

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: P637511

Luminaire Tested: **IFLD-L-SA7A-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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: 23988 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

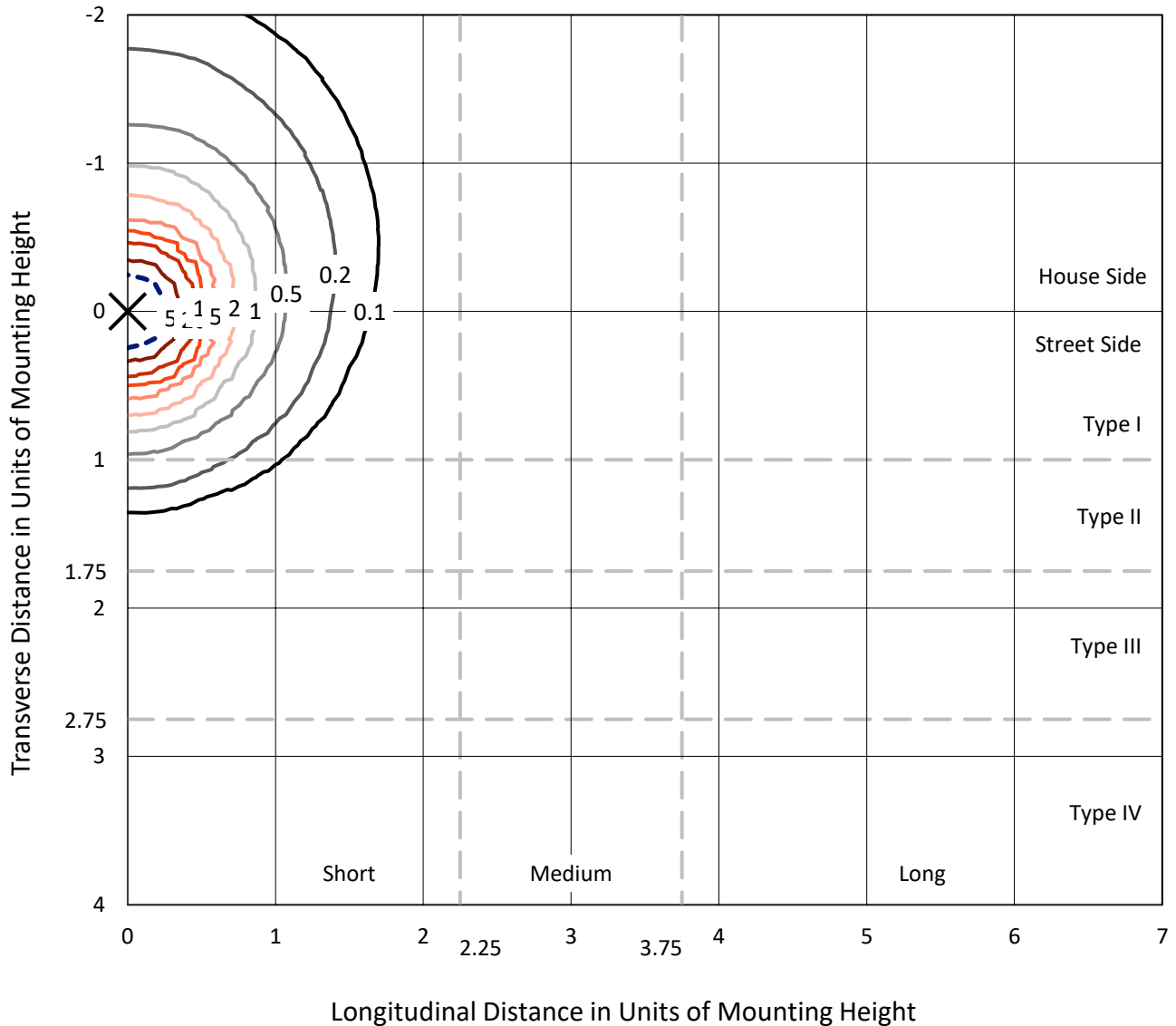
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637511
 CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

