

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: P637891

Luminaire Tested: **IFLD-L-SA7D-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637891
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40567.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

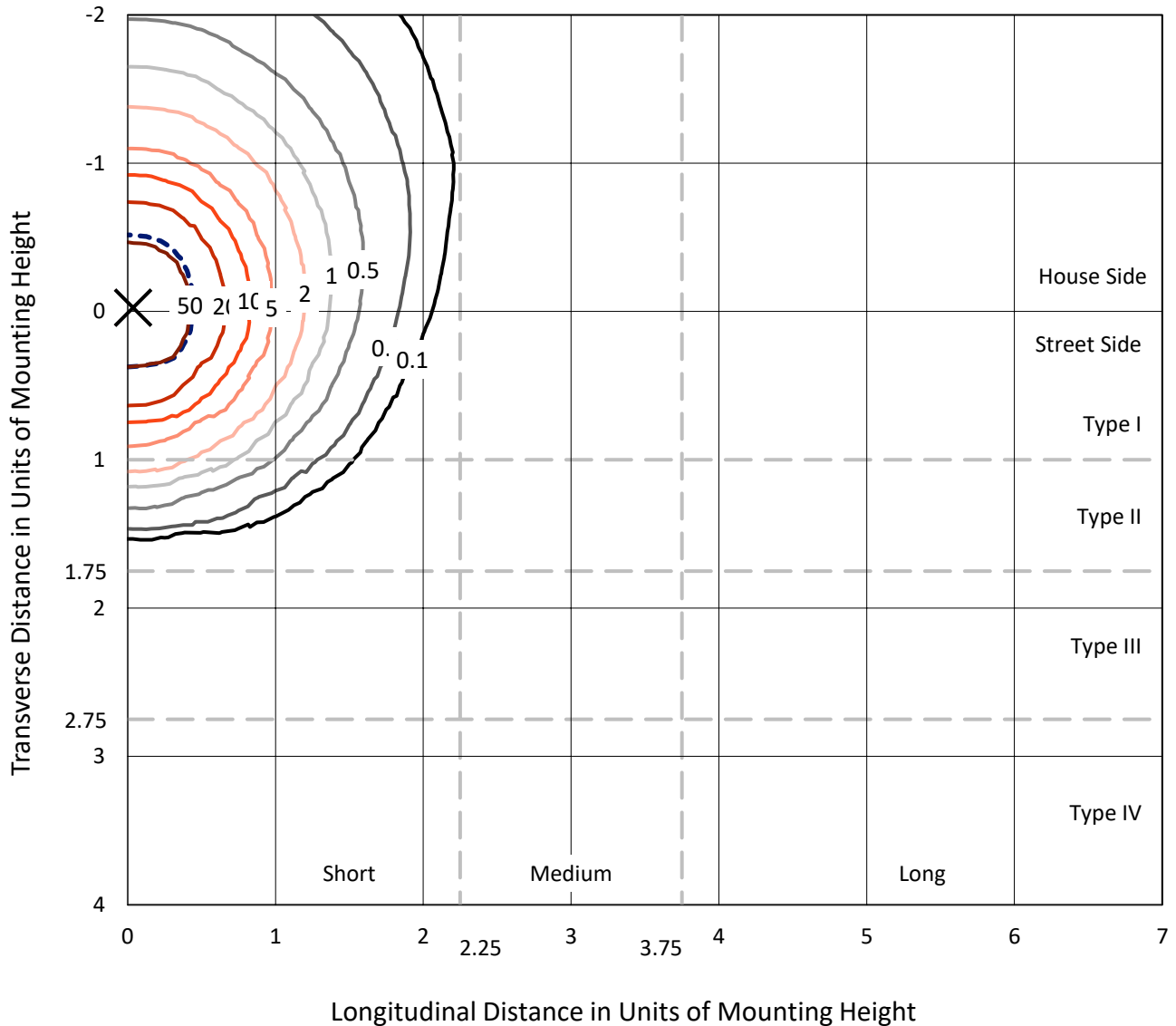
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

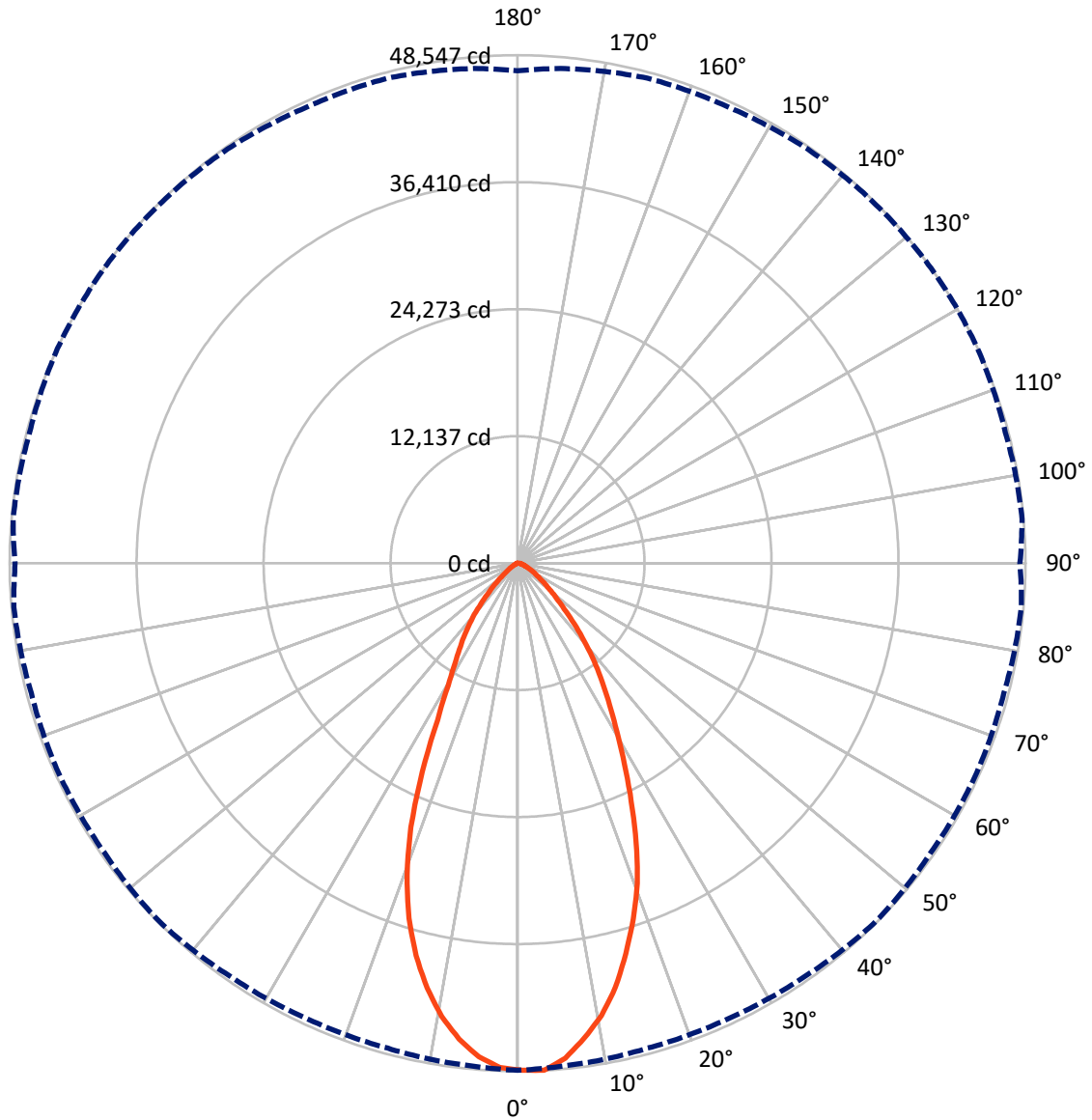
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 121.2 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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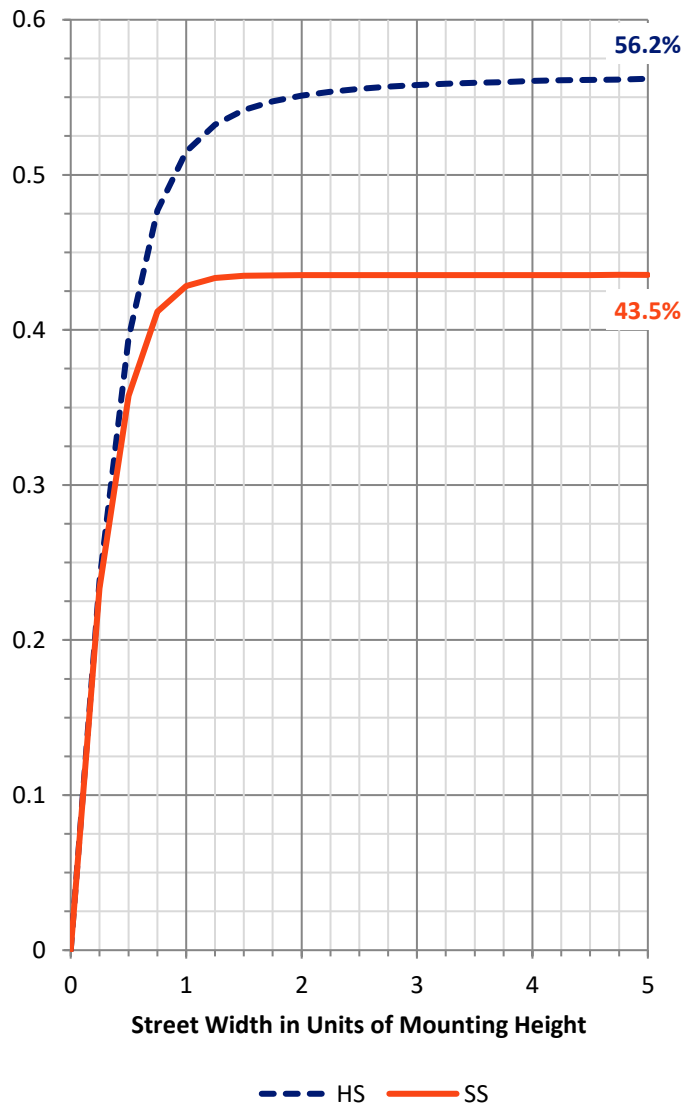
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23019.7	0.0	23019.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	17547.9	0.0	17547.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	40567.6	0.0	40567.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4401.1	10.8
10°-20°	10491.3	25.9
20°-30°	10685.2	26.3
30°-40°	7967.9	19.6
40°-50°	4162.6	10.3
50°-60°	1750.8	4.3
60°-70°	715.0	1.8
70°-80°	300.9	0.7
80°-90°	92.7	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°	40567.6	100.0
0°-180°	40567.6	100.0



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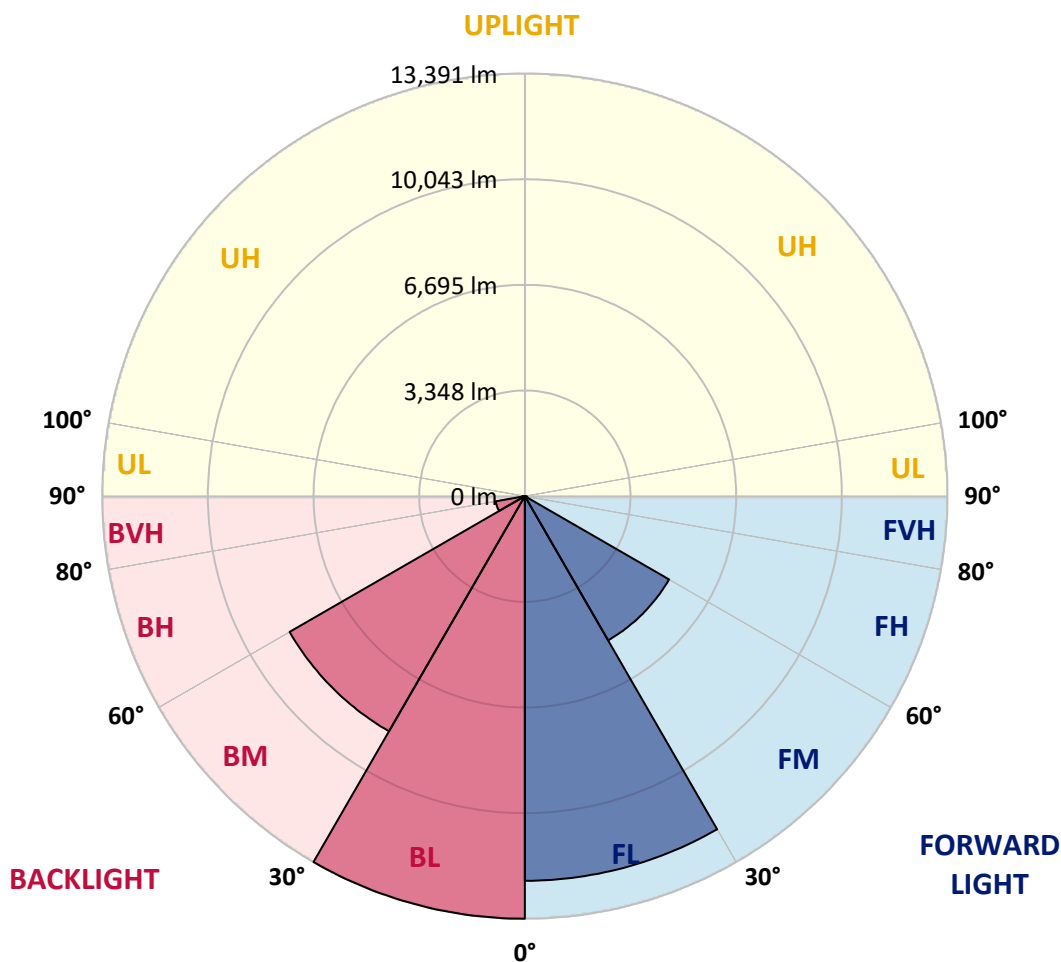
