

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: P636788

Luminaire Tested: **IFLD-L-SA7C-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636788  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22641.5 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

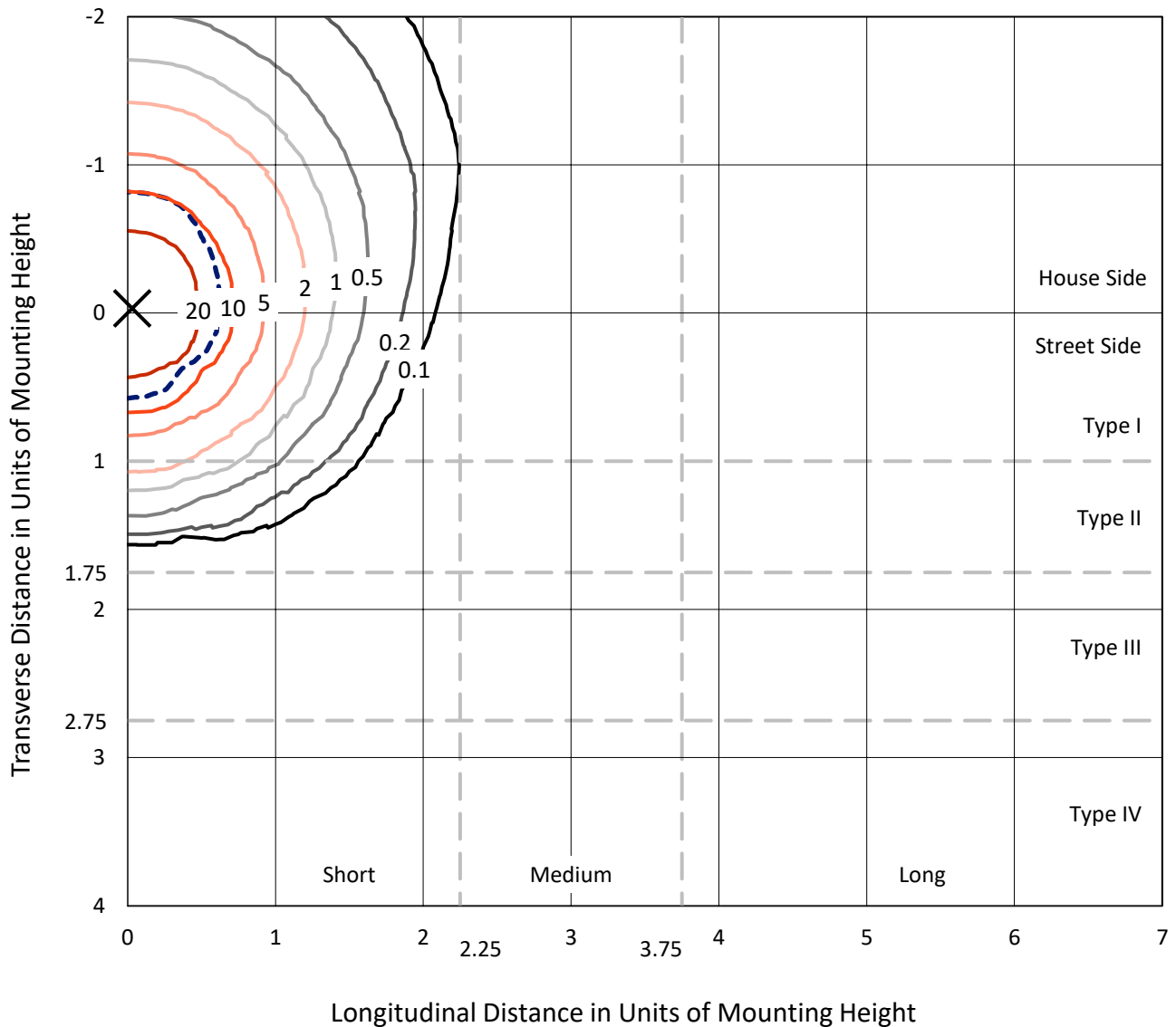
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

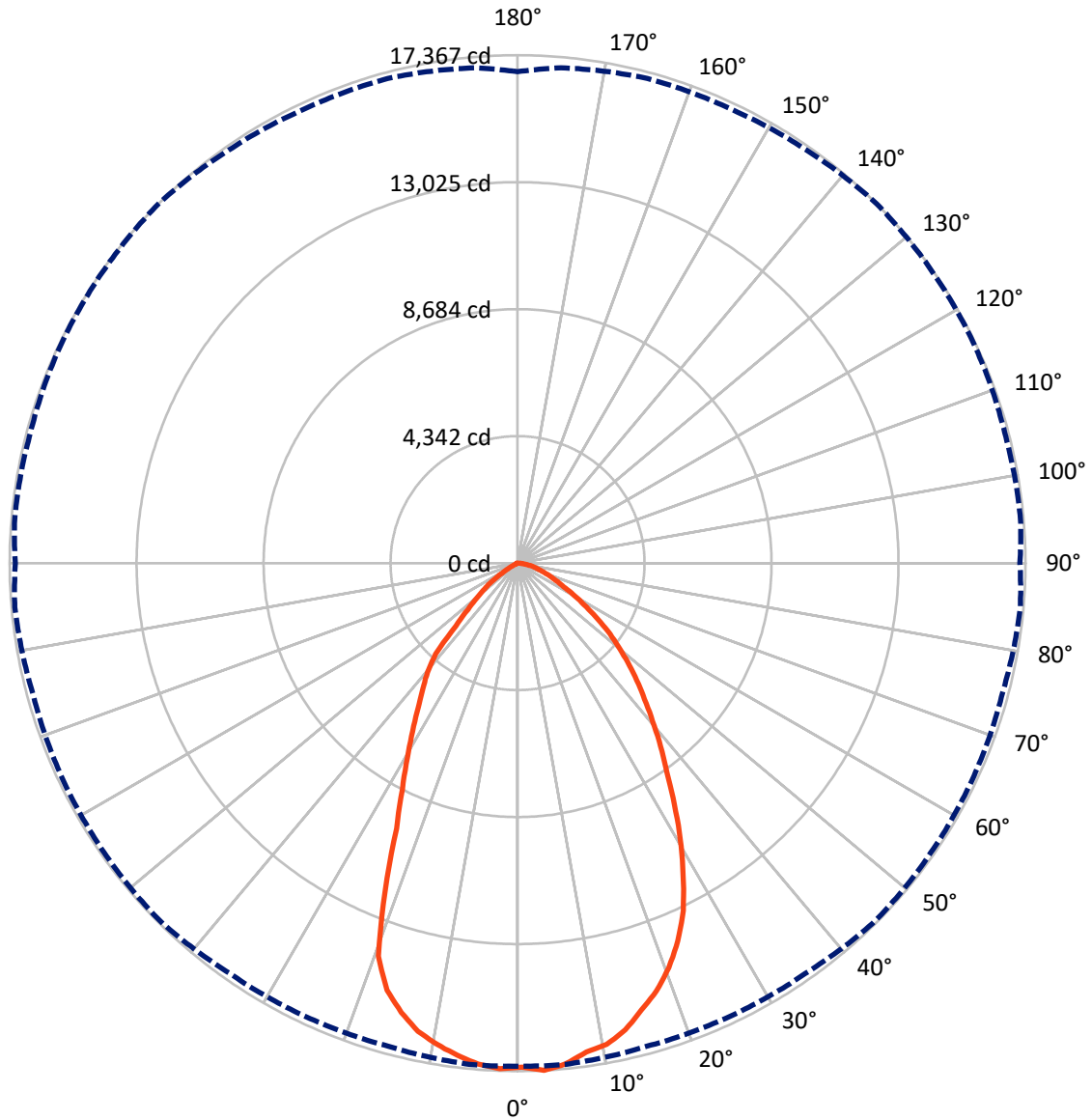
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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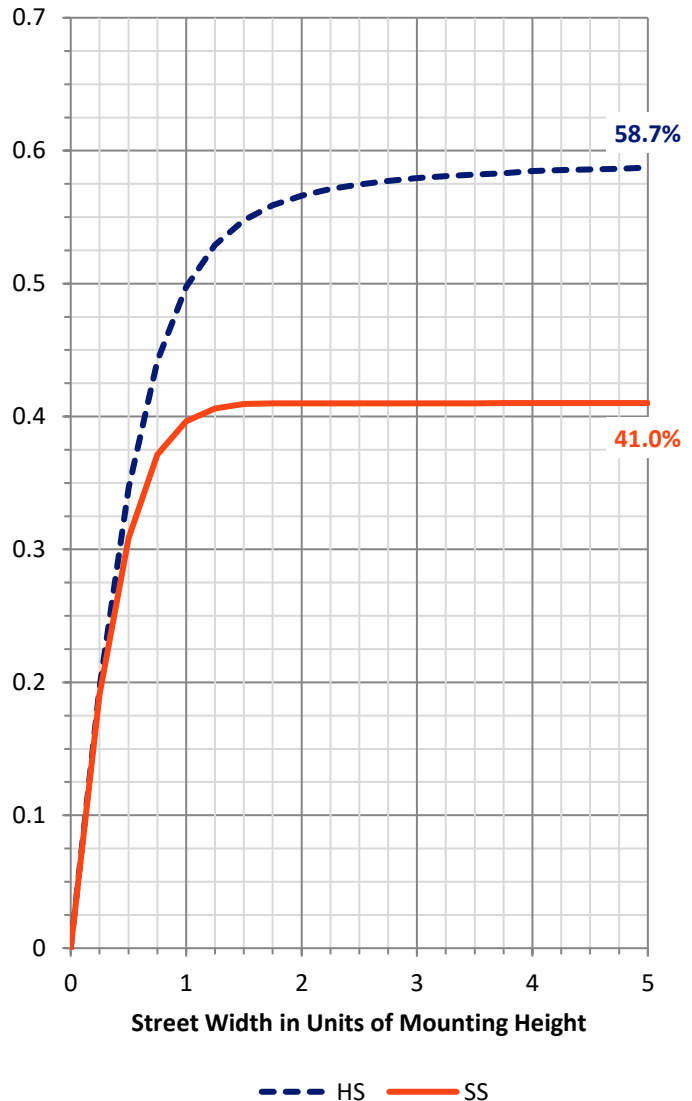
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13409.4	0.0	13409.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	9232.0	0.0	9232.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	22641.5	0.0	22641.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1615.9	7.1
10°-20°	4333.2	19.1
20°-30°	5284.5	23.3
30°-40°	4824.7	21.3
40°-50°	3486.7	15.4
50°-60°	1903.8	8.4
60°-70°	787.2	3.5
70°-80°	318.8	1.4
80°-90°	86.7	0.4
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°	22641.5	100.0
0°-180°	22641.5	100.0



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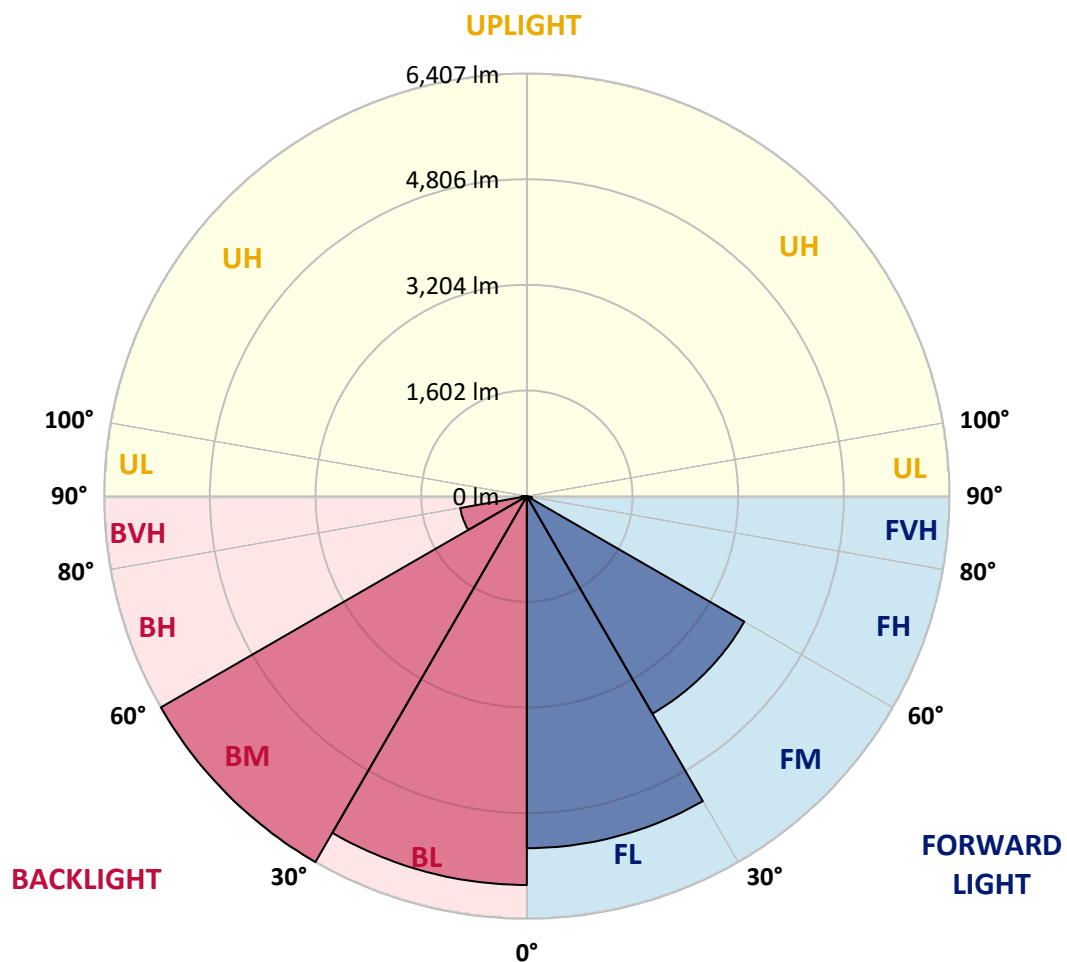
