

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: P637513

Luminaire Tested: **IFLD-L-SA7C-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33974.2 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

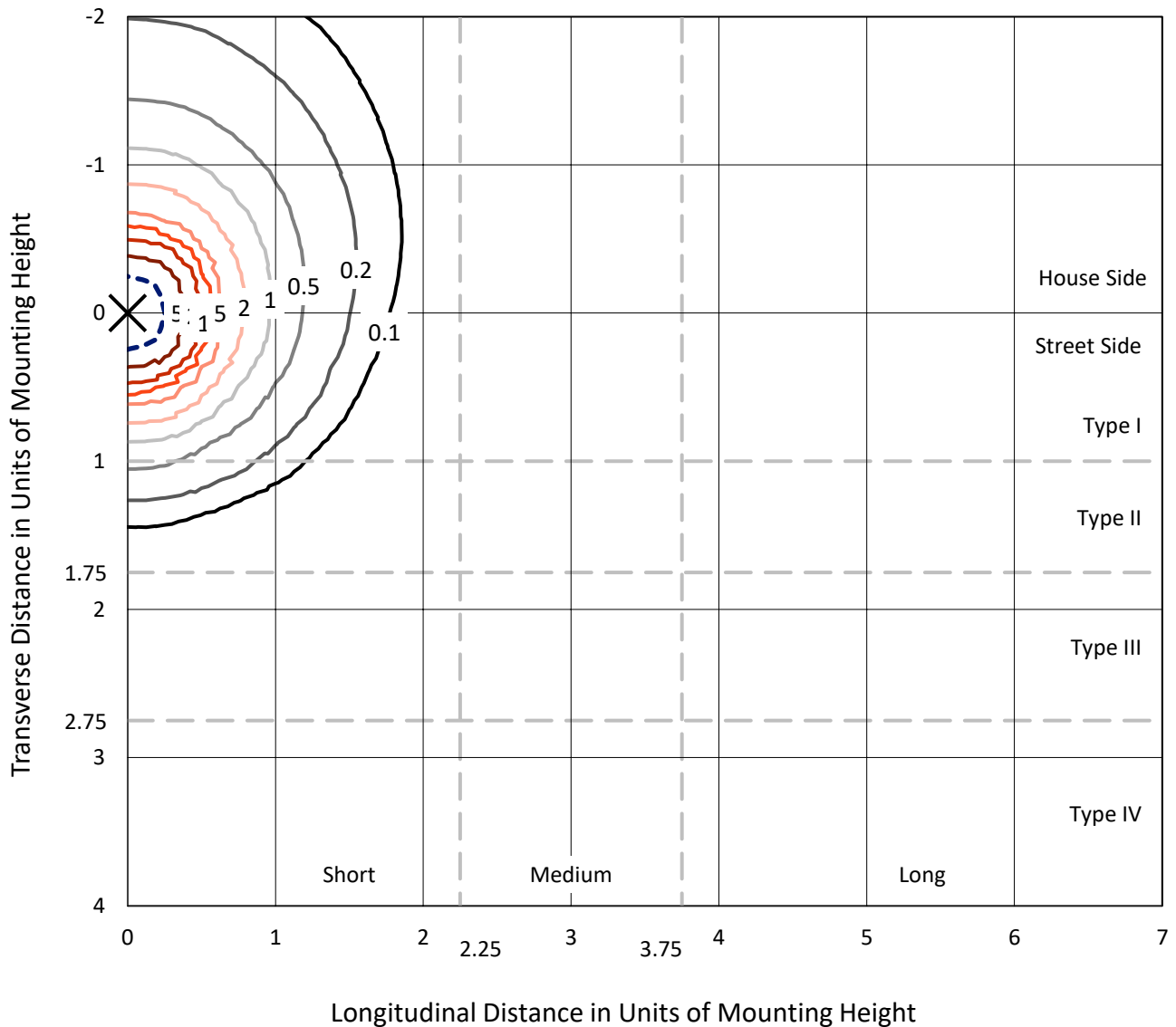
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637513
 CATALOG NUMBER: IFLD-L-SA7C-830-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

