9.0	22.5	71.9	89.9	116.9	157.3	206.8
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	40.5	71.9	89.9	139.3
70°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	31.5	53.9	85.4
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	27.0	53.9
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	22.5	22.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	18.0	18.0
80°	0.0	0.0	9.0	13.5	22.5	31.5	40.5	31.5	18.0	9.0
82.5°	0.0	0.0	9.0	18.0	22.5	36.0	49.4	40.5	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.0	36.0	49.4	36.0	18.0	4.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	27.0	22.5	9.0	4.5
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°
141025.8	0°	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8	141025.8
137650.3	2.5°	138441.4	139160.5	139308.8	139111.1	139398.7	138881.8	138486.3	137461.5	136845.7
128921.6	5°	129753.1	129645.2	130395.8	130643.0	130611.6	130216.1	129663.2	129042.9	128440.6
115455.4	7.5°	116174.6	116313.9	116997.1	117433.1	117212.9	116718.5	116336.4	115869.0	115464.4
100811.7	10°	101733.1	100775.7	101625.2	101625.2	102214.0	100816.2	100946.5	99768.9	99822.9
83983.5	12.5°	84271.2	84617.3	84756.6	85156.6	84469.0	83727.3	82819.4	82639.6	82077.8
62768.5	15°	63672.0	64660.8	63811.3	65263.1	64561.9	63788.8	63649.5	62256.1	62696.6
45526.9	17.5°	45302.1	46394.3	46735.9	47567.4	46929.2	46470.7	45890.9	45468.4	45437.0
31871.9	20°	32123.6	33220.4	33472.1	34469.9	34398.0	34254.1	33764.2	33229.3	32649.5
21695.9	22.5°	22024.0	22918.5	23754.5	25098.4	25076.0	24653.4	24604.0	23848.9	23862.4
14657.2	25°	14810.0	15461.8	15659.5	17034.9	17187.7	17142.8	16886.6	16185.4	16450.6
8953.4	27.5°	8962.4	9533.3	10203.0	10688.4	11146.9	11074.9	10818.8	10427.7	10256.9
5380.2	30°	5524.0	5780.2	6027.4	6611.7	6885.9	7029.7	6908.4	6544.3	6571.3
3541.8	32.5°	3618.2	3834.0	4013.8	4382.3	4526.2	4791.4	4741.9	4665.5	4575.6
2548.5	35°	2638.4	2795.7	2917.1	3087.9	3272.1	3496.9	3532.8	3501.4	3465.4
1968.7	37.5°	2013.6	2175.4	2314.8	2386.7	2530.5	2705.8	2804.7	2800.2	2773.2
1604.6	40°	1636.1	1757.4	1883.3	1977.7	2076.6	2206.9	2328.3	2341.7	2341.7
1348.4	42.5°	1366.4	1469.8	1595.6	1694.5	1766.4	1887.8	2013.6	2022.6	2013.6
1141.7	45°	1168.6	1258.5	1379.9	1496.7	1555.2	1645.1	1766.4	1793.4	1775.4
979.8	47.5°	1015.8	1096.7	1200.1	1325.9	1388.9	1469.8	1582.1	1613.6	1609.1
845.0	50°	872.0	966.4	1069.7	1173.1	1254.0	1330.4	1438.3	1474.3	1460.8
719.2	52.5°	768.6	854.0	943.9	1056.3	1150.6	1218.1	1303.5	1366.4	1348.4
606.8	55°	642.7	746.1	840.5	934.9	1051.8	1123.7	1204.6	1281.0	1263.0
512.4	57.5°	557.3	642.7	750.6	836.0	952.9	1038.3	1119.2	1200.1	1195.6
418.0	60°	467.4	557.3	660.7	750.6	858.5	952.9	1033.8	1123.7	1132.7
314.6	62.5°	368.6	476.4	566.3	669.7	777.6	881.0	952.9	1042.8	1056.3
238.2	65°	278.7	391.0	489.9	588.8	696.7	809.0	872.0	948.4	961.9
175.3	67.5°	206.8	301.1	418.0	507.9	620.3	728.1	786.6	849.5	872.0
107.9	70°	157.3	229.2	350.6	436.0	552.8	638.2	701.2	755.1	773.1
71.9	72.5°	98.9	179.8	283.2	373.1	476.4	552.8	597.8	629.3	656.2
40.5	75°	67.4	139.3	229.2	319.1	395.5	454.0	494.4	521.4	543.9
18.0	77.5°	40.5	107.9	188.8	265.2	314.6	359.6	400.0	418.0	431.5
13.5	80°	22.5	80.9	157.3	215.7	247.2	278.7	310.1	332.6	341.6
9.0	82.5°	13.5	62.9	125.9	166.3	179.8	211.3	242.7	256.2	256.2
4.5	85°	9.0	44.9	85.4	121.4	130.3	152.8	161.8	170.8	179.8
4.5	87.5°	9.0	27.0	53.9	67.4	71.9	80.9	85.4	94.4	103.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
141025.8  
136391.8  
127766.4  
114093.6  
99297.0  
81565.4  
62256.1  
44600.9  
32397.8  
23601.7  
16032.6  
10108.6  
6454.4  
4544.1  
3451.9  
2759.7  
2314.8  
2004.6  
1775.4  
1600.1  
1451.8  
1343.9  
1272.0  
1200.1  
1137.2  
1065.2  
975.4  
881.0  
782.1  
651.7  
539.4  
427.0  
332.6  
251.7  
175.3  
98.9  
0.0

(END OF REPORT)