

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: P637872

Luminaire Tested: **IFLD-S-SA2E-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637872  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

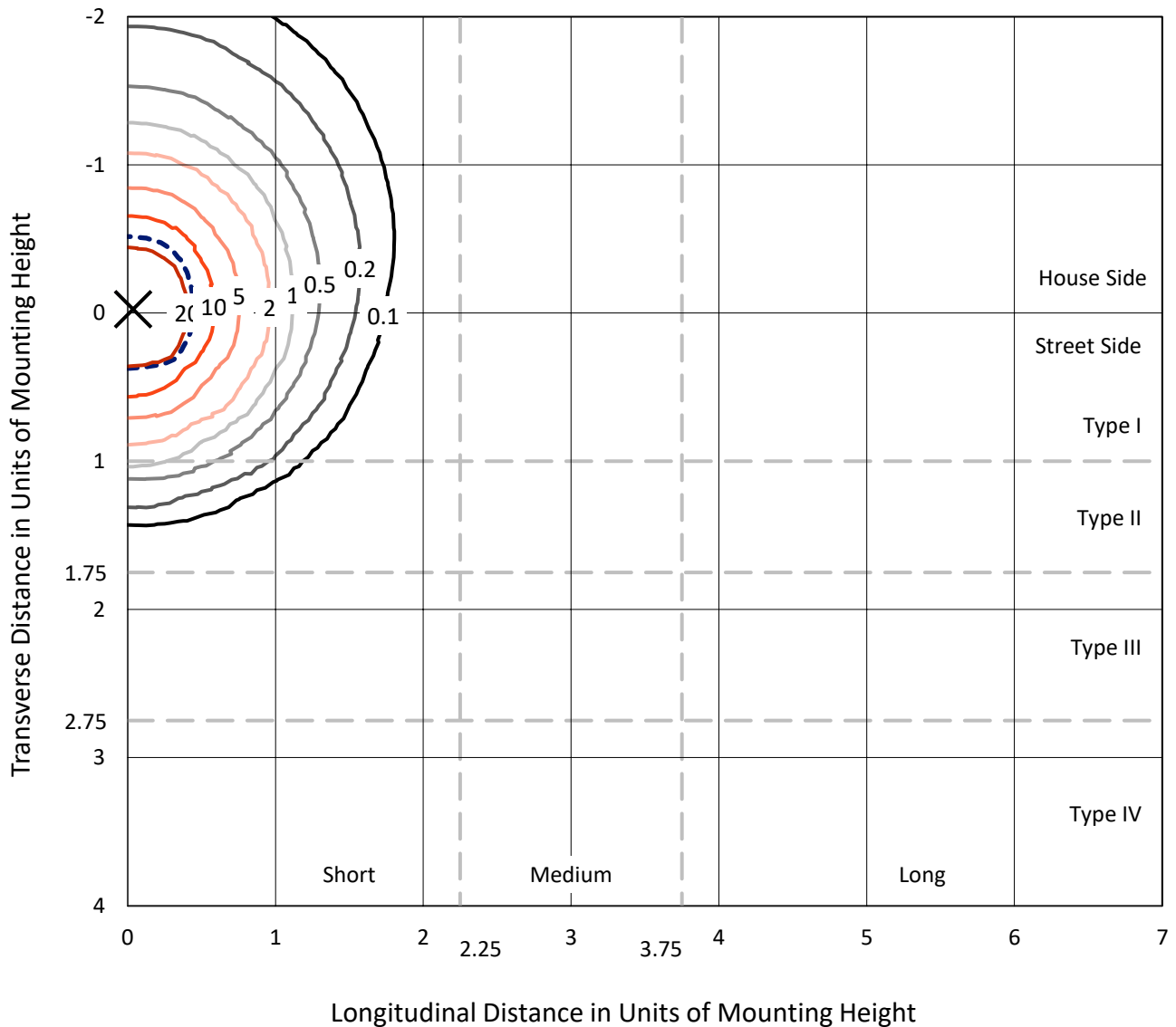
Lumens per Lamp: N/A  
Luminaire Lumens: 15052.5 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

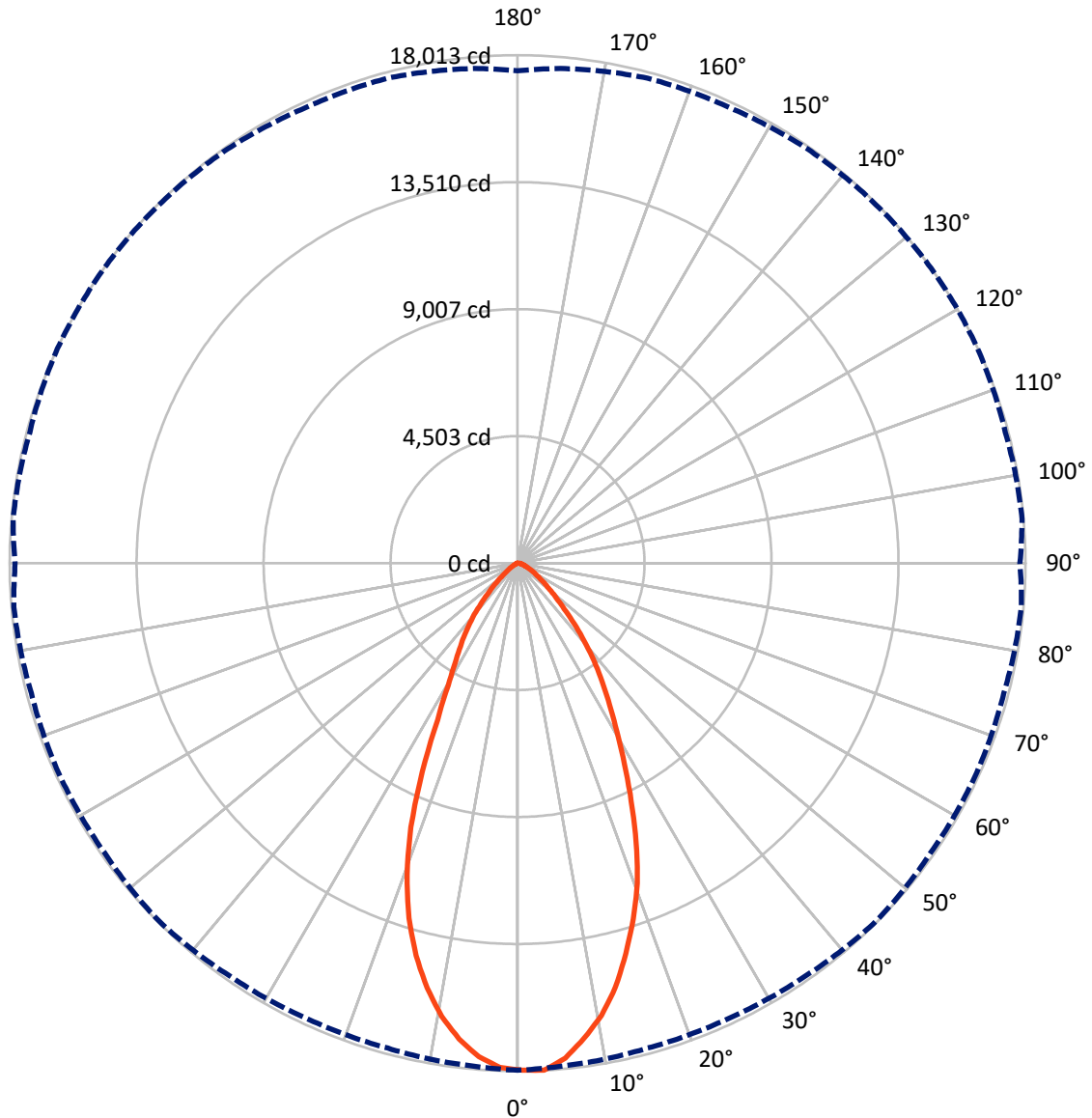
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45 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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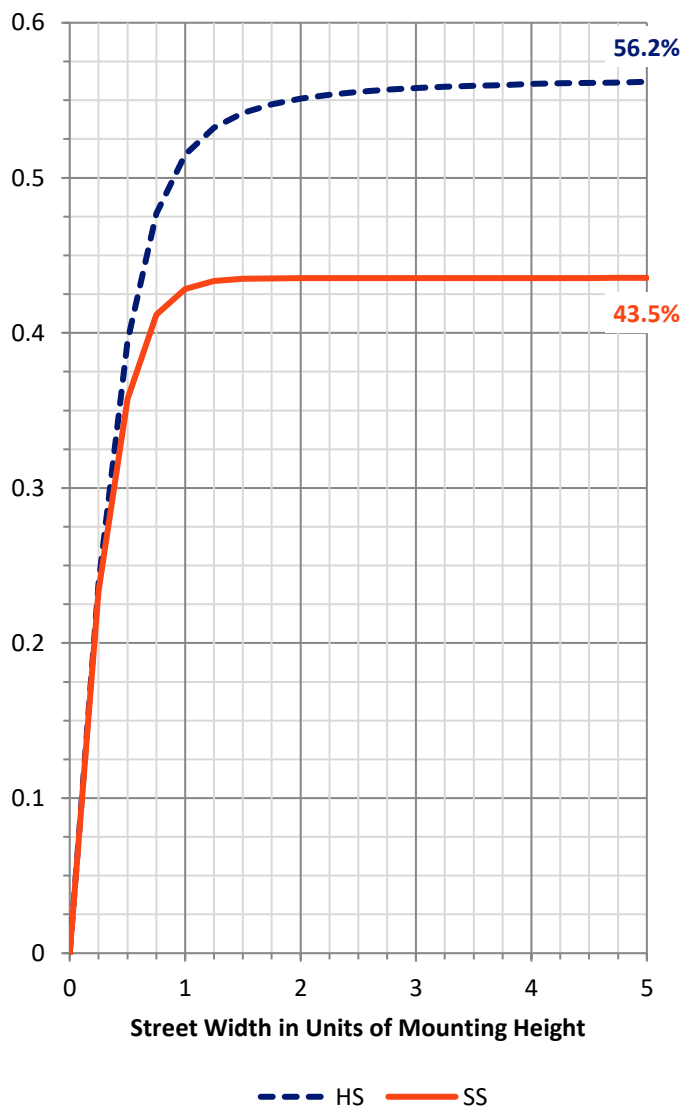
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8541.4	0.0	8541.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6511.1	0.0	6511.1
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	15052.5	0.0	15052.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1633.0	10.8
10°-20°	3892.8	25.9
20°-30°	3964.7	26.3
30°-40°	2956.5	19.6
40°-50°	1544.5	10.3
50°-60°	649.6	4.3
60°-70°	265.3	1.8
70°-80°	111.7	0.7
80°-90°	34.4	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°	15052.5	100.0
0°-180°	15052.5	100.0



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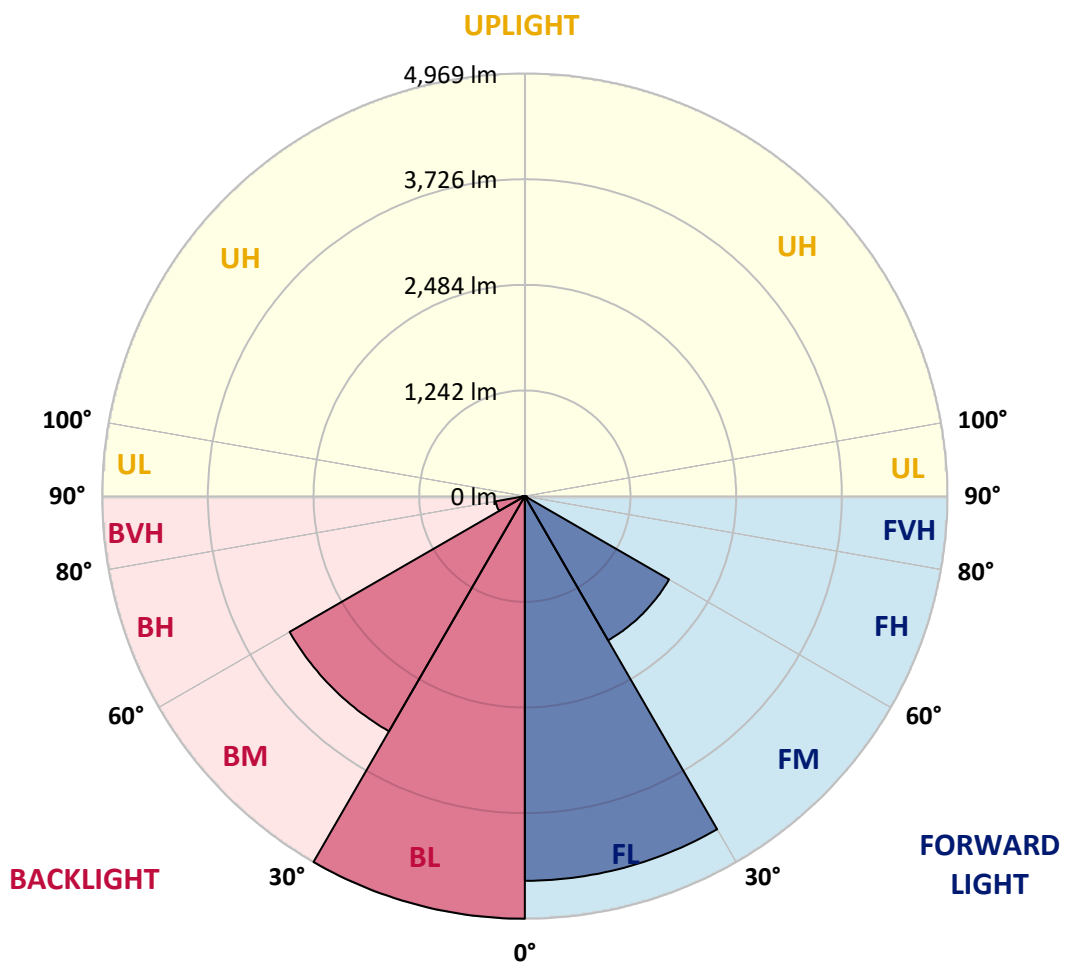
