

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: P637380

Luminaire Tested: **IFLD-S-SA3A-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13269.9 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

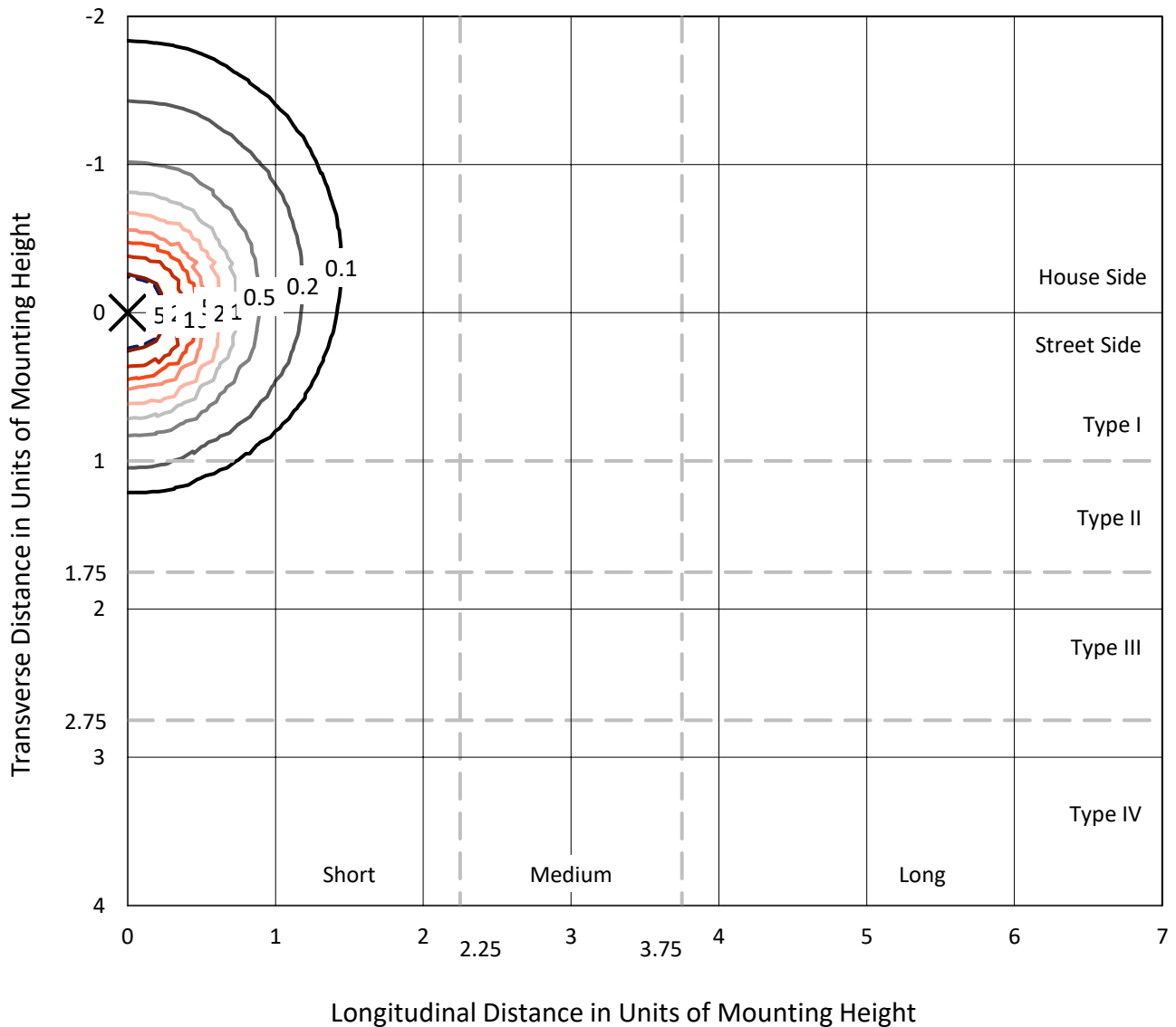
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

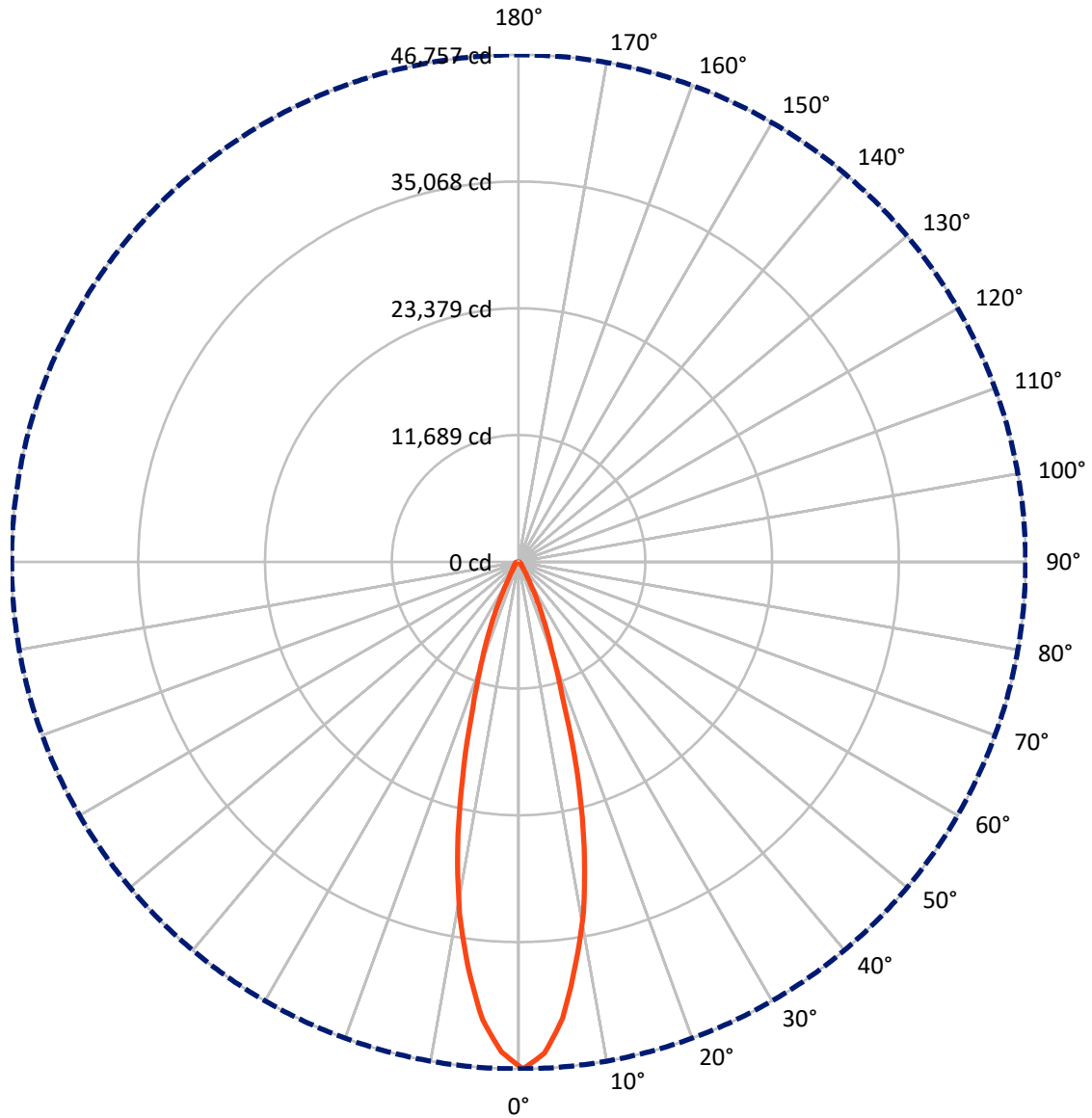
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 116.9 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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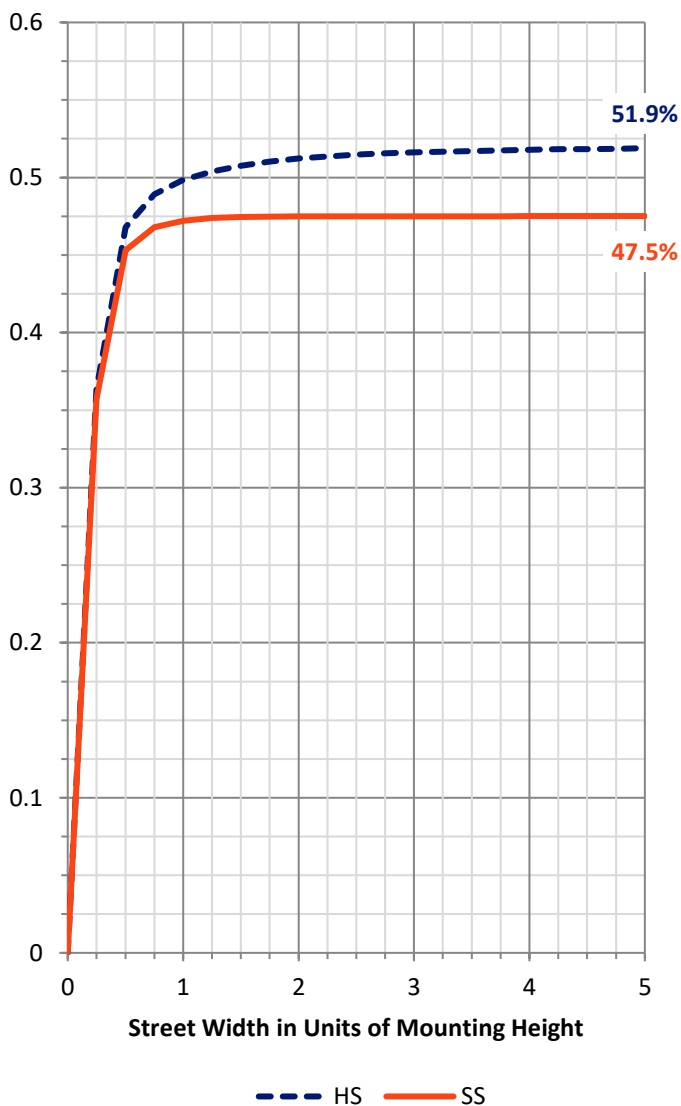
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6996.8	0.0	6996.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	6273.1	0.0	6273.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	13269.9	0.0	13269.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3773.7	28.4
10°-20°	5715.3	43.1
20°-30°	2411.9	18.2
30°-40°	629.0	4.7
40°-50°	318.2	2.4
50°-60°	208.0	1.6
60°-70°	124.6	0.9
70°-80°	65.5	0.5
80°-90°	23.7	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°	13269.9	100.0
0°-180°	13269.9	100.0

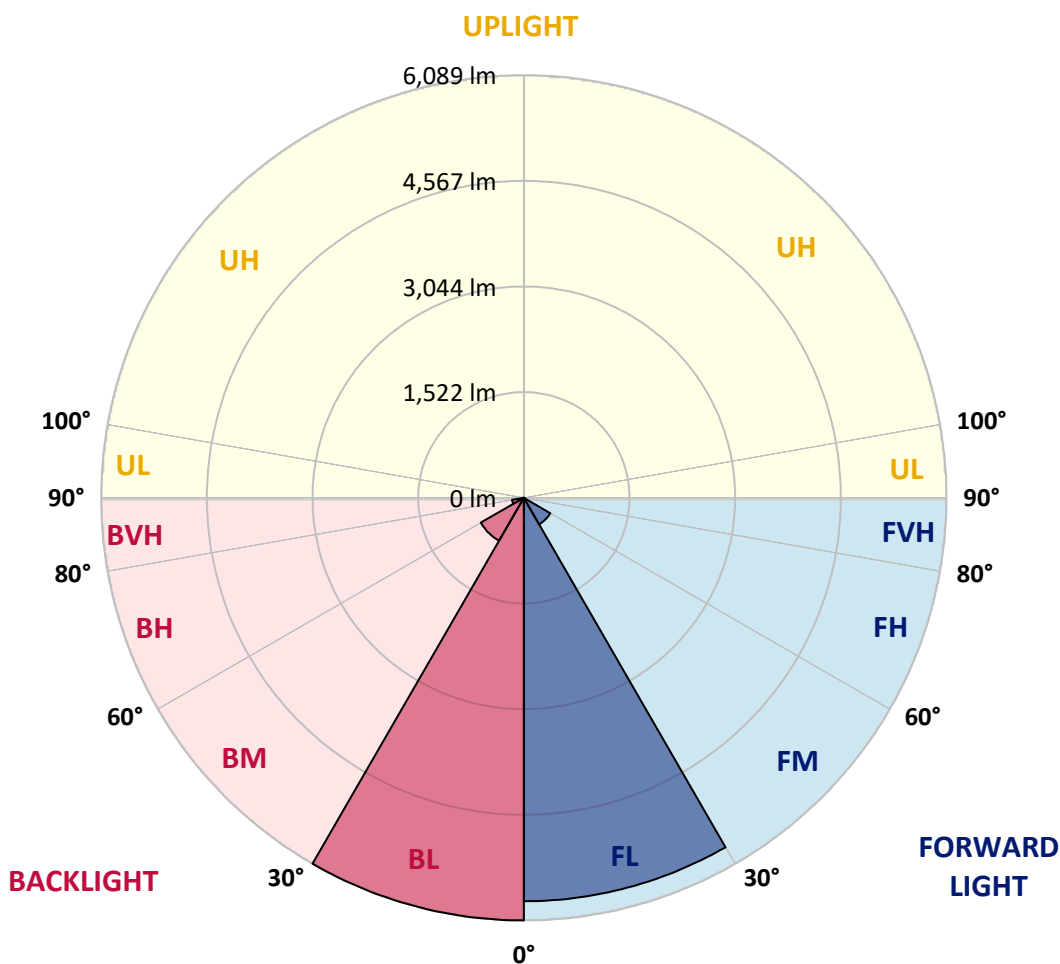


