

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: P638018

Luminaire Tested: **IFLD-S-SA3A-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638018  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9218.4 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

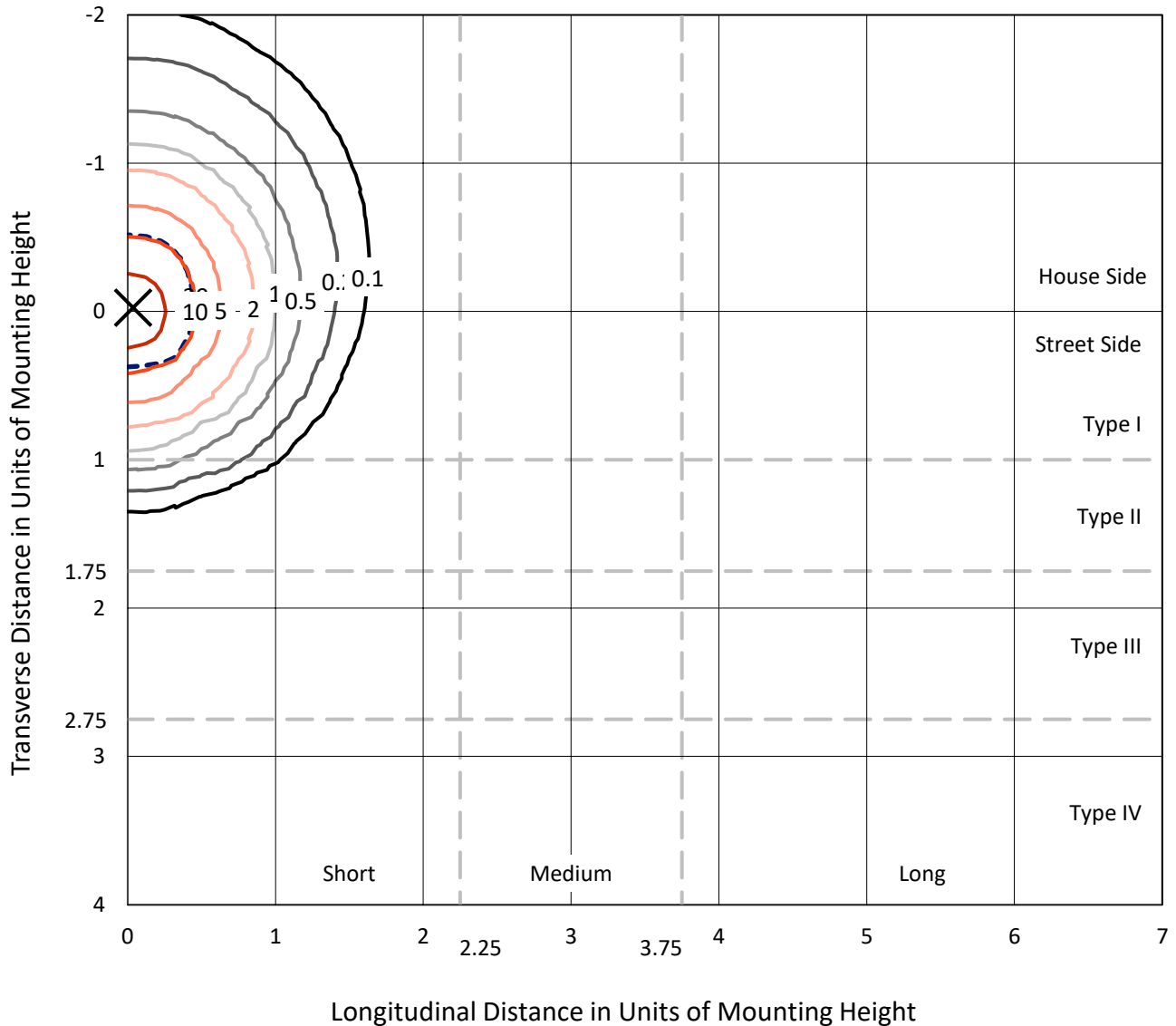
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

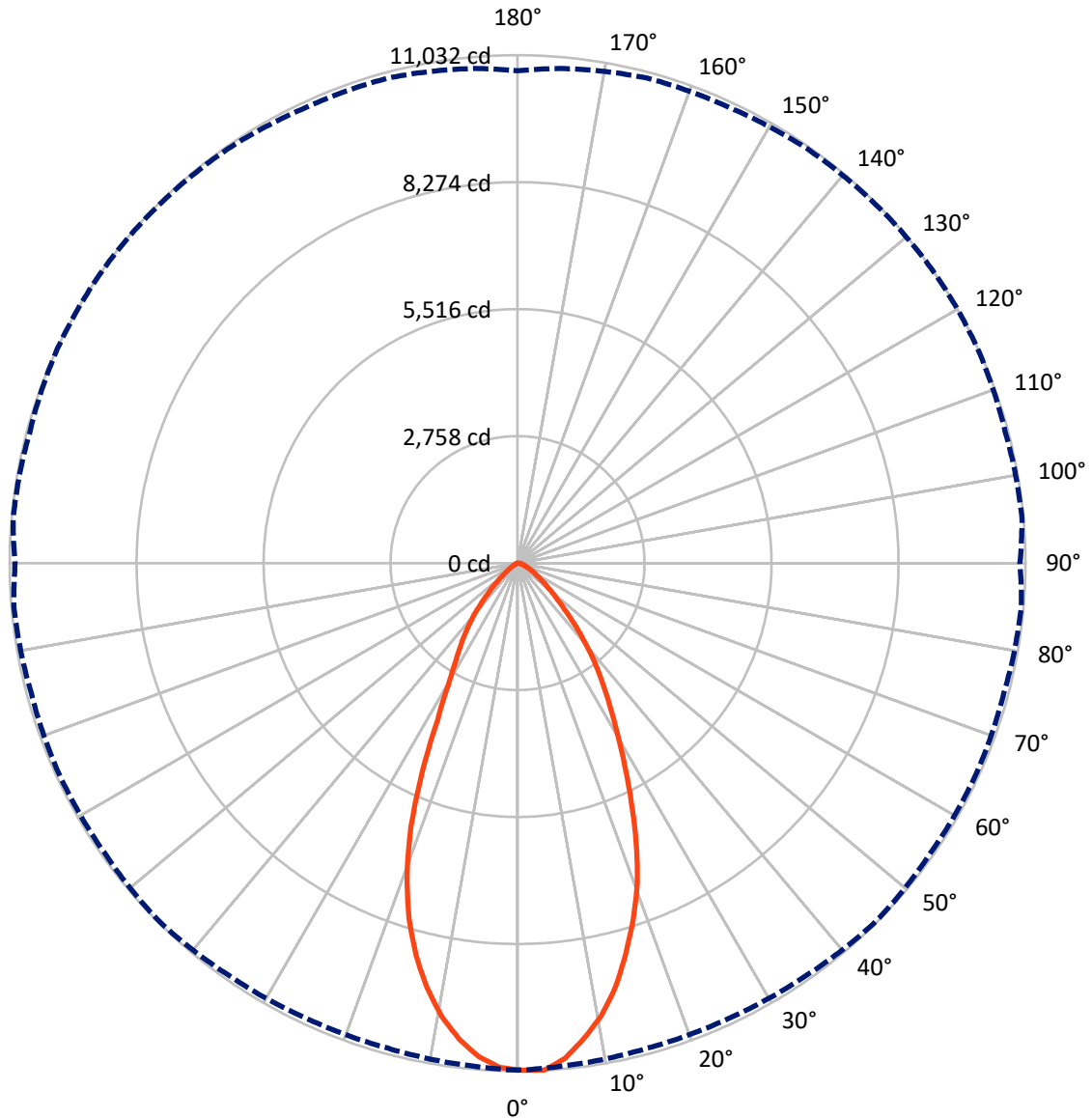
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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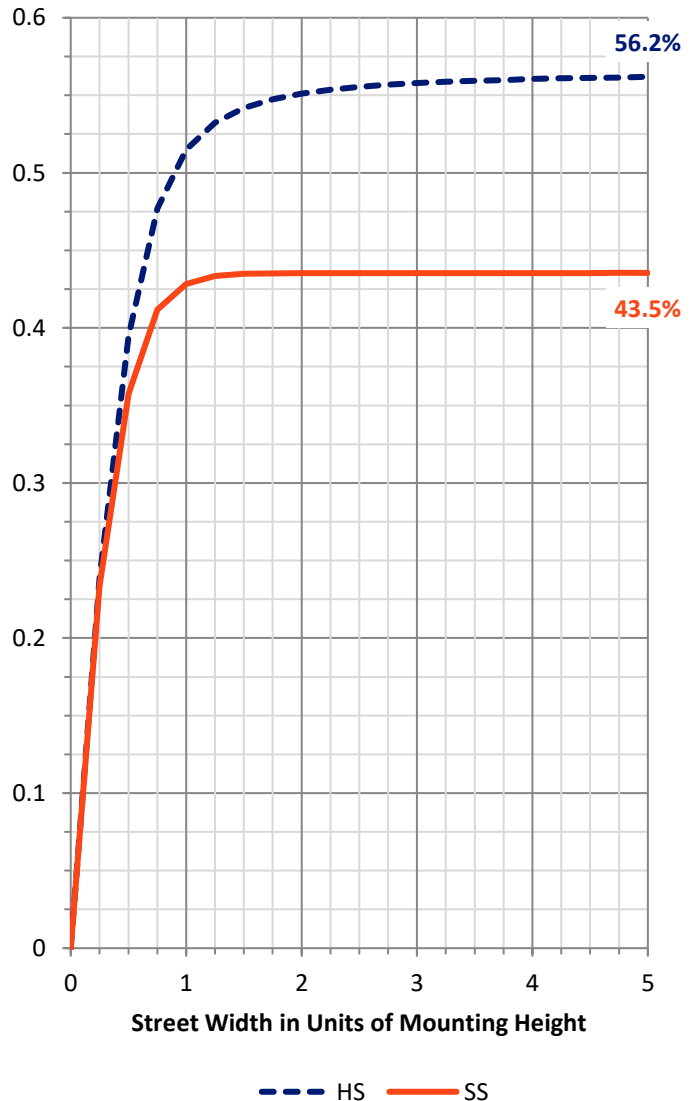
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5230.9	0.0	5230.9
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	3987.5	0.0	3987.5
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	9218.4	0.0	9218.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1000.1	10.8
10°-20°	2384.0	25.9
20°-30°	2428.1	26.3
30°-40°	1810.6	19.6
40°-50°	945.9	10.3
50°-60°	397.9	4.3
60°-70°	162.5	1.8
70°-80°	68.4	0.7
80°-90°	21.1	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°	9218.4	100.0
0°-180°	9218.4	100.0