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4522.0	30.0			
FM (30°-60°)	1957.6	13.0			
FH (60°-80°)	28.3	0.2			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	4968.5	33.0	B4/5000		
BM (30°-60°)	3193.0	21.2	B3/5000		
BH (60°-80°)	348.6	2.3	B1/500		G1/500
BVH (80°-90°)	31.2	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°	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1
2.5°	17986.1	17912.6	17808.2	17798.5	17852.6	17970.6	17895.2	17899.0	17852.6	17931.9
5°	17703.8	17634.1	17562.6	17467.9	17547.1	17597.4	17558.7	17516.2	17456.3	17533.6
7.5°	17170.1	17131.4	17025.1	16982.5	17030.9	17086.9	17003.8	16992.2	16909.1	17009.6
10°	16354.1	16338.7	16234.2	16209.1	16251.6	16336.7	16300.0	16292.2	16240.0	16230.4
12.5°	15507.2	15447.3	15317.7	15310.0	15373.8	15501.4	15402.8	15308.1	15337.1	15362.2
15°	13326.2	13262.3	13583.3	14088.0	14352.9	14343.2	14372.2	14258.1	14223.3	14234.9
17.5°	10594.0	10485.7	10601.8	11382.9	12641.7	13372.6	13171.5	12925.9	12794.4	12707.4
20°	9143.8	9149.6	9128.4	9329.5	10114.5	11781.2	11732.9	11259.2	11087.1	11015.5
22.5°	8262.1	8229.3	8182.9	8246.7	8457.4	9435.8	10091.3	9656.2	9596.3	9517.0
