

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: P637865

Luminaire Tested: **IFLD-L-SA8B-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637865  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31249.6 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

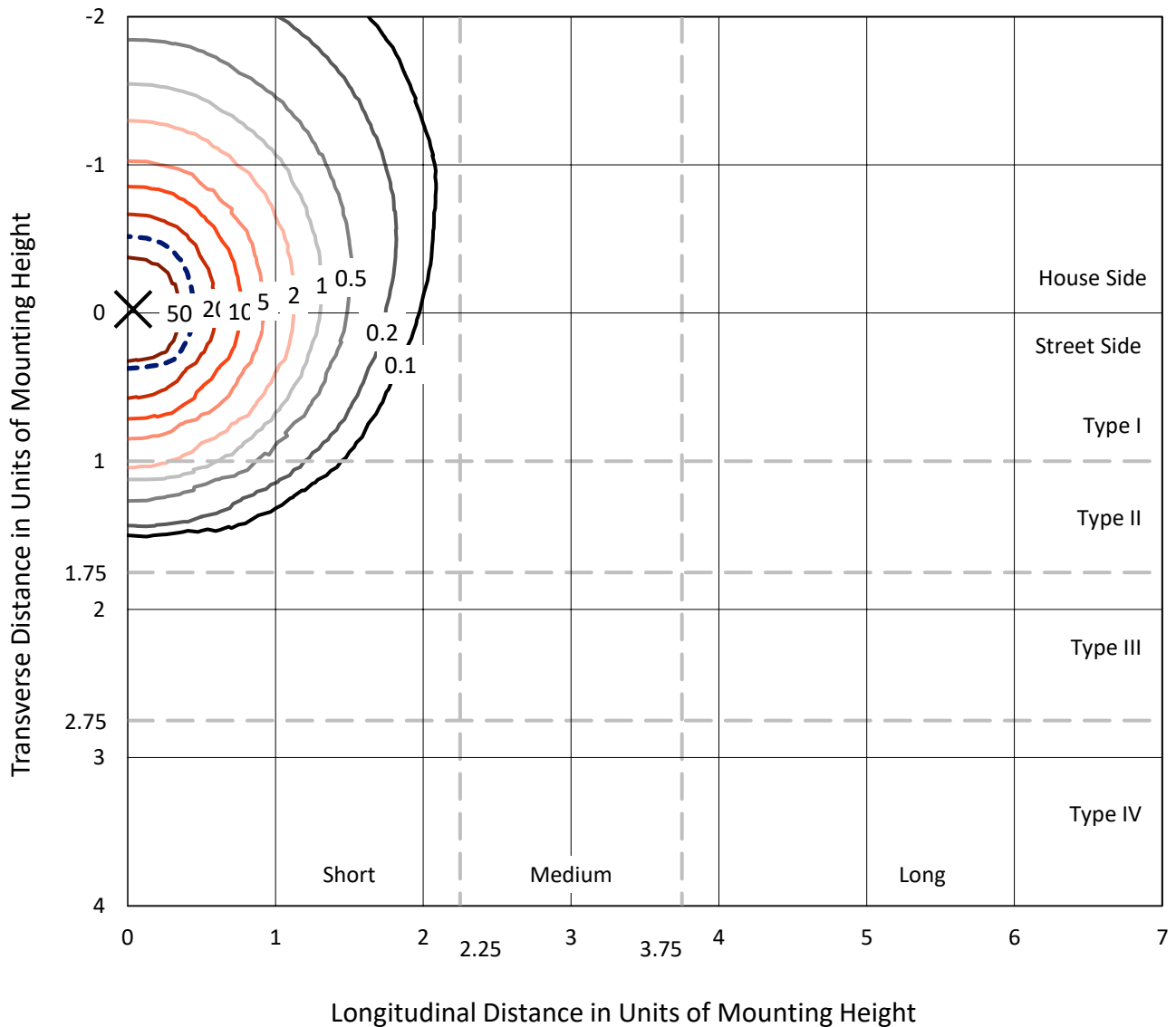
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

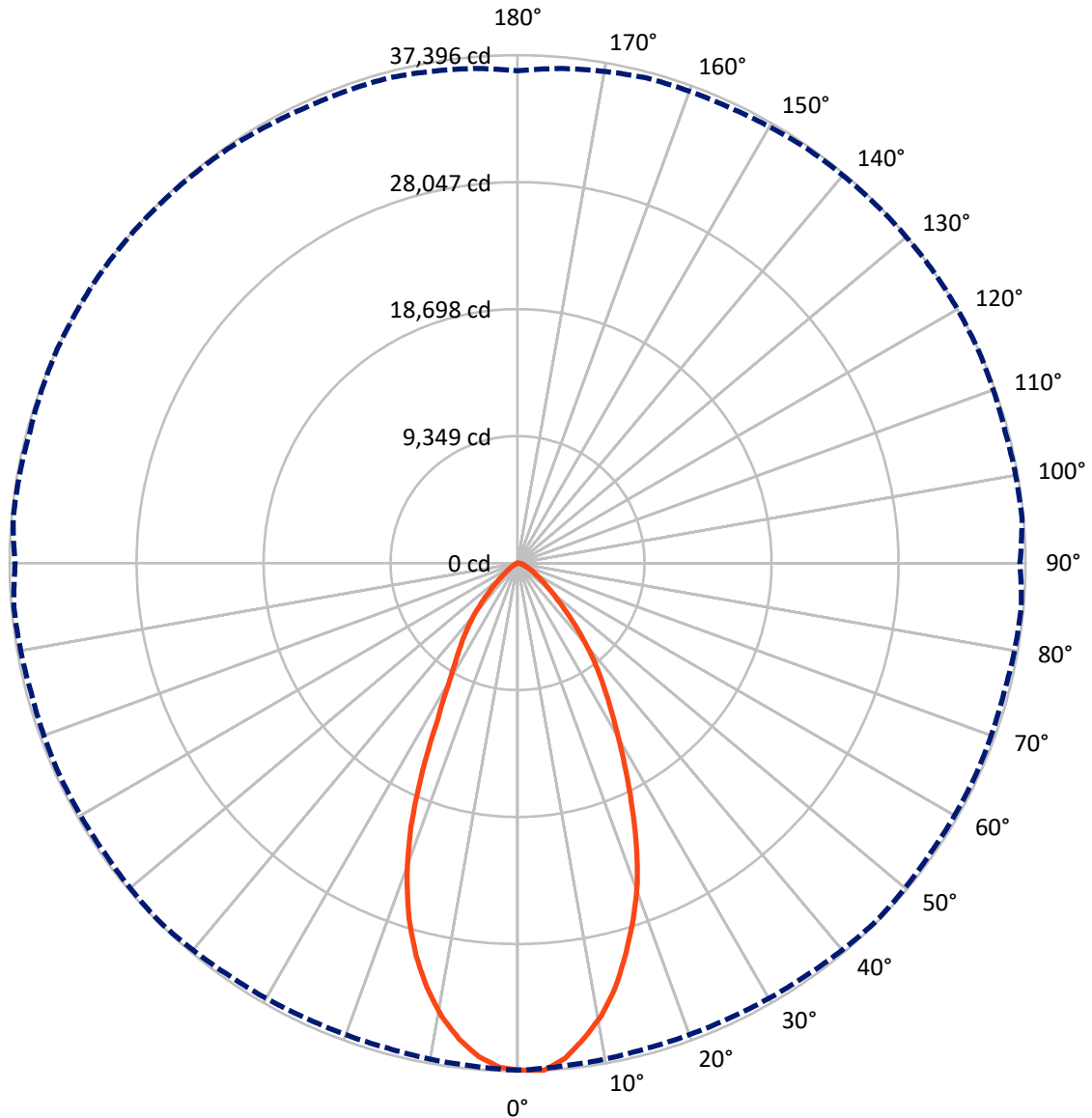
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 93.3 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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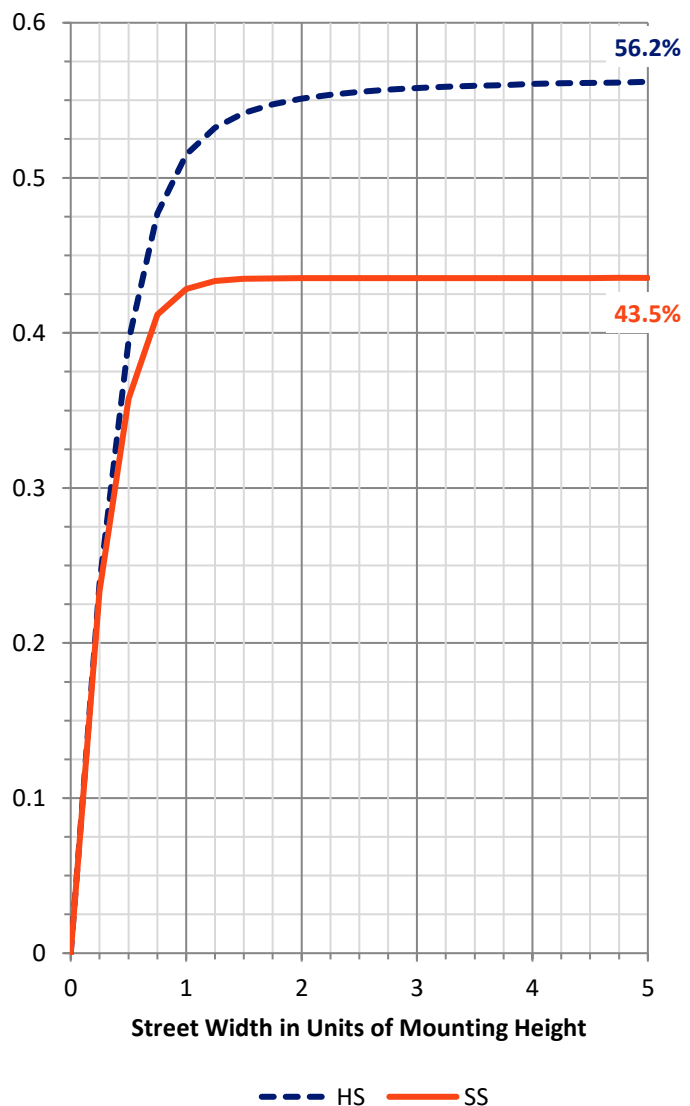
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17732.3	0.0	17732.3
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	13517.4	0.0	13517.4
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	31249.6	0.0	31249.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3390.2	10.8
10°-20°	8081.5	25.9
20°-30°	8230.9	26.3
30°-40°	6137.8	19.6
40°-50°	3206.5	10.3
50°-60°	1348.7	4.3
60°-70°	550.8	1.8
70°-80°	231.8	0.7
80°-90°	71.4	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°	31249.6	100.0
0°-180°	31249.6	100.0



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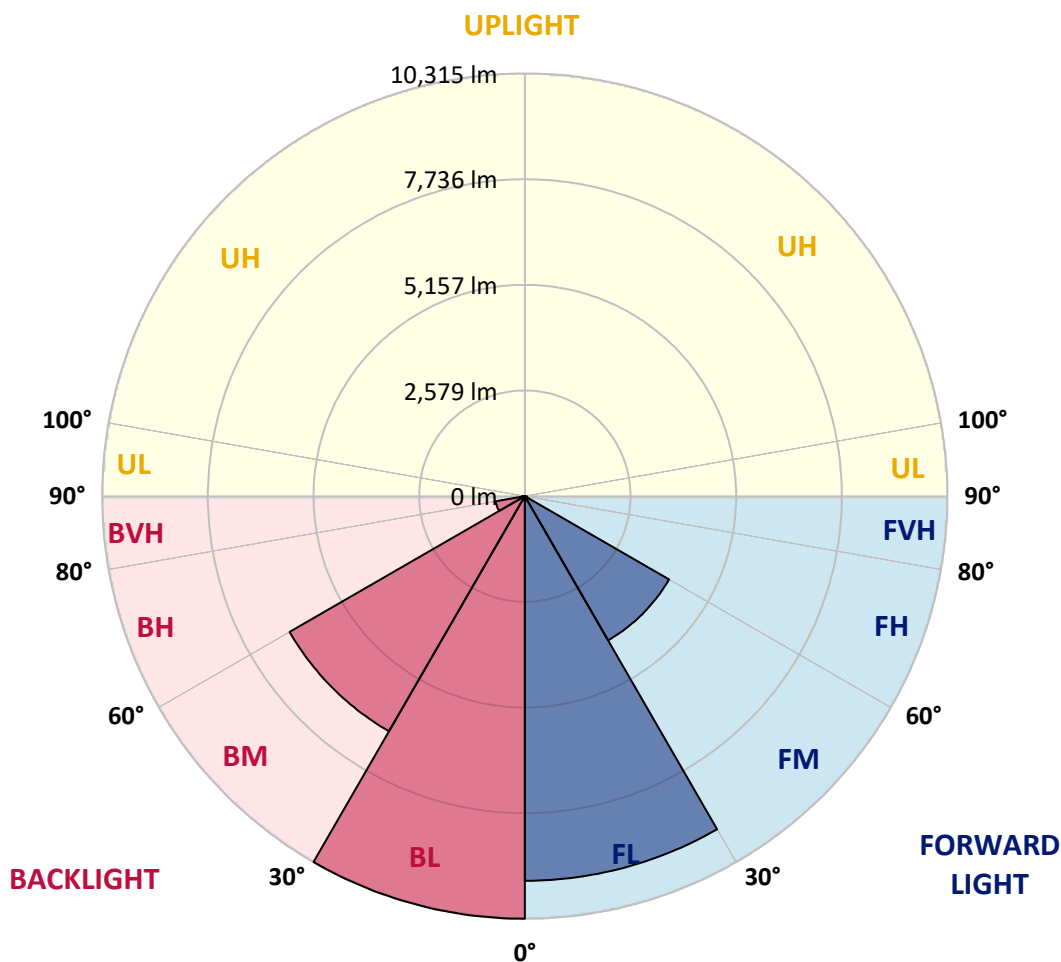