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5812.1	43.8			
FM (30°-60°)	440.2	3.3			
FH (60°-80°)	17.9	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6088.8	45.9	B5		
BM (30°-60°)	715.0	5.4	B1/1000		
BH (60°-80°)	172.2	1.3	B1/500		G0/660
BVH (80°-90°)	20.8	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°	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3
2.5°	45395.2	45420.5	45326.6	45529.3	45371.4	45794.6	45584.5	45912.3	45802.0	45985.3
5°	42295.5	42253.8	42227.0	42541.4	42450.5	42905.0	42614.4	42519.1	42814.1	42760.5
7.5°	37614.7	37725.0	37662.4	37744.4	37790.6	38309.2	38473.1	38344.9	38349.4	38423.9
10°	32816.2	32653.8	32422.8	32576.3	32901.2	33127.7	33036.8	33224.5	33182.8	33360.1
12.5°	26912.0	27040.1	26910.5	26773.4	27341.1	27278.5	27436.5	27539.3	27281.5	27855.3
15°	20271.5	20338.6	20496.5	20486.1	20922.7	21010.7	20989.8	21098.6	20897.4	20992.8
17.5°	13023.1	13249.6	13674.3	14392.6	15200.3	15294.2	15270.3	15180.9	15084.0	14976.7
20°	8747.6	8723.8	8877.3	9087.4	10759.4	11202.0	11188.6	10908.4	10503.1	10425.6
22.5°	6127.8	6172.5	6151.6	6360.3	6706.0	7926.5	7776.0	7491.4	7358.7	7272.3
