

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: P638014

Luminaire Tested: **IFLD-S-SA2B-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638014
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7650.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

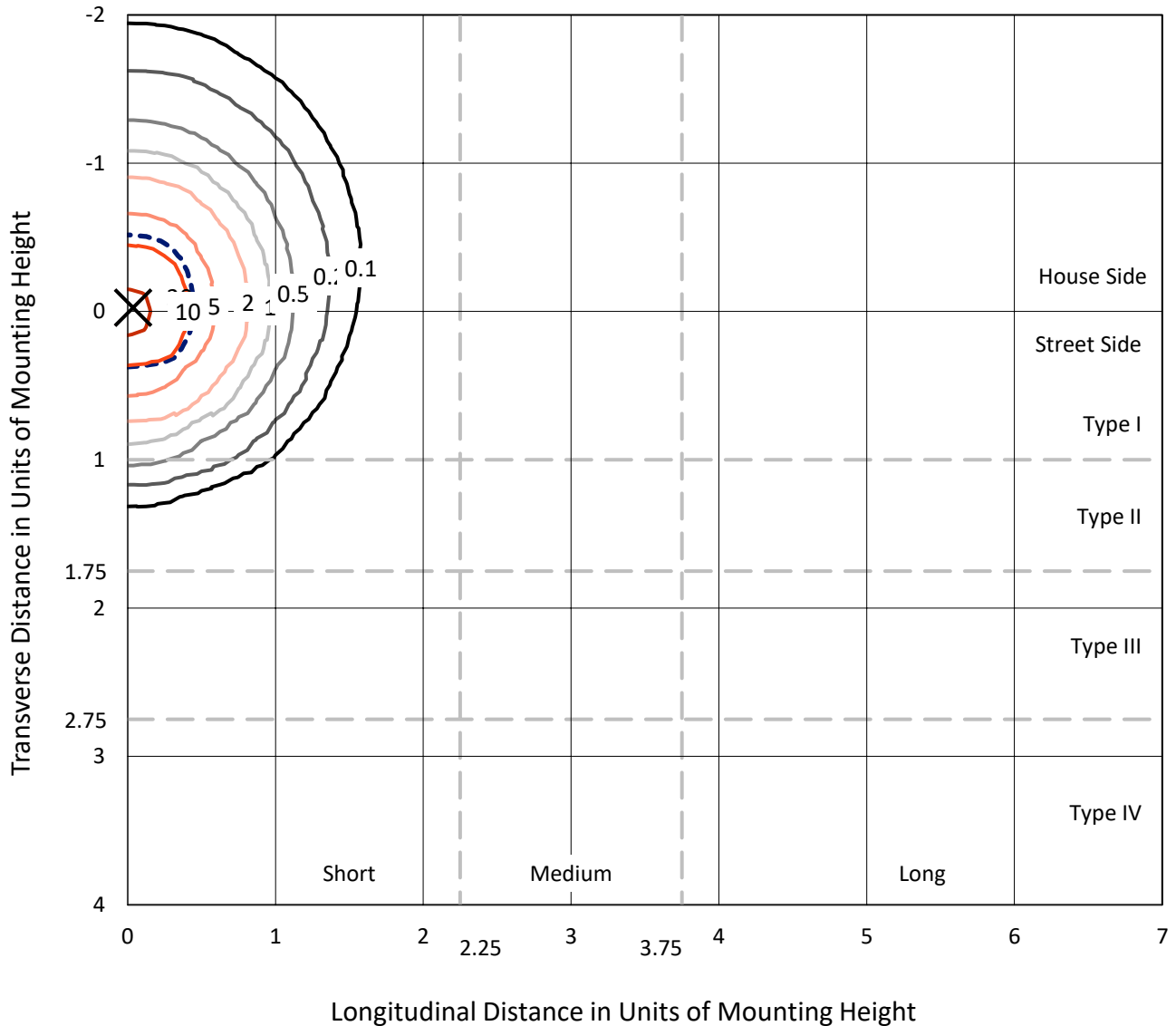
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

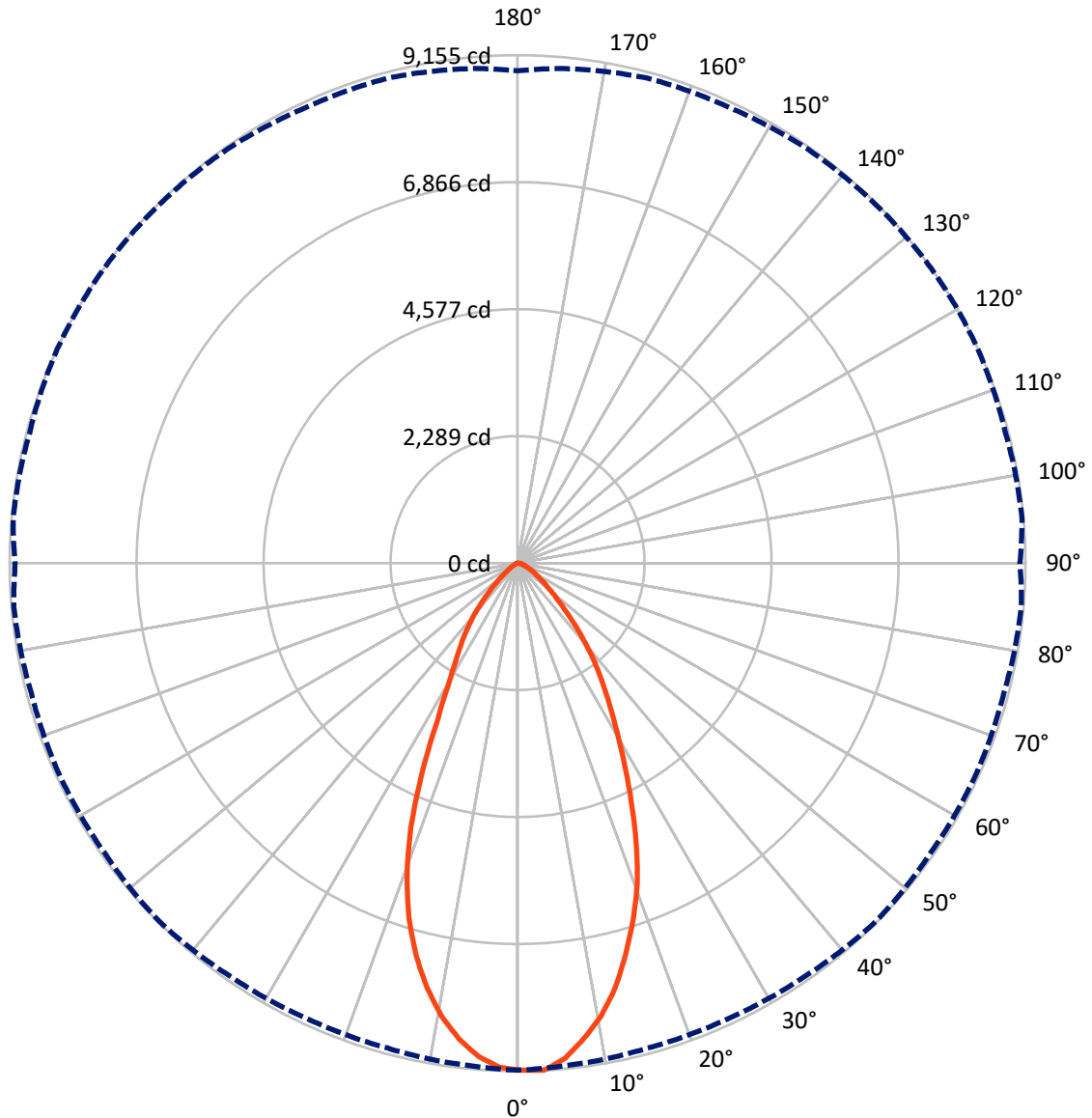
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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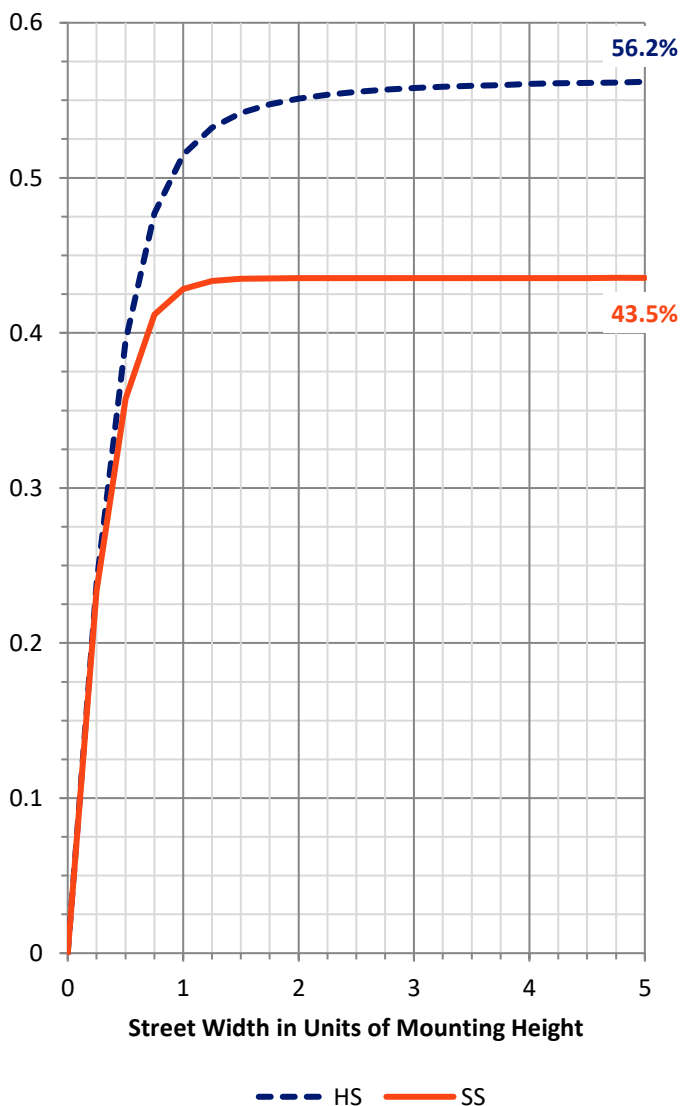
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4341.0	0.0	4341.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3309.1	0.0	3309.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	7650.1	0.0	7650.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.9	10.8
10°-20°	1978.4	25.9
20°-30°	2015.0	26.3
30°-40°	1502.6	19.6
40°-50°	785.0	10.3
50°-60°	330.2	4.3
60°-70°	134.8	1.8
70°-80°	56.7	0.7
80°-90°	17.5	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°	7650.1	100.0
0°-180°	7650.1	100.0



