

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: P637832

Luminaire Tested: **IFLD-L-SA7C-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637832
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31261.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

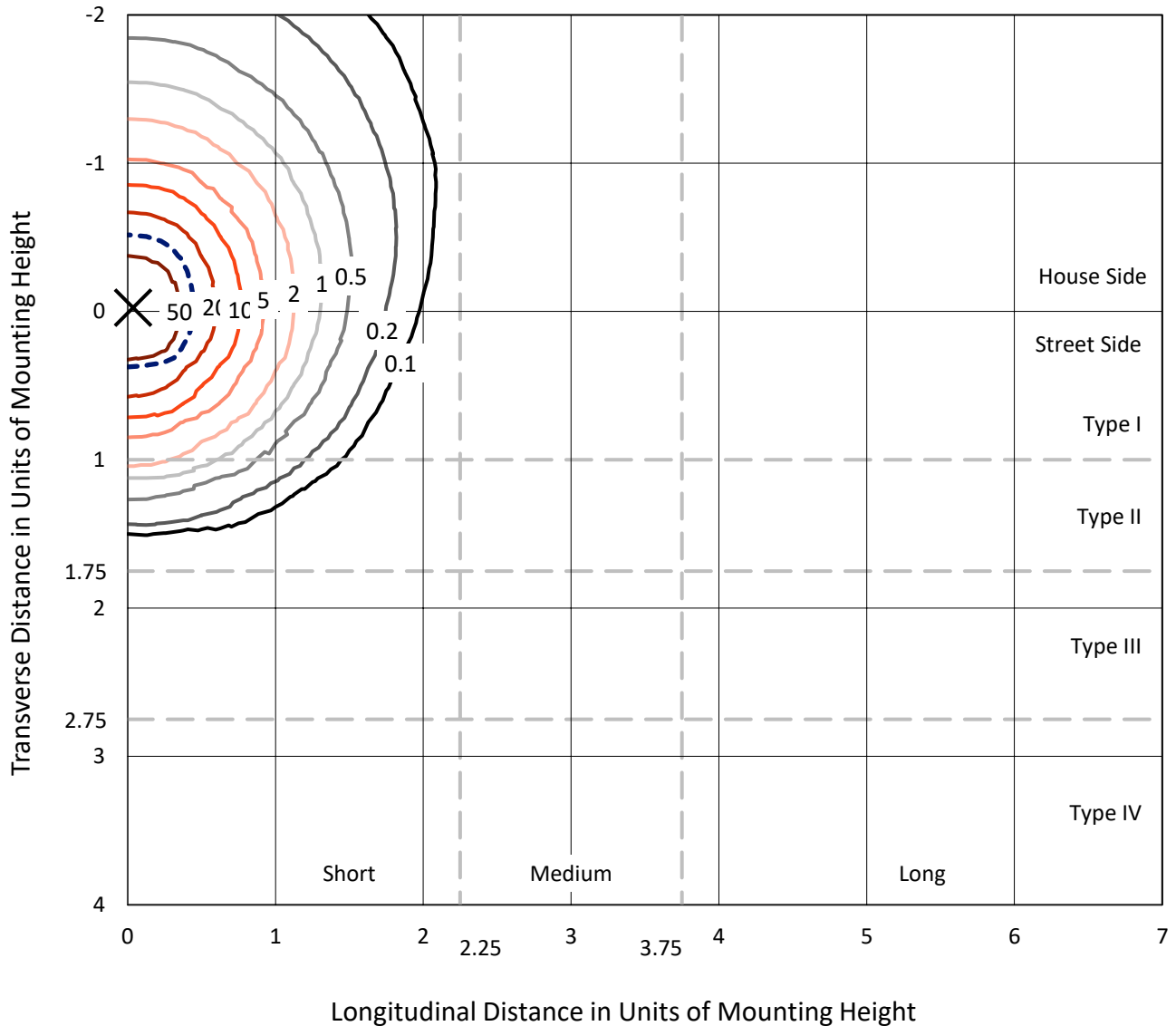
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

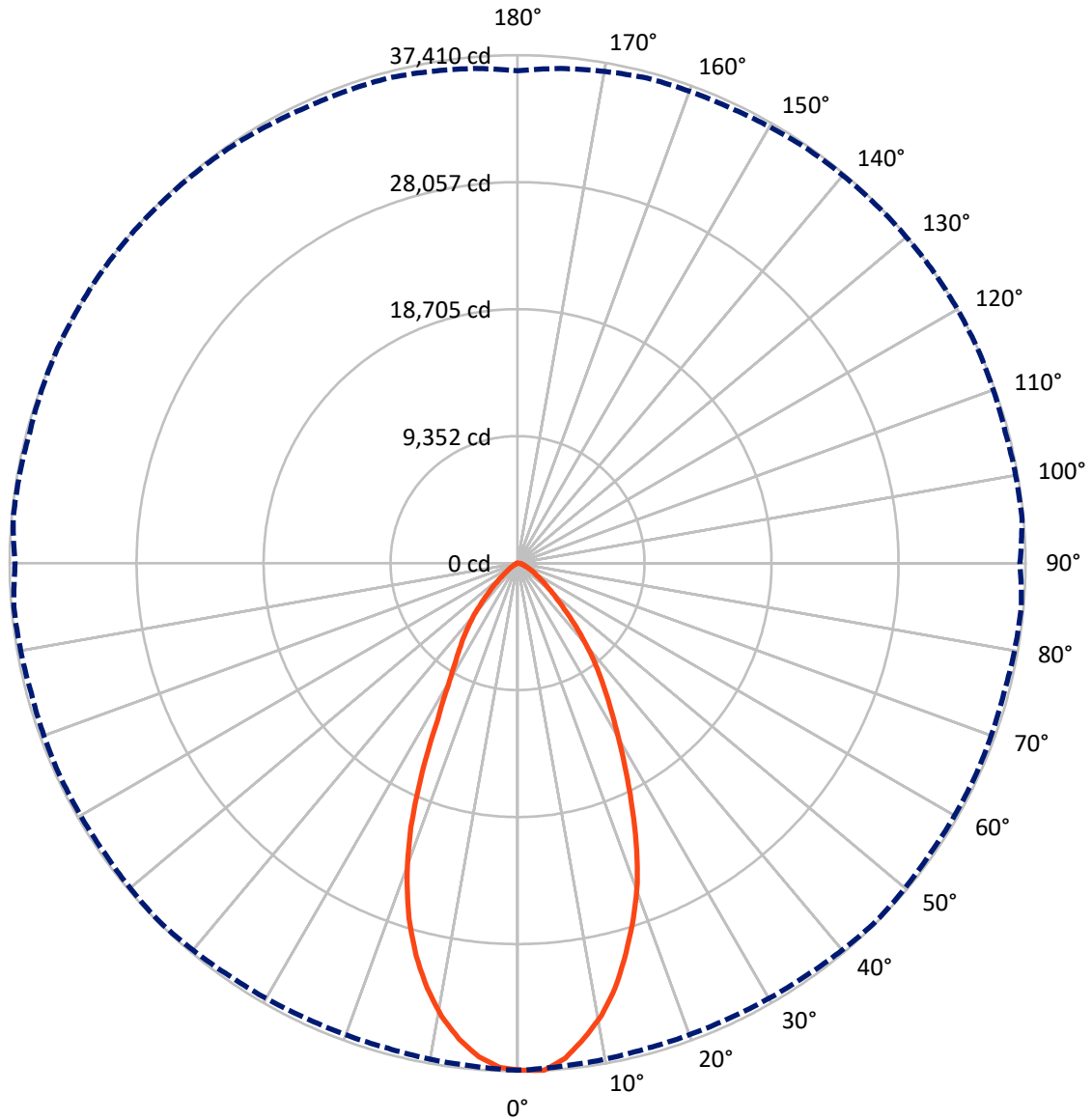
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 93.4 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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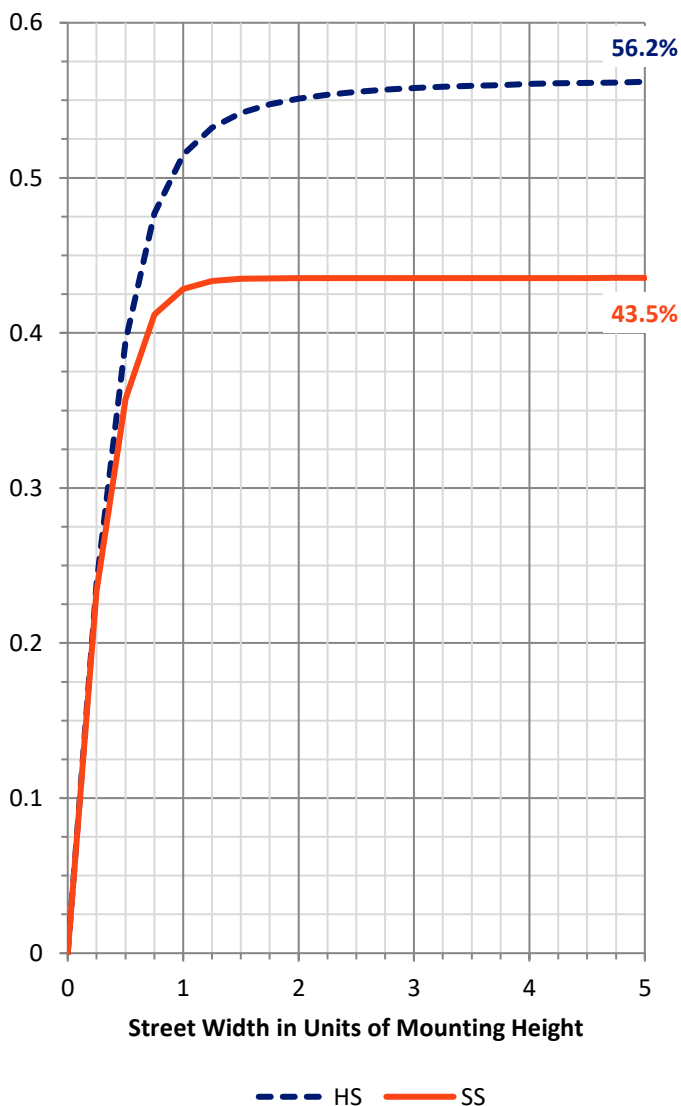
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17738.8	0.0	17738.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13522.3	0.0	13522.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	31261.1	0.0	31261.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3391.5	10.8
10°-20°	8084.5	25.9
20°-30°	8233.9	26.3
30°-40°	6140.0	19.6
40°-50°	3207.7	10.3
50°-60°	1349.2	4.3
60°-70°	551.0	1.8
70°-80°	231.9	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°	31261.1	100.0
0°-180°	31261.1	100.0



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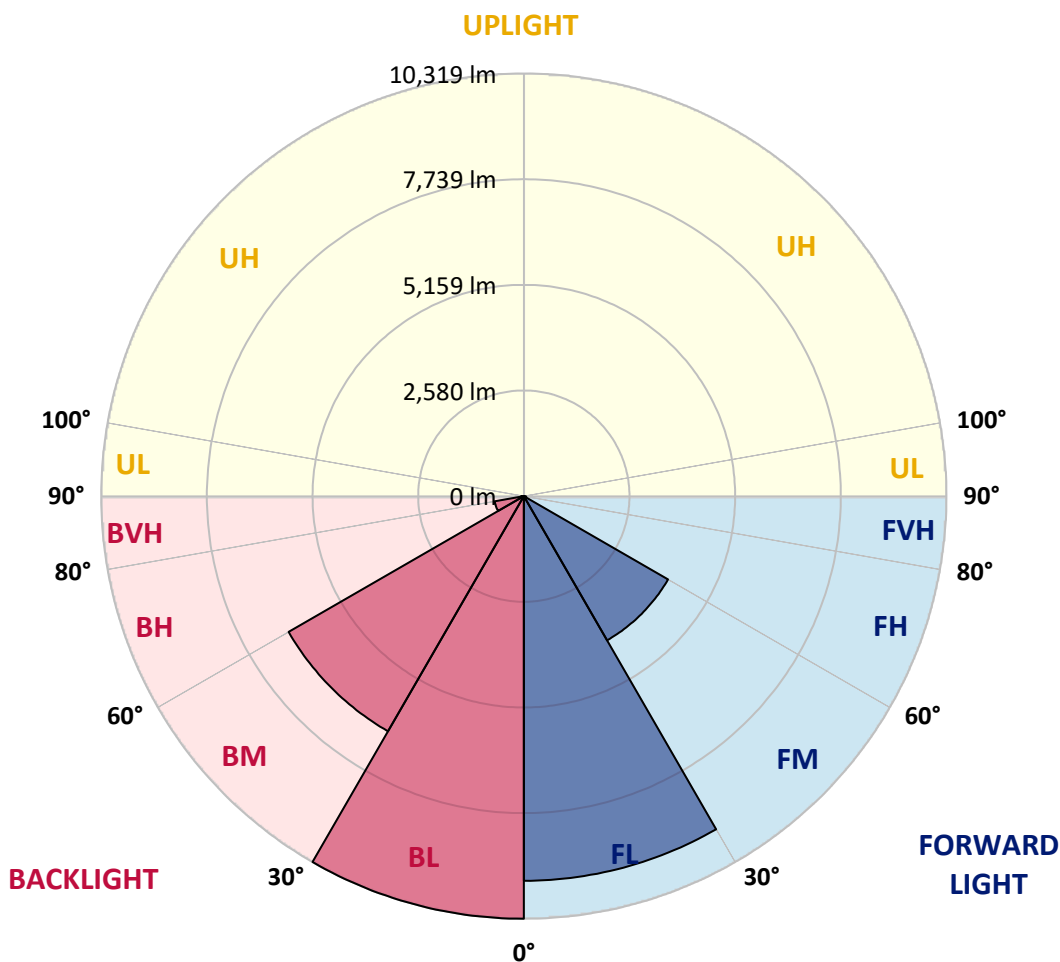
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9391.2	30.0			
FM (30°-60°)	4065.6	13.0			
