

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: P638008

Luminaire Tested: **IFLD-L-SA7E-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34991.2 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

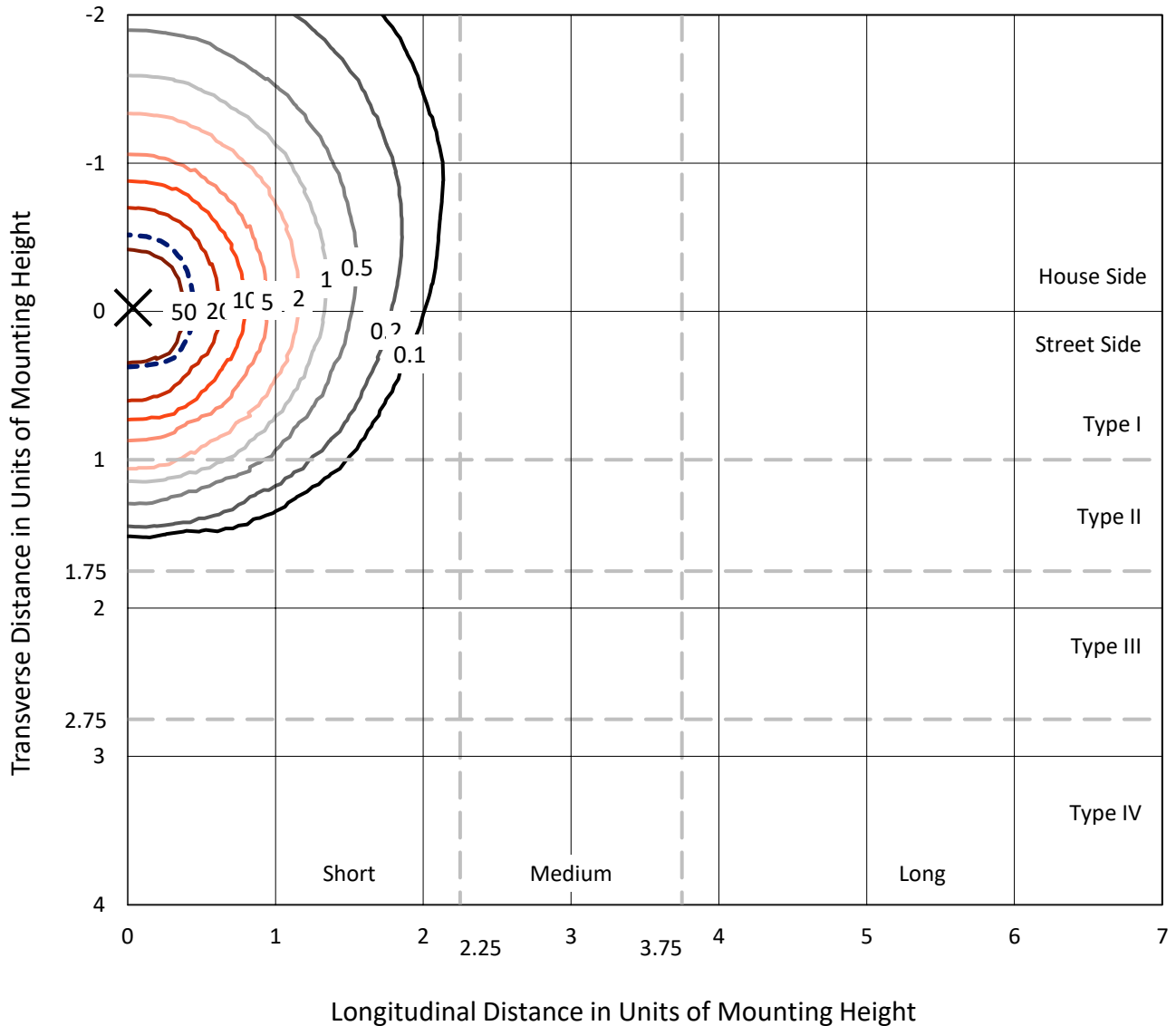
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

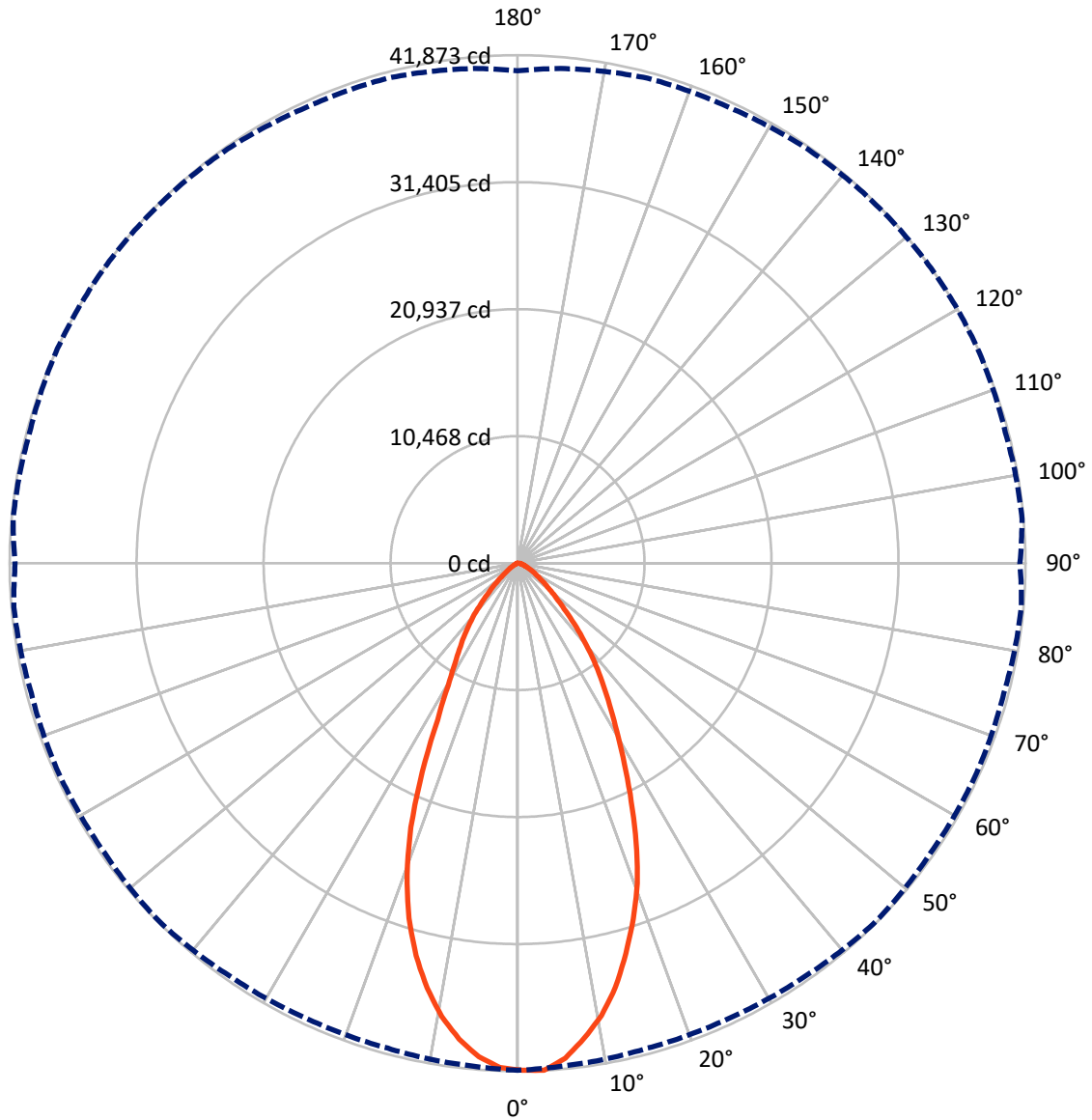
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.5 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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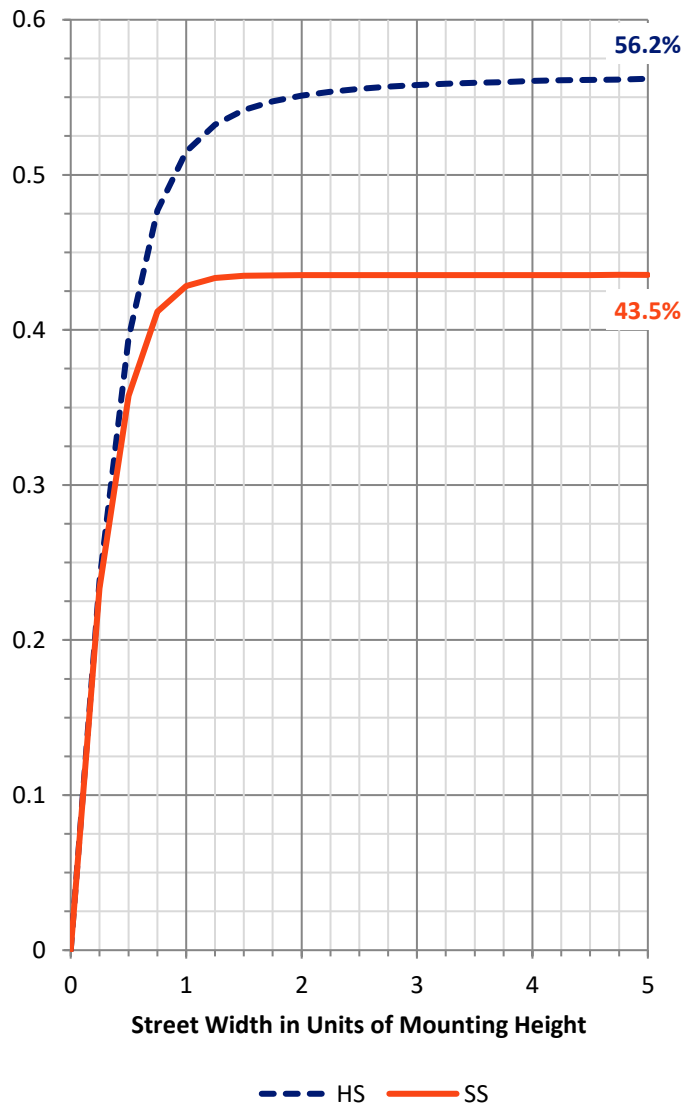
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19855.4	0.0	19855.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	15135.8	0.0	15135.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	34991.2	0.0	34991.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3796.1	10.8
10°-20°	9049.1	25.9
20°-30°	9216.4	26.3
30°-40°	6872.6	19.6
40°-50°	3590.4	10.3
50°-60°	1510.2	4.3
60°-70°	616.8	1.8
70°-80°	259.6	0.7
80°-90°	80.0	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°	34991.2	100.0
0°-180°	34991.2	100.0



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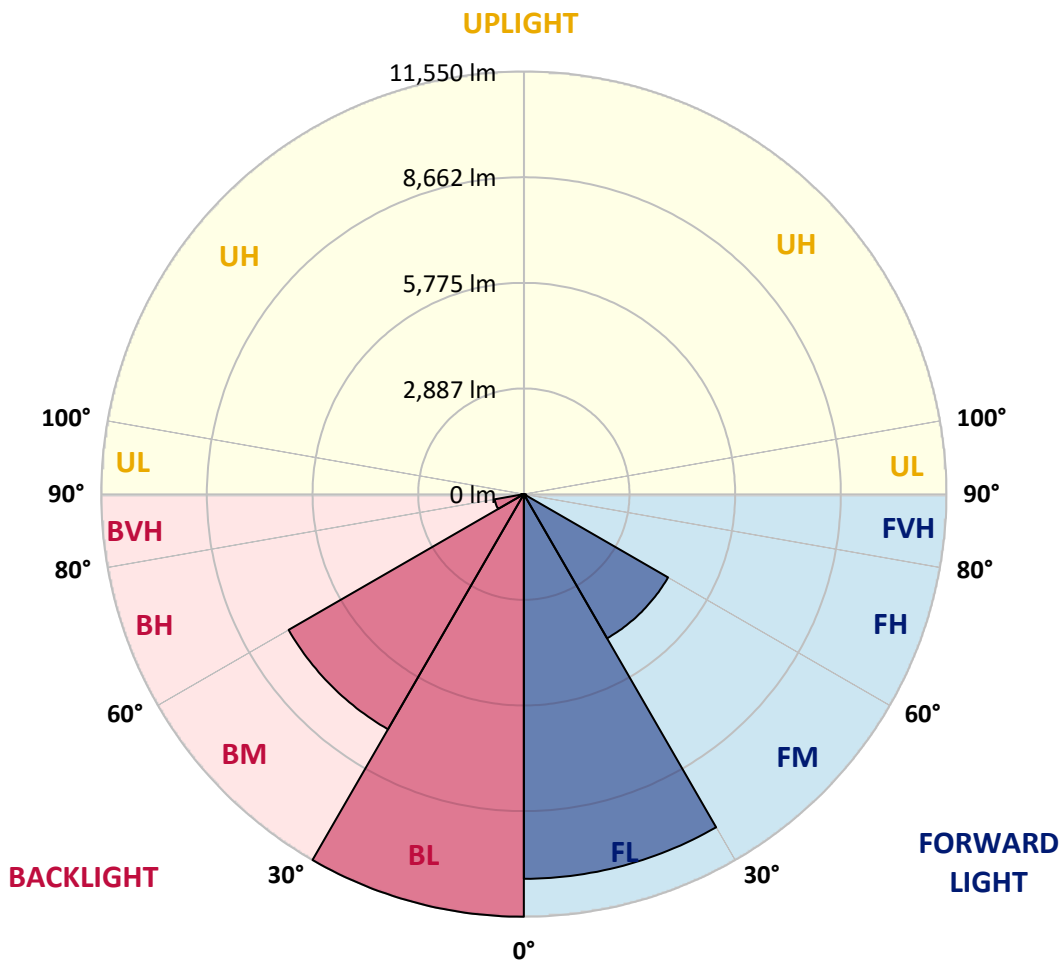
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10511.8	30.0			
