

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: P638297

Luminaire Tested: **IFLD-L-SA7D-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638297  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

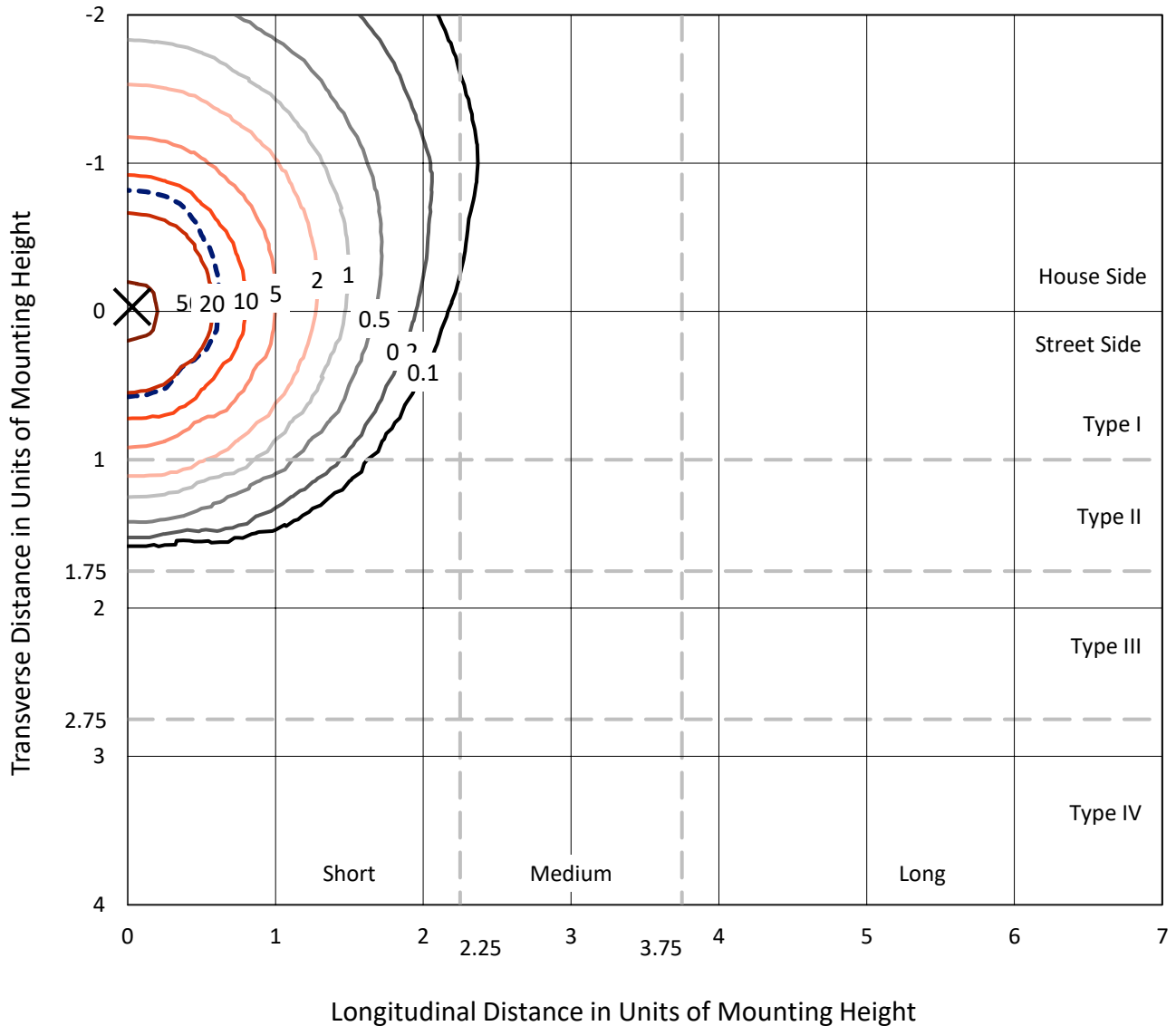
Lumens per Lamp: N/A  
Luminaire Lumens: 29813.5 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

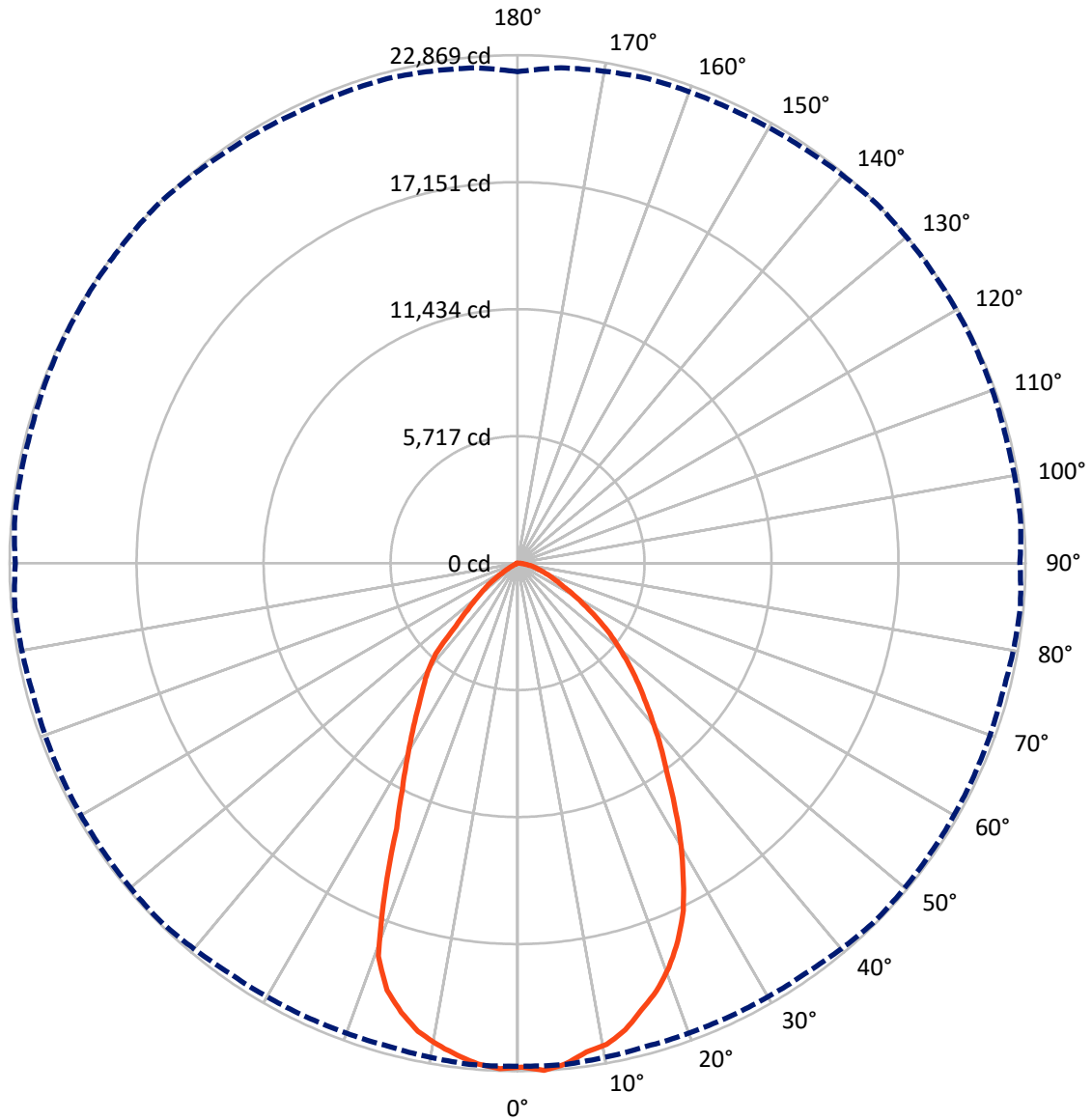
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.7 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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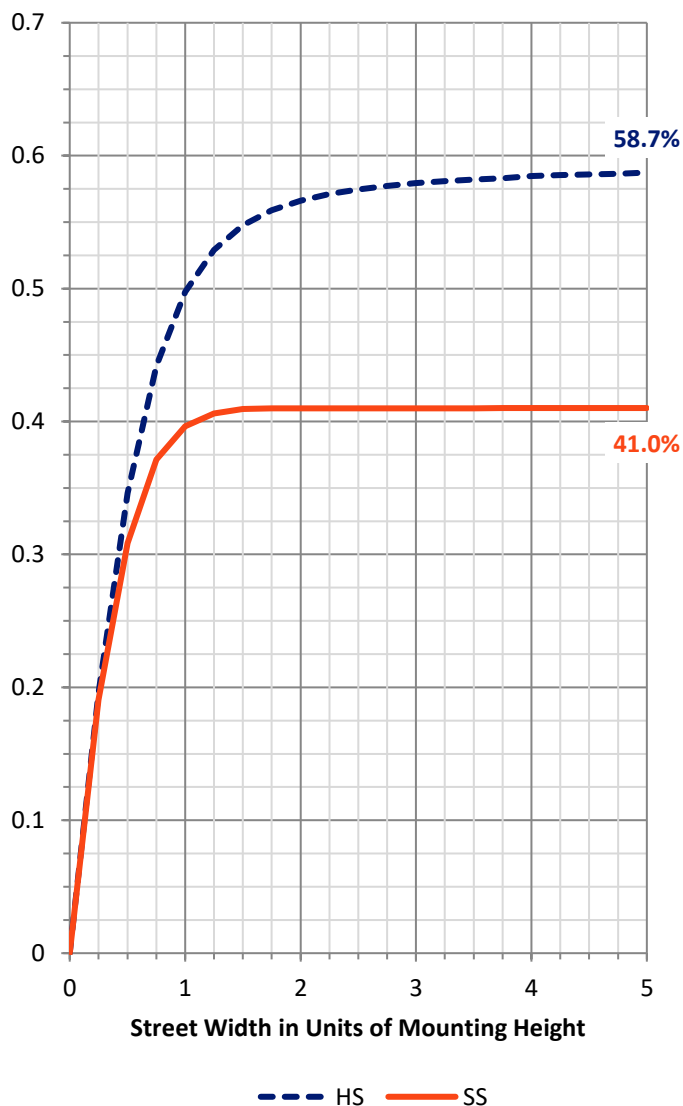
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17657.1	0.0	17657.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	12156.4	0.0	12156.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	29813.5	0.0	29813.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2127.8	7.1
10°-20°	5705.8	19.1
20°-30°	6958.5	23.3
30°-40°	6353.0	21.3
40°-50°	4591.2	15.4
50°-60°	2506.8	8.4
60°-70°	1036.5	3.5
70°-80°	419.8	1.4
80°-90°	114.2	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°	29813.5	100.0
0°-180°	29813.5	100.0



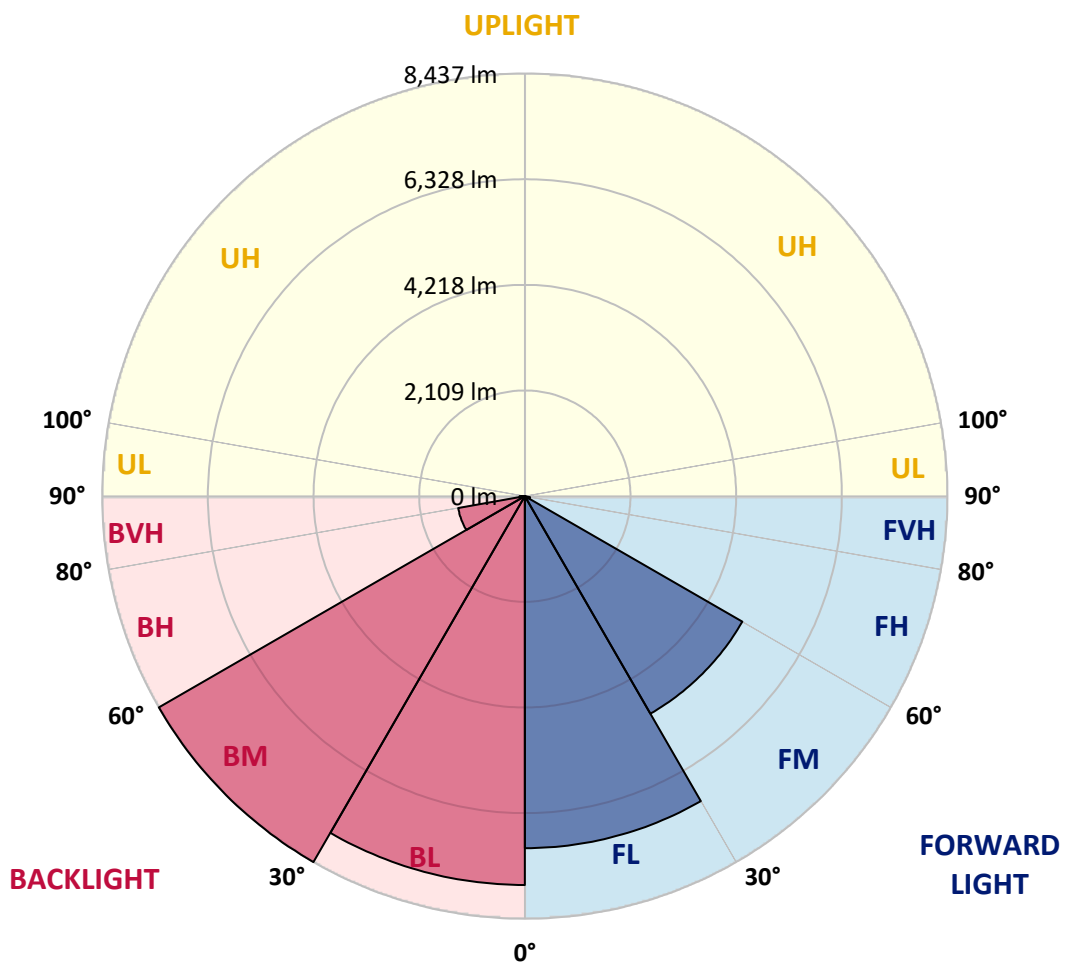
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7028.1	23.6			