25°	7397.8	7397.8	7341.8	7405.6	7465.5	7479.0	8136.5	8314.3	8198.3	8198.3
27.5°	6649.5	6610.9	6585.7	6614.7	6535.5	6154.5	6237.7	7148.4	7069.1	7020.8
30°	5907.1	5895.5	5852.9	5891.6	5597.7	5168.4	4994.4	6032.7	6115.9	6098.5
32.5°	4876.5	4922.9	5112.4	5172.3	4669.6	4323.5	4157.2	5007.9	5340.5	5327.0
35°	3314.1	3352.8	3569.4	4284.8	3871.0	3623.5	3575.2	3983.2	4530.4	4582.6
37.5°	2639.3	2633.5	2695.4	2823.0	3111.1	3051.2	3037.6	3144.0	3695.0	3718.3
40°	2175.3	2167.5	2165.6	2061.2	1989.6	2536.8	2500.1	2436.3	2913.9	2960.3
42.5°	1753.7	1761.5	1767.3	1539.1	1434.7	1956.8	1935.5	1869.8	2285.5	2339.6
45°	1376.7	1374.8	1386.4	1146.6	1117.6	1251.0	1446.3	1394.1	1724.7	1782.8
47.5°	713.5	738.6	895.2	887.5	901.0	887.5	1094.4	1080.9	1297.4	1390.2
50°	479.5	487.3	500.8	502.7	709.6	653.5	742.5	841.1	908.8	1051.9
52.5°	371.2	377.0	342.2	321.0	435.1	483.4	487.3	582.0	634.2	779.2
55°	206.9	232.0	249.4	251.4	239.8	357.7	355.8	431.2	471.8	568.5
57.5°	27.1	32.9	50.3	162.4	160.5	199.2	249.4	313.2	336.4	415.7
60°	1.9	3.9	5.8	25.1	106.3	116.0	170.2	195.3	234.0	292.0
62.5°	0.0	0.0	1.9	5.8	21.3	67.7	88.9	102.5	137.3	191.4
65°	0.0	0.0	1.9	3.9	7.7	25.1	34.8	56.1	81.2	117.9