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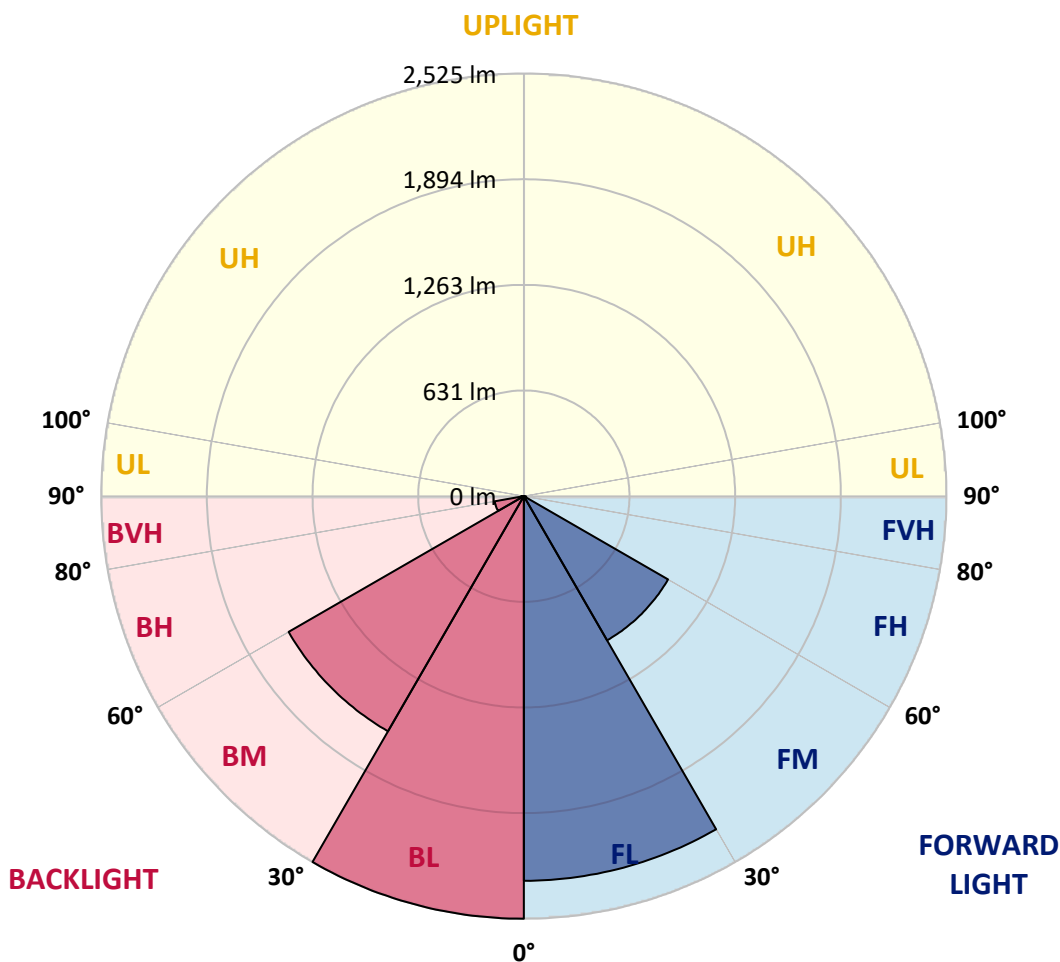
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2298.2	30.0			
FM (30°-60°)	994.9	13.0			
FH (60°-80°)	14.4	0.2			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	2525.1	33.0	B4/5000		
BM (30°-60°)	1622.8	21.2	B2/2500		
BH (60°-80°)	177.2	2.3	B1/500		G1/500
BVH (80°-90°)	15.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0
2.5°	9141.0	9103.7	9050.6	9045.7	9073.2	9133.1	9094.8	9096.8	9073.2	9113.5
5°	8997.5	8962.1	8925.8	8877.6	8917.9	8943.5	8923.8	8902.2	8871.7	8911.0
7.5°	8726.3	8706.6	8652.6	8631.0	8655.5	8684.0	8641.8	8635.9	8593.6	8644.7
10°	8311.6	8303.7	8250.7	8237.9	8259.5	8302.8	8284.1	8280.2	8253.6	8248.7
12.5°	7881.2	7850.7	7784.9	7780.9	7813.4	7878.2	7828.1	7780.0	7794.7	7807.5
15°	6772.7	6740.3	6903.4	7159.9	7294.5	7289.6	7304.3	7246.4	7228.7	7234.6
17.5°	5384.2	5329.1	5388.1	5785.1	6424.8	6796.3	6694.1	6569.3	6502.5	6458.2
20°	4647.1	4650.1	4639.3	4741.5	5140.5	5987.5	5963.0	5722.2	5634.8	5598.4
22.5°	4199.0	4182.3	4158.7	4191.2	4298.3	4795.5	5128.7	4907.6	4877.1	4836.8