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9387.8	30.0			
FM (30°-60°)	4064.1	13.0			
FH (60°-80°)	58.8	0.2			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	10314.9	33.0	B5		
BM (30°-60°)	6628.8	21.2	B4/8500		
BH (60°-80°)	723.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	64.8	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°	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7
2.5°	37339.8	37187.2	36970.5	36950.4	37062.8	37307.6	37151.1	37159.1	37062.8	37227.4
5°	36753.7	36609.2	36460.7	36264.0	36428.5	36532.9	36452.6	36364.3	36239.9	36400.4
7.5°	35645.8	35565.5	35344.7	35256.4	35356.8	35473.2	35300.6	35276.5	35103.9	35312.6
10°	33951.8	33919.7	33702.9	33650.7	33739.1	33915.7	33839.4	33823.4	33715.0	33694.9
12.5°	32193.6	32069.2	31800.2	31784.2	31916.6	32181.6	31976.8	31780.1	31840.4	31892.5
15°	27665.6	27533.2	28199.5	29247.2	29797.1	29777.1	29837.3	29600.5	29528.2	29552.3
17.5°	21993.6	21768.8	22009.7	23631.4	26244.6	27762.0	27344.5	26834.7	26561.7	26381.1
20°	18983.0	18995.0	18950.9	19368.3	20998.1	24458.3	24358.0	23374.5	23017.2	22868.7
22.5°	17152.5	17084.3	16987.9	17120.4	17558.0	19589.1	20949.9	20046.7	19922.3	19757.7
