

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: P638019

Luminaire Tested: **IFLD-S-SA3B-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11400.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

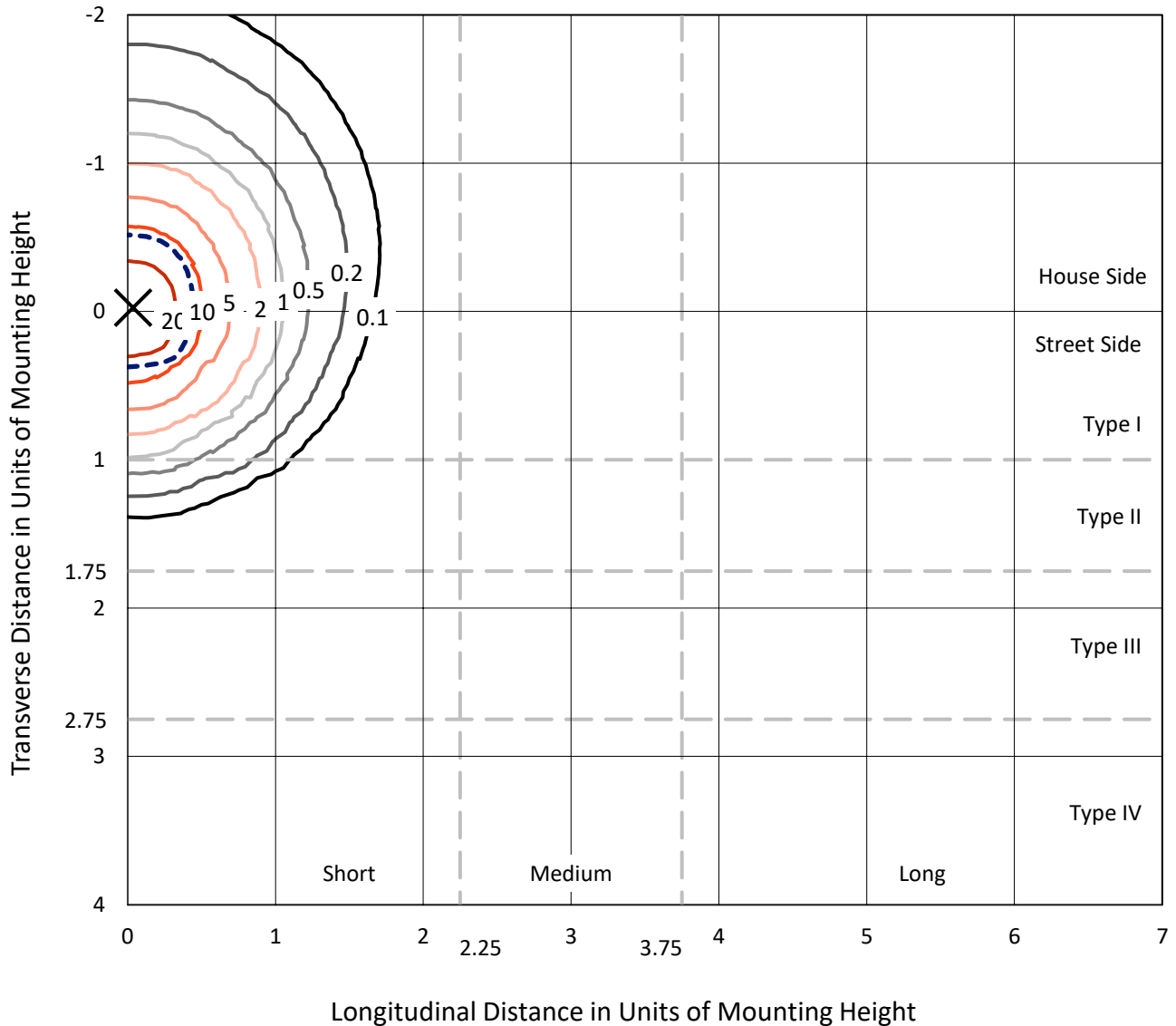
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638019
 CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

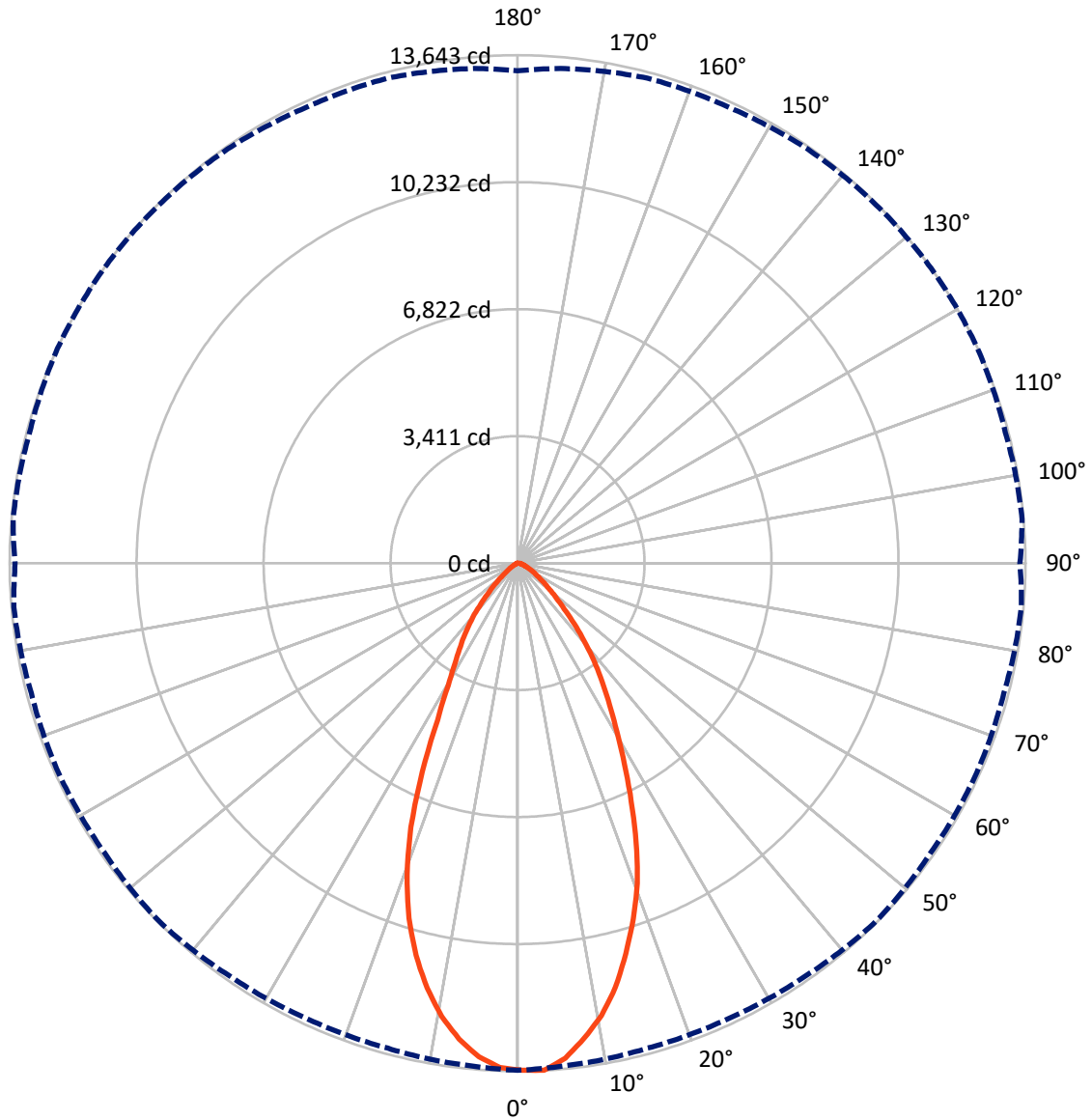
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638019
CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638019

CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

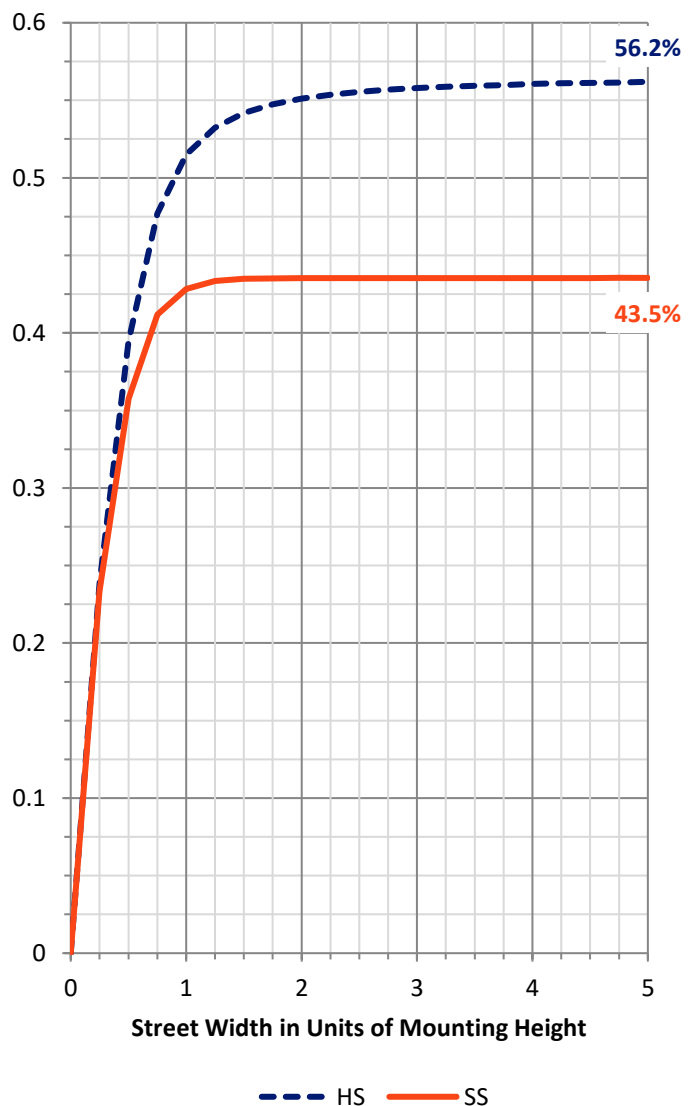
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6469.3	0.0	6469.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4931.6	0.0	4931.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	11400.9	0.0	11400.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.9	10.8
10°-20°	2948.4	25.9
20°-30°	3002.9	26.3
30°-40°	2239.3	19.6
40°-50°	1169.8	10.3
50°-60°	492.0	4.3
60°-70°	201.0	1.8
70°-80°	84.6	0.7
80°-90°	26.1	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°	11400.9	100.0
0°-180°	11400.9	100.0



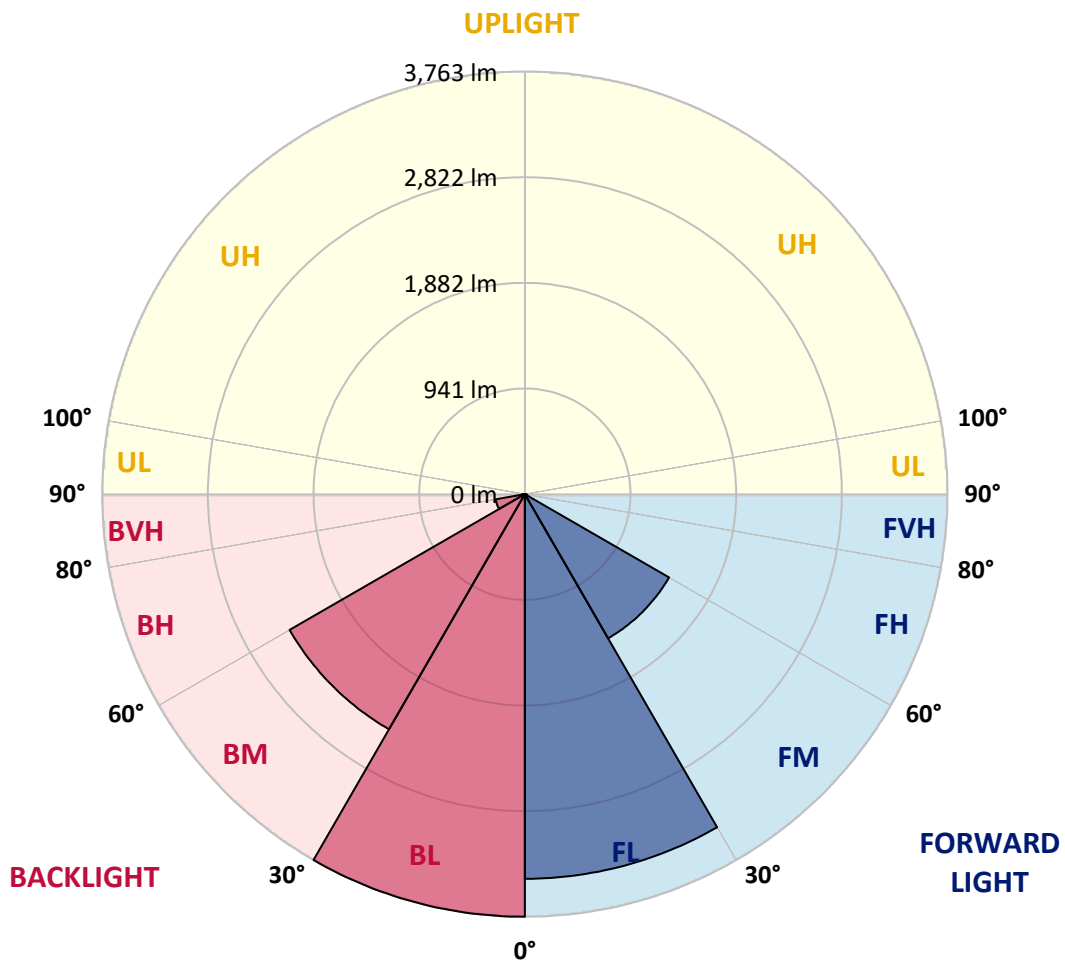
