

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: P638012

Luminaire Tested: **IFLD-L-SA8D-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638012
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34554.9 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

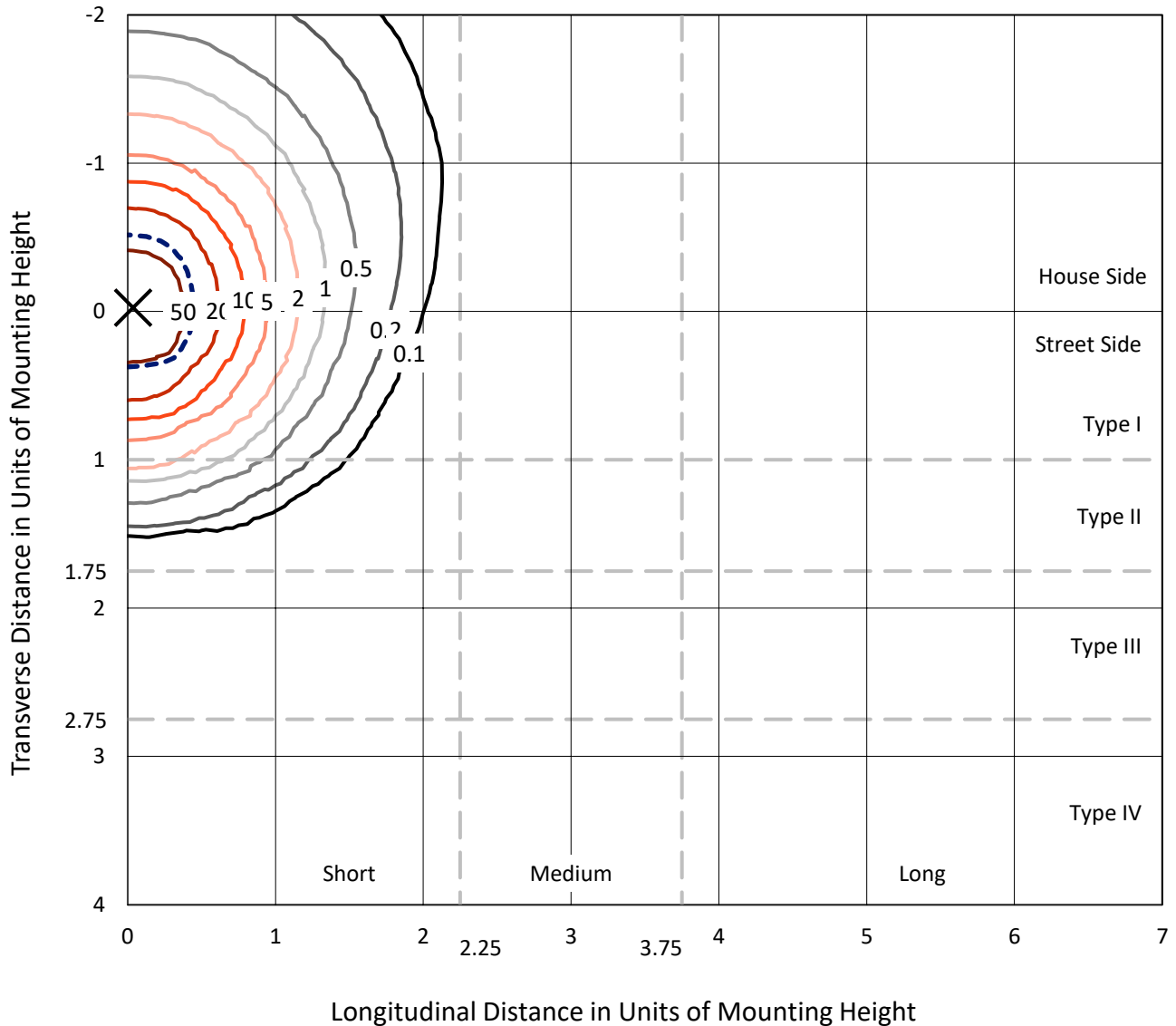
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638012
 CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

