

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: P637997

Luminaire Tested: **IFLD-S-SA6D-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637997
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28340.5 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

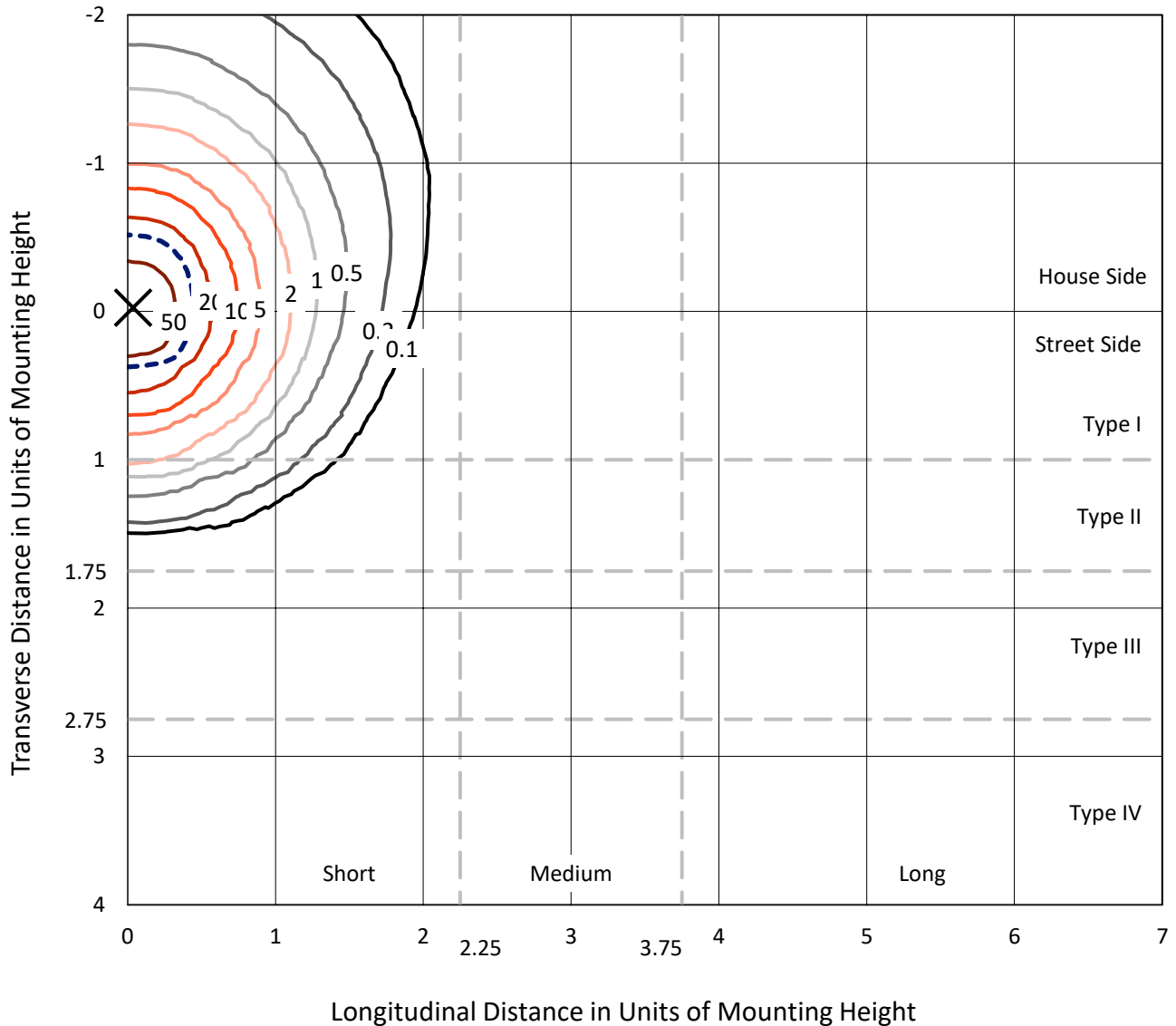
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

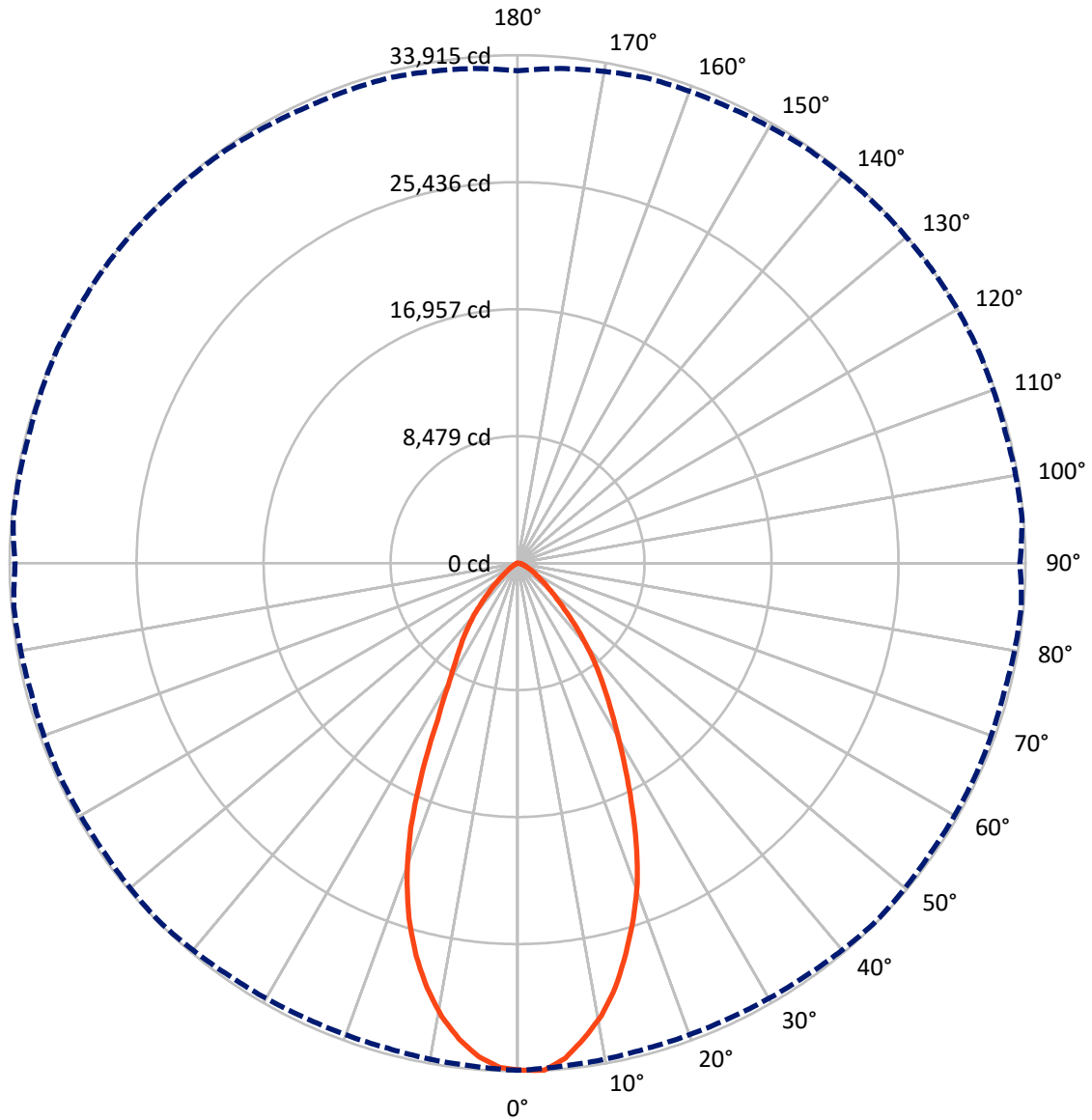
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 84.6 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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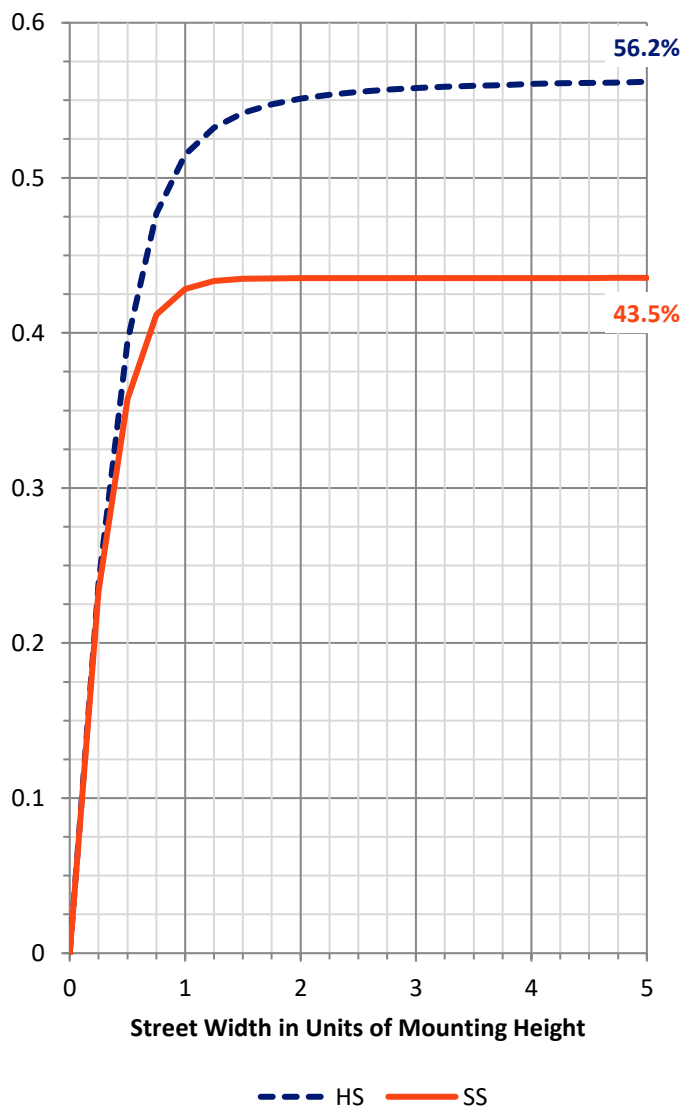
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16081.5	0.0	16081.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12259.0	0.0	12259.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	28340.5	0.0	28340.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3074.6	10.8
10°-20°	7329.2	25.9
20°-30°	7464.6	26.3
30°-40°	5566.4	19.6
40°-50°	2908.0	10.3
50°-60°	1223.1	4.3
60°-70°	499.5	1.8
70°-80°	210.2	0.7
80°-90°	64.8	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°	28340.5	100.0
0°-180°	28340.5	100.0



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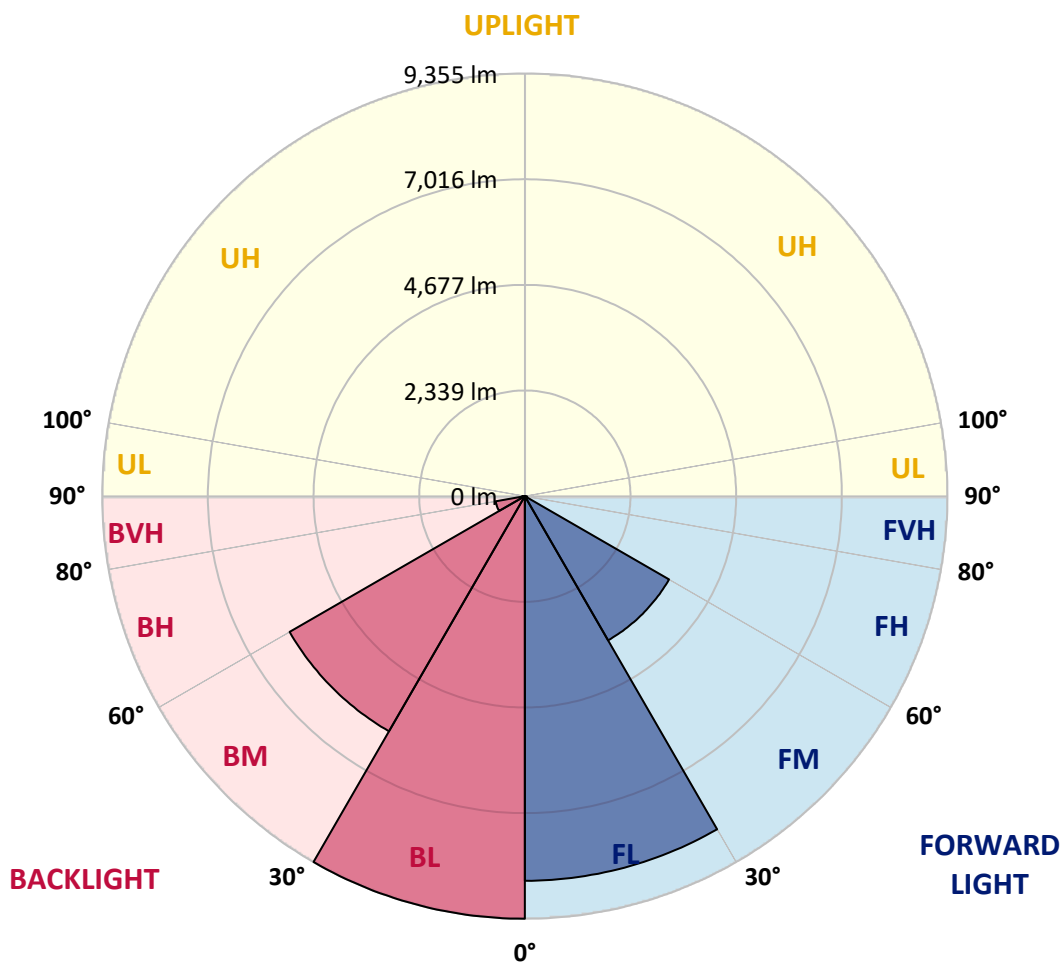
