

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: P637423

Luminaire Tested: **IFLD-M-SA4E-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35718.3 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

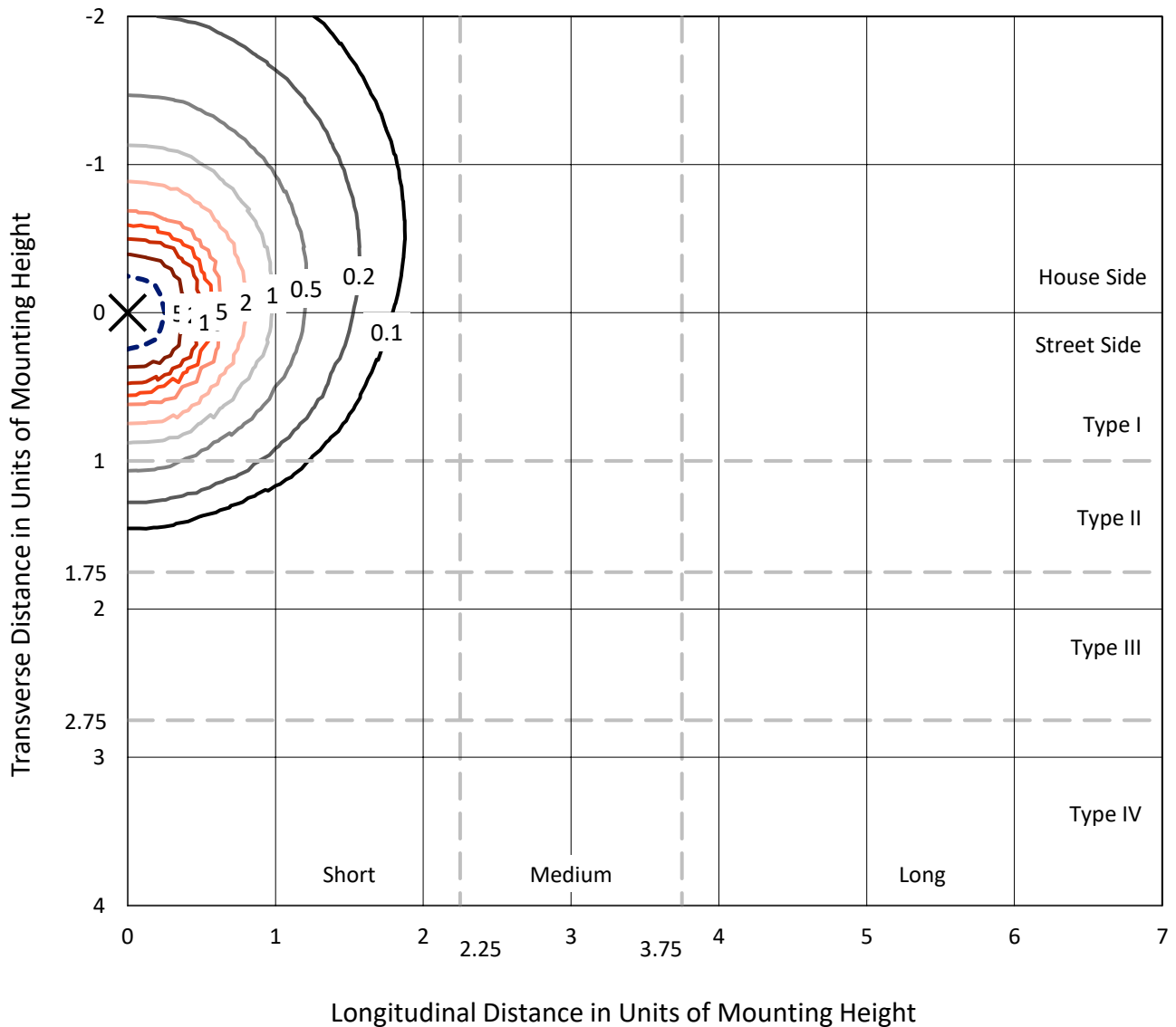
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

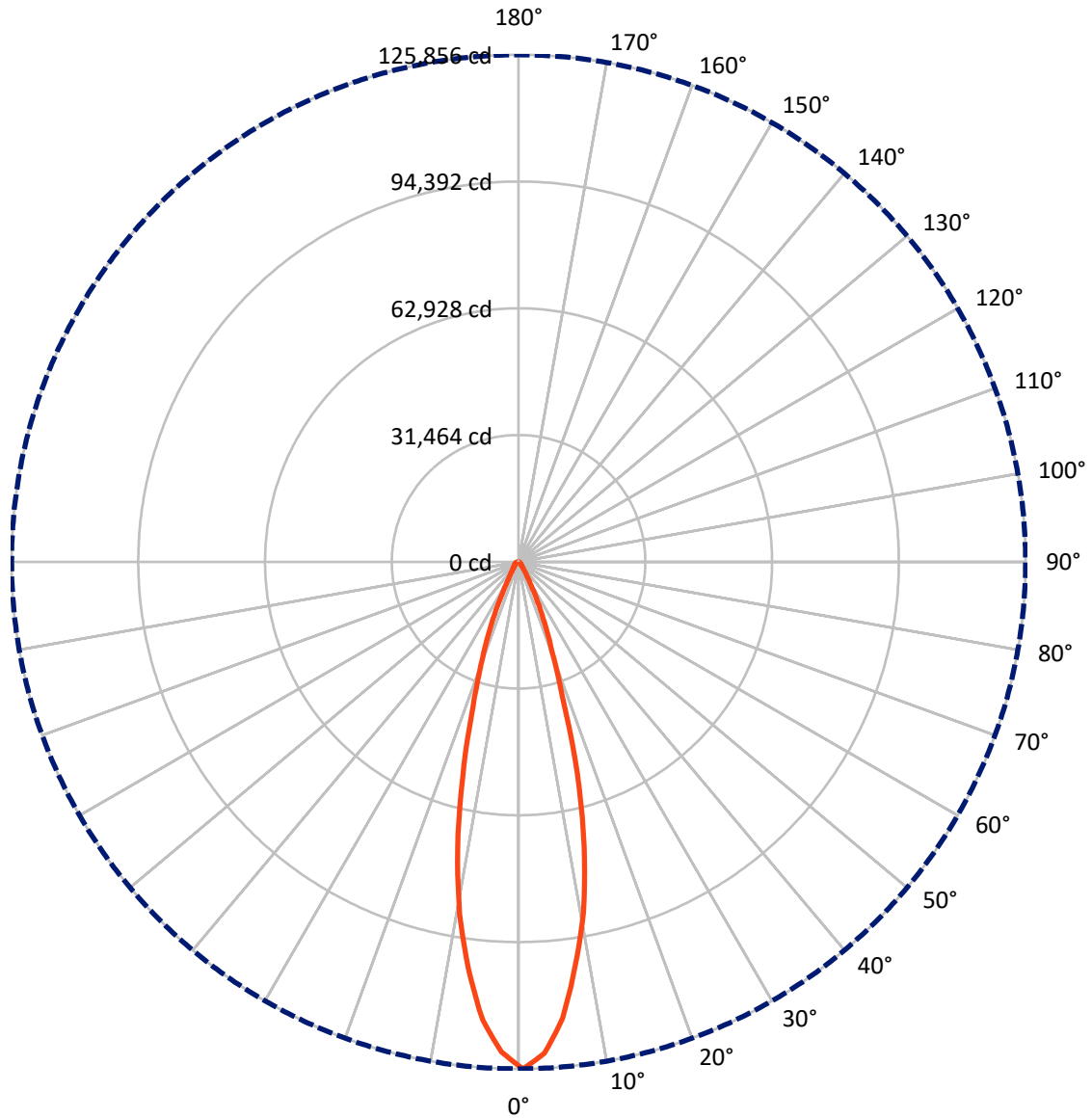
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 314.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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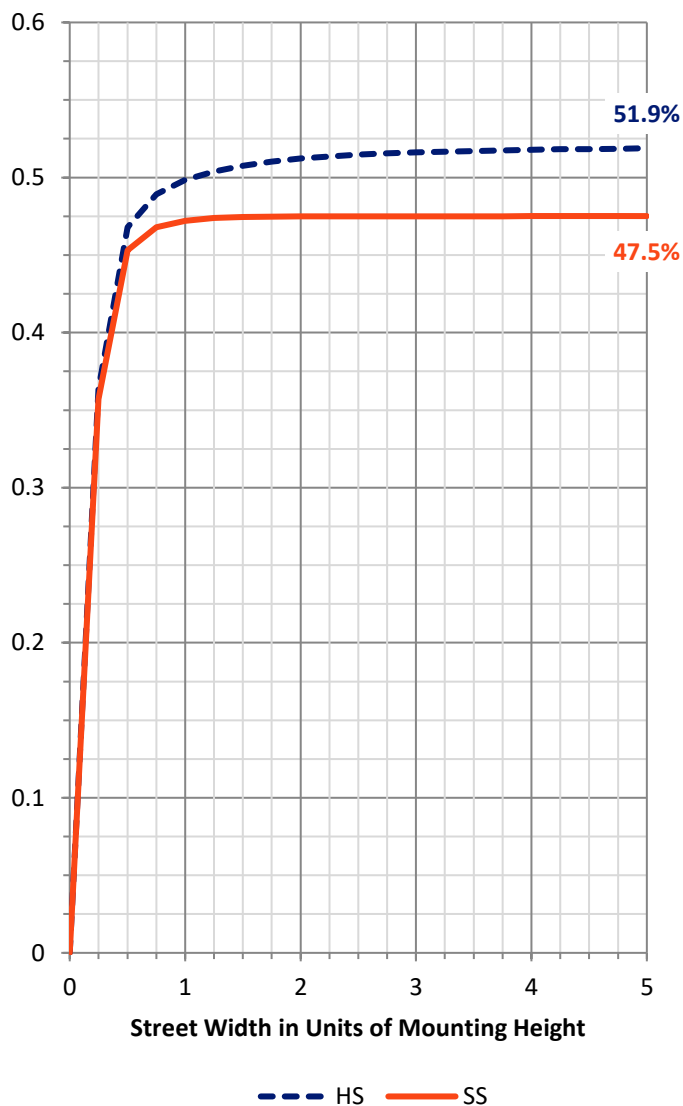
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18833.1	0.0	18833.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16885.2	0.0	16885.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	35718.3	0.0	35718.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10157.7	28.4
10°-20°	15383.8	43.1
20°-30°	6492.0	18.2
30°-40°	1693.2	4.7
40°-50°	856.4	2.4
50°-60°	559.8	1.6
60°-70°	335.4	0.9
70°-80°	176.4	0.5
80°-90°	63.7	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°	35718.3	100.0
0°-180°	35718.3	100.0

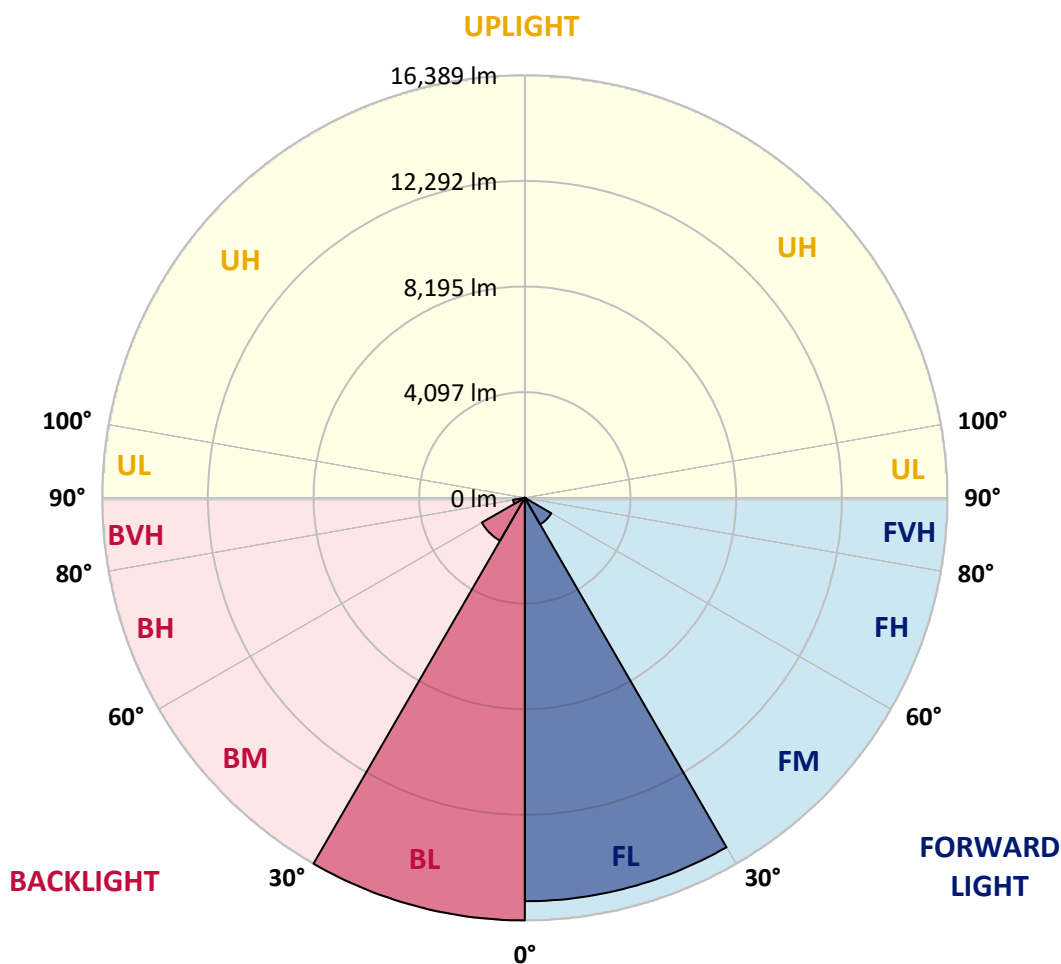


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15644.4	43.8			