25°	4031.1	4014.7	4119.0	4181.6	4478.1	4627.1	5154.7	5048.9	4844.7	4867.1
27.5°	2457.4	2478.2	2517.0	2570.6	2780.8	2733.1	3034.1	3074.3	3008.8	2938.7
30°	1508.1	1523.0	1554.3	1593.0	1666.1	1613.9	1697.4	1841.9	1818.1	1768.9
32.5°	1023.8	1025.3	1047.6	1062.5	1053.6	1004.4	1031.2	1168.3	1171.3	1166.8
35°	736.2	736.2	757.0	769.0	743.6	703.4	707.9	792.8	830.1	837.5
37.5°	508.2	509.7	545.4	581.2	552.9	542.4	524.6	581.2	640.8	649.7
40°	386.0	384.5	402.4	429.2	432.2	412.8	418.8	454.5	515.6	523.1
42.5°	312.9	314.4	323.4	320.4	321.9	347.2	356.2	372.6	429.2	442.6
45°	263.8	265.3	269.7	254.8	248.9	287.6	299.5	308.5	356.2	372.6
47.5°	217.6	220.6	225.0	208.6	205.7	231.0	251.8	260.8	302.5	320.4
50°	156.5	159.5	175.8	166.9	175.8	181.8	210.1	223.5	251.8	275.7
52.5°	113.3	116.2	120.7	122.2	144.6	147.5	168.4	189.3	202.7	229.5
55°	89.4	92.4	89.4	86.4	105.8	122.2	129.6	152.0	162.4	193.7
57.5°	50.7	53.6	58.1	67.1	70.0	93.9	101.3	120.7	129.6	159.5
60°	8.9	10.4	16.4	40.2	49.2	59.6	76.0	92.4	104.3	125.2
62.5°	1.5	1.5	3.0	8.9	28.3	41.7	55.1	65.6	76.0	95.4
65°	0.0	0.0	1.5	3.0	7.5	23.8	29.8	38.7	52.2	68.6