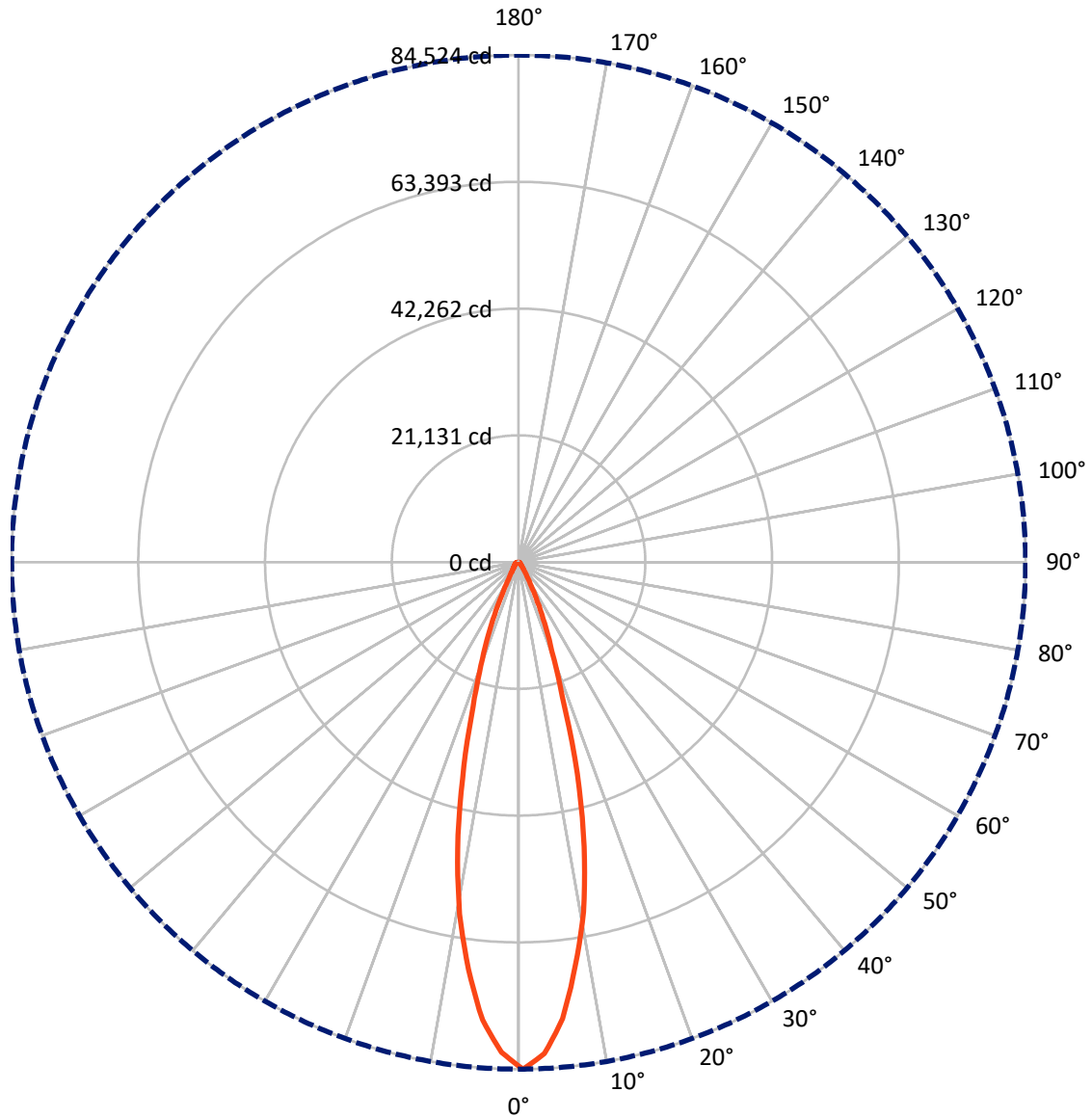
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 211.3 fc
 Type V - Short - N/A