FH (60°-80°)	58.8	0.2			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	10318.7	33.0	B5		
BM (30°-60°)	6631.3	21.2	B4/8500		
BH (60°-80°)	724.1	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°	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5
2.5°	37353.5	37200.9	36984.1	36964.0	37076.5	37321.4	37164.8	37172.8	37076.5	37241.1
5°	36767.3	36622.7	36474.1	36277.3	36442.0	36546.4	36466.1	36377.7	36253.3	36413.9
7.5°	35658.9	35578.6	35357.8	35269.4	35369.8	35486.3	35313.6	35289.5	35116.8	35325.6
10°	33964.3	33932.2	33715.4	33663.2	33751.5	33928.2	33851.9	33835.8	33727.4	33707.3
12.5°	32205.5	32081.0	31811.9	31795.9	31928.4	32193.4	31988.6	31791.9	31852.1	31904.3
15°	27675.8	27543.3	28209.9	29258.0	29808.1	29788.1	29848.3	29611.4	29539.1	29563.2
17.5°	22001.7	21776.8	22017.8	23640.1	26254.3	27772.2	27354.6	26844.6	26571.5	26390.8
20°	18990.0	19002.0	18957.9	19375.5	21005.8	24467.3	24366.9	23383.1	23025.7	22877.1
22.5°	17158.9	17090.6	16994.2	17126.7	17564.4	19596.4	20957.7	20054.1	19929.7	19765.0
25°	15363.9	15363.9	15247.4	15379.9	15504.4	15532.5	16897.8	17267.3	17026.3	17026.3
27.5°	13809.8	13729.5	13677.3	13737.5	13572.9	12781.8	12954.5	14845.8	14681.2	14580.8
30°	12267.8	12243.7	12155.4	12235.7	11625.3	10733.8	10372.4	12528.8	12701.5	12665.3
32.5°	10127.5	10223.8	10617.4	10741.9	9697.8	8979.0	8633.6	10400.5	11091.2	11063.1