67.5°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	25.1	42.5	71.5
70°	0.0	0.0	1.9	3.9	5.8	7.7	11.6	15.5	23.2	38.7
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	9.7	11.6	15.5	21.3
75°	0.0	0.0	1.9	3.9	5.8	9.7	9.7	9.7	11.6	13.5
77.5°	0.0	0.0	1.9	3.9	5.8	9.7	7.7	9.7	9.7	9.7
80°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	9.7	7.7	7.7
82.5°	0.0	0.0	1.9	5.8	5.8	13.5	13.5	13.5	5.8	5.8
85°	0.0	0.0	3.9	5.8	9.7	15.5	15.5	11.6	5.8	3.9
87.5°	0.0	0.0	1.9	3.9	3.9	7.7	11.6	9.7	3.9	1.9
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°
17984.1	0°	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1	17984.1
17815.9	2.5°	17959.0	17910.6	18001.5	18013.1	17974.5	17926.1	17814.0	17804.3	17609.0
17421.5	5°	17618.7	17539.4	17597.4	17636.1	17622.5	17570.3	17523.9	17481.4	17305.4
16781.4	7.5°	16984.5	16955.5	16982.5	17011.5	17067.6	17011.5	16992.2	16947.7	16773.7
16151.1	10°	16280.6	16226.5	16329.0	16315.5	16300.0	16284.5	16203.3	16211.0	16006.1
15292.6	12.5°	15416.3	15325.5	15424.1	15435.7	15424.1	15369.9	15279.1	15317.7	15130.2
14132.5	15°	14254.3	14244.6	14316.1	14362.5	14395.4	14337.4	14306.5	14325.8	14213.7
12639.7	17.5°	12827.3	12953.0	13186.9	13266.2	13268.1	13328.1	13310.7	13287.5	13204.3