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5337.4	23.6			
FM (30°-60°)	3807.9	16.8			
FH (60°-80°)	79.8	0.4			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	5896.2	26.0	B5		
BM (30°-60°)	6407.3	28.3	B4/8500		
BH (60°-80°)	1026.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	79.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1
2.5°	17198.2	17220.5	17099.4	17112.1	17134.4	17297.0	17255.6	17217.3	17163.1	17255.6
5°	17175.9	17188.6	17061.1	17016.5	17035.6	17182.3	17048.3	17048.3	17035.6	17019.7
7.5°	17003.7	17010.1	16911.2	16831.5	16882.6	16949.5	16850.7	16898.5	16828.3	16882.6
10°	16745.5	16704.0	16586.0	16563.7	16621.1	16684.9	16617.9	16662.6	16598.8	16640.2
12.5°	16366.0	16302.3	16206.6	16177.9	16276.8	16362.8	16308.6	16283.1	16200.2	16302.3
15°	14902.6	14854.7	15071.5	15451.0	15792.1	15865.5	15808.1	15833.6	15661.4	15690.1
17.5°	12265.8	12176.5	12409.2	13308.4	14590.1	15266.0	15215.0	15049.2	14794.2	14851.5
20°	11146.6	11121.1	11095.6	11309.2	12205.2	14255.3	14325.5	13904.6	13541.1	13461.4
22.5°	10515.3	10505.8	10480.3	10528.1	10764.0	12080.8	12884.3	12495.3	12253.0	12230.7
25°	9938.2	9922.3	9845.8	9906.3	9906.3	9982.9	11012.7	11248.7	11035.0	11009.5