25°	3759.8	3759.8	3731.3	3763.7	3794.2	3801.0	4135.2	4225.6	4166.6	4166.6
27.5°	3379.5	3359.8	3347.0	3361.8	3321.5	3127.9	3170.2	3633.0	3592.7	3568.2
30°	3002.1	2996.2	2974.6	2994.3	2844.9	2626.7	2538.3	3066.0	3108.3	3099.4
32.5°	2478.3	2501.9	2598.2	2628.7	2373.2	2197.3	2112.8	2545.2	2714.2	2707.3
35°	1684.3	1704.0	1814.0	2177.6	1967.3	1841.6	1817.0	2024.3	2302.4	2329.0
37.5°	1341.4	1338.4	1369.9	1434.7	1581.2	1550.7	1543.8	1597.9	1877.9	1889.7
40°	1105.5	1101.6	1100.6	1047.5	1011.2	1289.3	1270.6	1238.2	1480.9	1504.5
42.5°	891.3	895.2	898.2	782.2	729.2	994.5	983.7	950.3	1161.5	1189.1
45°	699.7	698.7	704.6	582.7	568.0	635.8	735.1	708.5	876.6	906.0
47.5°	362.6	375.4	455.0	451.1	457.9	451.1	556.2	549.3	659.4	706.6
50°	243.7	247.6	254.5	255.5	360.6	332.1	377.4	427.5	461.9	534.6
52.5°	188.7	191.6	173.9	163.1	221.1	245.7	247.6	295.8	322.3	396.0
55°	105.1	117.9	126.8	127.7	121.9	181.8	180.8	219.1	239.8	288.9
57.5°	13.8	16.7	25.5	82.5	81.6	101.2	126.8	159.2	171.0	211.3
60°	1.0	2.0	2.9	12.8	54.0	59.0	86.5	99.3	118.9	148.4
62.5°	0.0	0.0	1.0	2.9	10.8	34.4	45.2	52.1	69.8	97.3