25°	15358.2	15358.2	15241.8	15374.3	15498.7	15526.8	16891.6	17260.9	17020.1	17020.1
27.5°	13804.7	13724.4	13672.2	13732.5	13567.9	12777.1	12949.7	14840.4	14675.8	14575.4
30°	12263.3	12239.2	12150.9	12231.2	11621.0	10729.9	10368.6	12524.2	12696.8	12660.7
32.5°	10123.7	10220.1	10613.5	10737.9	9694.2	8975.7	8630.5	10396.7	11087.1	11059.0
35°	6880.3	6960.6	7410.1	8895.4	8036.4	7522.5	7422.2	8269.2	9405.2	9513.6
37.5°	5479.3	5467.3	5595.7	5860.7	6458.8	6334.4	6306.3	6527.0	7671.1	7719.2
40°	4515.9	4499.9	4495.9	4279.1	4130.6	5266.6	5190.3	5057.8	6049.3	6145.7
42.5°	3640.8	3656.9	3668.9	3195.3	2978.5	4062.3	4018.2	3881.7	4744.7	4857.1
45°	2858.1	2854.1	2878.2	2380.4	2320.2	2597.2	3002.6	2894.2	3580.6	3701.1
47.5°	1481.2	1533.4	1858.6	1842.5	1870.6	1842.5	2272.0	2243.9	2693.5	2886.2
50°	995.5	1011.6	1039.7	1043.7	1473.2	1356.8	1541.4	1746.2	1886.7	2183.7
52.5°	770.7	782.8	710.5	666.4	903.2	1003.5	1011.6	1208.3	1316.6	1617.7
55°	429.5	481.7	517.8	521.8	497.8	742.6	738.6	895.2	979.5	1180.2
57.5°	56.2	68.2	104.4	337.2	333.2	413.5	517.8	650.3	698.5	863.0
60°	4.0	8.0	12.0	52.2	220.8	240.8	353.2	405.4	485.7	606.1
62.5°	0.0	0.0	4.0	12.0	44.2	140.5	184.7	212.8	285.0	397.4
65°	0.0	0.0	4.0	8.0	16.1	52.2	72.3	116.4	168.6	244.9