REPORT NUMBER: P637511
CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637511

CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

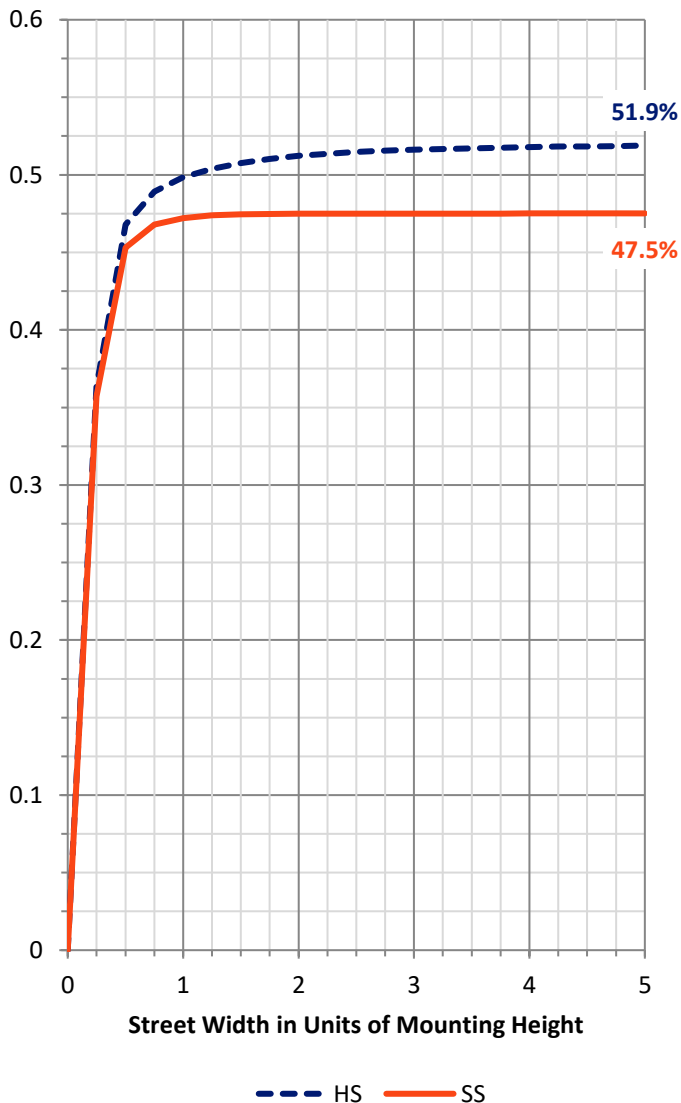
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12648.1	0.0	12648.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11339.9	0.0	11339.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	23988.0	0.0	23988.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6821.8	28.4
10°-20°	10331.6	43.1
20°-30°	4360.0	18.2
30°-40°	1137.1	4.7
40°-50°	575.1	2.4
50°-60°	375.9	1.6
60°-70°	225.2	0.9
70°-80°	118.5	0.5
80°-90°	42.8	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°	23988.0	100.0
0°-180°	23988.0	100.0