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8513.8	30.0			
FM (30°-60°)	3685.8	13.0			
FH (60°-80°)	53.3	0.2			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	9354.6	33.0	B5		
BM (30°-60°)	6011.7	21.2	B4/8500		
BH (60°-80°)	656.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	58.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0
2.5°	33863.6	33725.3	33528.7	33510.5	33612.4	33834.5	33692.5	33699.8	33612.4	33761.7
5°	33332.1	33201.1	33066.4	32888.0	33037.3	33131.9	33059.1	32979.0	32866.2	33011.8
7.5°	32327.4	32254.6	32054.3	31974.2	32065.2	32170.8	32014.3	31992.4	31835.9	32025.2
10°	30791.1	30762.0	30565.4	30518.0	30598.1	30758.3	30689.2	30674.6	30576.3	30558.1
12.5°	29196.6	29083.7	28839.8	28825.2	28945.4	29185.6	29000.0	28821.6	28876.2	28923.5
15°	25090.1	24970.0	25574.3	26524.5	27023.2	27005.0	27059.6	26844.8	26779.3	26801.1
17.5°	19946.1	19742.3	19960.7	21431.4	23801.4	25177.5	24798.9	24336.5	24089.0	23925.2
20°	17215.8	17226.7	17186.7	17565.3	19043.3	22181.4	22090.4	21198.4	20874.4	20739.7
22.5°	15555.7	15493.8	15406.5	15526.6	15923.4	17765.5	18999.6	18180.5	18067.6	17918.4