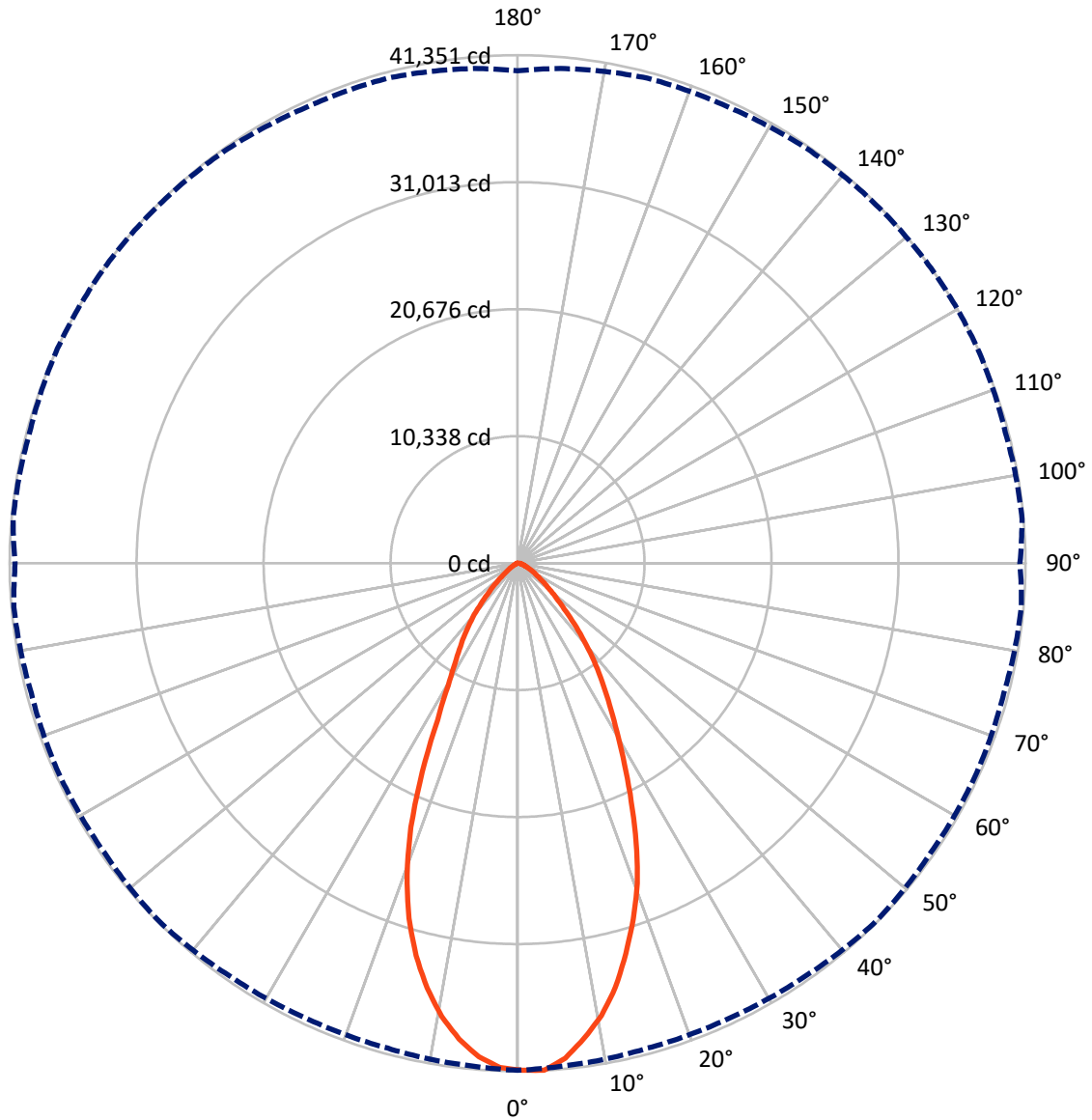
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 103.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638012
CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638012

CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

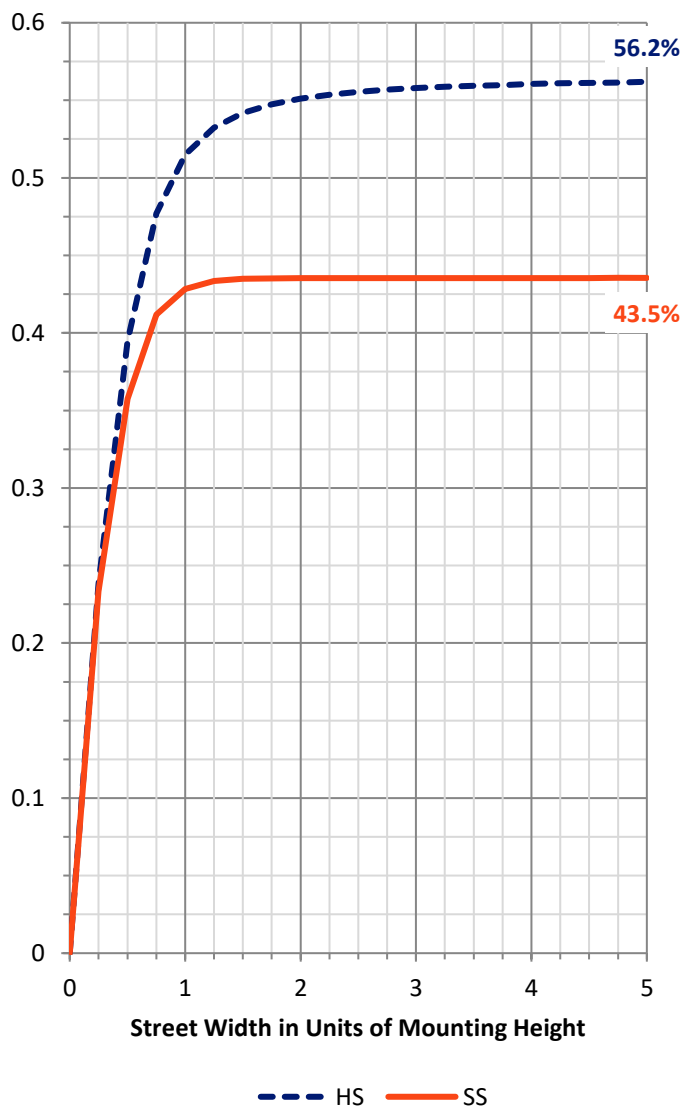
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19607.8	0.0	19607.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14947.1	0.0	14947.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	34554.9	0.0	34554.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3748.8	10.8
10°-20°	8936.3	25.9
20°-30°	9101.5	26.3
30°-40°	6786.9	19.6
40°-50°	3545.7	10.3
50°-60°	1491.3	4.3
60°-70°	609.1	1.8
70°-80°	256.3	0.7
80°-90°	79.0	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°	34554.9	100.0
0°-180°	34554.9	100.0