10986.5	20°	11149.0	11390.7	11750.3	12119.6	12226.0	12175.7	12152.5	12195.0	12071.3
9433.9	22.5°	9600.2	9807.1	10224.7	10764.2	11075.5	11106.4	11100.6	11063.9	11015.5
8190.6	25°	8285.3	8469.0	8869.3	9362.3	9959.8	10048.8	10052.6	10041.0	9998.5
7063.3	27.5°	7175.5	7397.8	7618.3	8059.1	8695.3	9062.6	9016.2	9002.7	8987.2
6112.0	30°	6170.0	6450.4	6657.3	6931.8	7502.2	7999.2	8047.5	8024.3	7987.6
5325.0	32.5°	5373.4	5539.7	5802.6	5988.3	6398.2	6960.8	7146.5	7129.1	7096.2
4615.4	35°	4681.2	4746.9	4953.8	5160.7	5433.3	5978.6	6253.2	6214.5	6208.7
3760.8	37.5°	3855.5	4076.0	4190.0	4398.9	4590.3	5013.7	5392.7	5375.3	5377.3
3024.1	40°	3113.0	3240.7	3466.9	3642.8	3818.8	4128.2	4549.7	4561.3	4557.4
2341.6	42.5°	2389.9	2513.6	2751.5	2942.9	3099.5	3290.9	3693.1	3706.7	3724.1
1823.4	45°	1865.9	1945.2	2119.2	2318.3	2484.6	2600.6	2906.2	2993.2	2995.1
1413.4	47.5°	1448.2	1539.1	1662.9	1854.3	2016.7	2099.9	2322.2	2440.2	2434.4
1084.7	50°	1136.9	1220.1	1320.6	1471.4	1647.4	1713.1	1877.5	1993.5	1987.7
817.9	52.5°	870.1	976.5	1065.4	1181.4	1353.5	1409.6	1527.5	1660.9	1641.6
599.4	55°	659.3	767.6	850.8	947.4	1104.1	1175.6	1256.8	1363.2	1367.0
