

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: P636737

Luminaire Tested: **IFLD-S-SA2A-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636737
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4544.8 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

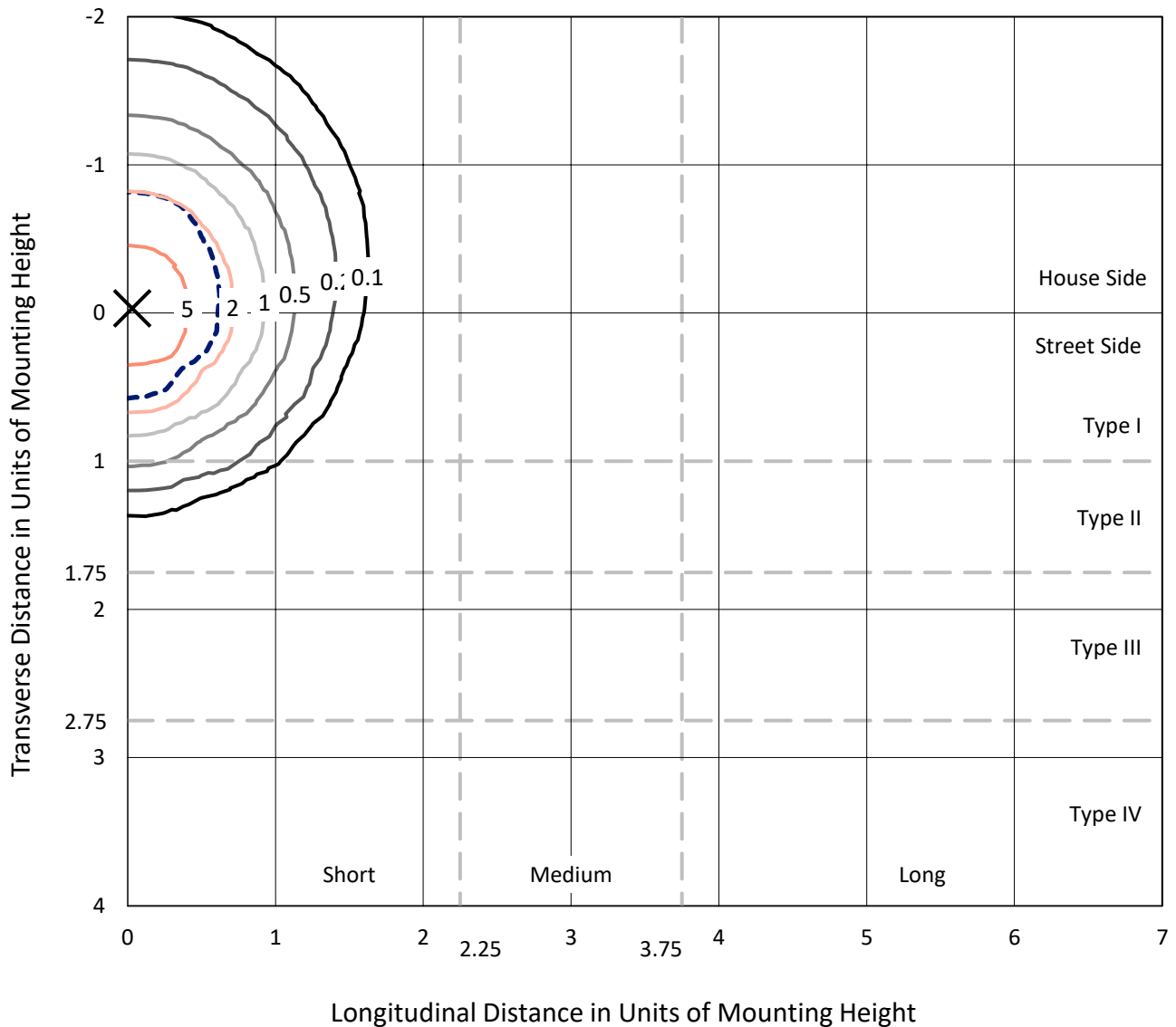
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636737
 CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

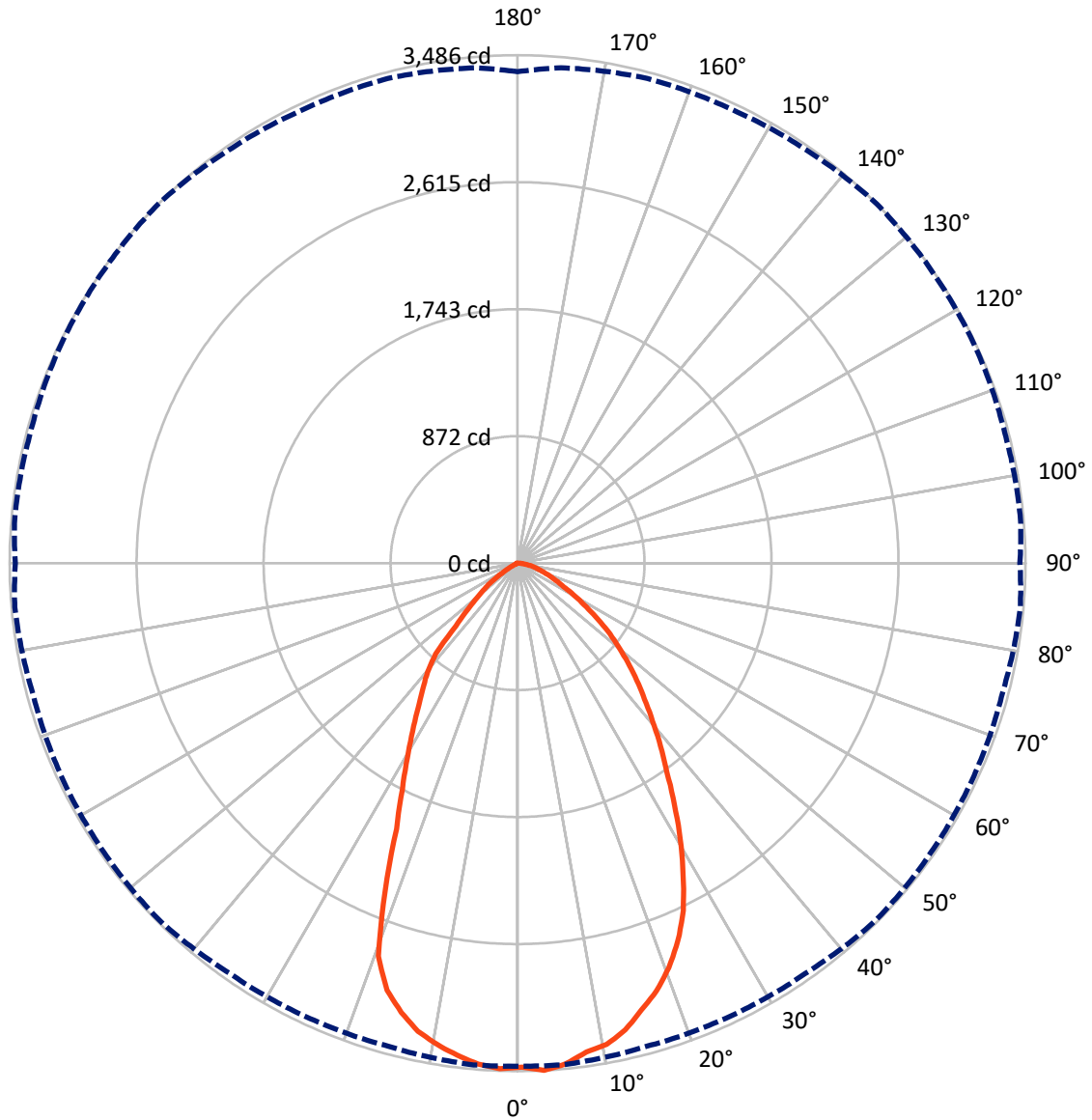
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type I - Short - N/A

REPORT NUMBER: P636737
CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636737
 CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

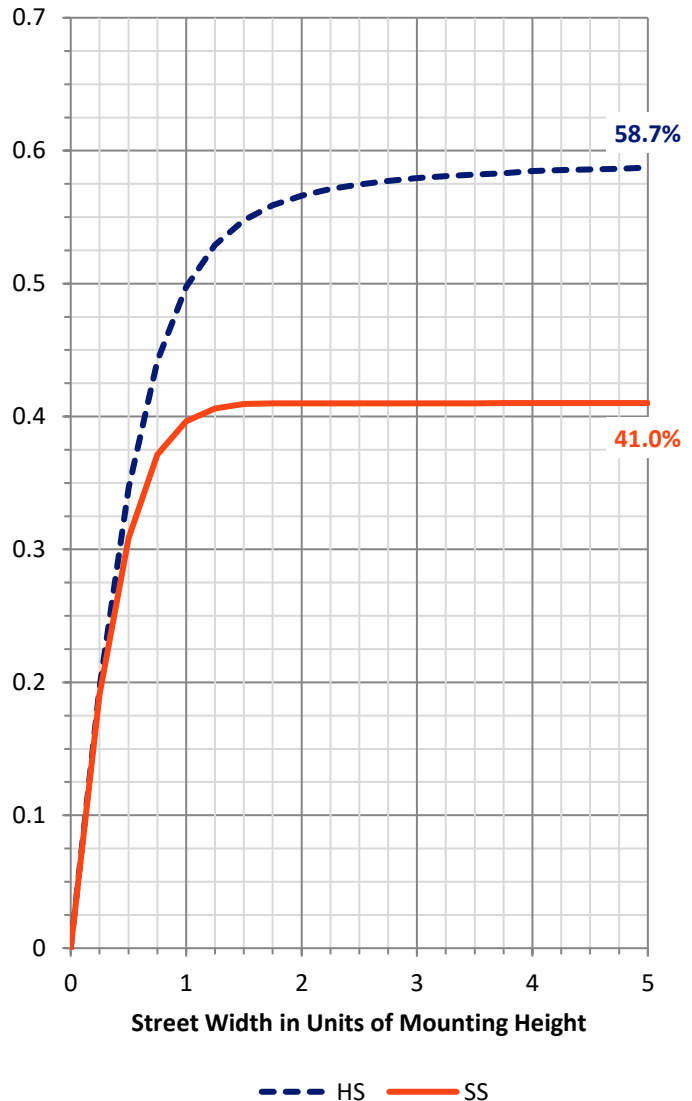
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.7	0.0	2691.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	1853.1	0.0	1853.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	4544.8	0.0	4544.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	7.1
10°-20°	869.8	19.1
20°-30°	1060.8	23.3
30°-40°	968.5	21.3
40°-50°	699.9	15.4
50°-60°	382.1	8.4
60°-70°	158.0	3.5
70°-80°	64.0	1.4
80°-90°	17.4	0.4