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12187.0	30.0			
FM (30°-60°)	5276.0	13.0			
FH (60°-80°)	76.3	0.2			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	13390.6	33.0	B5		
BM (30°-60°)	8605.4	21.2	B5		
BH (60°-80°)	939.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	84.1	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°	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5
2.5°	48473.7	48275.7	47994.3	47968.2	48114.1	48432.0	48228.8	48239.2	48114.1	48327.8
5°	47712.9	47525.3	47332.5	47077.1	47290.8	47426.3	47322.0	47207.4	47045.8	47254.3
7.5°	46274.6	46170.4	45883.8	45769.1	45899.4	46050.5	45826.4	45795.2	45571.1	45842.1
10°	44075.5	44033.8	43752.4	43684.7	43799.3	44028.6	43929.6	43908.8	43768.1	43742.0
12.5°	41793.1	41631.5	41282.4	41261.5	41433.5	41777.4	41511.7	41256.3	41334.5	41402.2
15°	35914.9	35743.0	36608.0	37968.1	38682.0	38656.0	38734.1	38426.7	38332.9	38364.1
17.5°	28551.6	28259.8	28572.5	30677.8	34070.2	36040.0	35498.0	34836.2	34481.9	34247.4
20°	24643.3	24658.9	24601.6	25143.6	27259.3	31751.3	31621.0	30344.3	29880.5	29687.7
22.5°	22267.0	22178.5	22053.4	22225.4	22793.4	25430.2	27196.8	26024.3	25862.7	25649.1
