

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: P637841

Luminaire Tested: **IFLD-S-SA2C-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637841  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10913.4 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

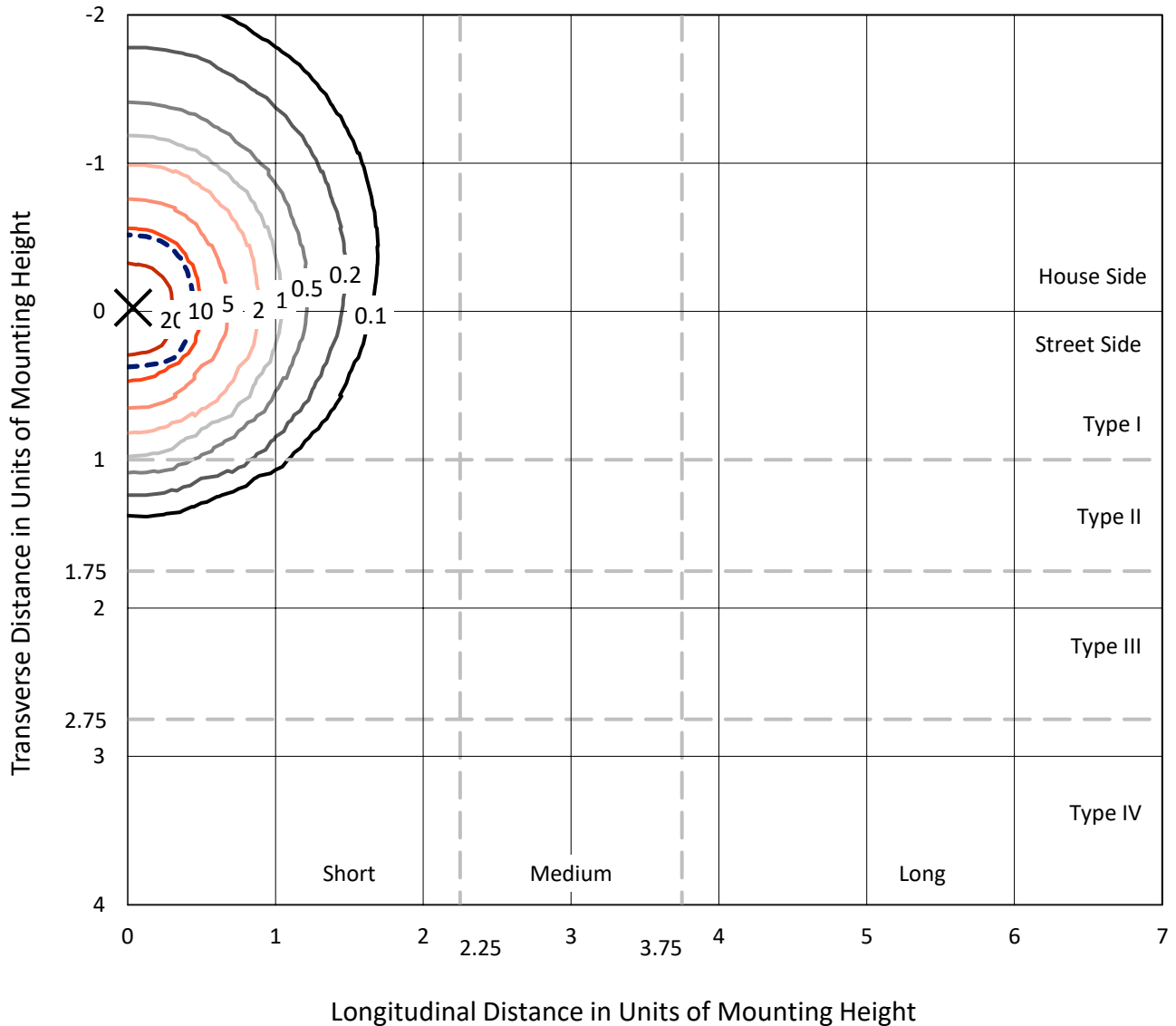
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

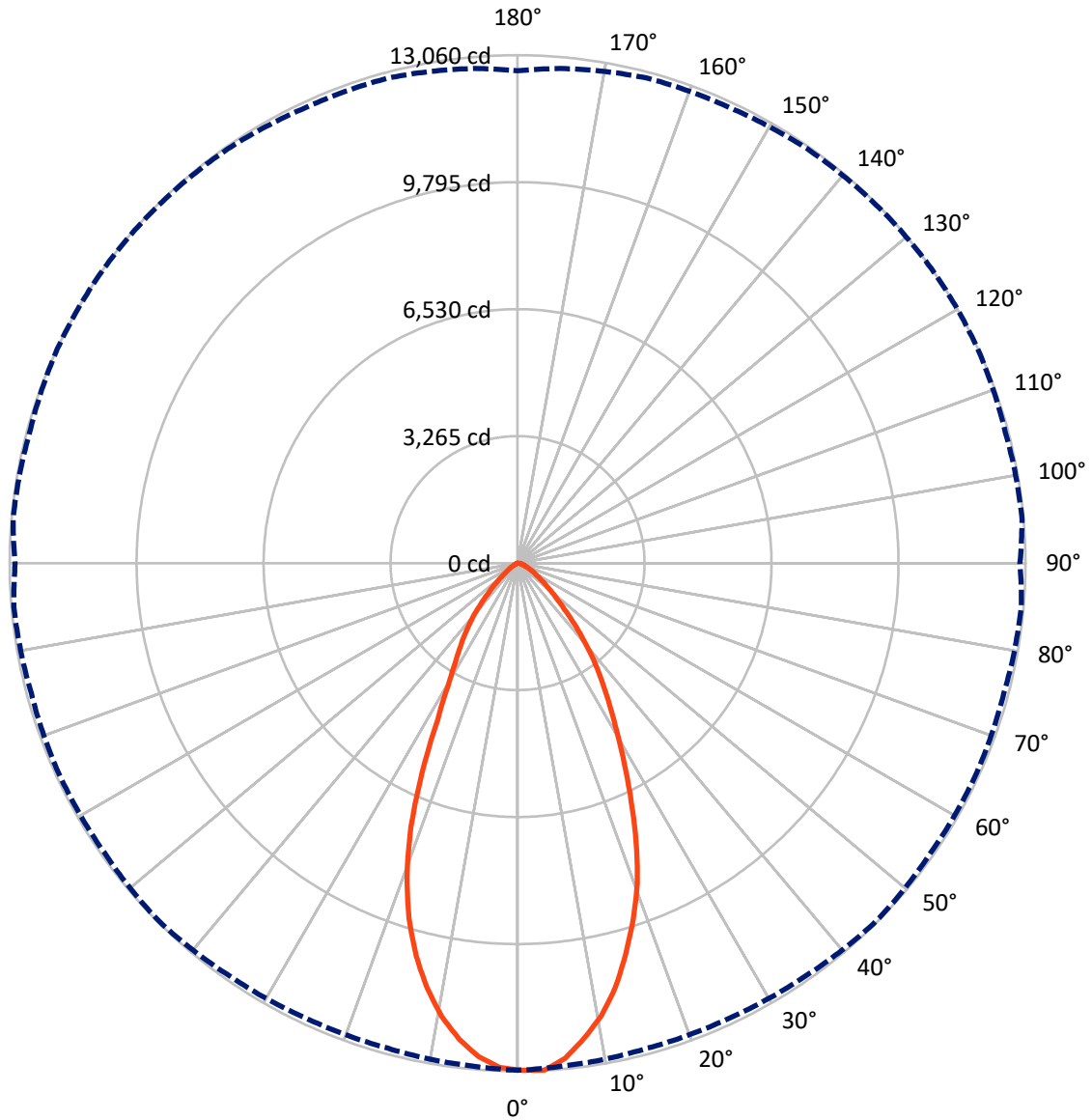
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.6 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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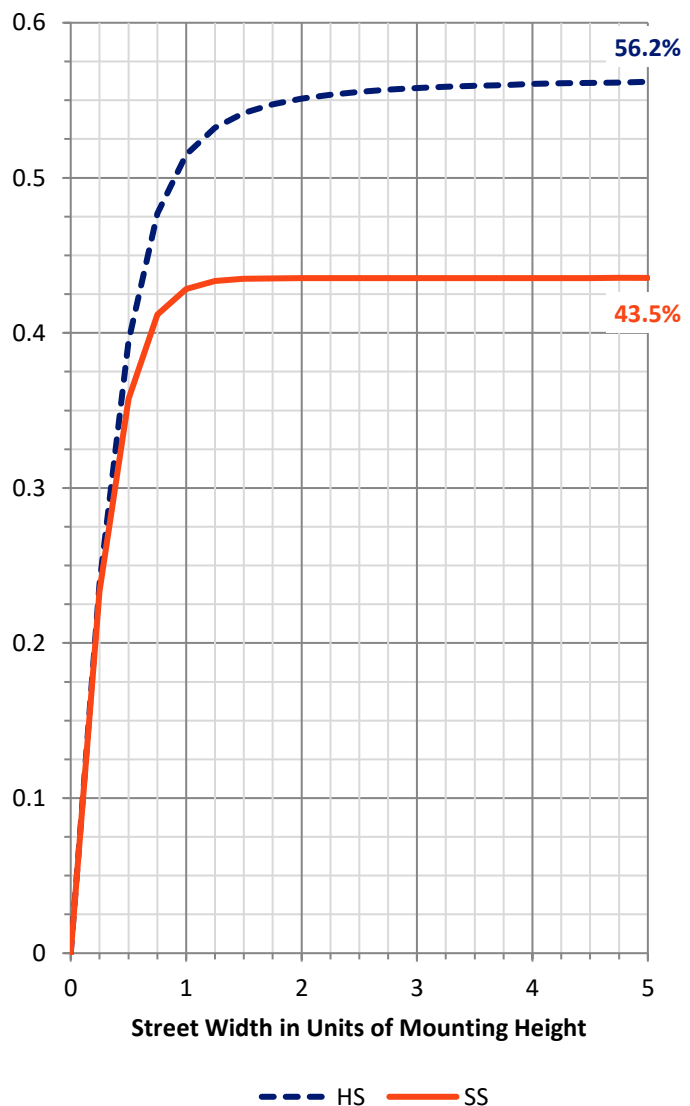
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6192.7	0.0	6192.7
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	4720.7	0.0	4720.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	10913.4	0.0	10913.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1184.0	10.8
10°-20°	2822.4	25.9
20°-30°	2874.5	26.3
30°-40°	2143.5	19.6
40°-50°	1119.8	10.3
50°-60°	471.0	4.3
60°-70°	192.4	1.8
70°-80°	80.9	0.7
80°-90°	24.9	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°	10913.4	100.0
0°-180°	10913.4	100.0