25°	13928.4	13928.4	13822.9	13943.0	14055.8	14081.3	15319.1	15654.0	15435.6	15435.6
27.5°	12519.6	12446.8	12399.4	12454.0	12304.8	11587.6	11744.2	13458.8	13309.6	13218.5
30°	11121.6	11099.8	11019.7	11092.5	10539.2	9731.0	9403.3	11358.3	11514.8	11482.0
32.5°	9181.3	9268.6	9625.4	9738.3	8791.7	8140.1	7827.0	9428.8	10055.0	10029.5
35°	6239.8	6312.6	6720.3	8067.3	7288.2	6822.2	6731.2	7499.4	8529.6	8627.9
37.5°	4969.2	4958.3	5074.8	5315.1	5857.5	5744.7	5719.2	5919.4	6956.9	7000.6
40°	4095.5	4081.0	4077.3	3880.7	3746.0	4776.3	4707.1	4587.0	5486.2	5573.6
42.5°	3301.9	3316.5	3327.4	2897.8	2701.2	3684.2	3644.1	3520.3	4303.0	4405.0
45°	2592.0	2588.4	2610.2	2158.8	2104.2	2355.4	2723.1	2624.8	3247.3	3356.5
47.5°	1343.3	1390.7	1685.5	1671.0	1696.5	1671.0	2060.5	2035.0	2442.8	2617.5
50°	902.8	917.4	942.9	946.5	1336.1	1230.5	1397.9	1583.6	1711.0	1980.4
52.5°	699.0	709.9	644.4	604.3	819.1	910.1	917.4	1095.8	1194.1	1467.1
55°	389.5	436.9	469.6	473.3	451.4	673.5	669.8	811.8	888.3	1070.3
57.5°	51.0	61.9	94.7	305.8	302.2	375.0	469.6	589.8	633.4	782.7
60°	3.6	7.3	10.9	47.3	200.2	218.4	320.4	367.7	440.5	549.7
62.5°	0.0	0.0	3.6	10.9	40.0	127.4	167.5	192.9	258.5	360.4
65°	0.0	0.0	3.6	7.3	14.6	47.3	65.5	105.6	152.9	222.1