FM (30°-60°)	5014.1	16.8			
FH (60°-80°)	105.1	0.4			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	7763.9	26.0	B5		
BM (30°-60°)	8437.0	28.3	B4/8500		
BH (60°-80°)	1351.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	105.0	0.4			G2/225
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°	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0
2.5°	22646.0	22675.4	22515.8	22532.6	22562.0	22776.1	22721.5	22671.2	22599.8	22721.5
5°	22616.6	22633.4	22465.4	22406.7	22431.9	22625.0	22448.6	22448.6	22431.9	22410.9
7.5°	22389.9	22398.3	22268.1	22163.2	22230.3	22318.5	22188.4	22251.3	22159.0	22230.3
10°	22049.8	21995.2	21839.9	21810.5	21886.1	21970.0	21881.9	21940.6	21856.7	21911.3
12.5°	21550.2	21466.2	21340.3	21302.5	21432.6	21546.0	21474.6	21441.0	21331.9	21466.2
15°	19623.2	19560.2	19845.7	20345.3	20794.5	20891.1	20815.5	20849.1	20622.4	20660.1
17.5°	16151.1	16033.6	16340.0	17524.0	19211.7	20101.8	20034.6	19816.3	19480.4	19556.0
20°	14677.5	14643.9	14610.3	14891.6	16071.3	18770.9	18863.2	18309.1	17830.5	17725.5
22.5°	13846.2	13833.6	13800.0	13863.0	14173.7	15907.6	16965.6	16453.4	16134.3	16104.9
25°	13086.3	13065.3	12964.5	13044.3	13044.3	13145.1	14501.1	14811.8	14530.5	14496.9