67.5°	0.0	0.0	1.5	3.0	4.5	8.9	13.4	23.8	29.8	46.2
70°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	10.4	17.9	28.3
72.5°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	8.9	8.9	17.9
75°	0.0	0.0	1.5	3.0	4.5	7.5	8.9	8.9	7.5	7.5
77.5°	0.0	0.0	1.5	3.0	6.0	8.9	10.4	8.9	6.0	6.0
80°	0.0	0.0	3.0	4.5	7.5	10.4	13.4	10.4	6.0	3.0
82.5°	0.0	0.0	3.0	6.0	7.5	11.9	16.4	13.4	6.0	3.0
85°	0.0	0.0	1.5	4.5	8.9	11.9	16.4	11.9	6.0	1.5
87.5°	0.0	0.0	1.5	1.5	3.0	4.5	8.9	7.5	3.0	1.5
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°
46757.3	0°	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3	46757.3
45638.1	2.5°	45900.4	46138.8	46188.0	46122.4	46217.8	46046.4	45915.3	45575.5	45371.4
42744.1	5°	43019.8	42984.0	43232.9	43314.8	43304.4	43173.3	42990.0	42784.3	42584.6
38279.4	7.5°	38517.8	38564.0	38790.5	38935.1	38862.1	38698.1	38571.5	38416.5	38282.4
33424.2	10°	33729.7	33412.3	33694.0	33694.0	33889.2	33425.7	33468.9	33078.5	33096.4
27844.8	12.5°	27940.2	28055.0	28101.1	28233.8	28005.8	27759.9	27458.9	27399.3	27213.0
20811.0	15°	21110.5	21438.4	21156.7	21638.0	21405.6	21149.3	21103.1	20641.1	20787.1