35°	6882.8	6963.1	7412.9	8898.7	8039.3	7525.3	7424.9	8272.2	9408.7	9517.1
37.5°	5481.4	5469.3	5597.8	5862.8	6461.2	6336.7	6308.6	6529.4	7673.9	7722.1
40°	4517.6	4501.5	4497.5	4280.7	4132.1	5268.5	5192.2	5059.7	6051.6	6148.0
42.5°	3642.2	3658.3	3670.3	3196.5	2979.6	4063.8	4019.7	3883.1	4746.5	4858.9
45°	2859.1	2855.1	2879.2	2381.3	2321.0	2598.1	3003.7	2895.3	3582.0	3702.4
47.5°	1481.8	1534.0	1859.2	1843.2	1871.3	1843.2	2272.9	2244.7	2694.5	2887.2
50°	995.9	1011.9	1040.1	1044.1	1473.7	1357.3	1542.0	1746.8	1887.4	2184.5
52.5°	771.0	783.1	710.8	666.6	903.5	1003.9	1011.9	1208.7	1317.1	1618.3
55°	429.7	481.9	518.0	522.0	497.9	742.9	738.9	895.5	979.8	1180.6
57.5°	56.2	68.3	104.4	337.3	333.3	413.6	518.0	650.5	698.7	863.4
60°	4.0	8.0	12.0	52.2	220.9	240.9	353.4	405.6	485.9	606.4
62.5°	0.0	0.0	4.0	12.0	44.2	140.5	184.7	212.8	285.1	397.5
65°	0.0	0.0	4.0	8.0	16.1	52.2	72.3	116.5	168.7	245.0
67.5°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	52.2	88.3	148.6
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°
37349.5	0°	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5	37349.5
37000.2	2.5°	37297.3	37196.9	37385.7	37409.8	37329.4	37229.1	36996.1	36976.1	36570.5
36181.0	5°	36590.6	36425.9	36546.4	36626.7	36598.6	36490.2	36393.8	36305.5	35940.0
34851.8	7.5°	35273.4	35213.2	35269.4	35329.7	35446.1	35329.7	35289.5	35197.1	34835.7