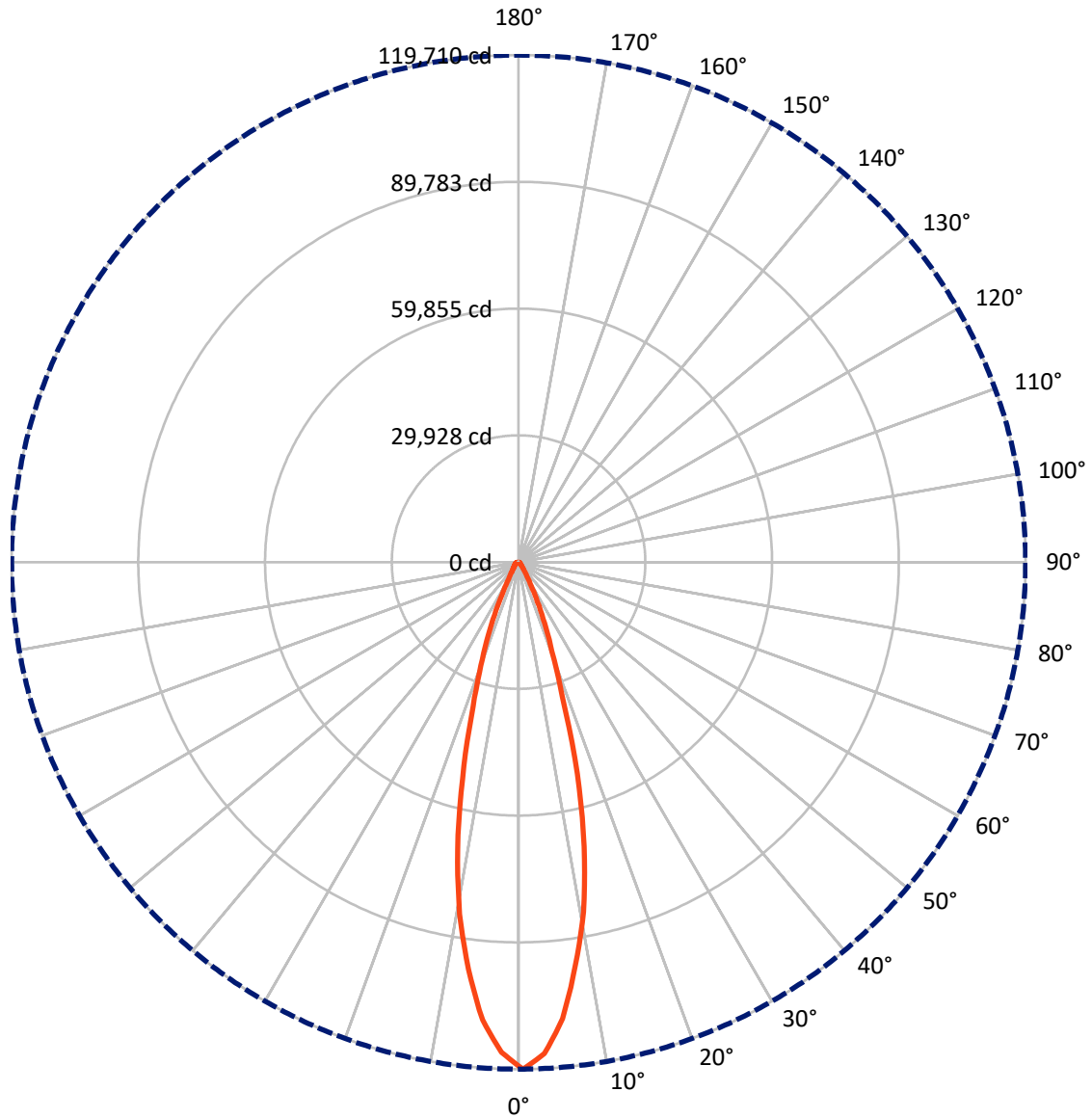
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 299.3 fc
 Type V - Short - N/A