REPORT NUMBER: P638019
 CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3425.0	30.0			
FM	(30°-60°)	1482.7	13.0			
FH	(60°-80°)	21.5	0.2			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	3763.2	33.0	B4/5000		
BM	(30°-60°)	2418.4	21.2	B2/2500		
BH	(60°-80°)	264.1	2.3	B1/500		G1/500
BVH	(80°-90°)	23.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





REPORT NUMBER: P638019
 CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3
2.5°	13622.8	13567.1	13488.1	13480.7	13521.7	13611.1	13554.0	13556.9	13521.7	13581.8
5°	13409.0	13356.3	13302.1	13230.3	13290.3	13328.4	13299.1	13266.9	13221.5	13280.1
7.5°	13004.8	12975.5	12894.9	12862.7	12899.3	12941.8	12878.8	12870.0	12807.1	12883.2
10°	12386.8	12375.0	12296.0	12276.9	12309.1	12373.6	12345.7	12339.9	12300.3	12293.0
12.5°	11745.3	11699.9	11601.8	11595.9	11644.2	11740.9	11666.2	11594.5	11616.4	11635.5
15°	10093.3	10045.0	10288.1	10670.4	10871.0	10863.7	10885.6	10799.2	10772.9	10781.7
17.5°	8024.0	7942.0	8029.9	8621.5	9574.9	10128.5	9976.2	9790.2	9690.6	9624.7
20°	6925.6	6930.0	6913.9	7066.2	7660.8	8923.2	8886.6	8527.8	8397.5	8343.3
22.5°	6257.8	6232.9	6197.8	6246.1	6405.7	7146.8	7643.2	7313.7	7268.3	7208.3
