

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: P637336

Luminaire Tested: **IFLD-M-SA4E-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637336
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31797 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

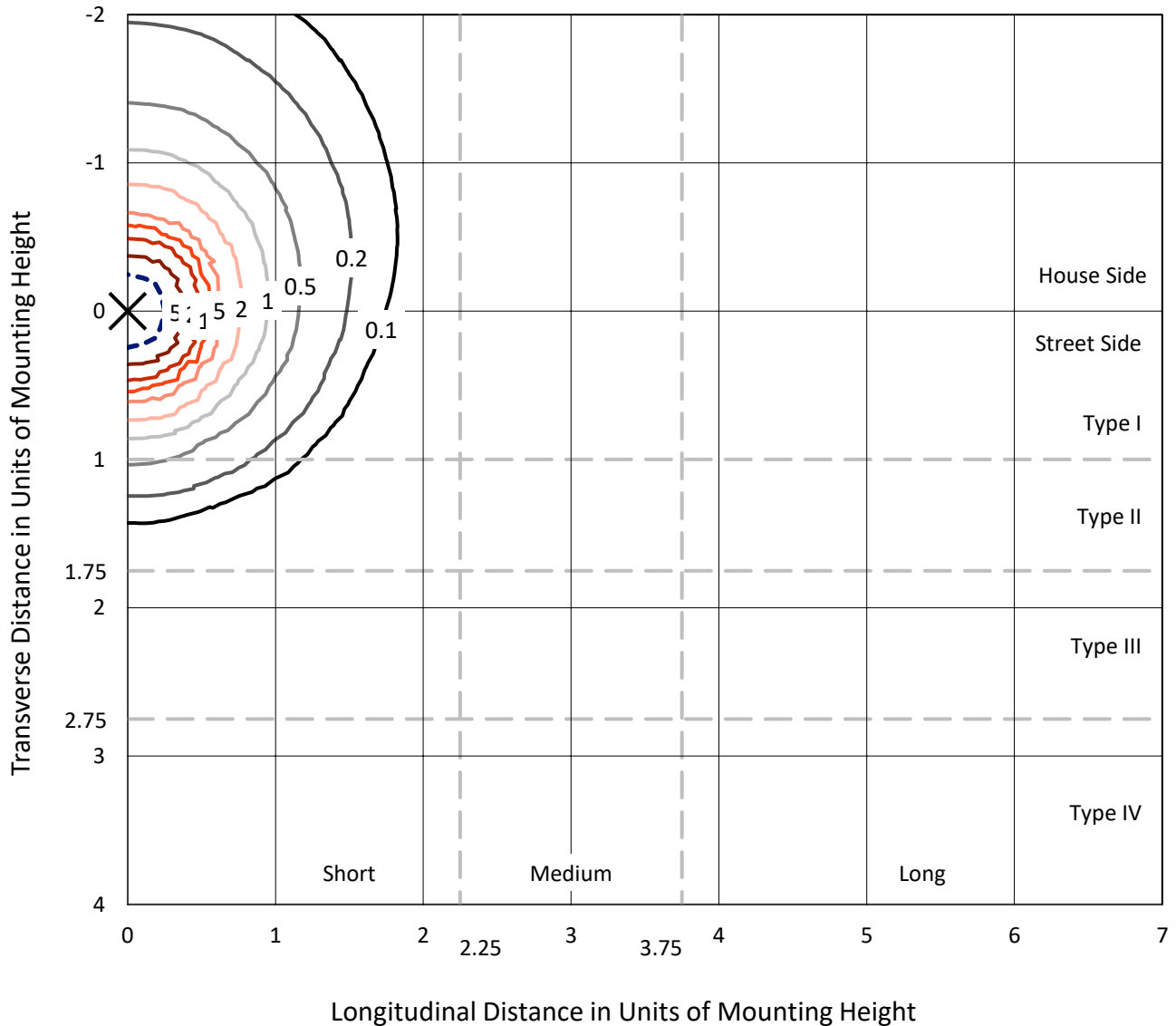
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637336
 CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