FM (30°-60°)	1184.8	3.3			
FH (60°-80°)	48.3	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16389.1	45.9	B5		
BM (30°-60°)	1924.5	5.4	B2/2500		
BH (60°-80°)	463.5	1.3	B1/500		G0/660
BVH (80°-90°)	56.0	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0
2.5°	122189.8	122258.0	122005.2	122550.8	122125.6	123264.8	122699.2	123581.7	123284.8	123778.2
5°	113846.4	113734.1	113661.9	114508.3	114263.6	115487.0	114704.8	114448.1	115242.3	115097.9
7.5°	101247.2	101544.0	101375.5	101596.2	101720.5	103116.4	103557.7	103212.7	103224.7	103425.3
10°	88331.1	87893.8	87272.1	87685.3	88559.7	89169.4	88924.7	89430.1	89317.8	89795.2
12.5°	72438.6	72783.6	72434.6	72065.6	73593.8	73425.4	73850.6	74127.3	73433.4	74977.7
15°	54564.6	54745.1	55170.3	55142.2	56317.5	56554.2	56498.0	56790.8	56249.3	56506.0
17.5°	35054.0	35663.8	36806.9	38740.4	40914.4	41167.1	41103.0	40862.3	40601.6	40312.8
20°	23545.9	23481.7	23894.8	24460.4	28961.0	30152.3	30116.2	29362.1	28271.1	28062.5
22.5°	16494.1	16614.5	16558.3	17119.9	18050.5	21335.7	20930.5	20164.4	19807.4	19574.8
25°	10850.3	10806.2	11087.0	11255.5	12053.7	12454.8	13874.8	13590.0	13040.5	13100.6