25°	5603.2	5603.2	5560.7	5609.0	5654.4	5664.7	6162.6	6297.4	6209.5	6209.5
27.5°	5036.4	5007.1	4988.1	5010.1	4950.0	4661.5	4724.5	5414.3	5354.2	5317.6
30°	4474.1	4465.3	4433.0	4462.3	4239.7	3914.6	3782.8	4569.2	4632.2	4619.0
32.5°	3693.5	3728.6	3872.1	3917.5	3536.8	3274.6	3148.7	3793.1	4045.0	4034.7
35°	2510.2	2539.4	2703.5	3245.3	2931.9	2744.5	2707.9	3016.9	3431.3	3470.9
37.5°	1999.0	1994.7	2041.5	2138.2	2356.4	2311.0	2300.7	2381.3	2798.7	2816.2
40°	1647.6	1641.7	1640.2	1561.2	1507.0	1921.4	1893.6	1845.3	2207.0	2242.2
42.5°	1328.3	1334.2	1338.6	1165.7	1086.7	1482.1	1466.0	1416.2	1731.0	1772.0
45°	1042.7	1041.3	1050.0	868.4	846.5	947.5	1095.4	1055.9	1306.3	1350.3
47.5°	540.4	559.4	678.1	672.2	682.5	672.2	828.9	818.7	982.7	1053.0
50°	363.2	369.1	379.3	380.8	537.5	495.0	562.4	637.1	688.3	796.7
52.5°	281.2	285.6	259.2	243.1	329.5	366.1	369.1	440.8	480.4	590.2
55°	156.7	175.7	188.9	190.4	181.6	270.9	269.5	326.6	357.3	430.6
57.5°	20.5	24.9	38.1	123.0	121.6	150.8	188.9	237.2	254.8	314.9
60°	1.5	2.9	4.4	19.0	80.5	87.9	128.9	147.9	177.2	221.1
62.5°	0.0	0.0	1.5	4.4	16.1	51.3	67.4	77.6	104.0	145.0
65°	0.0	0.0	1.5	2.9	5.9	19.0	26.4	42.5	61.5	89.3