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°	4544.8	100.0
0°-180°	4544.8	100.0



REPORT NUMBER: P636737

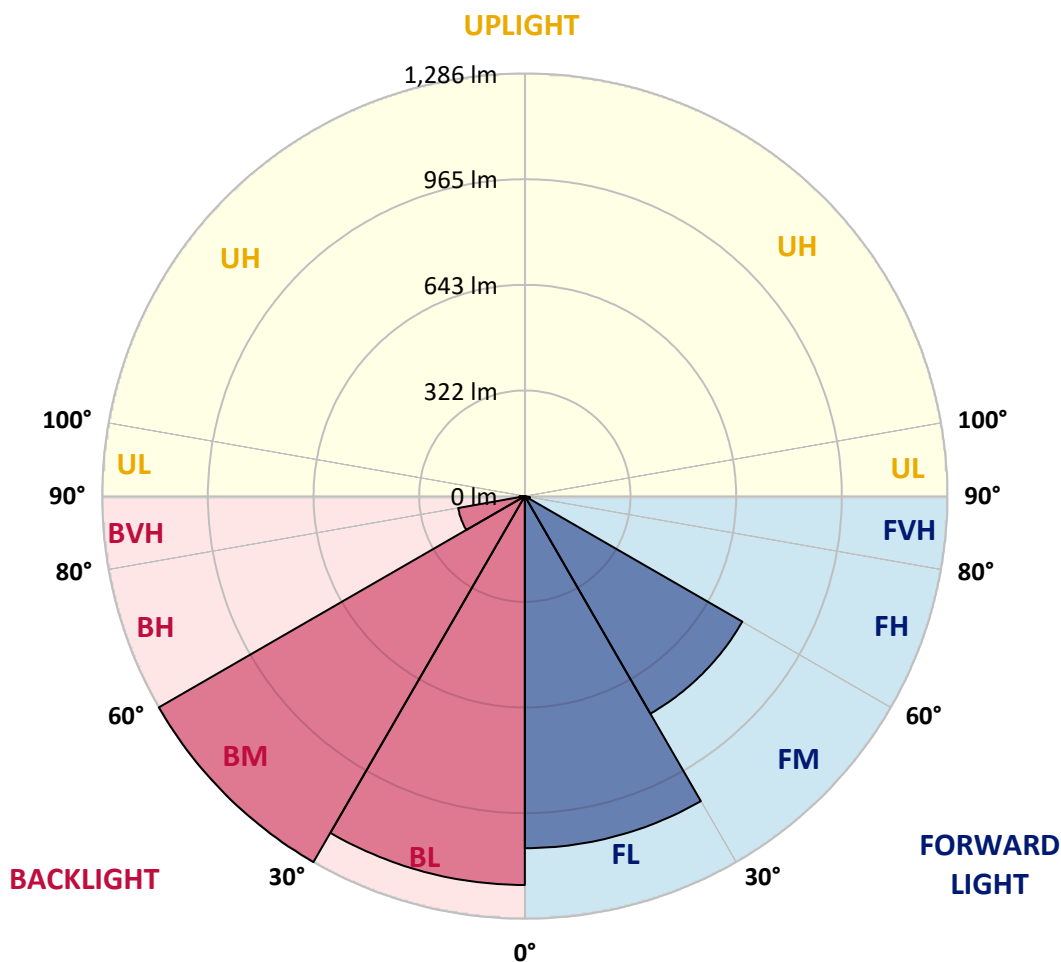
CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.4	23.6			
FM	(30°-60°)	764.4	16.8			
FH	(60°-80°)	16.0	0.4			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	1183.5	26.0	B3/2500		
BM	(30°-60°)	1286.1	28.3	B2/2500		
BH	(60°-80°)	206.0	4.5	B1/500		G1/500
BVH	(80°-90°)	16.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P636737
 CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6
2.5°	3452.2	3456.7	3432.4	3434.9	3439.4	3472.0	3463.7	3456.0	3445.2	3463.7
5°	3447.7	3450.3	3424.7	3415.7	3419.6	3449.0	3422.1	3422.1	3419.6	3416.4
7.5°	3413.2	3414.4	3394.6	3378.6	3388.8	3402.3	3382.4	3392.0	3378.0	3388.8
10°	3361.3	3353.0	3329.3	3324.8	3336.4	3349.2	3335.7	3344.7	3331.9	3340.2
12.5°	3285.2	3272.4	3253.2	3247.4	3267.2	3284.5	3273.6	3268.5	3251.9	3272.4
15°	2991.4	2981.8	3025.3	3101.5	3169.9	3184.7	3173.1	3178.3	3143.7	3149.5
17.5°	2462.1	2444.2	2490.9	2671.4	2928.7	3064.3	3054.1	3020.8	2969.6	2981.1
20°	2237.5	2232.3	2227.2	2270.1	2449.9	2861.5	2875.5	2791.1	2718.1	2702.1