27.5°	6614.5	6670.7	6774.9	6919.4	7484.9	7356.6	8166.8	8275.1	8098.7	7910.1
30°	4059.4	4099.5	4183.7	4288.0	4484.5	4344.2	4568.8	4957.9	4893.7	4761.3
32.5°	2755.7	2759.7	2819.9	2860.0	2835.9	2703.6	2775.8	3144.8	3152.8	3140.8
35°	1981.5	1981.5	2037.7	2069.8	2001.6	1893.3	1905.3	2134.0	2234.2	2254.3
37.5°	1367.8	1371.8	1468.1	1564.4	1488.2	1460.1	1411.9	1564.4	1724.8	1748.9
40°	1038.9	1034.9	1083.0	1155.2	1163.3	1111.1	1127.2	1223.4	1387.9	1407.9
42.5°	842.4	846.4	870.4	862.4	866.4	934.6	958.7	1002.8	1155.2	1191.3
45°	710.0	714.0	726.0	685.9	669.9	774.2	806.3	830.3	958.7	1002.8
47.5°	585.6	593.7	605.7	561.6	553.5	621.7	677.9	702.0	814.3	862.4
50°	421.2	429.2	473.3	449.3	473.3	489.4	565.6	601.7	677.9	742.1
52.5°	304.9	312.9	324.9	328.9	389.1	397.1	453.3	509.4	545.5	617.7
55°	240.7	248.7	240.7	232.7	284.8	328.9	349.0	409.1	437.2	521.5
57.5°	136.4	144.4	156.4	180.5	188.5	252.7	272.8	324.9	349.0	429.2
60°	24.1	28.1	44.1	108.3	132.4	160.4	204.6	248.7	280.8	336.9
62.5°	4.0	4.0	8.0	24.1	76.2	112.3	148.4	176.5	204.6	256.7
65°	0.0	0.0	4.0	8.0	20.1	64.2	80.2	104.3	140.4	184.5
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	36.1	64.2	80.2	124.3