67.5°	0.0	0.0	1.5	2.9	4.4	7.3	11.7	19.0	32.2	54.2
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.7	17.6	29.3
72.5°	0.0	0.0	1.5	1.5	2.9	7.3	7.3	8.8	11.7	16.1
75°	0.0	0.0	1.5	2.9	4.4	7.3	7.3	7.3	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	4.4	7.3	5.9	7.3	7.3	7.3
80°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	7.3	5.9	5.9
82.5°	0.0	0.0	1.5	4.4	4.4	10.3	10.3	10.3	4.4	4.4
85°	0.0	0.0	2.9	4.4	7.3	11.7	11.7	8.8	4.4	2.9
87.5°	0.0	0.0	1.5	2.9	2.9	5.9	8.8	7.3	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638019

CATALOG NUMBER: IFLD-S-SA3B-830-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13621.3	0°	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3	13621.3
13493.9	2.5°	13602.3	13565.7	13634.5	13643.3	13614.0	13577.4	13492.5	13485.1	13337.2
13195.2	5°	13344.5	13284.5	13328.4	13357.7	13347.5	13307.9	13272.8	13240.6	13107.3
12710.4	7.5°	12864.2	12842.2	12862.7	12884.7	12927.2	12884.7	12870.0	12836.4	12704.5
12233.0	10°	12331.1	12290.1	12367.7	12357.5	12345.7	12334.0	12272.5	12278.4	12123.1
11582.7	12.5°	11676.5	11607.6	11682.3	11691.1	11682.3	11641.3	11572.5	11601.8	11459.7