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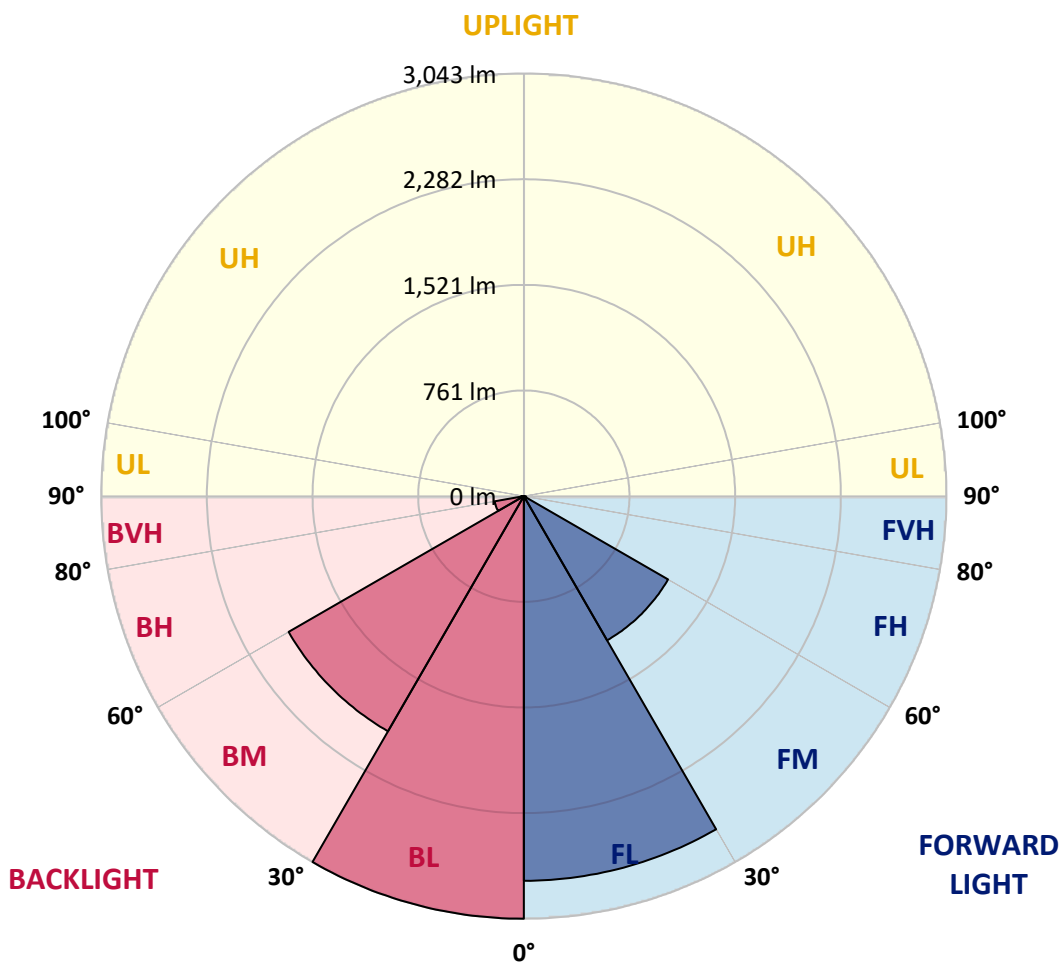
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.3	30.0			
FM (30°-60°)	1198.9	13.0			
FH (60°-80°)	17.4	0.2			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	3042.8	33.0	B4/5000		
BM (30°-60°)	1955.5	21.2	B2/2500		
BH (60°-80°)	213.5	2.3	B1/500		G1/500
BVH (80°-90°)	19.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8
2.5°	11015.0	10970.0	10906.0	10900.1	10933.3	11005.5	10959.3	10961.7	10933.3	10981.8
5°	10842.1	10799.5	10755.7	10697.6	10746.2	10777.0	10753.3	10727.2	10690.5	10737.9
7.5°	10515.3	10491.6	10426.5	10400.4	10430.0	10464.4	10413.4	10406.3	10355.4	10417.0
10°	10015.6	10006.1	9942.1	9926.8	9952.8	10004.9	9982.4	9977.7	9945.7	9939.8
12.5°	9496.9	9460.2	9380.9	9376.1	9415.2	9493.4	9433.0	9374.9	9392.7	9408.1
15°	8161.2	8122.1	8318.7	8627.7	8790.0	8784.0	8801.8	8731.9	8710.6	8717.7
17.5°	6488.0	6421.7	6492.7	6971.1	7742.0	8189.6	8066.4	7916.1	7835.5	7782.3
20°	5599.9	5603.4	5590.4	5713.5	6194.3	7215.0	7185.4	6895.3	6789.9	6746.1
22.5°	5059.9	5039.8	5011.3	5050.4	5179.5	5778.7	6180.1	5913.7	5876.9	5828.4