70°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	28.1	48.1	76.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	24.1	24.1	48.1
75°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	24.1	20.1	20.1
77.5°	0.0	0.0	4.0	8.0	16.0	24.1	28.1	24.1	16.0	16.0
80°	0.0	0.0	8.0	12.0	20.1	28.1	36.1	28.1	16.0	8.0
82.5°	0.0	0.0	8.0	16.0	20.1	32.1	44.1	36.1	16.0	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	44.1	32.1	16.0	4.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	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°
125856.0	0°	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0	125856.0
122843.6	2.5°	123549.6	124191.4	124323.7	124147.2	124404.0	123942.7	123589.7	122675.1	122125.6
115053.8	5°	115795.9	115699.6	116369.5	116590.1	116562.0	116209.0	115715.7	115162.1	114624.6
103036.2	7.5°	103678.0	103802.3	104412.0	104801.1	104604.6	104163.3	103822.4	103405.2	103044.2
89967.6	10°	90789.9	89935.5	90693.7	90693.7	91219.1	89971.7	90088.0	89037.0	89085.2
74949.6	12.5°	75206.4	75515.2	75639.6	75996.6	75382.8	74721.0	73910.7	73750.3	73248.9
56016.7	15°	56822.9	57705.4	56947.3	58242.9	57617.2	56927.2	56802.9	55559.4	55952.5