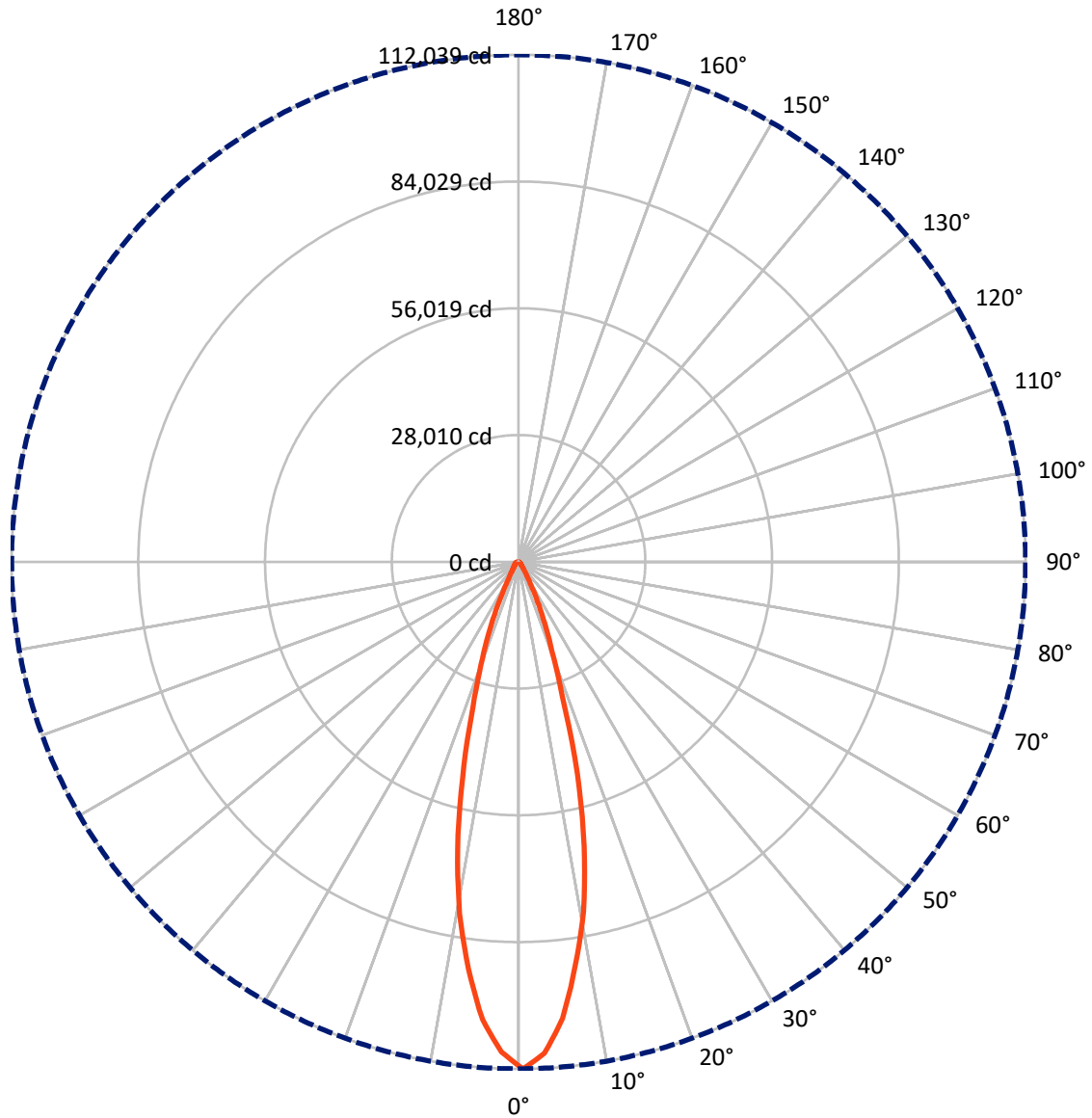
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 280.1 fc
 Type V - Short - N/A