FM (30°-60°)	4550.7	13.0			
FH (60°-80°)	65.9	0.2			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	11549.9	33.0	B5		
BM (30°-60°)	7422.5	21.2	B4/8500		
BH (60°-80°)	810.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	72.5	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°	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0
2.5°	41810.5	41639.7	41396.9	41374.5	41500.3	41774.5	41599.2	41608.2	41500.3	41684.6
5°	41154.2	40992.4	40826.1	40605.9	40790.1	40907.0	40817.1	40718.2	40578.9	40758.7
7.5°	39913.7	39823.8	39576.6	39477.7	39590.0	39720.4	39527.1	39500.1	39306.9	39540.6
10°	38016.9	37980.9	37738.2	37679.8	37778.6	37976.4	37891.0	37873.0	37751.7	37729.2
12.5°	36048.2	35908.8	35607.7	35589.7	35738.0	36034.7	35805.4	35585.2	35652.6	35711.0
15°	30978.0	30829.7	31575.8	32749.0	33364.8	33342.3	33409.7	33144.5	33063.6	33090.6
17.5°	24626.9	24375.2	24644.9	26460.8	29386.9	31085.9	30618.5	30047.6	29742.0	29539.7
20°	21255.8	21269.3	21219.9	21687.3	23512.2	27386.7	27274.3	26173.1	25773.1	25606.8
22.5°	19206.2	19129.8	19021.9	19170.2	19660.2	21934.5	23458.3	22446.9	22307.6	22123.3
25°	17197.0	17197.0	17066.7	17215.0	17354.4	17385.8	18914.0	19327.6	19057.9	19057.9
