

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: P638257

Luminaire Tested: **IFLD-S-SA6C-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638257  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

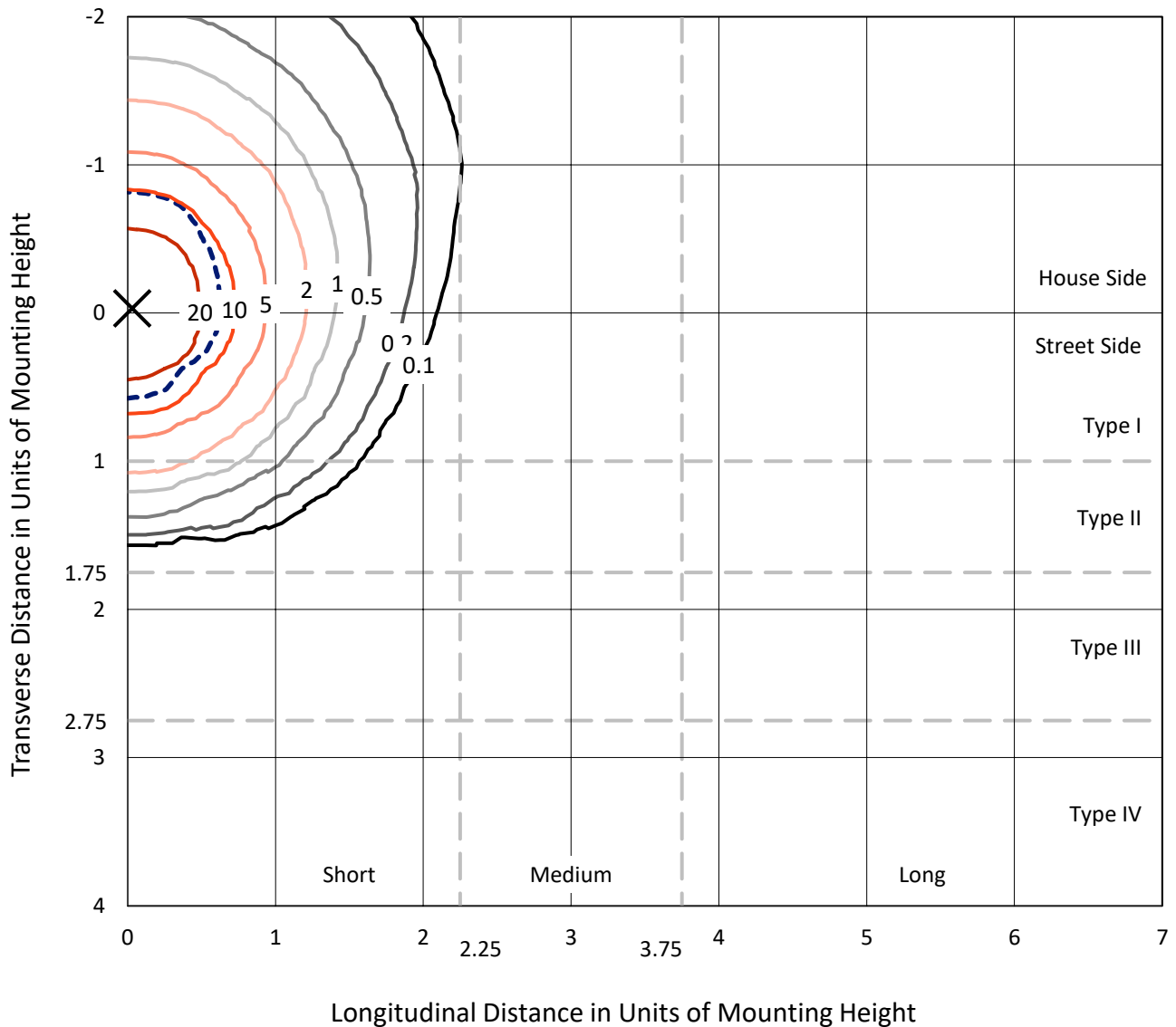
Lumens per Lamp: N/A  
Luminaire Lumens: 23494.5 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

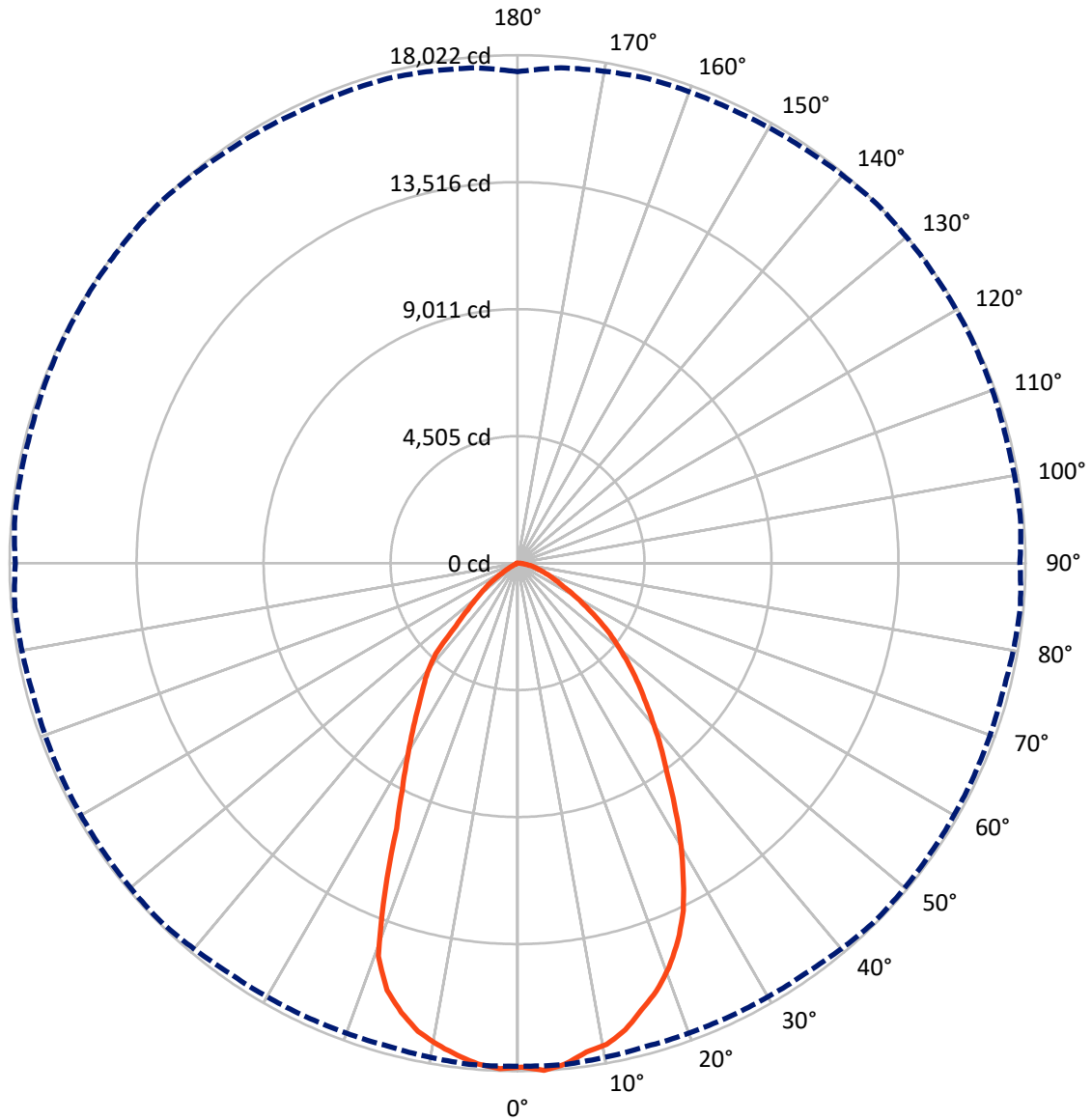
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.7 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	13914.7	0.0	13914.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	9579.9	0.0	9579.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	23494.5	0.0	23494.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1676.8	7.1
10°-20°	4496.4	19.1
20°-30°	5483.6	23.3
30°-40°	5006.5	21.3
40°-50°	3618.1	15.4
50°-60°	1975.5	8.4
60°-70°	816.8	3.5
70°-80°	330.8	1.4
80°-90°	90.0	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°	23494.5	100.0
0°-180°	23494.5	100.0

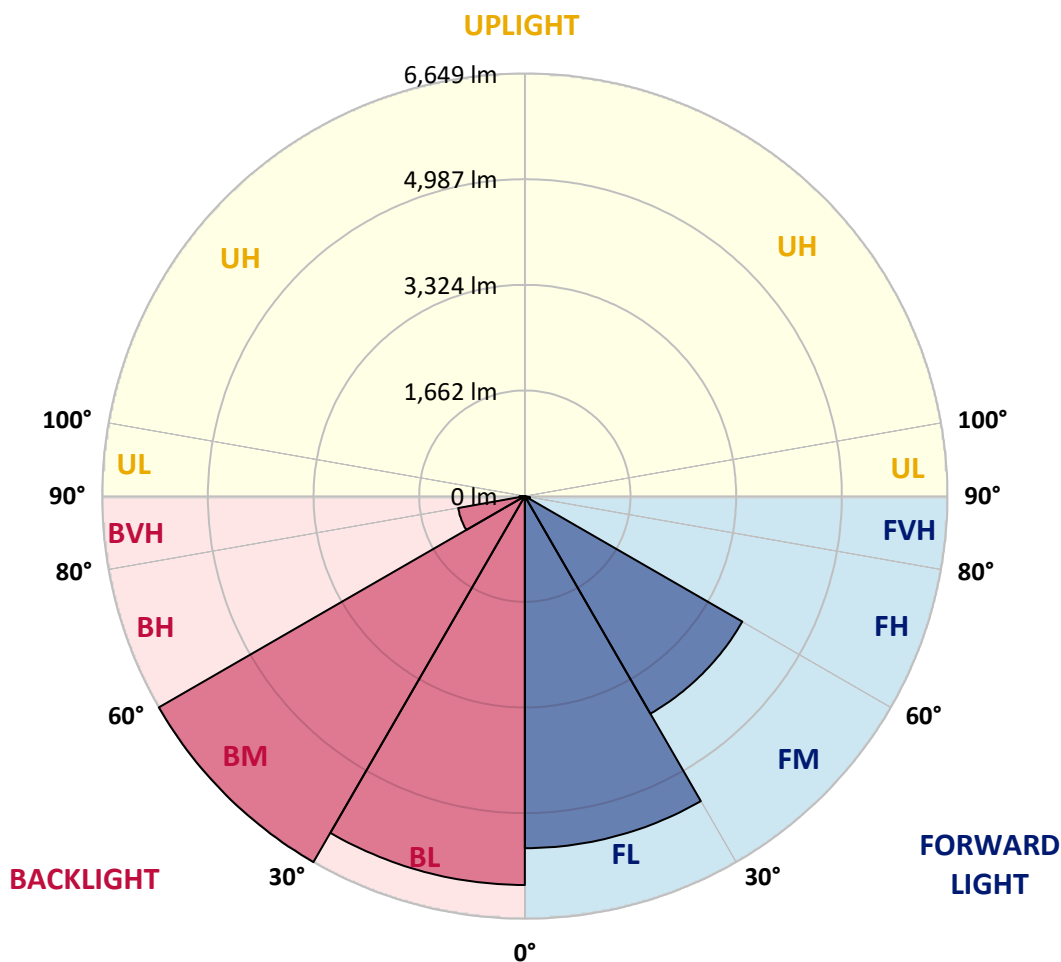


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5538.5	23.6			
FM (30°-60°)	3951.3	16.8			
FH (60°-80°)	82.8	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	6118.3	26.0	B5		
BM (30°-60°)	6648.8	28.3	B4/8500		
BH (60°-80°)	1064.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	82.8	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°	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3