27.5°	12313.8	12276.0	12259.2	12297.0	12103.9	11423.7	11768.0	13283.6	13136.7	13145.1
30°	11478.3	11465.7	11419.5	11499.3	10903.2	10059.3	9841.0	11898.2	11927.6	11919.2
32.5°	10235.6	10290.2	10500.1	10588.3	9605.9	8908.9	8543.7	10294.4	10894.8	10882.2
35°	7435.3	7435.3	8119.6	9391.7	8417.7	7892.9	7695.6	8728.4	9874.6	9916.5
37.5°	6112.8	6133.8	6268.2	6847.5	7263.2	7078.4	7019.7	7347.1	8564.7	8631.8
40°	5499.9	5499.9	5499.9	5260.5	5248.0	6377.3	6343.7	6238.8	7397.5	7544.5
42.5°	4941.5	4954.1	4962.5	4357.9	4022.0	5512.5	5436.9	5277.3	6352.1	6524.3
45°	4366.3	4387.3	4412.5	3644.2	3497.2	3967.5	4601.4	4425.1	5319.3	5541.8
47.5°	2666.0	2699.5	3270.5	3090.0	3106.8	3060.6	3753.3	3723.9	4362.1	4677.0
50°	1801.1	1813.7	1868.3	1960.6	2666.0	2405.7	2657.6	3081.6	3312.5	3791.1
52.5°	1511.4	1532.4	1398.1	1272.1	1750.7	1880.9	1855.7	2288.1	2380.5	2972.4
55°	1062.2	1129.4	1066.4	1053.8	995.0	1461.0	1406.5	1759.1	1817.9	2258.7
57.5°	109.2	126.0	218.3	785.1	650.7	827.1	1003.4	1288.9	1347.7	1666.8
60°	8.4	8.4	21.0	109.2	474.4	495.4	692.7	793.5	906.8	1162.9
62.5°	0.0	4.2	8.4	16.8	75.6	264.5	348.5	415.6	545.8	751.5
65°	0.0	0.0	4.2	12.6	16.8	100.8	134.3	218.3	298.1	466.0
67.5°	0.0	0.0	4.2	8.4	12.6	25.2	46.2	79.8	159.5	264.5