67.5°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	52.2	88.3	148.5
70°	0.0	0.0	4.0	8.0	12.0	16.1	24.1	32.1	48.2	80.3
72.5°	0.0	0.0	4.0	4.0	8.0	20.1	20.1	24.1	32.1	44.2
75°	0.0	0.0	4.0	8.0	12.0	20.1	20.1	20.1	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	12.0	20.1	16.1	20.1	20.1	20.1
80°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	20.1	16.1	16.1
82.5°	0.0	0.0	4.0	12.0	12.0	28.1	28.1	28.1	12.0	12.0
85°	0.0	0.0	8.0	12.0	20.1	32.1	32.1	24.1	12.0	8.0
87.5°	0.0	0.0	4.0	8.0	8.0	16.1	24.1	20.1	8.0	4.0
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°
37335.7	0°	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7	37335.7
36986.5	2.5°	37283.6	37183.2	37371.9	37396.0	37315.7	37215.3	36982.5	36962.4	36557.0
36167.6	5°	36577.1	36412.5	36532.9	36613.2	36585.1	36476.7	36380.4	36292.1	35926.8
34838.9	7.5°	35260.4	35200.2	35256.4	35316.6	35433.0	35316.6	35276.5	35184.2	34822.9
33530.3	10°	33799.3	33686.9	33899.6	33871.5	33839.4	33807.3	33638.7	33654.8	33229.3
31748.0	12.5°	32004.9	31816.3	32021.0	32045.1	32021.0	31908.6	31719.9	31800.2	31410.8
29339.5	15°	29592.4	29572.4	29720.9	29817.2	29885.5	29765.0	29700.8	29740.9	29508.1
26240.6	17.5°	26630.0	26890.9	27376.6	27541.2	27545.2	27669.6	27633.5	27585.3	27412.7