2.5°	17846.2	17869.3	17743.6	17756.9	17780.0	17948.7	17905.7	17866.0	17809.8	17905.7
5°	17823.0	17836.3	17703.9	17657.6	17677.4	17829.6	17690.7	17690.7	17677.4	17660.9
7.5°	17644.4	17651.0	17548.4	17465.7	17518.6	17588.1	17485.6	17535.2	17462.4	17518.6
10°	17376.4	17333.4	17210.9	17187.8	17247.3	17313.5	17244.0	17290.4	17224.2	17267.2
12.5°	16982.7	16916.5	16817.2	16787.5	16890.0	16979.4	16923.1	16896.6	16810.6	16916.5
15°	15464.0	15414.4	15639.4	16033.1	16387.1	16463.2	16403.7	16430.1	16251.5	16281.3
17.5°	12727.9	12635.3	12876.8	13809.8	15139.8	15841.2	15788.3	15616.2	15351.6	15411.1
20°	11566.6	11540.1	11513.7	11735.3	12665.0	14792.4	14865.2	14428.5	14051.3	13968.6
22.5°	10911.5	10901.6	10875.1	10924.7	11169.6	12536.0	13369.7	12966.1	12714.7	12691.5
25°	10312.7	10296.1	10216.7	10279.6	10279.6	10359.0	11427.6	11672.5	11450.8	11424.3
27.5°	9703.9	9674.1	9660.9	9690.7	9538.5	9002.5	9273.8	10468.2	10352.4	10359.0
30°	9045.5	9035.6	8999.2	9062.0	8592.2	7927.2	7755.2	9376.4	9399.5	9392.9
32.5°	8066.2	8109.2	8274.6	8344.1	7569.9	7020.7	6732.8	8112.5	8585.6	8575.7
35°	5859.4	5859.4	6398.7	7401.2	6633.6	6220.0	6064.5	6878.4	7781.7	7814.7
37.5°	4817.2	4833.8	4939.6	5396.2	5723.7	5578.2	5531.9	5789.9	6749.4	6802.3
40°	4334.2	4334.2	4334.2	4145.6	4135.7	5025.6	4999.2	4916.5	5829.6	5945.4
42.5°	3894.1	3904.1	3910.7	3434.2	3169.6	4344.1	4284.5	4158.8	5005.8	5141.4