27.5°	9351.6	9322.9	9310.1	9338.8	9192.1	8675.6	8937.1	10088.1	9976.5	9982.9
30°	8717.1	8707.5	8672.4	8733.0	8280.3	7639.4	7473.6	9035.9	9058.2	9051.9
32.5°	7773.3	7814.8	7974.2	8041.1	7295.0	6765.8	6488.4	7817.9	8273.9	8264.3
35°	5646.6	5646.6	6166.4	7132.4	6392.7	5994.2	5844.3	6628.7	7499.1	7531.0
37.5°	4642.3	4658.2	4760.3	5200.3	5515.9	5375.6	5331.0	5579.7	6504.3	6555.3
40°	4176.8	4176.8	4176.8	3995.1	3985.5	4843.2	4817.7	4738.0	5618.0	5729.5
42.5°	3752.7	3762.3	3768.7	3309.6	3054.5	4186.4	4129.0	4007.8	4824.0	4954.8
45°	3315.9	3331.9	3351.0	2767.5	2655.9	3013.0	3494.5	3360.6	4039.7	4208.7
47.5°	2024.6	2050.1	2483.8	2346.7	2359.4	2324.3	2850.4	2828.1	3312.7	3551.9
50°	1367.8	1377.4	1418.8	1489.0	2024.6	1827.0	2018.3	2340.3	2515.6	2879.1
52.5°	1147.8	1163.8	1061.7	966.1	1329.6	1428.4	1409.3	1737.7	1807.8	2257.4
55°	806.7	857.7	809.9	800.3	755.6	1109.6	1068.1	1335.9	1380.6	1715.4
57.5°	82.9	95.7	165.8	596.2	494.2	628.1	762.0	978.8	1023.5	1265.8
60°	6.4	6.4	15.9	82.9	360.3	376.2	526.1	602.6	688.7	883.2
62.5°	0.0	3.2	6.4	12.8	57.4	200.9	264.6	315.7	414.5	570.7
65°	0.0	0.0	3.2	9.6	12.8	76.5	102.0	165.8	226.4	353.9