15094.5	17.5°	15020.0	15382.1	15495.3	15771.0	15559.4	15407.4	15215.2	15075.1	15064.7
10567.2	20°	10650.6	11014.2	11097.7	11428.5	11404.7	11357.0	11194.6	11017.2	10825.0
7193.3	22.5°	7302.1	7598.7	7875.8	8321.4	8314.0	8173.9	8157.5	7907.1	7911.6
4859.6	25°	4910.3	5126.4	5191.9	5647.9	5698.6	5683.7	5598.8	5366.3	5454.2
2968.5	27.5°	2971.5	3160.8	3382.8	3543.8	3695.8	3671.9	3587.0	3457.3	3400.7
1783.8	30°	1831.5	1916.4	1998.4	2192.1	2283.0	2330.7	2290.5	2169.8	2178.7
1174.3	32.5°	1199.6	1271.2	1330.8	1453.0	1500.7	1588.6	1572.2	1546.9	1517.0
845.0	35°	874.8	926.9	967.2	1023.8	1084.9	1159.4	1171.3	1160.9	1149.0
652.7	37.5°	667.6	721.3	767.5	791.3	839.0	897.1	929.9	928.4	919.5
532.0	40°	542.4	582.7	624.4	655.7	688.5	731.7	771.9	776.4	776.4
447.1	42.5°	453.0	487.3	529.0	561.8	585.7	625.9	667.6	670.6	667.6
378.5	45°	387.5	417.3	457.5	496.2	515.6	545.4	585.7	594.6	588.6
324.9	47.5°	336.8	363.6	397.9	439.6	460.5	487.3	524.6	535.0	533.5
280.2	50°	289.1	320.4	354.7	388.9	415.8	441.1	476.9	488.8	484.3
238.4	52.5°	254.8	283.1	312.9	350.2	381.5	403.9	432.2	453.0	447.1
201.2	55°	213.1	247.4	278.7	310.0	348.7	372.6	399.4	424.7	418.8