REPORT NUMBER: P638012

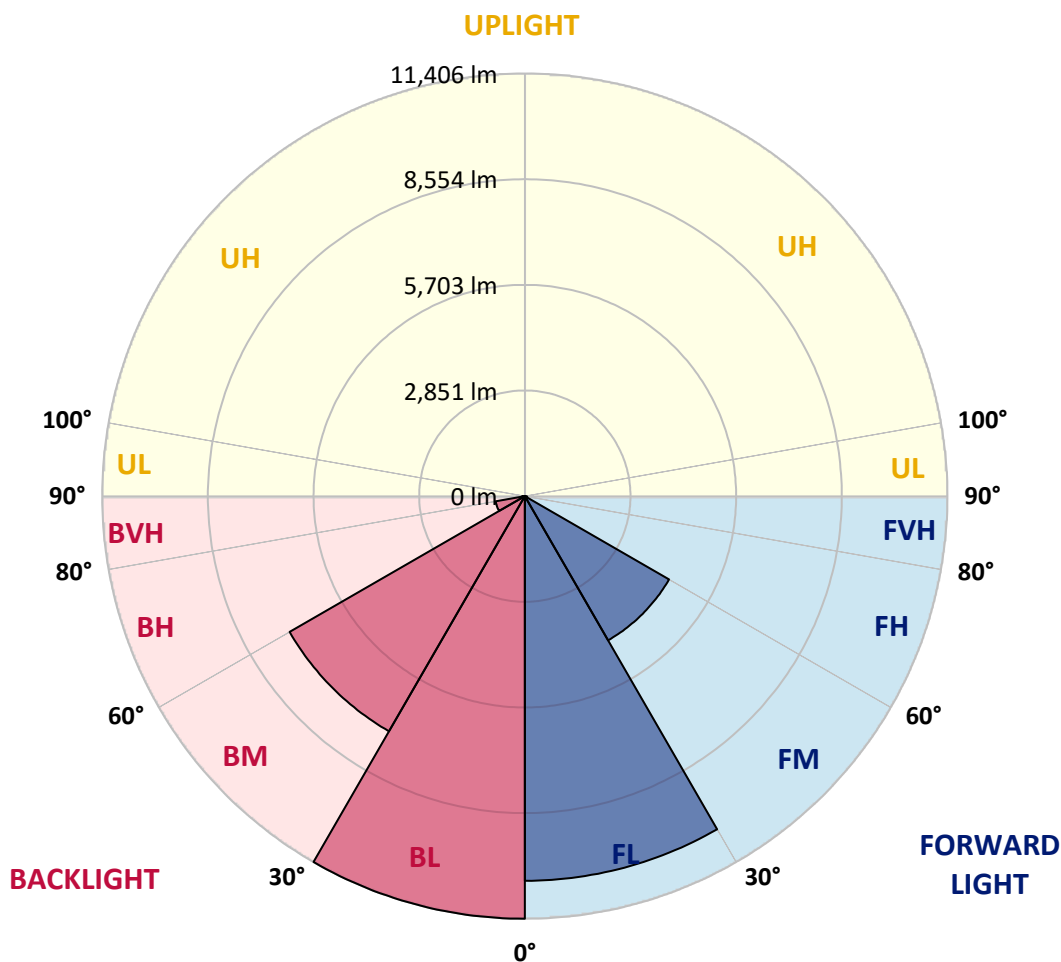
CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10380.7	30.0			
FM (30°-60°)	4494.0	13.0			
FH (60°-80°)	65.0	0.2			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	11405.9	33.0	B5		
BM (30°-60°)	7329.9	21.2	B4/8500		
BH (60°-80°)	800.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	71.6	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-G2