25°	4530.6	4530.6	4496.2	4535.3	4572.0	4580.3	4982.9	5091.9	5020.8	5020.8
27.5°	4072.3	4048.6	4033.2	4051.0	4002.4	3769.2	3820.1	4377.8	4329.3	4299.7
30°	3617.6	3610.5	3584.4	3608.1	3428.1	3165.2	3058.7	3694.6	3745.5	3734.8
32.5°	2986.4	3014.9	3130.9	3167.6	2859.7	2647.8	2545.9	3067.0	3270.6	3262.3
35°	2029.6	2053.3	2185.9	2624.1	2370.7	2219.1	2189.5	2439.4	2774.5	2806.4
37.5°	1616.4	1612.8	1650.7	1728.9	1905.3	1868.6	1860.3	1925.4	2262.9	2277.1
40°	1332.2	1327.4	1326.3	1262.3	1218.5	1553.6	1531.1	1492.0	1784.5	1812.9
42.5°	1074.0	1078.8	1082.3	942.6	878.6	1198.4	1185.3	1145.1	1399.7	1432.8
45°	843.1	841.9	849.0	702.2	684.4	766.1	885.7	853.8	1056.3	1091.8
47.5°	437.0	452.3	548.3	543.5	551.8	543.5	670.2	661.9	794.6	851.4
50°	293.7	298.4	306.7	307.9	434.6	400.2	454.7	515.1	556.6	644.2
52.5°	227.4	230.9	209.6	196.6	266.4	296.0	298.4	356.4	388.4	477.2
55°	126.7	142.1	152.8	153.9	146.8	219.1	217.9	264.1	288.9	348.1
57.5°	16.6	20.1	30.8	99.5	98.3	122.0	152.8	191.8	206.0	254.6
60°	1.2	2.4	3.6	15.4	65.1	71.0	104.2	119.6	143.3	178.8
62.5°	0.0	0.0	1.2	3.6	13.0	41.4	54.5	62.8	84.1	117.2