27.5°	15457.6	15367.7	15309.2	15376.6	15192.4	14306.9	14500.2	16617.2	16432.9	16320.6
30°	13731.6	13704.6	13605.7	13695.6	13012.4	12014.6	11610.0	14023.7	14217.0	14176.5
32.5°	11335.8	11443.7	11884.2	12023.5	10854.9	10050.3	9663.8	11641.5	12414.6	12383.1
35°	7704.1	7794.0	8297.4	9960.4	8998.6	8423.2	8310.9	9259.3	10531.3	10652.6
37.5°	6135.4	6121.9	6265.7	6562.4	7232.1	7092.8	7061.3	7308.5	8589.5	8643.5
40°	5056.6	5038.7	5034.2	4791.4	4625.1	5897.2	5811.8	5663.4	6773.6	6881.5
42.5°	4076.8	4094.7	4108.2	3577.8	3335.1	4548.7	4499.3	4346.5	5312.8	5438.7
45°	3200.3	3195.8	3222.8	2665.4	2598.0	2908.1	3362.1	3240.7	4009.3	4144.2
47.5°	1658.6	1717.0	2081.1	2063.1	2094.6	2063.1	2544.0	2512.6	3016.0	3231.7
50°	1114.7	1132.7	1164.1	1168.6	1649.6	1519.2	1726.0	1955.2	2112.5	2445.2
52.5°	863.0	876.5	795.6	746.1	1011.3	1123.7	1132.7	1352.9	1474.3	1811.4
55°	480.9	539.4	579.8	584.3	557.4	831.5	827.0	1002.3	1096.7	1321.5
57.5°	62.9	76.4	116.9	377.6	373.1	463.0	579.8	728.2	782.1	966.4
60°	4.5	9.0	13.5	58.4	247.2	269.7	395.5	454.0	543.9	678.7
62.5°	0.0	0.0	4.5	13.5	49.4	157.3	206.8	238.2	319.1	445.0
65°	0.0	0.0	4.5	9.0	18.0	58.4	80.9	130.3	188.8	274.2
67.5°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	58.4	98.9	166.3