10704.0	15°	10796.3	10789.0	10843.2	10878.3	10903.2	10859.3	10835.8	10850.5	10765.5
9573.4	17.5°	9715.5	9810.7	9987.9	10047.9	10049.4	10094.8	10081.6	10064.1	10001.1
8321.3	20°	8444.3	8627.4	8899.8	9179.5	9260.0	9222.0	9204.4	9236.6	9142.9
7145.3	22.5°	7271.2	7428.0	7744.3	8152.9	8388.7	8412.1	8407.7	8379.9	8343.3
6203.6	25°	6275.4	6414.5	6717.7	7091.1	7543.6	7611.0	7613.9	7605.2	7572.9
5349.8	27.5°	5434.8	5603.2	5770.1	6104.0	6585.9	6864.1	6829.0	6818.7	6807.0
4629.3	30°	4673.2	4885.6	5042.3	5250.2	5682.3	6058.6	6095.3	6077.7	6049.9
4033.2	32.5°	4069.8	4195.8	4395.0	4535.6	4846.0	5272.2	5412.8	5399.6	5374.7
3495.8	35°	3545.6	3595.4	3752.1	3908.8	4115.2	4528.2	4736.2	4706.9	4702.5
2848.5	37.5°	2920.2	3087.2	3173.6	3331.7	3476.7	3797.5	4084.5	4071.3	4072.8
2290.5	40°	2357.8	2454.5	2625.9	2759.1	2892.4	3126.7	3446.0	3454.8	3451.8
1773.5	42.5°	1810.1	1903.9	2084.0	2229.0	2347.6	2492.6	2797.2	2807.4	2820.6
1381.0	45°	1413.2	1473.3	1605.1	1755.9	1881.9	1969.8	2201.1	2267.0	2268.5
1070.6	47.5°	1096.9	1165.7	1259.5	1404.5	1527.5	1590.4	1758.9	1848.2	1843.8
821.6	50°	861.1	924.1	1000.3	1114.5	1247.8	1297.5	1422.0	1509.9	1505.5
619.5	52.5°	659.0	739.6	806.9	894.8	1025.2	1067.6	1157.0	1258.0	1243.4