65°	0.0	0.0	1.2	2.4	4.7	15.4	21.3	34.3	49.7	72.2
67.5°	0.0	0.0	1.2	2.4	3.6	5.9	9.5	15.4	26.1	43.8
70°	0.0	0.0	1.2	2.4	3.6	4.7	7.1	9.5	14.2	23.7
72.5°	0.0	0.0	1.2	1.2	2.4	5.9	5.9	7.1	9.5	13.0
75°	0.0	0.0	1.2	2.4	3.6	5.9	5.9	5.9	7.1	8.3
77.5°	0.0	0.0	1.2	2.4	3.6	5.9	4.7	5.9	5.9	5.9
80°	0.0	0.0	1.2	2.4	3.6	5.9	7.1	5.9	4.7	4.7
82.5°	0.0	0.0	1.2	3.6	3.6	8.3	8.3	8.3	3.6	3.6
85°	0.0	0.0	2.4	3.6	5.9	9.5	9.5	7.1	3.6	2.4
87.5°	0.0	0.0	1.2	2.4	2.4	4.7	7.1	5.9	2.4	1.2
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°
11013.8	0°	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8	11013.8
10910.8	2.5°	10998.4	10968.8	11024.5	11031.6	11007.9	10978.3	10909.6	10903.7	10784.1
10669.2	5°	10790.0	10741.4	10777.0	10800.7	10792.4	10760.4	10732.0	10705.9	10598.2
10277.3	7.5°	10401.6	10383.8	10400.4	10418.2	10452.5	10418.2	10406.3	10379.1	10272.5
9891.2	10°	9970.6	9937.4	10000.2	9991.9	9982.4	9972.9	9923.2	9927.9	9802.4
9365.5	12.5°	9441.2	9385.6	9446.0	9453.1	9446.0	9412.8	9357.2	9380.9	9266.0
8655.0	15°	8729.6	8723.7	8767.5	8795.9	8816.0	8780.5	8761.5	8773.4	8704.7
7740.8	17.5°	7855.7	7932.6	8075.9	8124.5	8125.7	8162.4	8151.7	8137.5	8086.6