65°	0.0	0.0	1.0	2.0	3.9	12.8	17.7	28.5	41.3	59.9
67.5°	0.0	0.0	1.0	2.0	2.9	4.9	7.9	12.8	21.6	36.4
70°	0.0	0.0	1.0	2.0	2.9	3.9	5.9	7.9	11.8	19.7
72.5°	0.0	0.0	1.0	1.0	2.0	4.9	4.9	5.9	7.9	10.8
75°	0.0	0.0	1.0	2.0	2.9	4.9	4.9	4.9	5.9	6.9
77.5°	0.0	0.0	1.0	2.0	2.9	4.9	3.9	4.9	4.9	4.9
80°	0.0	0.0	1.0	2.0	2.9	4.9	5.9	4.9	3.9	3.9
82.5°	0.0	0.0	1.0	2.9	2.9	6.9	6.9	6.9	2.9	2.9
85°	0.0	0.0	2.0	2.9	4.9	7.9	7.9	5.9	2.9	2.0
87.5°	0.0	0.0	1.0	2.0	2.0	3.9	5.9	4.9	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9140.0	0°	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0	9140.0
9054.5	2.5°	9127.2	9102.7	9148.9	9154.8	9135.1	9110.5	9053.5	9048.6	8949.4
8854.0	5°	8954.3	8914.0	8943.5	8963.1	8956.2	8929.7	8906.1	8884.5	8795.1
8528.8	7.5°	8632.0	8617.2	8631.0	8645.7	8674.2	8645.7	8635.9	8613.3	8524.8
8208.4	10°	8274.3	8246.7	8298.8	8291.9	8284.1	8276.2	8235.0	8238.9	8134.7
7772.1	12.5°	7835.0	7788.8	7838.9	7844.8	7838.9	7811.4	7765.2	7784.9	7689.6
7182.5	15°	7244.4	7239.5	7275.8	7299.4	7316.1	7286.7	7270.9	7280.8	7223.8
6423.9	17.5°	6519.2	6583.0	6702.0	6742.2	6743.2	6773.7	6764.8	6753.1	6710.8