22.5°	2110.7	2108.8	2103.7	2113.3	2160.7	2425.0	2586.3	2508.2	2459.5	2455.1
25°	1994.9	1991.7	1976.3	1988.5	1988.5	2003.9	2210.6	2257.9	2215.1	2209.9
27.5°	1877.1	1871.4	1868.8	1874.6	1845.1	1741.5	1793.9	2025.0	2002.6	2003.9
30°	1749.8	1747.9	1740.8	1753.0	1662.1	1533.5	1500.2	1813.8	1818.3	1817.0
32.5°	1560.3	1568.7	1600.7	1614.1	1464.3	1358.1	1302.4	1569.3	1660.8	1658.9
35°	1133.5	1133.5	1237.8	1431.7	1283.2	1203.2	1173.1	1330.6	1505.3	1511.7
37.5°	931.8	935.0	955.5	1043.8	1107.2	1079.1	1070.1	1120.0	1305.6	1315.9
40°	838.4	838.4	838.4	801.9	800.0	972.2	967.0	951.0	1127.7	1150.1
42.5°	753.3	755.2	756.5	664.3	613.1	840.3	828.8	804.5	968.3	994.6
45°	665.6	668.8	672.6	555.5	533.1	604.8	701.4	674.6	810.9	844.8
47.5°	406.4	411.5	498.6	471.0	473.6	466.6	572.2	567.7	665.0	713.0
50°	274.6	276.5	284.8	298.9	406.4	366.7	405.1	469.8	505.0	577.9
52.5°	230.4	233.6	213.1	193.9	266.9	286.7	282.9	348.8	362.9	453.1
55°	161.9	172.2	162.6	160.6	151.7	222.7	214.4	268.2	277.1	344.3
57.5°	16.6	19.2	33.3	119.7	99.2	126.1	153.0	196.5	205.4	254.1
60°	1.3	1.3	3.2	16.6	72.3	75.5	105.6	121.0	138.2	177.3