REPORT NUMBER: P637336
CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637336
 CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

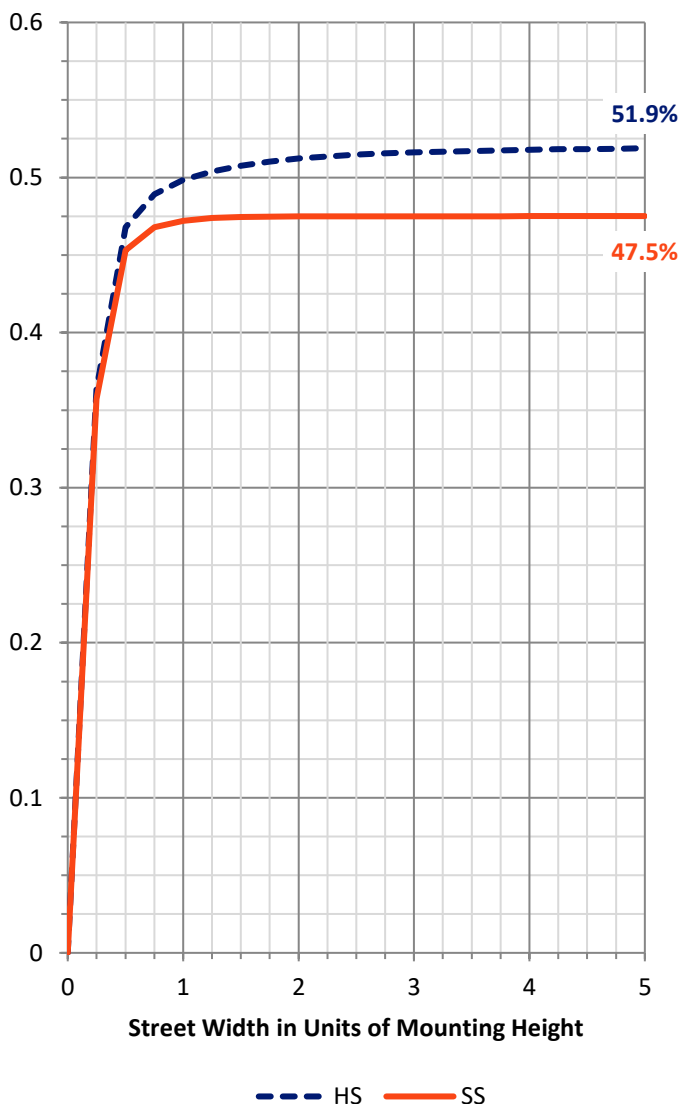
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16765.5	0.0	16765.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15031.5	0.0	15031.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	31797.0	0.0	31797.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9042.5	28.4
10°-20°	13694.8	43.1
20°-30°	5779.3	18.2
30°-40°	1507.3	4.7
40°-50°	762.4	2.4
50°-60°	498.3	1.6
60°-70°	298.5	0.9
70°-80°	157.1	0.5
80°-90°	56.7	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°	31797.0	100.0
0°-180°	31797.0	100.0