67.5°	0.0	0.0	3.6	7.3	10.9	18.2	29.1	47.3	80.1	134.7
70°	0.0	0.0	3.6	7.3	10.9	14.6	21.8	29.1	43.7	72.8
72.5°	0.0	0.0	3.6	3.6	7.3	18.2	18.2	21.8	29.1	40.0
75°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	18.2	21.8	25.5
77.5°	0.0	0.0	3.6	7.3	10.9	18.2	14.6	18.2	18.2	18.2
80°	0.0	0.0	3.6	7.3	10.9	18.2	21.8	18.2	14.6	14.6
82.5°	0.0	0.0	3.6	10.9	10.9	25.5	25.5	25.5	10.9	10.9
85°	0.0	0.0	7.3	10.9	18.2	29.1	29.1	21.8	10.9	7.3
87.5°	0.0	0.0	3.6	7.3	7.3	14.6	21.8	18.2	7.3	3.6
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°
33860.0	0°	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0	33860.0
33543.3	2.5°	33812.7	33721.7	33892.8	33914.6	33841.8	33750.8	33539.6	33521.4	33153.7
32800.6	5°	33172.0	33022.7	33131.9	33204.7	33179.2	33080.9	32993.6	32913.5	32582.2
31595.6	7.5°	31977.9	31923.3	31974.2	32028.8	32134.4	32028.8	31992.4	31908.7	31581.1
30408.8	10°	30652.7	30550.8	30743.8	30718.3	30689.2	30660.0	30507.1	30521.7	30135.8
28792.5	12.5°	29025.5	28854.4	29040.0	29061.9	29040.0	28938.1	28767.0	28839.8	28486.7
26608.2	15°	26837.5	26819.3	26954.0	27041.4	27103.3	26994.1	26935.8	26972.2	26761.1
23797.7	17.5°	24150.9	24387.5	24828.0	24977.3	24980.9	25093.8	25061.0	25017.3	24860.8