454.0	55°	499.4	581.4	644.4	717.6	836.2	890.4	951.9	1032.5	1035.4
351.5	57.5°	376.4	461.3	518.4	593.1	682.5	742.5	789.4	875.8	874.3
240.2	60°	269.5	342.7	411.5	489.1	558.0	626.8	659.0	741.0	744.0
169.9	62.5°	194.8	263.6	329.5	396.9	458.4	525.8	555.0	619.5	628.3
111.3	65°	136.2	184.5	260.7	311.9	380.8	430.6	468.6	524.3	534.5
65.9	67.5°	87.9	133.3	206.5	251.9	314.9	357.3	396.9	440.8	454.0
42.5	70°	52.7	101.1	153.8	202.1	259.2	297.3	335.4	373.4	380.8
20.5	72.5°	33.7	70.3	111.3	164.0	208.0	249.0	282.6	310.5	288.5
13.2	75°	19.0	48.3	87.9	128.9	168.4	208.0	235.8	250.4	200.6
8.8	77.5°	11.7	35.1	71.8	104.0	130.3	167.0	184.5	193.3	143.5
5.9	80°	7.3	26.4	60.0	84.9	84.9	123.0	143.5	150.8	104.0
4.4	82.5°	5.9	19.0	46.9	64.4	57.1	92.3	112.8	114.2	73.2
2.9	85°	4.4	14.6	29.3	42.5	39.5	64.4	65.9	73.2	48.3
2.9	87.5°	2.9	8.8	17.6	24.9	22.0	30.8	35.1	39.5	26.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13621.3
13221.5
13000.4
12676.7
12070.4
11418.7
10663.0
9907.4
9075.5
8273.0
7464.6
6738.2
6014.7
5308.8
4654.2
4025.9
3400.6
2776.7
2230.4
1827.7
1505.5
1244.8
1035.4
871.4
736.6
625.3
531.6
452.5
374.9
268.0
190.4
134.7
96.7
67.4
43.9
23.4
0.0

(END OF REPORT)