5583.7	20°	5666.2	5789.0	5971.8	6159.5	6213.6	6188.0	6176.2	6197.8	6134.9
4794.6	22.5°	4879.1	4984.2	5196.5	5470.6	5628.9	5644.6	5641.6	5623.0	5598.4
4162.7	25°	4210.8	4304.2	4507.6	4758.2	5061.8	5107.0	5109.0	5103.1	5081.5
3589.8	27.5°	3646.8	3759.8	3871.8	4095.9	4419.2	4605.9	4582.3	4575.4	4567.5
3106.3	30°	3135.8	3278.3	3383.4	3522.9	3812.8	4065.4	4090.0	4078.2	4059.5
2706.3	32.5°	2730.9	2815.4	2949.1	3043.4	3251.7	3537.7	3632.0	3623.2	3606.5
2345.7	35°	2379.1	2412.5	2517.7	2622.8	2761.4	3038.5	3178.0	3158.4	3155.4
1911.3	37.5°	1959.5	2071.5	2129.5	2235.6	2332.9	2548.1	2740.7	2731.9	2732.9
1536.9	40°	1582.1	1647.0	1762.0	1851.4	1940.8	2098.0	2312.3	2318.2	2316.2
1190.0	42.5°	1214.6	1277.5	1398.4	1495.7	1575.3	1672.5	1876.9	1883.8	1892.7
926.7	45°	948.3	988.6	1077.0	1178.2	1262.8	1321.7	1477.0	1521.2	1522.2
718.3	47.5°	736.0	782.2	845.1	942.4	1024.9	1067.2	1180.2	1240.2	1237.2
551.3	50°	577.8	620.1	671.2	747.8	837.3	870.7	954.2	1013.2	1010.2
415.7	52.5°	442.2	496.3	541.5	600.4	687.9	716.4	776.3	844.1	834.3
304.6	55°	335.1	390.1	432.4	481.5	561.1	597.5	638.7	692.8	694.8