REPORT NUMBER: P637513
CATALOG NUMBER: IFLD-L-SA7C-830-U-44-VI

Luminous Intensity Polar Plot



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

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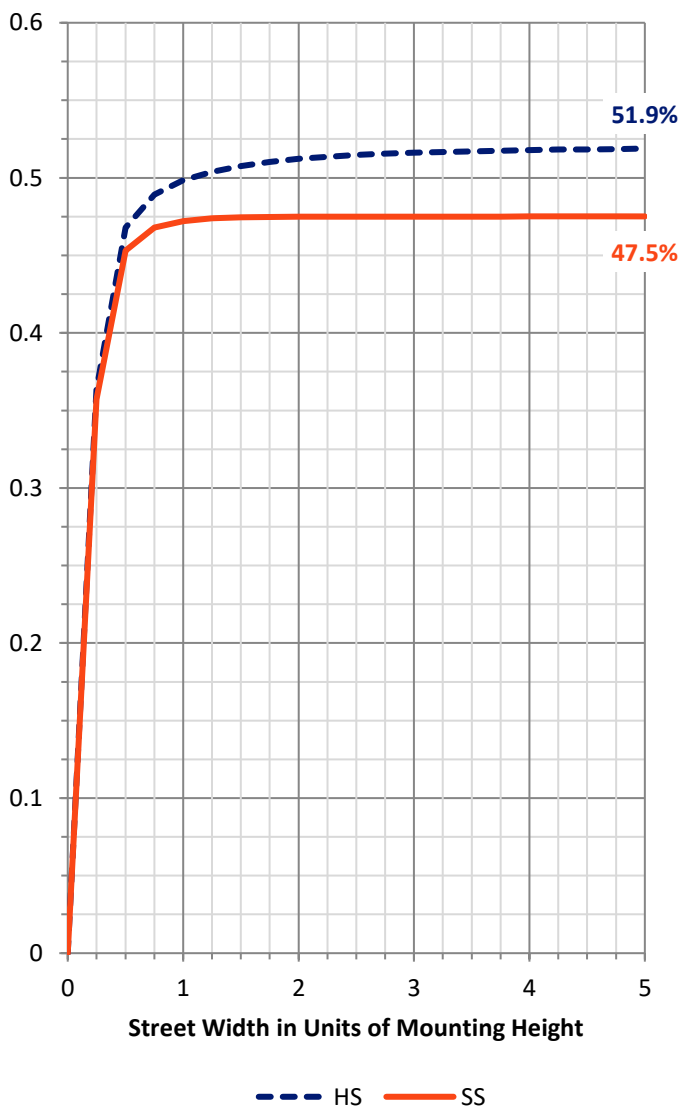
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17913.5	0.0	17913.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16060.7	0.0	16060.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	33974.2	0.0	33974.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9661.7	28.4
10°-20°	14632.6	43.1
20°-30°	6175.0	18.2
30°-40°	1610.5	4.7
40°-50°	814.6	2.4
50°-60°	532.4	1.6
60°-70°	319.0	0.9
70°-80°	167.8	0.5
80°-90°	60.6	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°	33974.2	100.0
0°-180°	33974.2	100.0