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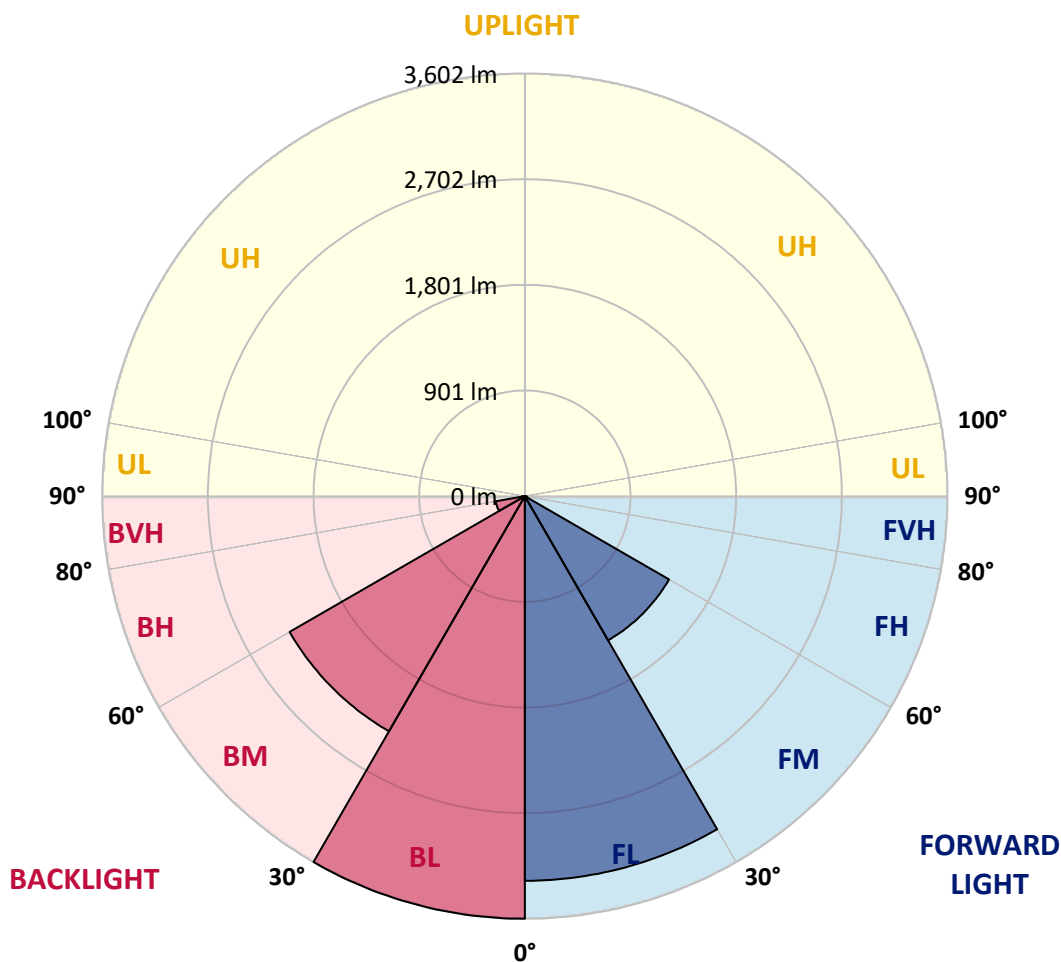
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3278.5	30.0			
FM (30°-60°)	1419.3	13.0			
FH (60°-80°)	20.5	0.2			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	3602.3	33.0	B4/5000		
BM (30°-60°)	2315.0	21.2	B2/2500		
BH (60°-80°)	252.8	2.3	B1/500		G1/500
BVH (80°-90°)	22.6	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°	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9
2.5°	13040.3	12987.1	12911.4	12904.4	12943.6	13029.1	12974.5	12977.3	12943.6	13001.1
5°	12835.7	12785.2	12733.3	12664.6	12722.1	12758.6	12730.5	12699.7	12656.2	12712.3
7.5°	12448.8	12420.7	12343.6	12312.8	12347.8	12388.5	12328.2	12319.8	12259.5	12332.4
10°	11857.2	11845.9	11770.2	11752.0	11782.9	11844.5	11817.9	11812.3	11774.4	11767.4
12.5°	11243.1	11199.7	11105.7	11100.1	11146.4	11238.9	11167.4	11098.7	11119.8	11138.0
15°	9661.8	9615.5	9848.3	10214.1	10406.2	10399.2	10420.2	10337.5	10312.3	10320.7
17.5°	7680.9	7602.4	7686.5	8252.9	9165.5	9695.4	9549.7	9371.6	9276.3	9213.2
20°	6629.5	6633.7	6618.3	6764.1	7333.3	8541.7	8506.6	8163.2	8038.4	7986.5