REPORT NUMBER: P637511

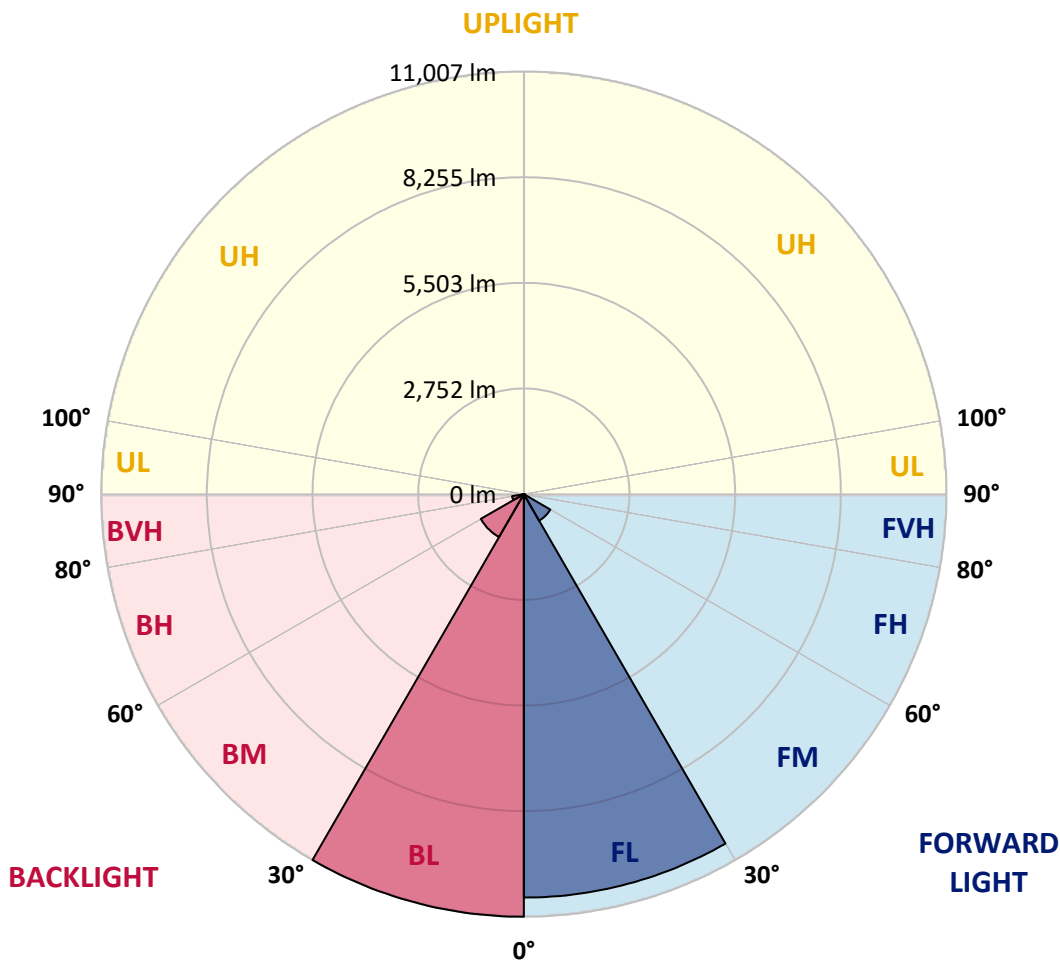
CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10506.6	43.8			
FM (30°-60°)	795.7	3.3			
FH (60°-80°)	32.4	0.1			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	11006.7	45.9	B5		
BM (30°-60°)	1292.5	5.4	B2/2500		
BH (60°-80°)	311.3	1.3	B1/500		G0/660
BVH (80°-90°)	37.6	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: P637511
 CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5
2.5°	82061.3	82107.1	81937.3	82303.7	82018.2	82783.2	82403.4	82996.0	82796.7	83128.0
5°	76458.0	76382.5	76334.0	76902.5	76738.1	77559.8	77034.5	76862.1	77395.4	77298.5
7.5°	67996.5	68195.8	68082.7	68230.8	68314.3	69251.8	69548.1	69316.5	69324.5	69459.2
10°	59322.1	59028.5	58611.0	58888.4	59475.7	59885.2	59720.8	60060.3	59984.8	60305.4
12.5°	48648.9	48880.6	48646.3	48398.4	49424.8	49311.6	49597.2	49783.1	49317.0	50354.2
15°	36645.0	36766.2	37051.8	37032.9	37822.2	37981.1	37943.4	38140.1	37776.4	37948.8
17.5°	23541.9	23951.4	24719.1	26017.6	27477.7	27647.4	27604.3	27442.7	27267.5	27073.6
20°	15813.1	15770.0	16047.5	16427.3	19449.9	20250.0	20225.7	19719.3	18986.5	18846.4
22.5°	11077.3	11158.1	11120.4	11497.5	12122.5	14328.8	14056.7	13542.2	13302.4	13146.2
25°	7287.0	7257.3	7445.9	7559.1	8095.1	8364.5	9318.2	9126.9	8757.8	8798.2
27.5°	4442.2	4479.9	4550.0	4647.0	5026.8	4940.6	5484.8	5557.5	5439.0	5312.3
30°	2726.2	2753.2	2809.7	2879.8	3011.8	2917.5	3068.3	3329.6	3286.5	3197.6