70°	0.0	0.0	4.2	8.4	12.6	21.0	33.6	50.4	71.4	142.7
72.5°	0.0	0.0	4.2	4.2	8.4	21.0	25.2	33.6	50.4	71.4
75°	0.0	0.0	4.2	4.2	12.6	25.2	21.0	25.2	33.6	46.2
77.5°	0.0	0.0	4.2	8.4	12.6	25.2	21.0	25.2	25.2	29.4
80°	0.0	0.0	4.2	8.4	16.8	29.4	25.2	25.2	21.0	21.0
82.5°	0.0	0.0	4.2	12.6	16.8	37.8	37.8	33.6	16.8	12.6
85°	0.0	0.0	8.4	16.8	25.2	42.0	42.0	33.6	12.6	8.4
87.5°	0.0	0.0	8.4	12.6	21.0	29.4	42.0	33.6	12.6	4.2
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°
22688.0	0°	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0	22688.0
22616.6	2.5°	22729.9	22704.8	22788.7	22822.3	22868.5	22692.2	22583.0	22587.2	22385.7
22360.5	5°	22494.8	22499.0	22608.2	22599.8	22646.0	22549.4	22507.4	22436.1	22259.7
22037.2	7.5°	22196.7	22159.0	22263.9	22343.7	22226.1	22293.3	22196.7	22230.3	22125.4
21751.7	10°	21965.8	21877.7	21974.2	22028.8	22033.0	21965.8	21873.5	21785.3	21747.5
21306.7	12.5°	21453.6	21340.3	21504.0	21579.6	21567.0	21436.8	21331.9	21352.9	21231.1
20525.8	15°	20748.3	20752.5	20870.1	20941.4	20874.3	20844.9	20853.3	20802.9	20697.9
19446.8	17.5°	19669.3	19732.3	20043.0	20215.1	20252.9	20194.1	20164.7	20106.0	20001.0
17725.5	20°	17872.4	18250.3	18804.5	19337.7	19442.6	19425.8	19320.9	19295.7	19236.9