22.5°	5990.3	5966.4	5932.8	5979.0	6131.9	6841.2	7316.4	7001.0	6957.6	6900.1
25°	5363.6	5363.6	5323.0	5369.2	5412.7	5422.5	5899.1	6028.1	5944.0	5944.0
27.5°	4821.1	4793.0	4774.8	4795.9	4738.4	4462.2	4522.5	5182.8	5125.3	5090.2
30°	4282.8	4274.4	4243.5	4271.5	4058.5	3747.2	3621.1	4373.9	4434.2	4421.5
32.5°	3535.6	3569.2	3706.6	3750.0	3385.6	3134.6	3014.1	3630.9	3872.0	3862.2
35°	2402.8	2430.9	2587.9	3106.6	2806.6	2627.1	2592.1	2887.9	3284.6	3322.5
37.5°	1913.6	1909.4	1954.2	2046.8	2255.6	2212.2	2202.4	2279.5	2679.0	2695.8
40°	1577.1	1571.5	1570.1	1494.4	1442.5	1839.3	1812.6	1766.4	2112.6	2146.3
42.5°	1271.5	1277.1	1281.3	1115.9	1040.2	1418.7	1403.3	1355.6	1657.0	1696.3
45°	998.1	996.7	1005.2	831.3	810.3	907.0	1048.6	1010.8	1250.5	1292.5
47.5°	517.3	535.5	649.1	643.5	653.3	643.5	793.5	783.7	940.7	1008.0
50°	347.7	353.3	363.1	364.5	514.5	473.8	538.3	609.8	658.9	762.6
52.5°	269.2	273.4	248.1	232.7	315.4	350.5	353.3	422.0	459.8	565.0
55°	150.0	168.2	180.8	182.2	173.8	259.3	257.9	312.6	342.1	412.2
57.5°	19.6	23.8	36.4	117.8	116.4	144.4	180.8	227.1	243.9	301.4
60°	1.4	2.8	4.2	18.2	77.1	84.1	123.4	141.6	169.6	211.7