33542.7	10°	33811.7	33699.3	33912.1	33884.0	33851.9	33819.8	33651.1	33667.2	33241.5
31759.7	12.5°	32016.7	31828.0	32032.8	32056.9	32032.8	31920.4	31731.6	31811.9	31422.4
29350.4	15°	29603.3	29583.3	29731.8	29828.2	29896.5	29776.0	29711.8	29751.9	29519.0
26250.3	17.5°	26639.8	26900.8	27386.7	27551.3	27555.4	27679.8	27643.7	27595.5	27422.8
22816.9	20°	23154.2	23656.2	24403.1	25170.1	25390.9	25286.5	25238.3	25326.7	25069.7
19592.3	22.5°	19937.7	20367.4	21234.7	22355.1	23001.6	23065.9	23053.8	22977.5	22877.1
17010.3	25°	17207.0	17588.5	18419.8	19443.8	20684.6	20869.3	20877.3	20853.2	20764.9
14669.2	27.5°	14902.1	15363.9	15821.6	16737.2	18058.4	18821.3	18725.0	18696.8	18664.7
12693.5	30°	12813.9	13396.2	13825.9	14396.1	15580.7	16612.7	16713.1	16664.9	16588.6
11059.1	32.5°	11159.5	11504.8	12051.0	12436.5	13287.8	14456.3	14841.8	14805.7	14737.4
9585.3	35°	9721.9	9858.4	10288.1	10717.8	11284.0	12416.4	12986.6	12906.3	12894.2
7810.4	37.5°	8007.2	8465.0	8701.9	9135.6	9533.1	10412.6	11199.6	11163.5	11167.5
6280.5	40°	6465.2	6730.2	7200.1	7565.5	7930.9	8573.4	9448.8	9472.9	9464.9
4862.9	42.5°	4963.3	5220.3	5714.3	6111.8	6437.1	6834.6	7669.9	7698.0	7734.1
3786.8	45°	3875.1	4039.7	4401.1	4814.8	5160.1	5401.0	6035.5	6216.2	6220.2
2935.4	47.5°	3007.7	3196.5	3453.5	3851.0	4188.3	4361.0	4822.8	5067.7	5055.7
2252.8	50°	2361.2	2533.9	2742.7	3055.9	3421.3	3557.9	3899.2	4140.1	4128.1