169.9	57.5°	184.8	213.1	248.9	277.2	315.9	344.2	371.1	397.9	396.4
138.6	60°	155.0	184.8	219.1	248.9	284.6	315.9	342.8	372.6	375.5
104.3	62.5°	122.2	158.0	187.8	222.0	257.8	292.1	315.9	345.7	350.2
79.0	65°	92.4	129.6	162.4	195.2	231.0	268.2	289.1	314.4	318.9
58.1	67.5°	68.6	99.8	138.6	168.4	205.7	241.4	260.8	281.7	289.1
35.8	70°	52.2	76.0	116.2	144.6	183.3	211.6	232.5	250.4	256.3
23.8	72.5°	32.8	59.6	93.9	123.7	158.0	183.3	198.2	208.6	217.6
13.4	75°	22.4	46.2	76.0	105.8	131.1	150.5	163.9	172.9	180.3
6.0	77.5°	13.4	35.8	62.6	87.9	104.3	119.2	132.6	138.6	143.1
4.5	80°	7.5	26.8	52.2	71.5	82.0	92.4	102.8	110.3	113.3
3.0	82.5°	4.5	20.9	41.7	55.1	59.6	70.0	80.5	84.9	84.9
1.5	85°	3.0	14.9	28.3	40.2	43.2	50.7	53.6	56.6	59.6
1.5	87.5°	3.0	8.9	17.9	22.4	23.8	26.8	28.3	31.3	34.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
46757.3
45220.8
42361.1
37827.8
32922.0
27043.1
20641.1
14787.5
10741.5
7825.2
5315.6
3351.5
2140.0
1506.6
1144.5
915.0
767.5
664.6
588.6
530.5
481.3
445.6
421.7
397.9
377.0
353.2
323.4
292.1
259.3
216.1
178.8
141.6
110.3
83.5
58.1
32.8
0.0

(END OF REPORT)