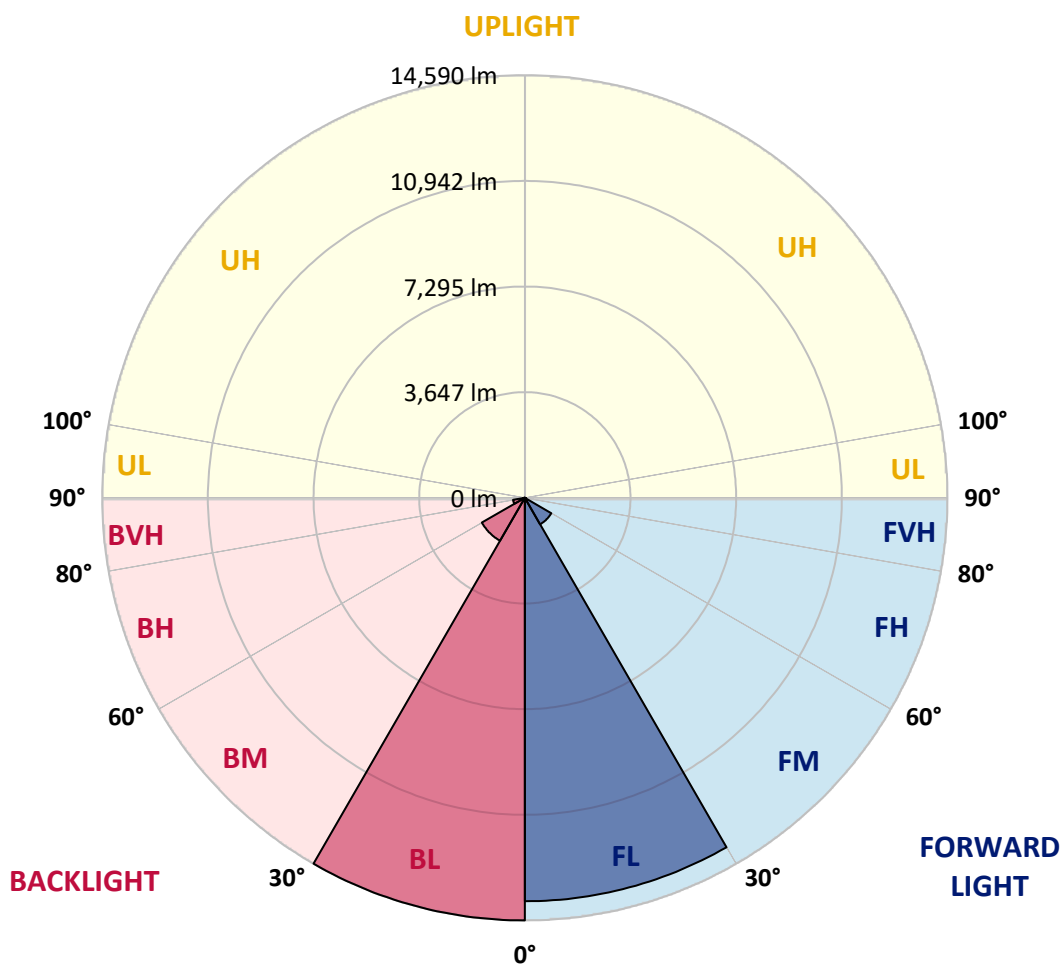


REPORT NUMBER: P637336
 CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13926.9	43.8			
FM (30°-60°)	1054.7	3.3			
FH (60°-80°)	43.0	0.1			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	14589.8	45.9	B5		
BM (30°-60°)	1713.2	5.4	B2/2500		
BH (60°-80°)	412.6	1.3	B1/500		G0/660
BVH (80°-90°)	49.8	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-G1
 Type V Short