464.1	57.5°	496.9	609.1	684.5	783.1	901.0	980.3	1042.2	1156.3	1154.3
317.1	60°	355.8	452.5	543.3	645.8	736.7	827.6	870.1	978.4	982.3
224.3	62.5°	257.2	348.0	435.1	524.0	605.2	694.2	732.8	817.9	829.5
147.0	65°	179.8	243.6	344.2	411.9	502.7	568.5	618.7	692.2	705.8
87.0	67.5°	116.0	176.0	272.6	332.6	415.7	471.8	524.0	582.0	599.4
56.1	70°	69.6	133.4	203.0	266.8	342.2	392.5	442.8	493.1	502.7
27.1	72.5°	44.5	92.8	147.0	216.6	274.6	328.7	373.2	409.9	380.9
17.4	75°	25.1	63.8	116.0	170.2	222.4	274.6	311.3	330.6	264.9
11.6	77.5°	15.5	46.4	94.7	137.3	172.1	220.4	243.6	255.2	189.5
7.7	80°	9.7	34.8	79.3	112.1	112.1	162.4	189.5	199.2	137.3
5.8	82.5°	7.7	25.1	61.9	85.1	75.4	121.8	148.9	150.8	96.7
3.9	85°	5.8	19.3	38.7	56.1	52.2	85.1	87.0	96.7	63.8
3.9	87.5°	3.9	11.6	23.2	32.9	29.0	40.6	46.4	52.2	34.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
17984.1  
*17456.3*  
17164.3  
16737.0  
15936.5  
15076.0  
14078.3  
13080.6  
11982.3  
10922.7  
9855.4  
8896.3  
7941.2  
7009.2  
6144.9  
5315.4  
4489.7  
3666.0  
2944.8  
2413.1  
1987.7  
1643.5  
1367.0  
1150.5  
972.6  
825.6  
701.9  
597.5  
495.0  
353.8  
251.4  
177.9  
127.6  
88.9  
58.0  
30.9  
0.0

(END OF REPORT)