22808.5	20°	23145.7	23647.4	24394.1	25160.8	25381.6	25277.2	25229.0	25317.3	25060.4
19585.1	22.5°	19930.3	20359.8	21226.9	22346.9	22993.1	23057.4	23045.3	22969.1	22868.7
17004.0	25°	17200.7	17582.0	18413.0	19436.6	20677.0	20861.6	20869.6	20845.6	20757.2
14663.7	27.5°	14896.6	15358.2	15815.8	16731.0	18051.7	18814.4	18718.1	18690.0	18657.8
12688.8	30°	12809.2	13391.3	13820.8	14390.8	15575.0	16606.6	16707.0	16658.8	16582.5
11055.0	32.5°	11155.4	11500.6	12046.5	12431.9	13282.9	14451.0	14836.4	14800.2	14732.0
9581.8	35°	9718.3	9854.8	10284.3	10713.8	11279.8	12411.8	12981.8	12901.5	12889.5
7807.6	37.5°	8004.2	8461.9	8698.7	9132.2	9529.6	10408.7	11195.5	11159.4	11163.4
6278.2	40°	6462.8	6727.7	7197.4	7562.7	7928.0	8570.2	9445.3	9469.4	9461.4
4861.2	42.5°	4961.5	5218.4	5712.2	6109.6	6434.7	6832.1	7667.1	7695.2	7731.3
3785.4	45°	3873.7	4038.2	4399.5	4813.0	5158.2	5399.1	6033.3	6213.9	6217.9
2934.4	47.5°	3006.6	3195.3	3452.2	3849.6	4186.8	4359.4	4821.0	5065.9	5053.8
2251.9	50°	2360.3	2532.9	2741.7	3054.8	3420.1	3556.5	3897.8	4138.6	4126.6
1698.0	52.5°	1806.4	2027.2	2211.8	2452.7	2809.9	2926.3	3171.2	3448.2	3408.0
1244.4	55°	1368.8	1593.6	1766.2	1966.9	2292.1	2440.6	2609.2	2830.0	2838.0