6728.4	20°	6827.8	6975.8	7196.1	7422.3	7487.4	7456.6	7442.4	7468.4	7392.7
5777.5	22.5°	5879.3	6006.0	6261.8	6592.2	6782.8	6801.8	6798.2	6775.7	6746.1
5016.1	25°	5074.1	5186.6	5431.7	5733.7	6099.6	6154.0	6156.4	6149.3	6123.3
4325.7	27.5°	4394.4	4530.6	4665.6	4935.5	5325.1	5550.1	5521.7	5513.4	5503.9
3743.1	30°	3778.6	3950.3	4077.0	4245.2	4594.5	4898.8	4928.4	4914.2	4891.7
3261.2	32.5°	3290.8	3392.6	3553.6	3667.3	3918.4	4262.9	4376.6	4366.0	4345.8
2826.6	35°	2866.8	2907.1	3033.8	3160.5	3327.5	3661.4	3829.5	3805.9	3802.3
2303.2	37.5°	2361.2	2496.2	2566.1	2693.9	2811.2	3070.5	3302.6	3291.9	3293.1
1852.0	40°	1906.5	1984.6	2123.2	2230.9	2338.7	2528.2	2786.3	2793.4	2791.0
1434.0	42.5°	1463.6	1539.4	1685.0	1802.3	1898.2	2015.4	2261.7	2270.0	2280.7
1116.7	45°	1142.7	1191.3	1297.8	1419.8	1521.6	1592.7	1779.8	1833.1	1834.3
865.6	47.5°	886.9	942.6	1018.4	1135.6	1235.1	1286.0	1422.2	1494.4	1490.8
664.3	50°	696.3	747.2	808.8	901.1	1008.9	1049.2	1149.8	1220.9	1217.3
500.9	52.5°	532.9	598.0	652.5	723.5	828.9	863.2	935.5	1017.2	1005.3
367.1	55°	403.8	470.1	521.0	580.2	676.2	720.0	769.7	834.8	837.2