62.5°	0.0	0.6	1.3	2.6	11.5	40.3	53.1	63.4	83.2	114.6
65°	0.0	0.0	0.6	1.9	2.6	15.4	20.5	33.3	45.4	71.0
67.5°	0.0	0.0	0.6	1.3	1.9	3.8	7.0	12.2	24.3	40.3
70°	0.0	0.0	0.6	1.3	1.9	3.2	5.1	7.7	10.9	21.8
72.5°	0.0	0.0	0.6	0.6	1.3	3.2	3.8	5.1	7.7	10.9
75°	0.0	0.0	0.6	0.6	1.9	3.8	3.2	3.8	5.1	7.0
77.5°	0.0	0.0	0.6	1.3	1.9	3.8	3.2	3.8	3.8	4.5
80°	0.0	0.0	0.6	1.3	2.6	4.5	3.8	3.8	3.2	3.2
82.5°	0.0	0.0	0.6	1.9	2.6	5.8	5.8	5.1	2.6	1.9
85°	0.0	0.0	1.3	2.6	3.8	6.4	6.4	5.1	1.9	1.3
87.5°	0.0	0.0	1.3	1.9	3.2	4.5	6.4	5.1	1.9	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636737

CATALOG NUMBER: IFLD-S-SA2A-930-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3458.6	0°	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6	3458.6
3447.7	2.5°	3465.0	3461.2	3474.0	3479.1	3486.1	3459.2	3442.6	3443.2	3412.5
3408.7	5°	3429.2	3429.8	3446.4	3445.2	3452.2	3437.5	3431.1	3420.2	3393.3
3359.4	7.5°	3383.7	3378.0	3394.0	3406.1	3388.2	3398.4	3383.7	3388.8	3372.8
3315.9	10°	3348.5	3335.1	3349.8	3358.1	3358.8	3348.5	3334.4	3321.0	3315.2
3248.0	12.5°	3270.4	3253.2	3278.1	3289.6	3287.7	3267.9	3251.9	3255.1	3236.5
3129.0	15°	3162.9	3163.5	3181.5	3192.3	3182.1	3177.6	3178.9	3171.2	3155.2