20685.1	20°	20990.9	21446.0	22123.1	22818.5	23018.7	22924.0	22880.3	22960.4	22727.4
17761.8	22.5°	18074.9	18464.5	19250.8	20266.5	20852.6	20910.9	20899.9	20830.8	20739.7
15421.0	25°	15599.4	15945.3	16698.8	17627.1	18752.1	18919.5	18926.8	18905.0	18824.9
13298.6	27.5°	13509.8	13928.4	14343.4	15173.5	16371.2	17062.9	16975.5	16950.0	16920.9
11507.5	30°	11616.7	12144.6	12534.1	13051.1	14125.0	15060.6	15151.6	15107.9	15038.8
10025.9	32.5°	10116.9	10429.9	10925.0	11274.5	12046.3	13105.7	13455.2	13422.4	13360.5
8689.8	35°	8813.6	8937.4	9326.9	9716.4	10229.7	11256.3	11773.3	11700.5	11689.5
7080.7	37.5°	7259.1	7674.1	7888.9	8282.1	8642.5	9439.7	10153.3	10120.5	10124.1
5693.7	40°	5861.2	6101.4	6527.4	6858.6	7189.9	7772.4	8566.0	8587.9	8580.6
4408.6	42.5°	4499.6	4732.6	5180.4	5540.8	5835.7	6196.1	6953.3	6978.8	7011.5
3433.0	45°	3513.1	3662.3	3990.0	4364.9	4678.0	4896.4	5471.6	5635.4	5639.1
2661.2	47.5°	2726.7	2897.8	3130.8	3491.2	3797.0	3953.5	4372.2	4594.3	4583.4
2042.3	50°	2140.6	2297.1	2486.4	2770.4	3101.7	3225.5	3534.9	3753.3	3742.4
1539.9	52.5°	1638.2	1838.4	2005.9	2224.3	2548.3	2653.9	2876.0	3127.2	3090.8
1128.5	55°	1241.4	1445.3	1601.8	1783.8	2078.7	2213.4	2366.3	2566.5	2573.8