25°	19937.7	19937.7	19786.6	19958.5	20120.1	20156.6	21928.3	22407.7	22095.1	22095.1
27.5°	17921.0	17816.8	17749.0	17827.2	17613.5	16586.9	16811.0	19265.5	19051.8	18921.5
30°	15919.9	15888.7	15774.0	15878.2	15086.1	13929.3	13460.3	16258.6	16482.7	16435.8
32.5°	13142.4	13267.5	13778.2	13939.7	12584.8	11652.0	11203.9	13496.8	14393.1	14356.6
35°	8931.8	9036.1	9619.7	11547.8	10432.6	9765.6	9635.3	10734.9	12209.6	12350.3
37.5°	7113.2	7097.5	7264.3	7608.2	8384.7	8223.1	8186.6	8473.3	9958.4	10021.0
40°	5862.5	5841.6	5836.4	5555.0	5362.2	6837.0	6738.0	6566.0	7853.1	7978.2
42.5°	4726.5	4747.3	4762.9	4148.0	3866.6	5273.6	5216.3	5039.1	6159.5	6305.4
45°	3710.3	3705.1	3736.4	3090.2	3012.0	3371.6	3897.9	3757.2	4648.3	4804.6
47.5°	1922.9	1990.6	2412.7	2391.9	2428.4	2391.9	2949.5	2913.0	3496.7	3746.8
50°	1292.4	1313.2	1349.7	1354.9	1912.5	1761.4	2001.1	2266.8	2449.2	2834.8
52.5°	1000.5	1016.2	922.4	865.0	1172.5	1302.8	1313.2	1568.5	1709.2	2100.1
55°	557.6	625.3	672.2	677.4	646.2	964.1	958.8	1162.1	1271.5	1532.1
57.5°	73.0	88.6	135.5	437.7	432.5	536.7	672.2	844.2	906.7	1120.4
60°	5.2	10.4	15.6	67.7	286.6	312.7	458.6	526.3	630.5	786.9
62.5°	0.0	0.0	5.2	15.6	57.3	182.4	239.7	276.2	370.0	515.9
65°	0.0	0.0	5.2	10.4	20.8	67.7	93.8	151.1	218.9	317.9