REPORT NUMBER: P637513

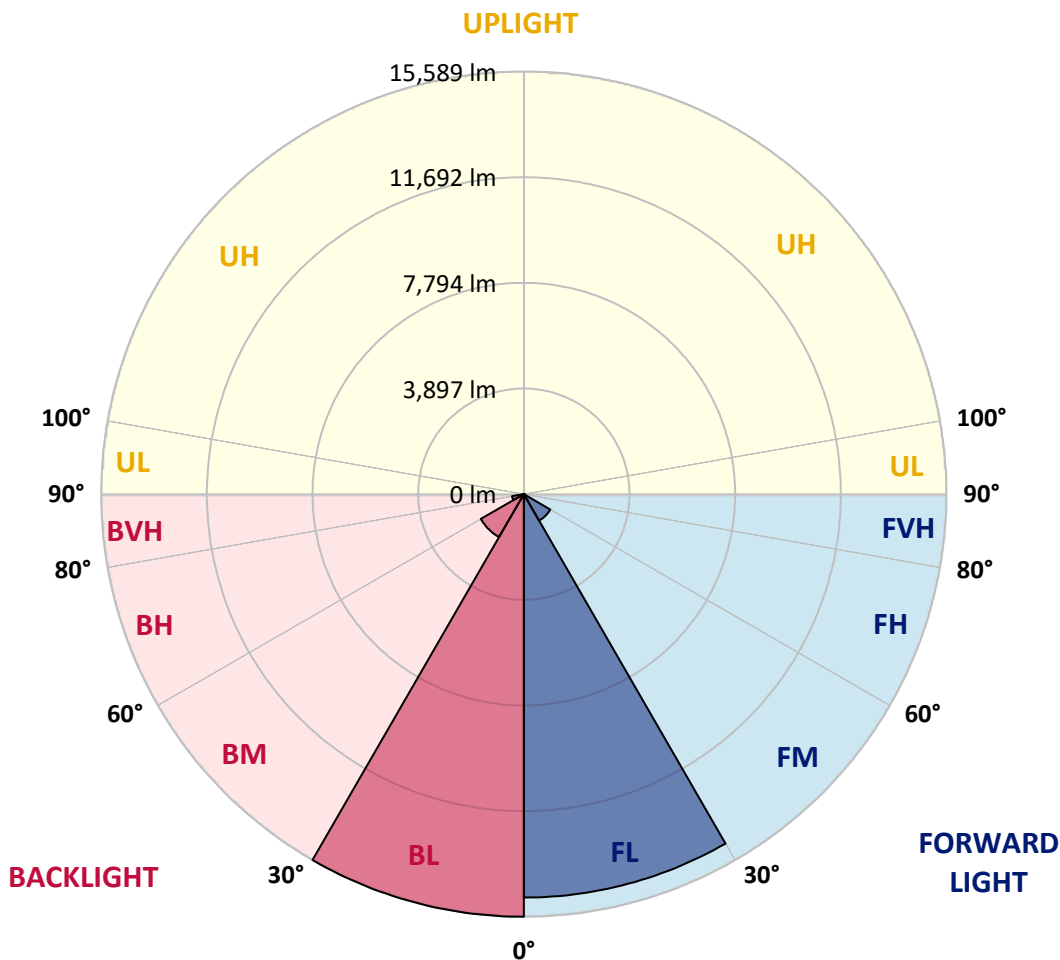
CATALOG NUMBER: IFLD-L-SA7C-830-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14880.5	43.8			
FM (30°-60°)	1126.9	3.3			
FH (60°-80°)	45.9	0.1			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	15588.8	45.9	B5		
BM (30°-60°)	1830.6	5.4	B2/2500		
BH (60°-80°)	440.9	1.3	B1/500		G0/660
BVH (80°-90°)	53.2	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: P637513
 CATALOG NUMBER: IFLD-L-SA7C-830-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4
2.5°	116223.2	116288.0	116047.7	116566.5	116162.1	117245.7	116707.7	117547.1	117264.8	117734.0
5°	108287.2	108180.4	108111.7	108916.8	108684.0	109847.7	109103.7	108859.5	109615.0	109477.6
7.5°	96303.2	96585.6	96425.3	96635.2	96753.4	98081.2	98500.9	98172.7	98184.2	98375.0
10°	84017.8	83601.9	83010.6	83403.5	84235.3	84815.2	84582.5	85063.2	84956.4	85410.4
12.5°	68901.4	69229.5	68897.6	68546.6	70000.2	69840.0	70244.4	70507.7	69847.6	71316.5
15°	51900.2	52071.9	52476.3	52449.6	53567.5	53792.6	53739.2	54017.7	53502.6	53746.8
17.5°	33342.3	33922.3	35009.6	36848.6	38916.6	39156.9	39095.9	38867.0	38619.0	38344.3
20°	22396.1	22335.1	22728.0	23266.0	27546.8	28680.0	28645.6	27928.4	26890.6	26692.2
22.5°	15688.7	15803.2	15749.8	16283.9	17169.1	20293.8	19908.5	19179.8	18840.2	18618.9
25°	10320.5	10278.6	10545.6	10705.9	11465.1	11846.7	13197.3	12926.4	12403.7	12460.9
27.5°	6291.5	6344.9	6444.1	6581.5	7119.4	6997.4	7768.1	7871.1	7703.2	7523.9
30°	3861.1	3899.3	3979.4	4078.6	4265.6	4132.0	4345.7	4715.8	4654.7	4528.8
32.5°	2621.1	2625.0	2682.2	2720.3	2697.5	2571.5	2640.2	2991.2	2998.9	2987.4
35°	1884.8	1884.8	1938.2	1968.7	1903.9	1800.8	1812.3	2029.8	2125.1	2144.2
37.5°	1301.0	1304.8	1396.4	1488.0	1415.5	1388.8	1343.0	1488.0	1640.6	1663.5
40°	988.2	984.4	1030.1	1098.8	1106.5	1056.9	1072.1	1163.7	1320.1	1339.2
42.5°	801.2	805.0	827.9	820.3	824.1	889.0	911.9	953.8	1098.8	1133.2
45°	675.3	679.1	690.6	652.4	637.2	736.4	766.9	789.8	911.9	953.8
47.5°	557.0	564.7	576.1	534.1	526.5	591.4	644.8	667.7	774.5	820.3