873.7	57.5°	935.6	1146.7	1288.7	1474.4	1696.5	1845.7	1962.2	2177.0	2173.4
597.0	60°	669.8	851.9	1023.0	1215.9	1387.0	1558.1	1638.2	1842.1	1849.4
422.3	62.5°	484.2	655.3	819.1	986.6	1139.5	1306.9	1379.7	1539.9	1561.8
276.7	65°	338.6	458.7	648.0	775.4	946.5	1070.3	1164.9	1303.3	1328.8
163.8	67.5°	218.4	331.3	513.3	626.2	782.7	888.3	986.6	1095.8	1128.5
105.6	70°	131.1	251.2	382.2	502.4	644.4	739.0	833.7	928.3	946.5
51.0	72.5°	83.7	174.7	276.7	407.7	516.9	618.9	702.6	771.8	717.2
32.8	75°	47.3	120.1	218.4	320.4	418.7	516.9	586.1	622.5	498.7
21.8	77.5°	29.1	87.4	178.4	258.5	324.0	415.0	458.7	480.5	356.8
14.6	80°	18.2	65.5	149.3	211.1	211.1	305.8	356.8	375.0	258.5
10.9	82.5°	14.6	47.3	116.5	160.2	142.0	229.3	280.3	284.0	182.0
7.3	85°	10.9	36.4	72.8	105.6	98.3	160.2	163.8	182.0	120.1
7.3	87.5°	7.3	21.8	43.7	61.9	54.6	76.4	87.4	98.3	65.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33860.0
32866.2
32316.4
31511.9
30004.7
28384.7
26506.3
24627.8
22560.0
20565.0
18555.5
16749.8
14951.4
13196.7
11569.4
10007.6
8453.2
6902.3
5544.4
4543.3
3742.4
3094.4
2573.8
2166.1
1831.2
1554.5
1321.5
1124.9
932.0
666.2
473.3
334.9
240.3
167.5
109.2
58.2
0.0

(END OF REPORT)