67.5°	0.0	0.0	5.2	10.4	15.6	26.1	41.7	67.7	114.6	192.8
70°	0.0	0.0	5.2	10.4	15.6	20.8	31.3	41.7	62.5	104.2
72.5°	0.0	0.0	5.2	5.2	10.4	26.1	26.1	31.3	41.7	57.3
75°	0.0	0.0	5.2	10.4	15.6	26.1	26.1	26.1	31.3	36.5
77.5°	0.0	0.0	5.2	10.4	15.6	26.1	20.8	26.1	26.1	26.1
80°	0.0	0.0	5.2	10.4	15.6	26.1	31.3	26.1	20.8	20.8
82.5°	0.0	0.0	5.2	15.6	15.6	36.5	36.5	36.5	15.6	15.6
85°	0.0	0.0	10.4	15.6	26.1	41.7	41.7	31.3	15.6	10.4
87.5°	0.0	0.0	5.2	10.4	10.4	20.8	31.3	26.1	10.4	5.2
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°
48468.5	0°	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5	48468.5
48015.1	2.5°	48400.7	48270.5	48515.4	48546.6	48442.4	48312.1	48009.9	47983.8	47457.5
46952.0	5°	47483.6	47269.9	47426.3	47530.5	47494.0	47353.3	47228.2	47113.6	46639.4
45227.2	7.5°	45774.3	45696.2	45769.1	45847.3	45998.4	45847.3	45795.2	45675.3	45206.3
43528.4	10°	43877.5	43731.6	44007.8	43971.3	43929.6	43887.9	43669.1	43689.9	43137.5
41214.6	12.5°	41548.1	41303.2	41569.0	41600.2	41569.0	41423.1	41178.1	41282.4	40776.9
38088.0	15°	38416.3	38390.2	38583.0	38708.1	38796.7	38640.3	38557.0	38609.1	38306.8
34065.0	17.5°	34570.5	34909.2	35539.7	35753.4	35758.6	35920.1	35873.2	35810.7	35586.6