45°	3440.9	3457.4	3477.3	2871.8	2756.0	3126.6	3626.1	3487.2	4191.9	4367.3
47.5°	2100.9	2127.4	2577.3	2435.1	2448.3	2411.9	2957.8	2934.7	3437.6	3685.7
50°	1419.4	1429.3	1472.3	1545.1	2100.9	1895.8	2094.3	2428.5	2610.4	2987.6
52.5°	1191.1	1207.6	1101.7	1002.5	1379.7	1482.2	1462.4	1803.1	1875.9	2342.4
55°	837.1	890.0	840.4	830.4	784.1	1151.4	1108.4	1386.3	1432.6	1780.0
57.5°	86.0	99.3	172.0	618.7	512.8	651.8	790.7	1015.7	1062.0	1313.5
60°	6.6	6.6	16.5	86.0	373.9	390.4	545.9	625.3	714.6	916.5
62.5°	0.0	3.3	6.6	13.2	59.6	208.4	274.6	327.5	430.1	592.2
65°	0.0	0.0	3.3	9.9	13.2	79.4	105.9	172.0	234.9	367.2
67.5°	0.0	0.0	3.3	6.6	9.9	19.9	36.4	62.9	125.7	208.4
70°	0.0	0.0	3.3	6.6	9.9	16.5	26.5	39.7	56.2	112.5
72.5°	0.0	0.0	3.3	3.3	6.6	16.5	19.9	26.5	39.7	56.2
75°	0.0	0.0	3.3	3.3	9.9	19.9	16.5	19.9	26.5	36.4
77.5°	0.0	0.0	3.3	6.6	9.9	19.9	16.5	19.9	19.9	23.2
80°	0.0	0.0	3.3	6.6	13.2	23.2	19.9	19.9	16.5	16.5
82.5°	0.0	0.0	3.3	9.9	13.2	29.8	29.8	26.5	13.2	9.9
85°	0.0	0.0	6.6	13.2	19.9	33.1	33.1	26.5	9.9	6.6
87.5°	0.0	0.0	6.6	9.9	16.5	23.2	33.1	26.5	9.9	3.3
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°
17879.3	0°	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3	17879.3
17823.0	2.5°	17912.4	17892.5	17958.7	17985.1	18021.5	17882.6	17796.6	17799.9	17641.1
17621.2	5°	17727.1	17730.4	17816.4	17809.8	17846.2	17770.1	17737.0	17680.8	17541.8
17366.4	7.5°	17492.2	17462.4	17545.1	17608.0	17515.3	17568.3	17492.2	17518.6	17435.9