2964.5	17.5°	2998.4	3008.0	3055.4	3081.6	3087.4	3078.4	3073.9	3065.0	3049.0
2702.1	20°	2724.5	2782.1	2866.6	2947.9	2963.9	2961.3	2945.3	2941.5	2932.5
2442.3	22.5°	2483.9	2526.7	2624.7	2751.4	2816.7	2823.1	2803.9	2798.1	2788.5
2209.9	25°	2234.9	2281.0	2369.3	2506.9	2641.9	2669.5	2666.3	2649.0	2638.7
2003.9	27.5°	2025.0	2071.1	2151.1	2275.2	2419.9	2508.2	2516.5	2489.0	2488.3
1820.2	30°	1835.5	1898.9	1959.7	2060.8	2201.0	2333.5	2347.5	2328.3	2330.3
1651.9	32.5°	1687.1	1739.5	1791.4	1859.2	1975.7	2129.9	2185.0	2167.1	2160.0
1511.7	35°	1535.4	1571.2	1624.3	1686.4	1765.8	1918.7	2014.1	2000.7	1993.6
1322.3	37.5°	1362.6	1424.0	1462.4	1532.2	1594.3	1715.9	1850.3	1848.3	1833.6
1161.0	40°	1185.3	1249.9	1308.2	1378.6	1426.6	1523.2	1672.3	1671.7	1673.6
993.9	42.5°	1024.6	1084.2	1154.6	1231.4	1277.5	1347.9	1507.9	1516.8	1527.7
856.3	45°	879.4	933.1	998.4	1091.9	1147.5	1187.9	1329.9	1370.9	1370.3
733.4	47.5°	748.8	799.4	854.4	945.3	1016.3	1052.8	1170.6	1228.8	1225.0
601.6	50°	628.5	673.3	730.9	796.8	892.2	924.2	1011.8	1088.7	1082.9
479.4	52.5°	505.6	567.7	616.3	676.5	777.0	808.3	876.2	951.0	946.6