235.8	57.5°	252.6	309.5	347.9	398.0	457.9	498.2	529.7	587.6	586.7
161.2	60°	180.8	229.9	276.1	328.2	374.4	420.6	442.2	497.2	499.2
114.0	62.5°	130.7	176.9	221.1	266.3	307.6	352.8	372.4	415.7	421.6
74.7	65°	91.4	123.8	174.9	209.3	255.5	288.9	314.5	351.8	358.7
44.2	67.5°	59.0	89.4	138.6	169.0	211.3	239.8	266.3	295.8	304.6
28.5	70°	35.4	67.8	103.2	135.6	173.9	199.5	225.0	250.6	255.5
13.8	72.5°	22.6	47.2	74.7	110.1	139.5	167.1	189.7	208.3	193.6
8.8	75°	12.8	32.4	59.0	86.5	113.0	139.5	158.2	168.0	134.6
5.9	77.5°	7.9	23.6	48.2	69.8	87.5	112.0	123.8	129.7	96.3
3.9	80°	4.9	17.7	40.3	57.0	57.0	82.5	96.3	101.2	69.8
2.9	82.5°	3.9	12.8	31.4	43.2	38.3	61.9	75.7	76.6	49.1
2.0	85°	2.9	9.8	19.7	28.5	26.5	43.2	44.2	49.1	32.4
2.0	87.5°	2.0	5.9	11.8	16.7	14.7	20.6	23.6	26.5	17.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9140.0
8871.7
8723.3
8506.2
8099.3
7662.0
7155.0
6647.9
6089.7
5551.2
5008.8
4521.4
4035.9
3562.3
3123.0
2701.4
2281.8
1863.2
1496.6
1226.4
1010.2
835.3
694.8
584.7
494.3
419.6
356.7
303.7
251.6
179.8
127.7
90.4
64.9
45.2
29.5
15.7
0.0

(END OF REPORT)