

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: P636715

Luminaire Tested: **IFLD-S-SA3C-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636715
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10315 lumens
Efficiency: N/A
Efficacy: 64.1 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

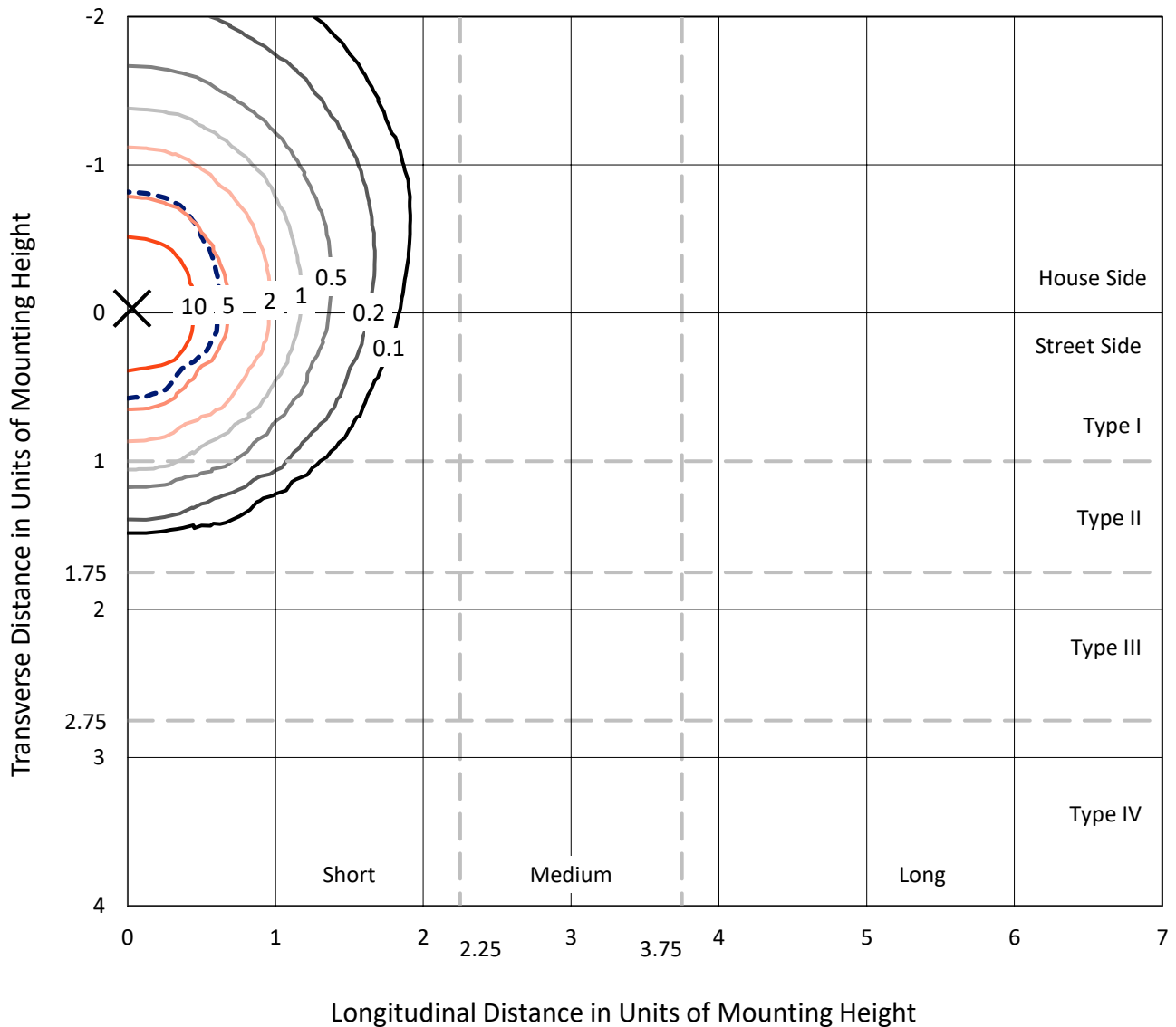
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636715
 CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