29609.5	20°	30047.2	30698.6	31667.9	32663.2	32949.8	32814.3	32751.8	32866.4	32532.9
25425.0	22.5°	25873.1	26430.7	27556.3	29010.2	29849.2	29932.6	29916.9	29817.9	29687.7
22074.2	25°	22329.6	22824.6	23903.3	25232.2	26842.4	27082.1	27092.5	27061.3	26946.6
19036.2	27.5°	19338.4	19937.7	20531.8	21719.9	23434.3	24424.4	24299.4	24262.9	24221.2
16472.3	30°	16628.6	17384.2	17941.8	18681.8	20219.1	21558.3	21688.6	21626.1	21527.1
14351.4	32.5°	14481.7	14929.8	15638.5	16138.8	17243.5	18760.0	19260.2	19213.3	19124.8
12438.9	35°	12616.1	12793.3	13350.8	13908.4	14643.2	16112.7	16852.7	16748.5	16732.9
10135.6	37.5°	10390.9	10985.0	11292.5	11855.3	12371.2	13512.4	14533.8	14486.9	14492.1
8150.2	40°	8389.9	8733.8	9343.5	9817.7	10291.9	11125.7	12261.7	12293.0	12282.6
6310.6	42.5°	6440.9	6774.4	7415.4	7931.3	8353.4	8869.3	9953.2	9989.7	10036.6
4914.1	45°	5028.7	5242.4	5711.4	6248.1	6696.3	7008.9	7832.3	8066.8	8072.0
3809.3	47.5°	3903.1	4148.0	4481.5	4997.4	5435.2	5659.3	6258.5	6576.4	6560.8
2923.4	50°	3064.1	3288.2	3559.2	3965.7	4439.9	4617.0	5060.0	5372.6	5357.0
2204.3	52.5°	2345.0	2631.6	2871.3	3184.0	3647.8	3798.9	4116.8	4476.3	4424.2
1615.4	55°	1777.0	2068.8	2292.9	2553.4	2975.5	3168.4	3387.2	3673.8	3684.3