50°	400.6	408.2	450.2	427.3	450.2	465.5	538.0	572.3	644.8	705.8
52.5°	290.0	297.6	309.0	312.9	370.1	377.7	431.1	484.5	518.9	587.6
55°	228.9	236.6	228.9	221.3	270.9	312.9	331.9	389.2	415.9	496.0
57.5°	129.7	137.4	148.8	171.7	179.3	240.4	259.4	309.0	331.9	408.2
60°	22.9	26.7	42.0	103.0	125.9	152.6	194.6	236.6	267.1	320.5
62.5°	3.8	3.8	7.6	22.9	72.5	106.8	141.2	167.9	194.6	244.2
65°	0.0	0.0	3.8	7.6	19.1	61.0	76.3	99.2	133.5	175.5
67.5°	0.0	0.0	3.8	7.6	11.4	22.9	34.3	61.0	76.3	118.3
70°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	26.7	45.8	72.5
72.5°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	22.9	22.9	45.8
75°	0.0	0.0	3.8	7.6	11.4	19.1	22.9	22.9	19.1	19.1
77.5°	0.0	0.0	3.8	7.6	15.3	22.9	26.7	22.9	15.3	15.3
80°	0.0	0.0	7.6	11.4	19.1	26.7	34.3	26.7	15.3	7.6
82.5°	0.0	0.0	7.6	15.3	19.1	30.5	42.0	34.3	15.3	7.6
85°	0.0	0.0	3.8	11.4	22.9	30.5	42.0	30.5	15.3	3.8
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	22.9	19.1	7.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637513
 CATALOG NUMBER: IFLD-L-SA7C-830-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
119710.4	0°	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4	119710.4
116845.1	2.5°	117516.6	118127.0	118252.9	118085.1	118329.2	117890.5	117554.7	116684.8	116162.1
109435.7	5°	110141.5	110049.9	110687.1	110896.9	110870.2	110534.5	110065.2	109538.7	109027.4
98004.9	7.5°	98615.3	98733.6	99313.5	99683.6	99496.7	99077.0	98752.7	98355.9	98012.5
85574.5	10°	86356.6	85543.9	86265.0	86265.0	86764.9	85578.3	85688.9	84689.3	84735.1
71289.8	12.5°	71534.0	71827.8	71946.0	72285.6	71701.9	71072.3	70301.6	70149.0	69672.1
53281.3	15°	54048.2	54887.6	54166.5	55398.9	54803.7	54147.4	54029.2	52846.4	53220.3
38645.7	17.5°	38454.9	39382.0	39672.0	40377.8	39836.1	39446.9	38954.7	38596.1	38569.4
27054.6	20°	27268.3	28199.2	28412.9	29259.9	29198.9	29076.8	28660.9	28206.9	27714.7
18416.7	22.5°	18695.2	19454.5	20164.1	21304.9	21285.8	20927.2	20885.2	20244.2	20255.7
12441.9	25°	12571.6	13124.8	13292.7	14460.2	14589.9	14551.7	14334.3	13739.1	13964.2