17141.5	10°	17310.2	17240.7	17316.8	17359.8	17363.1	17310.2	17237.4	17167.9	17138.2
16790.8	12.5°	16906.6	16817.2	16946.3	17005.8	16995.9	16893.3	16810.6	16827.2	16731.2
16175.4	15°	16350.7	16354.0	16446.7	16502.9	16450.0	16426.8	16433.4	16393.7	16311.0
15325.1	17.5°	15500.4	15550.1	15794.9	15930.5	15960.3	15914.0	15890.8	15844.5	15761.8
13968.6	20°	14084.4	14382.2	14818.9	15239.1	15321.8	15308.5	15225.8	15206.0	15159.7
12625.3	22.5°	12840.4	13062.1	13568.3	14223.3	14560.8	14593.9	14494.6	14464.9	14415.2
11424.3	25°	11553.4	11791.6	12248.2	12959.5	13657.6	13799.9	13783.3	13694.0	13641.0
10359.0	27.5°	10468.2	10706.4	11120.0	11761.8	12509.5	12966.1	13009.1	12866.9	12863.5
9409.4	30°	9488.8	9816.4	10130.7	10653.5	11378.0	12062.9	12135.7	12036.4	12046.3
8539.3	32.5°	8721.3	8992.6	9260.6	9611.3	10213.4	11010.8	11295.3	11202.7	11166.3
7814.7	35°	7937.2	8122.4	8397.0	8718.0	9128.2	9919.0	10411.9	10342.4	10306.1
6835.4	37.5°	7043.8	7361.5	7560.0	7920.6	8241.5	8870.2	9564.9	9555.0	9478.9
6001.7	40°	6127.4	6461.5	6762.6	7126.6	7374.7	7874.3	8645.2	8641.9	8651.8
5138.1	42.5°	5296.9	5604.6	5968.6	6365.6	6603.8	6967.8	7794.9	7841.2	7897.4
4426.8	45°	4545.9	4823.8	5161.3	5644.3	5932.2	6140.6	6875.1	7086.9	7083.6
3791.6	47.5°	3871.0	4132.3	4416.9	4886.7	5253.9	5442.5	6051.3	6352.4	6332.5
3110.0	50°	3249.0	3480.6	3778.3	4119.1	4612.1	4777.5	5230.8	5627.8	5598.0