REPORT NUMBER: P637336
 CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8
2.5°	108775.1	108835.8	108610.8	109096.4	108717.9	109732.0	109228.5	110014.1	109749.9	110189.1
5°	101347.7	101247.7	101183.4	101936.9	101719.1	102808.2	102111.9	101883.3	102590.3	102461.8
7.5°	90131.7	90395.9	90245.9	90442.3	90553.0	91795.7	92188.5	91881.4	91892.1	92070.6
10°	78633.6	78244.3	77690.9	78058.7	78837.1	79379.9	79162.0	79612.0	79512.0	79936.9
12.5°	64485.9	64793.0	64482.3	64153.8	65514.3	65364.3	65742.8	65989.2	65371.4	66746.2
15°	48574.2	48734.9	49113.4	49088.4	50134.7	50345.3	50295.3	50556.0	50073.9	50302.5
17.5°	31205.6	31748.4	32766.1	34487.2	36422.6	36647.6	36590.4	36376.2	36144.1	35887.0
20°	20960.9	20903.7	21271.5	21775.0	25781.5	26842.0	26809.9	26138.6	25167.3	24981.6
22.5°	14683.3	14790.4	14740.4	15240.4	16068.8	18993.3	18632.7	17950.6	17632.8	17425.7
25°	9659.1	9619.9	9869.8	10019.8	10730.4	11087.5	12351.5	12098.0	11608.8	11662.4
27.5°	5888.3	5938.3	6031.2	6159.7	6663.2	6548.9	7270.2	7366.7	7209.5	7041.7
30°	3613.7	3649.4	3724.4	3817.2	3992.2	3867.2	4067.2	4413.6	4356.4	4238.6
32.5°	2453.2	2456.7	2510.3	2546.0	2524.6	2406.7	2471.0	2799.5	2806.7	2796.0
35°	1764.0	1764.0	1814.0	1842.6	1781.9	1685.4	1696.2	1899.7	1989.0	2006.8
37.5°	1217.7	1221.2	1306.9	1392.6	1324.8	1299.8	1256.9	1392.6	1535.5	1556.9
40°	924.8	921.3	964.1	1028.4	1035.5	989.1	1003.4	1089.1	1235.5	1253.4
42.5°	749.9	753.4	774.9	767.7	771.3	832.0	853.4	892.7	1028.4	1060.5
45°	632.0	635.6	646.3	610.6	596.3	689.2	717.7	739.2	853.4	892.7
47.5°	521.3	528.5	539.2	499.9	492.8	553.5	603.5	624.9	724.9	767.7
50°	374.9	382.1	421.4	399.9	421.4	435.6	503.5	535.6	603.5	660.6
52.5°	271.4	278.5	289.2	292.8	346.4	353.5	403.5	453.5	485.6	549.9
55°	214.3	221.4	214.3	207.1	253.5	292.8	310.7	364.2	389.2	464.2
57.5°	121.4	128.6	139.3	160.7	167.8	225.0	242.8	289.2	310.7	382.1
60°	21.4	25.0	39.3	96.4	117.8	142.8	182.1	221.4	250.0	300.0
62.5°	3.6	3.6	7.1	21.4	67.8	100.0	132.1	157.1	182.1	228.5
65°	0.0	0.0	3.6	7.1	17.9	57.1	71.4	92.8	125.0	164.3
67.5°	0.0	0.0	3.6	7.1	10.7	21.4	32.1	57.1	71.4	110.7
70°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	25.0	42.9	67.8
72.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	21.4	21.4	42.9
75°	0.0	0.0	3.6	7.1	10.7	17.9	21.4	21.4	17.9	17.9
77.5°	0.0	0.0	3.6	7.1	14.3	21.4	25.0	21.4	14.3	14.3
80°	0.0	0.0	7.1	10.7	17.9	25.0	32.1	25.0	14.3	7.1
82.5°	0.0	0.0	7.1	14.3	17.9	28.6	39.3	32.1	14.3	7.1
85°	0.0	0.0	3.6	10.7	21.4	28.6	39.3	28.6	14.3	3.6
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	21.4	17.9	7.1	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637336