62.5°	0.0	0.0	1.4	4.2	15.4	49.1	64.5	74.3	99.5	138.8
65°	0.0	0.0	1.4	2.8	5.6	18.2	25.2	40.7	58.9	85.5
67.5°	0.0	0.0	1.4	2.8	4.2	7.0	11.2	18.2	30.8	51.9
70°	0.0	0.0	1.4	2.8	4.2	5.6	8.4	11.2	16.8	28.0
72.5°	0.0	0.0	1.4	1.4	2.8	7.0	7.0	8.4	11.2	15.4
75°	0.0	0.0	1.4	2.8	4.2	7.0	7.0	7.0	8.4	9.8
77.5°	0.0	0.0	1.4	2.8	4.2	7.0	5.6	7.0	7.0	7.0
80°	0.0	0.0	1.4	2.8	4.2	7.0	8.4	7.0	5.6	5.6
82.5°	0.0	0.0	1.4	4.2	4.2	9.8	9.8	9.8	4.2	4.2
85°	0.0	0.0	2.8	4.2	7.0	11.2	11.2	8.4	4.2	2.8
87.5°	0.0	0.0	1.4	2.8	2.8	5.6	8.4	7.0	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°
13038.9	0°	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9	13038.9
12917.0	2.5°	13020.7	12985.7	13051.6	13060.0	13031.9	12996.9	12915.6	12908.6	12767.0
12631.0	5°	12774.0	12716.5	12758.6	12786.6	12776.8	12738.9	12705.3	12674.5	12546.9
12167.0	7.5°	12314.2	12293.1	12312.8	12333.8	12374.5	12333.8	12319.8	12287.5	12161.4
11710.0	10°	11803.9	11764.6	11838.9	11829.1	11817.9	11806.7	11747.8	11753.4	11604.8
11087.5	12.5°	11177.2	11111.4	11182.8	11191.3	11182.8	11143.6	11077.7	11105.7	10969.8
10246.4	15°	10334.7	10327.7	10379.6	10413.2	10437.0	10395.0	10372.6	10386.6	10305.3