67.5°	0.0	0.0	3.2	6.4	9.6	19.1	35.1	60.6	121.2	200.9
70°	0.0	0.0	3.2	6.4	9.6	15.9	25.5	38.3	54.2	108.4
72.5°	0.0	0.0	3.2	3.2	6.4	15.9	19.1	25.5	38.3	54.2
75°	0.0	0.0	3.2	3.2	9.6	19.1	15.9	19.1	25.5	35.1
77.5°	0.0	0.0	3.2	6.4	9.6	19.1	15.9	19.1	19.1	22.3
80°	0.0	0.0	3.2	6.4	12.8	22.3	19.1	19.1	15.9	15.9
82.5°	0.0	0.0	3.2	9.6	12.8	28.7	28.7	25.5	12.8	9.6
85°	0.0	0.0	6.4	12.8	19.1	31.9	31.9	25.5	9.6	6.4
87.5°	0.0	0.0	6.4	9.6	15.9	22.3	31.9	25.5	9.6	3.2
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°
17230.1	0°	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1	17230.1
17175.9	2.5°	17262.0	17242.8	17306.6	17332.1	17367.2	17233.3	17150.4	17153.6	17000.5
16981.4	5°	17083.4	17086.6	17169.5	17163.1	17198.2	17124.9	17093.0	17038.8	16904.9
16735.9	7.5°	16857.0	16828.3	16908.1	16968.6	16879.4	16930.4	16857.0	16882.6	16802.8
16519.1	10°	16681.7	16614.7	16688.1	16729.5	16732.7	16681.7	16611.5	16544.6	16515.9
16181.1	12.5°	16292.7	16206.6	16331.0	16388.4	16378.8	16279.9	16200.2	16216.2	16123.7
15588.1	15°	15757.0	15760.2	15849.5	15903.7	15852.7	15830.4	15836.8	15798.5	15718.8
14768.6	17.5°	14937.6	14985.5	15221.4	15352.1	15380.8	15336.2	15313.9	15269.2	15189.5