16021.0	22.5°	16293.8	16575.1	17217.5	18048.8	18477.0	18519.0	18393.0	18355.2	18292.3
14496.9	25°	14660.7	14963.0	15542.3	16445.0	17330.8	17511.4	17490.4	17377.0	17309.9
13145.1	27.5°	13283.6	13585.9	14110.7	14925.2	15874.0	16453.4	16508.0	16327.4	16323.2
11940.1	30°	12040.9	12456.5	12855.4	13518.7	14438.2	15307.2	15399.6	15273.6	15286.2
10836.0	32.5°	11066.9	11411.2	11751.2	12196.2	12960.3	13972.2	14333.2	14215.7	14169.5
9916.5	35°	10071.9	10307.0	10655.4	11062.7	11583.3	12586.7	13212.3	13124.1	13077.9
8673.8	37.5°	8938.3	9341.4	9593.3	10050.9	10458.1	11255.8	12137.5	12124.9	12028.3
7615.8	40°	7775.4	8199.4	8581.5	9043.3	9358.2	9992.1	10970.3	10966.1	10978.7
6520.1	42.5°	6721.6	7112.0	7573.8	8077.7	8379.9	8841.8	9891.3	9950.1	10021.5
5617.4	45°	5768.6	6121.2	6549.4	7162.4	7527.7	7792.2	8724.2	8992.9	8988.7
4811.3	47.5°	4912.1	5243.8	5604.8	6201.0	6667.0	6906.3	7678.8	8060.9	8035.7
3946.5	50°	4122.8	4416.7	4794.5	5227.0	5852.5	6062.4	6637.6	7141.4	7103.6
3144.6	52.5°	3316.7	3723.9	4043.0	4437.7	5096.8	5302.5	5747.6	6238.8	6209.4
2359.5	55°	2586.2	2980.8	3367.1	3707.2	4261.3	4567.8	4886.9	5390.7	5382.3
1847.3	57.5°	1956.4	2388.9	2754.1	3077.4	3518.2	3896.1	4152.2	4609.8	4668.6