32.5°	1850.7	1853.4	1893.8	1920.7	1904.6	1815.7	1864.2	2112.0	2117.4	2109.3
35°	1330.8	1330.8	1368.5	1390.0	1344.3	1271.5	1279.6	1433.1	1500.5	1514.0
37.5°	918.6	921.3	986.0	1050.6	999.4	980.6	948.2	1050.6	1158.4	1174.5
40°	697.7	695.0	727.4	775.8	781.2	746.2	757.0	821.6	932.1	945.6
42.5°	565.7	568.4	584.6	579.2	581.9	627.7	643.8	673.5	775.8	800.1
45°	476.8	479.5	487.6	460.7	449.9	519.9	541.5	557.6	643.8	673.5
47.5°	393.3	398.7	406.8	377.1	371.8	417.6	455.3	471.4	546.9	579.2
50°	282.9	288.2	317.9	301.7	317.9	328.7	379.8	404.1	455.3	498.4
52.5°	204.7	210.1	218.2	220.9	261.3	266.7	304.4	342.1	366.4	414.9
55°	161.6	167.0	161.6	156.2	191.3	220.9	234.4	274.8	293.6	350.2
57.5°	91.6	97.0	105.1	121.2	126.6	169.7	183.2	218.2	234.4	288.2
60°	16.2	18.9	29.6	72.7	88.9	107.8	137.4	167.0	188.6	226.3
62.5°	2.7	2.7	5.4	16.2	51.2	75.4	99.7	118.5	137.4	172.4
65°	0.0	0.0	2.7	5.4	13.5	43.1	53.9	70.0	94.3	123.9
67.5°	0.0	0.0	2.7	5.4	8.1	16.2	24.2	43.1	53.9	83.5
70°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	18.9	32.3	51.2
72.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	16.2	16.2	32.3
75°	0.0	0.0	2.7	5.4	8.1	13.5	16.2	16.2	13.5	13.5
77.5°	0.0	0.0	2.7	5.4	10.8	16.2	18.9	16.2	10.8	10.8
80°	0.0	0.0	5.4	8.1	13.5	18.9	24.2	18.9	10.8	5.4
82.5°	0.0	0.0	5.4	10.8	13.5	21.6	29.6	24.2	10.8	5.4
85°	0.0	0.0	2.7	8.1	16.2	21.6	29.6	21.6	10.8	2.7
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	16.2	13.5	5.4	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637511