13461.4	20°	13573.0	13860.0	14280.8	14685.7	14765.5	14752.7	14673.0	14653.9	14609.2
12166.9	22.5°	12374.2	12587.8	13075.6	13706.9	14032.1	14064.0	13968.4	13939.7	13891.8
11009.5	25°	11133.9	11363.4	11803.4	12488.9	13161.7	13298.8	13282.9	13196.8	13145.8
9982.9	27.5°	10088.1	10317.6	10716.2	11334.7	12055.3	12495.3	12536.8	12399.7	12396.5
9067.8	30°	9144.3	9460.0	9762.9	10266.6	10964.9	11624.9	11695.0	11599.4	11608.9
8229.2	32.5°	8404.6	8666.1	8924.3	9262.3	9842.6	10611.0	10885.2	10795.9	10760.8
7531.0	35°	7649.0	7827.5	8092.1	8401.4	8796.8	9558.8	10033.9	9966.9	9931.9
6587.2	37.5°	6788.1	7094.2	7285.5	7633.0	7942.3	8548.1	9217.7	9208.1	9134.8
5783.7	40°	5904.9	6226.9	6517.1	6867.8	7106.9	7588.4	8331.3	8328.1	8337.7
4951.6	42.5°	5104.6	5401.1	5751.9	6134.5	6364.0	6714.8	7511.9	7556.5	7610.7
4266.1	45°	4380.9	4648.7	4973.9	5439.4	5716.8	5917.7	6625.5	6829.5	6826.4
3653.9	47.5°	3730.4	3982.3	4256.5	4709.3	5063.2	5244.9	5831.6	6121.7	6102.6
2997.1	50°	3131.0	3354.2	3641.1	3969.6	4444.6	4604.0	5040.9	5423.5	5394.8
2388.1	52.5°	2518.8	2828.1	3070.4	3370.1	3870.7	4026.9	4364.9	4738.0	4715.6
1791.9	55°	1964.1	2263.8	2557.1	2815.4	3236.2	3469.0	3711.3	4093.9	4087.5