359.7	55°	394.2	454.4	513.3	565.1	649.6	696.3	745.0	821.8	820.5
281.6	57.5°	298.2	364.2	419.8	469.1	536.3	593.9	633.0	702.7	711.7
192.6	60°	220.8	271.4	331.5	386.6	439.7	499.2	525.4	593.9	597.8
131.8	62.5°	150.4	206.1	265.0	314.9	354.6	416.0	439.7	496.0	503.0
84.5	65°	104.3	140.2	207.4	243.2	291.8	344.3	368.0	412.8	426.9
48.6	67.5°	69.1	99.8	161.9	194.6	242.6	278.4	308.5	345.0	360.3
30.7	70°	37.8	73.6	115.8	153.6	195.2	229.8	259.2	288.6	302.1
14.1	72.5°	25.6	49.3	80.6	121.6	157.4	191.4	217.6	239.4	240.0
8.3	75°	12.8	33.3	61.4	94.1	122.9	156.2	179.8	192.6	177.3
5.1	77.5°	7.7	24.3	49.9	75.5	99.8	126.1	139.5	146.6	121.6
3.8	80°	4.5	17.3	39.0	60.2	69.1	92.8	105.6	107.5	81.3
2.6	82.5°	3.2	12.8	30.7	44.2	42.2	65.3	79.4	76.8	51.8
1.9	85°	1.9	9.0	19.2	27.5	25.6	42.9	46.1	47.4	30.1
1.3	87.5°	1.3	5.1	10.2	14.7	12.2	18.6	18.6	22.4	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3458.6
3372.8
3386.9
3346.0
3289.6
3220.5
3139.2
3041.9
2912.0
2785.9
2627.9
2487.1
2320.7
2160.7
1984.0
1845.8
1673.6
1521.9
1371.5
1226.3
1088.0
956.2
823.7
707.8
603.5
504.3
423.7
358.4
297.0
234.2
165.8
117.1
76.2
48.0
27.5
12.8
0.0

(END OF REPORT)