2478.1	52.5°	2613.7	2934.7	3186.1	3497.1	4016.5	4178.7	4529.4	4916.5	4893.3
1859.4	55°	2038.1	2349.1	2653.4	2921.4	3358.2	3599.7	3851.1	4248.1	4241.5
1455.8	57.5°	1541.8	1882.6	2170.4	2425.1	2772.5	3070.3	3272.1	3632.8	3679.1
995.9	60°	1141.4	1402.8	1713.8	1998.3	2273.0	2580.6	2716.3	3070.3	3090.2
681.6	62.5°	777.5	1065.3	1369.7	1627.8	1832.9	2150.5	2273.0	2564.1	2600.5
436.7	65°	539.3	724.6	1072.0	1257.2	1508.7	1780.0	1902.4	2134.0	2206.8
251.4	67.5°	357.3	516.1	837.1	1005.8	1253.9	1439.2	1594.7	1783.3	1862.7
158.8	70°	195.2	380.5	598.8	794.0	1009.1	1187.8	1340.0	1492.1	1561.6
72.8	72.5°	132.3	254.8	416.9	628.6	813.9	989.2	1124.9	1237.4	1240.7
43.0	75°	66.2	172.0	317.6	486.4	635.2	807.3	929.7	995.9	916.5
26.5	77.5°	39.7	125.7	258.1	390.4	516.1	651.8	721.3	757.7	628.6
19.9	80°	23.2	89.3	201.8	311.0	357.3	479.7	545.9	555.8	420.2
13.2	82.5°	16.5	66.2	158.8	228.3	218.4	337.5	410.3	397.0	268.0
9.9	85°	9.9	46.3	99.3	142.3	132.3	221.7	238.2	244.8	155.5
6.6	87.5°	6.6	26.5	52.9	76.1	62.9	95.9	95.9	115.8	76.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
17879.3  
*17435.9*  
17508.7  
17297.0  
17005.8  
16648.5  
16228.3  
15725.4  
15053.8  
14402.0  
13584.8  
12856.9  
11996.7  
11169.6  
10256.4  
9541.8  
8651.8  
7867.7  
7090.2  
6339.1  
5624.5  
4942.9  
4258.1  
3659.2  
3119.9  
2607.1  
2190.2  
1852.8  
1535.2  
1210.9  
856.9  
605.5  
393.7  
248.1  
142.3  
66.2  
0.0

(END OF REPORT)