Type I Short





REPORT NUMBER: P638012
 CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8
2.5°	41289.2	41120.5	40880.8	40858.6	40982.9	41253.7	41080.6	41089.5	40982.9	41164.9
5°	40641.1	40481.4	40317.1	40099.6	40281.6	40397.0	40308.2	40210.6	40073.0	40250.5
7.5°	39416.1	39327.3	39083.1	38985.5	39096.5	39225.2	39034.3	39007.7	38816.8	39047.6
10°	37542.9	37507.4	37267.7	37210.0	37307.6	37503.0	37418.6	37400.9	37281.0	37258.8
12.5°	35598.7	35461.1	35163.7	35146.0	35292.5	35585.4	35359.0	35141.5	35208.1	35265.8
15°	30591.8	30445.4	31182.2	32340.7	32948.8	32926.6	32993.2	32731.3	32651.4	32678.0
17.5°	24319.9	24071.3	24337.6	26130.9	29020.5	30698.4	30236.7	29673.0	29371.2	29171.4
20°	20990.8	21004.1	20955.3	21416.9	23219.1	27045.3	26934.3	25846.8	25451.8	25287.5
22.5°	18966.8	18891.3	18784.8	18931.2	19415.1	21661.1	23165.8	22167.1	22029.5	21847.5
25°	16982.6	16982.6	16853.9	17000.4	17138.0	17169.1	18678.2	19086.6	18820.3	18820.3
27.5°	15264.8	15176.1	15118.4	15184.9	15003.0	14128.5	14319.4	16410.0	16228.1	16117.1
30°	13560.4	13533.7	13436.1	13524.9	12850.2	11864.8	11465.3	13848.9	14039.7	13999.8
32.5°	11194.5	11301.0	11736.0	11873.6	10719.6	9925.0	9543.3	11496.3	12259.8	12228.7
35°	7608.0	7696.8	8193.9	9836.3	8886.4	8318.2	8207.2	9143.8	10400.0	10519.8
37.5°	6058.9	6045.6	6187.6	6480.6	7141.9	7004.3	6973.3	7217.4	8482.4	8535.7
40°	4993.6	4975.8	4971.4	4731.7	4567.5	5823.6	5739.3	5592.8	6689.2	6795.7
42.5°	4025.9	4043.7	4057.0	3533.2	3293.5	4492.0	4443.2	4292.3	5246.6	5370.9
45°	3160.4	3155.9	3182.6	2632.2	2565.6	2871.9	3320.2	3200.3	3959.4	4092.5
47.5°	1637.9	1695.6	2055.1	2037.4	2068.5	2037.4	2512.3	2481.3	2978.4	3191.5
50°	1100.8	1118.6	1149.6	1154.1	1629.0	1500.3	1704.5	1930.9	2086.2	2414.7
52.5°	852.2	865.6	785.7	736.8	998.7	1109.7	1118.6	1336.1	1455.9	1788.8
55°	474.9	532.6	572.6	577.0	550.4	821.2	816.7	989.8	1083.1	1305.0
57.5°	62.1	75.5	115.4	372.9	368.4	457.2	572.6	719.1	772.3	954.3
60°	4.4	8.9	13.3	57.7	244.1	266.3	390.6	448.3	537.1	670.3
62.5°	0.0	0.0	4.4	13.3	48.8	155.4	204.2	235.3	315.2	439.4
65°	0.0	0.0	4.4	8.9	17.8	57.7	79.9	128.7	186.4	270.8
67.5°	0.0	0.0	4.4	8.9	13.3	22.2	35.5	57.7	97.7	164.2
70°	0.0	0.0	4.4	8.9	13.3	17.8	26.6	35.5	53.3	88.8
72.5°	0.0	0.0	4.4	4.4	8.9	22.2	22.2	26.6	35.5	48.8
75°	0.0	0.0	4.4	8.9	13.3	22.2	22.2	22.2	26.6	31.1
77.5°	0.0	0.0	4.4	8.9	13.3	22.2	17.8	22.2	22.2	22.2
80°	0.0	0.0	4.4	8.9	13.3	22.2	26.6	22.2	17.8	17.8
82.5°	0.0	0.0	4.4	13.3	13.3	31.1	31.1	31.1	13.3	13.3
85°	0.0	0.0	8.9	13.3	22.2	35.5	35.5	26.6	13.3	8.9
87.5°	0.0	0.0	4.4	8.9	8.9	17.8	26.6	22.2	8.9	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638012