7600.2	27.5°	7607.8	8092.4	8660.8	9072.9	9462.1	9401.0	9183.5	8851.6	8706.6
4567.0	30°	4689.1	4906.5	5116.4	5612.4	5845.1	5967.2	5864.2	5555.1	5578.0
3006.5	32.5°	3071.4	3254.5	3407.1	3720.0	3842.1	4067.2	4025.2	3960.3	3884.0
2163.3	35°	2239.6	2373.1	2476.2	2621.1	2777.6	2968.3	2998.9	2972.2	2941.6
1671.1	37.5°	1709.3	1846.6	1964.9	2026.0	2148.0	2296.8	2380.8	2377.0	2354.1
1362.1	40°	1388.8	1491.8	1598.6	1678.8	1762.7	1873.3	1976.4	1987.8	1987.8
1144.6	42.5°	1159.9	1247.6	1354.4	1438.4	1499.4	1602.4	1709.3	1716.9	1709.3
969.1	45°	992.0	1068.3	1171.3	1270.5	1320.1	1396.4	1499.4	1522.3	1507.1
831.7	47.5°	862.3	930.9	1018.7	1125.5	1178.9	1247.6	1343.0	1369.7	1365.9
717.3	50°	740.2	820.3	908.1	995.8	1064.5	1129.3	1220.9	1251.4	1240.0
610.5	52.5°	652.4	724.9	801.2	896.6	976.7	1034.0	1106.5	1159.9	1144.6
515.1	55°	545.6	633.3	713.5	793.6	892.8	953.8	1022.5	1087.4	1072.1
434.9	57.5°	473.1	545.6	637.2	709.7	808.9	881.3	950.0	1018.7	1014.9
354.8	60°	396.8	473.1	560.9	637.2	728.7	808.9	877.5	953.8	961.5
267.1	62.5°	312.9	404.4	480.7	568.5	660.1	747.8	808.9	885.2	896.6
202.2	65°	236.6	331.9	415.9	499.8	591.4	686.8	740.2	805.0	816.5
148.8	67.5°	175.5	255.6	354.8	431.1	526.5	618.1	667.7	721.1	740.2
91.6	70°	133.5	194.6	297.6	370.1	469.3	541.8	595.2	641.0	656.2
61.0	72.5°	83.9	152.6	240.4	316.7	404.4	469.3	507.4	534.1	557.0
34.3	75°	57.2	118.3	194.6	270.9	335.8	385.4	419.7	442.6	461.7
15.3	77.5°	34.3	91.6	160.2	225.1	267.1	305.2	339.6	354.8	366.3
11.4	80°	19.1	68.7	133.5	183.1	209.8	236.6	263.3	282.3	290.0
7.6	82.5°	11.4	53.4	106.8	141.2	152.6	179.3	206.0	217.5	217.5
3.8	85°	7.6	38.2	72.5	103.0	110.6	129.7	137.4	145.0	152.6
3.8	87.5°	7.6	22.9	45.8	57.2	61.0	68.7	72.5	80.1	87.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
119710.4
115776.8
108455.1
96848.8
84288.7
69237.1
52846.4
37859.7
27501.0
20034.4
13609.4
8580.7
5478.8
3857.3
2930.2
2342.6
1964.9
1701.6
1507.1
1358.3
1232.4
1140.8
1079.7
1018.7
965.3
904.2
827.9
747.8
663.9
553.2
457.8
362.5
282.3
213.7
148.8
83.9
0.0

(END OF REPORT)