9164.1	17.5°	9300.1	9391.2	9560.9	9618.3	9619.7	9663.2	9650.6	9633.8	9573.5
7965.5	20°	8083.3	8258.5	8519.3	8787.0	8864.1	8827.7	8810.9	8841.7	8752.0
6839.8	22.5°	6960.4	7110.4	7413.2	7804.3	8030.0	8052.4	8048.2	8021.6	7986.5
5938.4	25°	6007.1	6140.3	6430.5	6787.9	7221.1	7285.6	7288.4	7280.0	7249.2
5121.1	27.5°	5202.4	5363.6	5523.4	5843.1	6304.3	6570.6	6537.0	6527.2	6516.0
4431.4	30°	4473.4	4676.7	4826.7	5025.8	5439.3	5799.6	5834.7	5817.8	5791.2
3860.8	32.5°	3895.8	4016.4	4207.1	4341.6	4638.8	5046.8	5181.4	5168.8	5144.9
3346.3	35°	3394.0	3441.6	3591.6	3741.6	3939.3	4334.6	4533.7	4505.7	4501.5
2726.7	37.5°	2795.4	2955.2	3037.9	3189.3	3328.1	3635.1	3909.9	3897.2	3898.6
2192.6	40°	2257.0	2349.6	2513.6	2641.2	2768.7	2993.0	3298.6	3307.1	3304.2
1697.7	42.5°	1732.7	1822.5	1994.9	2133.7	2247.2	2386.0	2677.6	2687.4	2700.0
1322.0	45°	1352.8	1410.3	1536.5	1680.9	1801.4	1885.5	2107.0	2170.1	2171.5
1024.8	47.5°	1050.0	1115.9	1205.6	1344.4	1462.2	1522.4	1683.7	1769.2	1765.0
786.5	50°	824.3	884.6	957.5	1066.8	1194.4	1242.1	1361.2	1445.3	1441.1
593.0	52.5°	630.8	708.0	772.4	856.6	981.3	1022.0	1107.5	1204.2	1190.2