284.2	57.5°	304.3	373.0	419.2	479.6	551.8	600.4	638.3	708.1	706.9
194.2	60°	217.9	277.1	332.7	395.5	451.2	506.8	532.9	599.2	601.5
137.4	62.5°	157.5	213.1	266.4	320.9	370.6	425.1	448.8	500.9	508.0
90.0	65°	110.1	149.2	210.8	252.2	307.9	348.1	378.9	423.9	432.2
53.3	67.5°	71.0	107.8	167.0	203.7	254.6	288.9	320.9	356.4	367.1
34.3	70°	42.6	81.7	124.3	163.4	209.6	240.4	271.2	302.0	307.9
16.6	72.5°	27.2	56.8	90.0	132.6	168.1	201.3	228.5	251.0	233.3
10.7	75°	15.4	39.1	71.0	104.2	136.2	168.1	190.6	202.5	162.2
7.1	77.5°	9.5	28.4	58.0	84.1	105.4	135.0	149.2	156.3	116.0
4.7	80°	5.9	21.3	48.6	68.7	68.7	99.5	116.0	122.0	84.1
3.6	82.5°	4.7	15.4	37.9	52.1	46.2	74.6	91.2	92.4	59.2
2.4	85°	3.6	11.8	23.7	34.3	32.0	52.1	53.3	59.2	39.1
2.4	87.5°	2.4	7.1	14.2	20.1	17.8	24.9	28.4	32.0	21.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11013.8
10690.5
10511.7
10250.0
9759.8
9232.8
8621.8
8010.8
7338.2
6689.3
6035.6
5448.3
4863.3
4292.6
3763.2
3255.2
2749.6
2245.2
1803.5
1477.8
1217.3
1006.5
837.2
704.6
595.6
505.6
429.8
365.9
303.1
216.7
153.9
108.9
78.2
54.5
35.5
18.9
0.0

(END OF REPORT)