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	53.9	89.9
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	22.5	27.0	36.0	49.4
75°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	22.5	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	13.5	22.5	18.0	22.5	22.5	22.5
80°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	22.5	18.0	18.0
82.5°	0.0	0.0	4.5	13.5	13.5	31.5	31.5	31.5	13.5	13.5
85°	0.0	0.0	9.0	13.5	22.5	36.0	36.0	27.0	13.5	9.0
87.5°	0.0	0.0	4.5	9.0	9.0	18.0	27.0	22.5	9.0	4.5
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°
41806.0	0°	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0	41806.0
41414.9	2.5°	41747.5	41635.2	41846.4	41873.4	41783.5	41671.1	41410.4	41388.0	40934.0
40498.0	5°	40956.5	40772.2	40907.0	40996.9	40965.4	40844.1	40736.2	40637.3	40228.3
39010.2	7.5°	39482.2	39414.7	39477.7	39545.1	39675.4	39545.1	39500.1	39396.8	38992.2
37544.9	10°	37846.1	37720.2	37958.4	37927.0	37891.0	37855.1	37666.3	37684.3	37207.8
35549.2	12.5°	35836.9	35625.6	35854.9	35881.8	35854.9	35729.0	35517.8	35607.7	35171.7
32852.4	15°	33135.5	33113.1	33279.4	33387.2	33463.7	33328.8	33256.9	33301.8	33041.1
29382.4	17.5°	29818.4	30110.5	30654.4	30838.7	30843.2	30982.5	30942.1	30888.1	30694.9