434.6	55°	478.0	556.5	616.8	686.9	800.5	852.3	911.2	988.3	991.1
336.5	57.5°	360.3	441.6	496.3	567.8	653.3	710.8	755.6	838.3	836.9
229.9	60°	257.9	328.0	393.9	468.2	534.1	600.0	630.8	709.4	712.2
162.6	62.5°	186.5	252.3	315.4	379.9	438.8	503.3	531.3	593.0	601.4
106.5	65°	130.4	176.6	249.5	298.6	364.5	412.2	448.6	501.9	511.7
63.1	67.5°	84.1	127.6	197.7	241.1	301.4	342.1	379.9	422.0	434.6
40.7	70°	50.5	96.7	147.2	193.5	248.1	284.6	321.0	357.5	364.5
19.6	72.5°	32.2	67.3	106.5	157.0	199.1	238.3	270.6	297.2	276.2
12.6	75°	18.2	46.3	84.1	123.4	161.2	199.1	225.7	239.7	192.1
8.4	77.5°	11.2	33.6	68.7	99.5	124.8	159.8	176.6	185.0	137.4
5.6	80°	7.0	25.2	57.5	81.3	81.3	117.8	137.4	144.4	99.5
4.2	82.5°	5.6	18.2	44.9	61.7	54.7	88.3	107.9	109.3	70.1
2.8	85°	4.2	14.0	28.0	40.7	37.9	61.7	63.1	70.1	46.3
2.8	87.5°	2.8	8.4	16.8	23.8	21.0	29.4	33.6	37.9	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
13038.9
12656.2
12444.5
12134.7
11554.3
10930.5
10207.1
9483.8
8687.5
7919.3
7145.4
6450.1
5757.5
5081.8
4455.2
3853.8
3255.2
2658.0
2135.1
1749.6
1441.1
1191.6
991.1
834.1
705.1
598.6
508.9
433.2
358.9
256.5
182.2
129.0
92.5
64.5
42.1
22.4
0.0

(END OF REPORT)