1250.7	57.5°	1339.3	1641.5	1844.7	2110.5	2428.4	2642.0	2808.8	3116.2	3111.0
854.6	60°	958.8	1219.4	1464.3	1740.5	1985.4	2230.4	2345.0	2636.8	2647.2
604.5	62.5°	693.1	938.0	1172.5	1412.2	1631.1	1870.8	1975.0	2204.3	2235.6
396.0	65°	484.6	656.6	927.6	1110.0	1354.9	1532.1	1667.6	1865.6	1902.1
234.5	67.5°	312.7	474.2	734.8	896.3	1120.4	1271.5	1412.2	1568.5	1615.4
151.1	70°	187.6	359.6	547.2	719.1	922.4	1057.9	1193.3	1328.8	1354.9
73.0	72.5°	119.9	250.1	396.0	583.6	740.0	885.9	1005.7	1104.8	1026.6
46.9	75°	67.7	172.0	312.7	458.6	599.3	740.0	839.0	891.1	713.9
31.3	77.5°	41.7	125.1	255.3	370.0	463.8	594.1	656.6	687.9	510.7
20.8	80°	26.1	93.8	213.7	302.2	302.2	437.7	510.7	536.7	370.0
15.6	82.5°	20.8	67.7	166.8	229.3	203.2	328.3	401.3	406.5	260.6
10.4	85°	15.6	52.1	104.2	151.1	140.7	229.3	234.5	260.6	172.0
10.4	87.5°	10.4	31.3	62.5	88.6	78.2	109.4	125.1	140.7	93.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
48468.5
47045.8
46259.0
45107.3
42949.9
40631.0
37942.0
35253.1
32293.2
29437.5
26561.0
23976.3
21402.0
18890.3
16560.9
14325.3
12100.2
9880.3
7936.5
6503.5
5357.0
4429.4
3684.3
3100.6
2621.2
2225.1
1891.6
1610.2
1334.0
953.6
677.4
479.4
343.9
239.7
156.3
83.4
0.0

(END OF REPORT)