40629.6	17.5°	40429.1	41403.8	41708.7	42450.7	41881.1	41472.0	40954.5	40577.5	40549.4
28443.6	20°	28668.2	29646.9	29871.6	30762.0	30697.9	30569.5	30132.3	29654.9	29137.5
19362.2	22.5°	19655.0	20453.2	21199.3	22398.6	22378.6	22001.5	21957.4	21283.5	21295.6
13080.6	25°	13217.0	13798.6	13975.1	15202.5	15338.9	15298.8	15070.2	14444.4	14681.1
7990.3	27.5°	7998.4	8507.8	9105.5	9538.7	9947.8	9883.6	9655.0	9306.0	9153.6
4801.4	30°	4929.8	5158.4	5379.0	5900.5	6145.2	6273.5	6165.2	5840.3	5864.4
3160.8	32.5°	3229.0	3421.6	3582.0	3910.9	4039.3	4276.0	4231.8	4163.6	4083.4
2274.4	35°	2354.6	2495.0	2603.3	2755.7	2920.2	3120.7	3152.8	3124.7	3092.7
1756.9	37.5°	1797.0	1941.4	2065.8	2130.0	2258.3	2414.8	2503.0	2499.0	2474.9
1432.0	40°	1460.1	1568.4	1680.7	1764.9	1853.2	1969.5	2077.8	2089.8	2089.8
1203.4	42.5°	1219.4	1311.7	1424.0	1512.2	1576.4	1684.7	1797.0	1805.0	1797.0
1018.8	45°	1042.9	1123.1	1231.4	1335.7	1387.9	1468.1	1576.4	1600.5	1584.4
874.4	47.5°	906.5	978.7	1071.0	1183.3	1239.5	1311.7	1411.9	1440.0	1436.0
754.1	50°	778.2	862.4	954.7	1046.9	1119.1	1187.3	1283.6	1315.7	1303.6
641.8	52.5°	685.9	762.1	842.4	942.6	1026.9	1087.0	1163.3	1219.4	1203.4
541.5	55°	573.6	665.9	750.1	834.3	938.6	1002.8	1075.0	1143.2	1127.2