1402.9	57.5°	1485.8	1814.2	2091.6	2337.1	2671.9	2958.8	3153.3	3500.9	3545.5
959.7	60°	1100.0	1351.9	1651.6	1925.8	2190.4	2486.9	2617.7	2958.8	2978.0
656.8	62.5°	749.3	1026.7	1320.0	1568.7	1766.4	2072.5	2190.4	2471.0	2506.1
420.9	65°	519.7	698.3	1033.0	1211.6	1453.9	1715.4	1833.3	2056.5	2126.7
242.3	67.5°	344.3	497.4	806.7	969.3	1208.4	1387.0	1536.8	1718.5	1795.1
153.0	70°	188.1	366.7	577.1	765.2	972.5	1144.6	1291.3	1438.0	1504.9
70.1	72.5°	127.5	245.5	401.7	605.8	784.3	953.3	1084.1	1192.5	1195.6
41.4	75°	63.8	165.8	306.1	468.7	612.2	778.0	895.9	959.7	883.2
25.5	77.5°	38.3	121.2	248.7	376.2	497.4	628.1	695.1	730.1	605.8
19.1	80°	22.3	86.1	194.5	299.7	344.3	462.3	526.1	535.7	404.9
12.8	82.5°	15.9	63.8	153.0	220.0	210.4	325.2	395.4	382.6	258.3
9.6	85°	9.6	44.6	95.7	137.1	127.5	213.6	229.6	235.9	149.9
6.4	87.5°	6.4	25.5	51.0	73.3	60.6	92.5	92.5	111.6	73.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
17230.1
16802.8
16873.0
16668.9
16388.4
16044.0
15639.1
15154.4
14507.2
13879.1
13091.6
12390.1
11561.1
10764.0
9884.0
9195.3
8337.7
7582.0
6832.7
6109.0
5420.3
4763.5
4103.5
3526.4
3006.7
2512.5
2110.7
1785.5
1479.4
1167.0
825.8
583.5
379.4
239.1
137.1
63.8
0.0

(END OF REPORT)