25539.4	20°	25916.9	26478.8	27314.8	28173.3	28420.5	28303.6	28249.7	28348.6	28060.9
21930.0	22.5°	22316.6	22797.5	23768.4	25022.5	25746.1	25818.0	25804.5	25719.1	25606.8
19039.9	25°	19260.1	19687.1	20617.6	21763.7	23152.6	23359.4	23368.4	23341.4	23242.5
16419.4	27.5°	16680.1	17197.0	17709.4	18734.3	20213.0	21067.0	20959.2	20927.7	20891.7
14208.0	30°	14342.8	14994.6	15475.5	16113.8	17439.8	18594.9	18707.3	18653.3	18567.9
12378.6	32.5°	12491.0	12877.6	13488.8	13920.3	14873.2	16181.2	16612.7	16572.3	16495.8
10729.0	35°	10881.9	11034.7	11515.6	11996.6	12630.3	13897.9	14536.1	14446.2	14432.7
8742.4	37.5°	8962.6	9475.0	9740.2	10225.6	10670.6	11655.0	12535.9	12495.5	12500.0
7029.8	40°	7236.6	7533.3	8059.1	8468.2	8877.2	9596.4	10576.2	10603.2	10594.2
5443.2	42.5°	5555.6	5843.2	6396.1	6841.1	7205.1	7650.1	8585.0	8616.5	8656.9
4238.6	45°	4337.5	4521.8	4926.3	5389.2	5775.8	6045.5	6755.7	6957.9	6962.4
3285.7	47.5°	3366.6	3577.8	3865.5	4310.5	4688.1	4881.3	5398.2	5672.4	5658.9
2521.6	50°	2642.9	2836.2	3069.9	3420.5	3829.6	3982.4	4364.4	4634.1	4620.6
1901.3	52.5°	2022.7	2269.9	2476.6	2746.3	3146.3	3276.7	3550.9	3861.0	3816.1
1393.4	55°	1532.7	1784.4	1977.7	2202.4	2566.5	2732.8	2921.6	3168.8	3177.8