963.4	57.5°	1031.6	1264.5	1421.0	1625.7	1870.6	2035.2	2163.6	2400.5	2396.5
658.3	60°	738.6	939.3	1128.0	1340.7	1529.4	1718.1	1806.4	2031.2	2039.2
465.6	62.5°	533.9	722.5	903.2	1087.8	1256.4	1441.1	1521.4	1698.0	1722.1
305.1	65°	373.3	505.8	714.5	855.0	1043.7	1180.2	1284.5	1437.1	1465.2
180.6	67.5°	240.8	365.3	566.0	690.4	863.0	979.5	1087.8	1208.3	1244.4
116.4	70°	144.5	277.0	421.5	554.0	710.5	814.9	919.2	1023.6	1043.7
56.2	72.5°	92.3	192.7	305.1	449.6	570.0	682.4	774.7	851.0	790.8
36.1	75°	52.2	132.5	240.8	353.2	461.6	570.0	646.3	686.4	549.9
24.1	77.5°	32.1	96.3	196.7	285.0	357.3	457.6	505.8	529.9	393.4
16.1	80°	20.1	72.3	164.6	232.8	232.8	337.2	393.4	413.5	285.0
12.0	82.5°	16.1	52.2	128.5	176.6	156.6	252.9	309.1	313.1	200.7
8.0	85°	12.0	40.1	80.3	116.4	108.4	176.6	180.6	200.7	132.5
8.0	87.5°	8.0	24.1	48.2	68.2	60.2	84.3	96.3	108.4	72.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
37335.7  
**36239.9**  
35633.7  
34746.6  
33084.7  
31298.4  
29227.1  
27155.8  
24875.8  
22676.0  
20460.2  
18469.2  
16486.2  
14551.3  
12757.0  
11034.9  
9320.9  
7610.9  
6113.6  
5009.7  
4126.6  
3412.0  
2838.0  
2388.4  
2019.1  
1714.0  
1457.1  
1240.4  
1027.6  
734.6  
521.8  
369.3  
264.9  
184.7  
120.4  
64.2  
0.0

(END OF REPORT)