CATALOG NUMBER: IFLD-L-SA7A-830-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
84523.5	0°	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5	84523.5
82500.4	2.5°	82974.5	83405.5	83494.4	83375.9	83548.3	83238.5	83001.4	82387.2	82018.2
77268.8	5°	77767.2	77702.5	78152.4	78300.6	78281.7	78044.7	77713.3	77341.6	76980.6
69197.9	7.5°	69629.0	69712.5	70121.9	70383.2	70251.2	69954.9	69725.9	69445.8	69203.3
60421.2	10°	60973.5	60399.7	60908.8	60908.8	61261.7	60423.9	60502.1	59796.3	59828.6
50335.3	12.5°	50507.7	50715.2	50798.7	51038.4	50626.3	50181.8	49637.6	49529.8	49193.1
37620.2	15°	38161.6	38754.3	38245.1	39115.3	38695.0	38231.7	38148.2	37313.1	37577.1
27286.4	17.5°	27151.7	27806.3	28011.1	28509.4	28126.9	27852.1	27504.6	27251.4	27232.5
19102.4	20°	19253.2	19910.5	20061.4	20659.4	20616.3	20530.1	20236.5	19915.9	19568.4
13003.4	22.5°	13200.1	13736.1	14237.2	15042.7	15029.2	14776.0	14746.4	14293.8	14301.9
8784.8	25°	8876.4	9267.0	9385.5	10209.8	10301.4	10274.5	10120.9	9700.7	9859.6
5366.2	27.5°	5371.6	5713.7	6115.1	6406.1	6680.8	6637.7	6484.2	6249.8	6147.5
3224.6	30°	3310.8	3464.3	3612.5	3962.7	4127.0	4213.2	4140.5	3922.3	3938.5
2122.8	32.5°	2168.6	2297.9	2405.6	2626.5	2712.7	2871.7	2842.1	2796.3	2742.4
1527.4	35°	1581.3	1675.6	1748.3	1850.7	1961.2	2095.8	2117.4	2098.5	2077.0
1179.9	37.5°	1206.9	1303.8	1387.4	1430.5	1516.7	1621.7	1681.0	1678.3	1662.1
961.7	40°	980.6	1053.3	1128.7	1185.3	1244.6	1322.7	1395.4	1403.5	1403.5
808.2	42.5°	818.9	880.9	956.3	1015.6	1058.7	1131.4	1206.9	1212.3	1206.9
684.2	45°	700.4	754.3	827.0	897.1	932.1	986.0	1058.7	1074.9	1064.1
587.3	47.5°	608.8	657.3	719.3	794.7	832.4	880.9	948.2	967.1	964.4
506.5	50°	522.6	579.2	641.1	703.1	751.6	797.4	862.0	883.6	875.5
431.0	52.5°	460.7	511.8	565.7	633.1	689.6	730.0	781.2	818.9	808.2
363.7	55°	385.2	447.2	503.8	560.3	630.4	673.5	722.0	767.8	757.0
307.1	57.5°	334.0	385.2	449.9	501.1	571.1	622.3	670.8	719.3	716.6
250.5	60°	280.2	334.0	396.0	449.9	514.5	571.1	619.6	673.5	678.9
188.6	62.5°	220.9	285.6	339.4	401.4	466.0	528.0	571.1	625.0	633.1
142.8	65°	167.0	234.4	293.6	352.9	417.6	484.9	522.6	568.4	576.5
105.1	67.5°	123.9	180.5	250.5	304.4	371.8	436.4	471.4	509.1	522.6
64.7	70°	94.3	137.4	210.1	261.3	331.3	382.5	420.2	452.6	463.3
43.1	72.5°	59.3	107.8	169.7	223.6	285.6	331.3	358.3	377.1	393.3
24.2	75°	40.4	83.5	137.4	191.3	237.1	272.1	296.3	312.5	326.0
10.8	77.5°	24.2	64.7	113.1	158.9	188.6	215.5	239.8	250.5	258.6
8.1	80°	13.5	48.5	94.3	129.3	148.2	167.0	185.9	199.3	204.7
5.4	82.5°	8.1	37.7	75.4	99.7	107.8	126.6	145.5	153.6	153.6
2.7	85°	5.4	26.9	51.2	72.7	78.1	91.6	97.0	102.4	107.8
2.7	87.5°	5.4	16.2	32.3	40.4	43.1	48.5	51.2	56.6	62.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
84523.5
81746.1
76576.5
68381.7
59513.4
48886.0
37313.1
26731.5
19417.6
14145.6
9609.1
6058.6
3868.4
2723.5
2068.9
1654.0
1387.4
1201.5
1064.1
959.0
870.1
805.5
762.4
719.3
681.6
638.5
584.6
528.0
468.7
390.6
323.3
255.9
199.3
150.9
105.1
59.3
0.0

(END OF REPORT)