1078.7	57.5°	1155.2	1415.9	1591.2	1820.4	2094.6	2278.9	2422.7	2687.9	2683.4
737.1	60°	827.0	1051.8	1263.0	1501.3	1712.5	1923.8	2022.7	2274.4	2283.3
521.4	62.5°	597.8	809.1	1011.3	1218.1	1406.9	1613.6	1703.5	1901.3	1928.3
341.6	65°	418.0	566.3	800.1	957.4	1168.6	1321.5	1438.3	1609.1	1640.6
202.3	67.5°	269.7	409.0	633.8	773.1	966.4	1096.7	1218.1	1352.9	1393.4
130.3	70°	161.8	310.1	472.0	620.3	795.6	912.4	1029.3	1146.2	1168.6
62.9	72.5°	103.4	215.7	341.6	503.4	638.3	764.1	867.5	952.9	885.5
40.5	75°	58.4	148.3	269.7	395.5	516.9	638.3	723.7	768.6	615.8
27.0	77.5°	36.0	107.9	220.2	319.1	400.0	512.4	566.3	593.3	440.5
18.0	80°	22.5	80.9	184.3	260.7	260.7	377.6	440.5	463.0	319.1
13.5	82.5°	18.0	58.4	143.8	197.8	175.3	283.2	346.1	350.6	224.7
9.0	85°	13.5	44.9	89.9	130.3	121.4	197.8	202.3	224.7	148.3
9.0	87.5°	9.0	27.0	53.9	76.4	67.4	94.4	107.9	121.4	80.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41806.0
40578.9
39900.2
38906.8
37046.0
35045.8
32726.5
30407.2
27854.2
25391.0
22909.9
20680.5
18460.1
16293.6
14284.4
12356.2
10436.9
8522.1
6845.6
5609.5
4620.6
3820.6
3177.8
2674.4
2260.9
1919.3
1631.6
1388.9
1150.7
822.5
584.3
413.5
296.7
206.8
134.8
71.9
0.0

(END OF REPORT)