CATALOG NUMBER: IFLD-L-SA8D-827-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41284.8	0°	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8	41284.8
40898.6	2.5°	41227.1	41116.1	41324.7	41351.3	41262.6	41151.6	40894.2	40872.0	40423.6
39993.1	5°	40445.8	40263.9	40397.0	40485.8	40454.7	40334.9	40228.3	40130.7	39726.8
38523.9	7.5°	38989.9	38923.4	38985.5	39052.1	39180.8	39052.1	39007.7	38905.6	38506.1
37076.8	10°	37374.2	37249.9	37485.2	37454.1	37418.6	37383.1	37196.7	37214.4	36743.9
35106.0	12.5°	35390.1	35181.5	35407.9	35434.5	35407.9	35283.6	35075.0	35163.7	34733.2
32442.8	15°	32722.4	32700.2	32864.5	32971.0	33046.5	32913.3	32842.3	32886.7	32629.2
29016.1	17.5°	29446.6	29735.2	30272.2	30454.2	30458.7	30596.3	30556.3	30503.1	30312.2
25220.9	20°	25593.8	26148.6	26974.3	27822.1	28066.2	27950.8	27897.5	27995.2	27711.1
21656.6	22.5°	22038.4	22513.3	23472.1	24710.5	25425.1	25496.1	25482.8	25398.5	25287.5
18802.5	25°	19020.0	19441.7	20360.5	21492.4	22864.0	23068.2	23077.0	23050.4	22952.7
16214.7	27.5°	16472.2	16982.6	17488.7	18500.7	19961.0	20804.4	20697.9	20666.8	20631.3
14030.9	30°	14164.0	14807.7	15282.6	15912.9	17222.3	18363.1	18474.1	18420.8	18336.5
12224.3	32.5°	12335.3	12717.0	13320.7	13746.8	14687.8	15979.5	16405.6	16365.7	16290.2
10595.3	35°	10746.2	10897.1	11372.1	11847.0	12472.9	13724.6	14354.9	14266.1	14252.8
8633.4	37.5°	8850.9	9356.9	9618.8	10098.1	10537.6	11509.7	12379.7	12339.7	12344.1
6942.2	40°	7146.4	7439.3	7958.7	8362.6	8766.5	9476.7	10444.4	10471.0	10462.1
5375.3	42.5°	5486.3	5770.4	6316.3	6755.8	7115.3	7554.7	8478.0	8509.1	8549.0
4185.7	45°	4283.4	4465.4	4864.9	5322.1	5703.8	5970.1	6671.4	6871.2	6875.6
3244.7	47.5°	3324.6	3533.2	3817.3	4256.8	4629.6	4820.5	5330.9	5601.7	5588.4
2490.1	50°	2610.0	2800.8	3031.7	3377.9	3781.8	3932.7	4310.0	4576.3	4563.0
1877.6	52.5°	1997.4	2241.6	2445.7	2712.1	3107.1	3235.8	3506.6	3812.9	3768.5
1376.0	55°	1513.6	1762.2	1953.0	2175.0	2534.5	2698.8	2885.2	3129.3	3138.2
1065.3	57.5°	1140.8	1398.2	1571.3	1797.7	2068.5	2250.4	2392.5	2654.4	2649.9
728.0	60°	816.7	1038.7	1247.3	1482.5	1691.2	1899.8	1997.4	2246.0	2254.9
514.9	62.5°	590.4	799.0	998.7	1202.9	1389.3	1593.5	1682.3	1877.6	1904.2
337.3	65°	412.8	559.3	790.1	945.5	1154.1	1305.0	1420.4	1589.1	1620.1
199.7	67.5°	266.3	403.9	625.9	763.5	954.3	1083.1	1202.9	1336.1	1376.0
128.7	70°	159.8	306.3	466.1	612.5	785.7	901.1	1016.5	1131.9	1154.1
62.1	72.5°	102.1	213.1	337.3	497.1	630.3	754.6	856.7	941.0	874.4
39.9	75°	57.7	146.5	266.3	390.6	510.5	630.3	714.6	759.0	608.1
26.6	77.5°	35.5	106.5	217.5	315.2	395.0	506.0	559.3	585.9	435.0
17.8	80°	22.2	79.9	182.0	257.4	257.4	372.9	435.0	457.2	315.2
13.3	82.5°	17.8	57.7	142.0	195.3	173.1	279.6	341.8	346.2	221.9
8.9	85°	13.3	44.4	88.8	128.7	119.8	195.3	199.7	221.9	146.5
8.9	87.5°	8.9	26.6	53.3	75.5	66.6	93.2	106.5	119.8	79.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41284.8
40073.0
39402.7
38421.8
36584.1
34608.9
32318.5
30028.1
27506.9
25074.5
22624.3
20422.7
18229.9
16090.4
14106.3
12202.1
10306.8
8415.9
6760.2
5539.6
4563.0
3772.9
3138.2
2641.1
2232.7
1895.3
1611.3
1371.6
1136.3
812.3
577.0
408.4
293.0
204.2
133.2
71.0
0.0

(END OF REPORT)