1698.6	52.5°	1807.0	2027.9	2212.6	2453.6	2811.0	2927.4	3172.4	3449.4	3409.3
1244.9	55°	1369.3	1594.2	1766.9	1967.7	2292.9	2441.5	2610.2	2831.0	2839.1
963.8	57.5°	1032.0	1264.9	1421.5	1626.3	1871.3	2035.9	2164.4	2401.4	2397.3
658.6	60°	738.9	939.7	1128.4	1341.2	1530.0	1718.7	1807.0	2031.9	2039.9
465.8	62.5°	534.1	722.8	903.5	1088.2	1256.9	1441.6	1521.9	1698.6	1722.7
305.2	65°	373.5	506.0	714.8	855.3	1044.1	1180.6	1285.0	1437.6	1465.7
180.7	67.5°	240.9	365.4	566.2	690.7	863.4	979.8	1088.2	1208.7	1244.9
116.5	70°	144.6	277.1	421.6	554.2	710.8	815.2	919.6	1024.0	1044.1
56.2	72.5°	92.4	192.8	305.2	449.8	570.2	682.7	775.0	851.3	791.1
36.1	75°	52.2	132.5	240.9	353.4	461.8	570.2	646.5	686.7	550.1
24.1	77.5°	32.1	96.4	196.8	285.1	357.4	457.8	506.0	530.1	393.5
16.1	80°	20.1	72.3	164.6	232.9	232.9	337.3	393.5	413.6	285.1
12.0	82.5°	16.1	52.2	128.5	176.7	156.6	253.0	309.2	313.2	200.8
8.0	85°	12.0	40.2	80.3	116.5	108.4	176.7	180.7	200.8	132.5
8.0	87.5°	8.0	24.1	48.2	68.3	60.2	84.3	96.4	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°
37349.5
36253.3
35646.9
34759.4
33097.0
31310.0
29237.9
27165.8
24885.0
22684.4
20467.7
18476.0
16492.3
14556.7
12761.7
11039.0
9324.3
7613.7
6115.8
5011.5
4128.1
3413.3
2839.1
2389.3
2019.9
1714.7
1457.7
1240.8
1028.0
734.9
522.0
369.4
265.0
184.7
120.5
64.3
0.0

(END OF REPORT)