1263.7	60°	1448.4	1780.1	2174.8	2535.8	2884.3	3274.7	3446.9	3896.1	3921.3
864.9	62.5°	986.6	1351.9	1738.1	2065.6	2325.9	2728.9	2884.3	3253.7	3299.9
554.2	65°	684.3	919.4	1360.3	1595.4	1914.5	2258.7	2414.1	2707.9	2800.3
319.1	67.5°	453.4	654.9	1062.2	1276.3	1591.2	1826.3	2023.6	2262.9	2363.7
201.5	70°	247.7	482.8	759.9	1007.6	1280.5	1507.2	1700.3	1893.5	1981.6
92.4	72.5°	167.9	323.3	529.0	797.7	1032.8	1255.3	1427.4	1570.2	1574.4
54.6	75°	84.0	218.3	403.0	617.2	806.1	1024.4	1179.7	1263.7	1162.9
33.6	77.5°	50.4	159.5	327.5	495.4	654.9	827.1	915.2	961.4	797.7
25.2	80°	29.4	113.4	256.1	394.6	453.4	608.8	692.7	705.3	533.2
16.8	82.5°	21.0	84.0	201.5	289.7	277.1	428.2	520.6	503.8	340.1
12.6	85°	12.6	58.8	126.0	180.5	167.9	281.3	302.3	310.7	197.3
8.4	87.5°	8.4	33.6	67.2	96.6	79.8	121.8	121.8	146.9	96.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
22688.0  
**22125.4**  
22217.7  
21949.0  
21579.6  
21126.2  
20593.0  
19954.8  
19102.6  
18275.5  
17238.5  
16314.8  
15223.3  
14173.7  
13014.9  
12108.1  
10978.7  
9983.7  
8997.1  
8044.1  
7137.2  
6272.4  
5403.3  
4643.4  
3959.1  
3308.3  
2779.3  
2351.1  
1948.0  
1536.6  
1087.4  
768.3  
499.6  
314.9  
180.5  
84.0  
0.0

(END OF REPORT)