457.3	57.5°	497.4	573.6	669.9	746.1	850.4	926.6	998.8	1071.0	1067.0
373.0	60°	417.2	497.4	589.6	669.9	766.1	850.4	922.6	1002.8	1010.8
280.8	62.5°	328.9	425.2	505.4	597.7	693.9	786.2	850.4	930.6	942.6
212.6	65°	248.7	349.0	437.2	525.5	621.7	722.0	778.2	846.4	858.4
156.4	67.5°	184.5	268.8	373.0	453.3	553.5	649.8	702.0	758.1	778.2
96.3	70°	140.4	204.6	312.9	389.1	493.4	569.6	625.8	673.9	689.9
64.2	72.5°	88.2	160.4	252.7	332.9	425.2	493.4	533.5	561.6	585.6
36.1	75°	60.2	124.3	204.6	284.8	353.0	405.1	441.2	465.3	485.4
16.0	77.5°	36.1	96.3	168.5	236.7	280.8	320.9	357.0	373.0	385.1
12.0	80°	20.1	72.2	140.4	192.5	220.6	248.7	276.8	296.8	304.9
8.0	82.5°	12.0	56.2	112.3	148.4	160.4	188.5	216.6	228.6	228.6
4.0	85°	8.0	40.1	76.2	108.3	116.3	136.4	144.4	152.4	160.4
4.0	87.5°	8.0	24.1	48.1	60.2	64.2	72.2	76.2	84.2	92.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
125856.0
121720.5
114022.9
101820.8
88615.9
72791.6
55559.4
39803.3
28912.9
21062.9
14308.0
9021.2
5760.1
4055.3
3080.6
2462.9
2065.8
1789.0
1584.4
1428.0
1295.6
1199.4
1135.2
1071.0
1014.8
950.7
870.4
786.2
698.0
581.6
481.3
381.1
296.8
224.6
156.4
88.2
0.0

(END OF REPORT)