CATALOG NUMBER: IFLD-M-SA4E-730-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
112038.8	0°	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8	112038.8
109357.1	2.5°	109985.6	110556.9	110674.7	110517.6	110746.2	110335.5	110021.3	109207.1	108717.9
102422.5	5°	103083.1	102997.4	103593.8	103790.2	103765.2	103450.9	103011.7	102518.9	102040.4
91724.3	7.5°	92295.6	92406.3	92949.1	93295.4	93120.5	92727.7	92424.2	92052.8	91731.4
80090.5	10°	80822.5	80061.9	80736.8	80736.8	81204.6	80094.0	80197.6	79262.0	79304.9
66721.2	12.5°	66949.8	67224.7	67335.4	67653.2	67106.9	66517.7	65796.4	65653.5	65207.2
49866.8	15°	50584.6	51370.2	50695.3	51848.7	51291.6	50677.4	50566.7	49459.8	49809.7
36169.1	17.5°	35990.5	36858.3	37129.6	37790.2	37283.2	36919.0	36458.3	36122.7	36097.7
25320.9	20°	25520.8	26392.1	26592.1	27384.8	27327.7	27213.4	26824.2	26399.2	25938.6
17236.5	22.5°	17497.1	18207.7	18871.9	19939.6	19921.7	19586.1	19546.8	18946.9	18957.6
11644.5	25°	11765.9	12283.7	12440.8	13533.5	13654.9	13619.2	13415.7	12858.6	13069.3
7113.1	27.5°	7120.3	7573.8	8105.8	8491.5	8855.7	8798.6	8595.0	8284.4	8148.7
4274.3	30°	4388.6	4592.1	4788.5	5252.7	5470.5	5584.8	5488.4	5199.1	5220.6
2813.8	32.5°	2874.5	3045.9	3188.8	3481.6	3595.8	3806.5	3767.2	3706.5	3635.1
2024.7	35°	2096.1	2221.1	2317.5	2453.2	2599.6	2778.1	2806.7	2781.7	2753.1
1564.0	37.5°	1599.7	1728.3	1839.0	1896.1	2010.4	2149.6	2228.2	2224.6	2203.2
1274.8	40°	1299.8	1396.2	1496.2	1571.2	1649.7	1753.3	1849.7	1860.4	1860.4
1071.3	42.5°	1085.5	1167.7	1267.6	1346.2	1403.3	1499.8	1599.7	1606.9	1599.7
907.0	45°	928.4	999.8	1096.2	1189.1	1235.5	1306.9	1403.3	1424.8	1410.5
778.4	47.5°	807.0	871.3	953.4	1053.4	1103.4	1167.7	1256.9	1281.9	1278.4
671.3	50°	692.7	767.7	849.9	932.0	996.3	1057.0	1142.7	1171.2	1160.5
571.3	52.5°	610.6	678.5	749.9	839.1	914.1	967.7	1035.5	1085.5	1071.3
482.1	55°	510.6	592.8	667.7	742.7	835.6	892.7	957.0	1017.7	1003.4
407.1	57.5°	442.8	510.6	596.3	664.2	757.0	824.9	889.1	953.4	949.8
332.1	60°	371.4	442.8	524.9	596.3	682.0	757.0	821.3	892.7	899.9
250.0	62.5°	292.8	378.5	449.9	532.1	617.8	699.9	757.0	828.4	839.1
189.3	65°	221.4	310.7	389.2	467.8	553.5	642.8	692.7	753.4	764.2
139.3	67.5°	164.3	239.2	332.1	403.5	492.8	578.5	624.9	674.9	692.7
85.7	70°	125.0	182.1	278.5	346.4	439.2	507.1	557.1	599.9	614.2
57.1	72.5°	78.6	142.8	225.0	296.4	378.5	439.2	474.9	499.9	521.3
32.1	75°	53.6	110.7	182.1	253.5	314.2	360.7	392.8	414.2	432.1
14.3	77.5°	32.1	85.7	150.0	210.7	250.0	285.7	317.8	332.1	342.8
10.7	80°	17.9	64.3	125.0	171.4	196.4	221.4	246.4	264.2	271.4
7.1	82.5°	10.7	50.0	100.0	132.1	142.8	167.8	192.8	203.5	203.5
3.6	85°	7.1	35.7	67.8	96.4	103.6	121.4	128.6	135.7	142.8
3.6	87.5°	7.1	21.4	42.9	53.6	57.1	64.3	67.8	75.0	82.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
112038.8
108357.3
101504.8
90642.3
78887.1
64800.1
49459.8
35433.5
25738.6
18750.5
12737.2
8030.8
5127.7
3610.1
2742.4
2192.5
1839.0
1592.6
1410.5
1271.2
1153.4
1067.7
1010.5
953.4
903.4
846.3
774.9
699.9
621.3
517.8
428.5
339.2
264.2
200.0
139.3
78.6
0.0

(END OF REPORT)