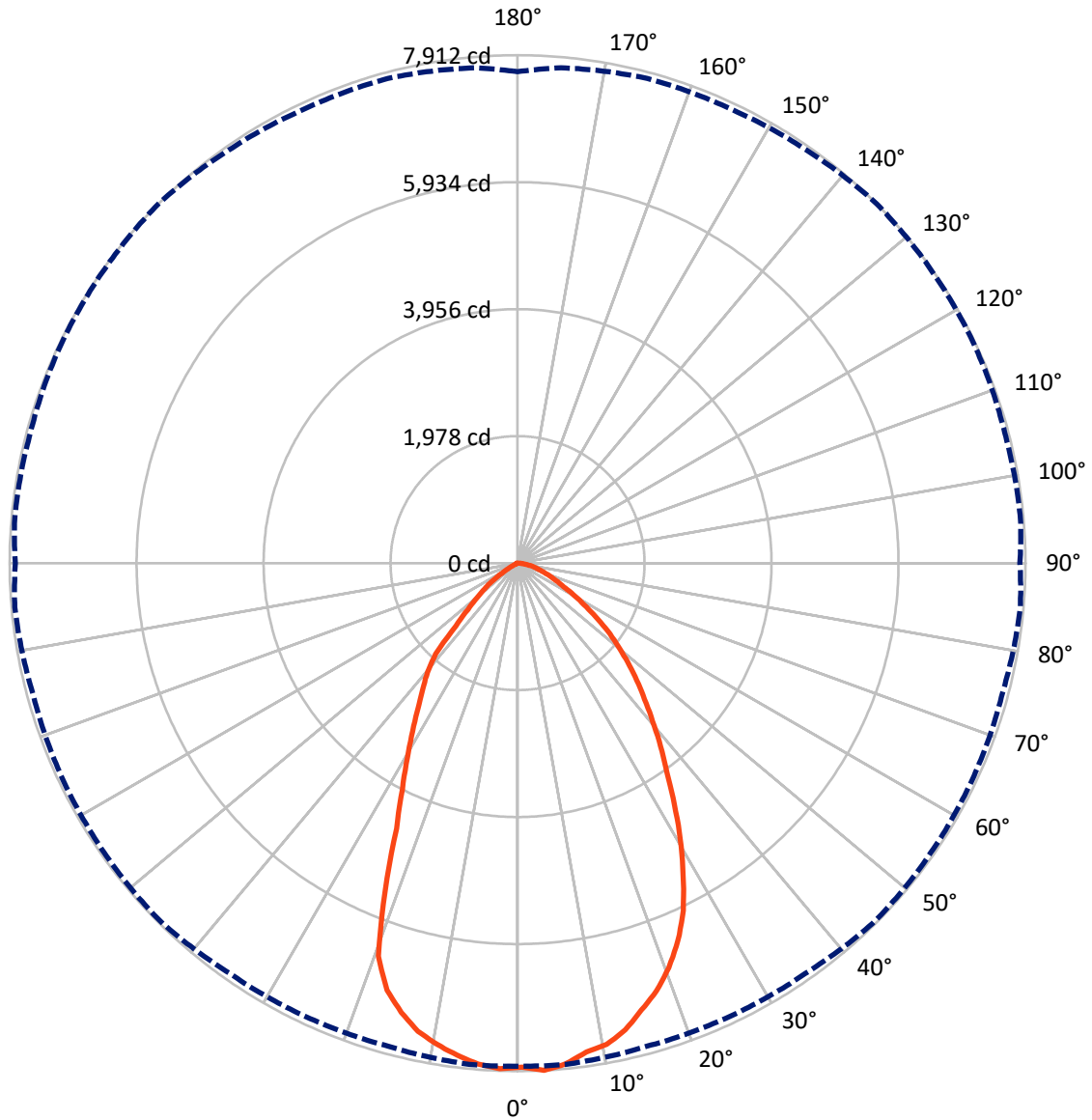
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.6 fc
 Type I - Short - N/A

REPORT NUMBER: P636715
CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636715
 CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

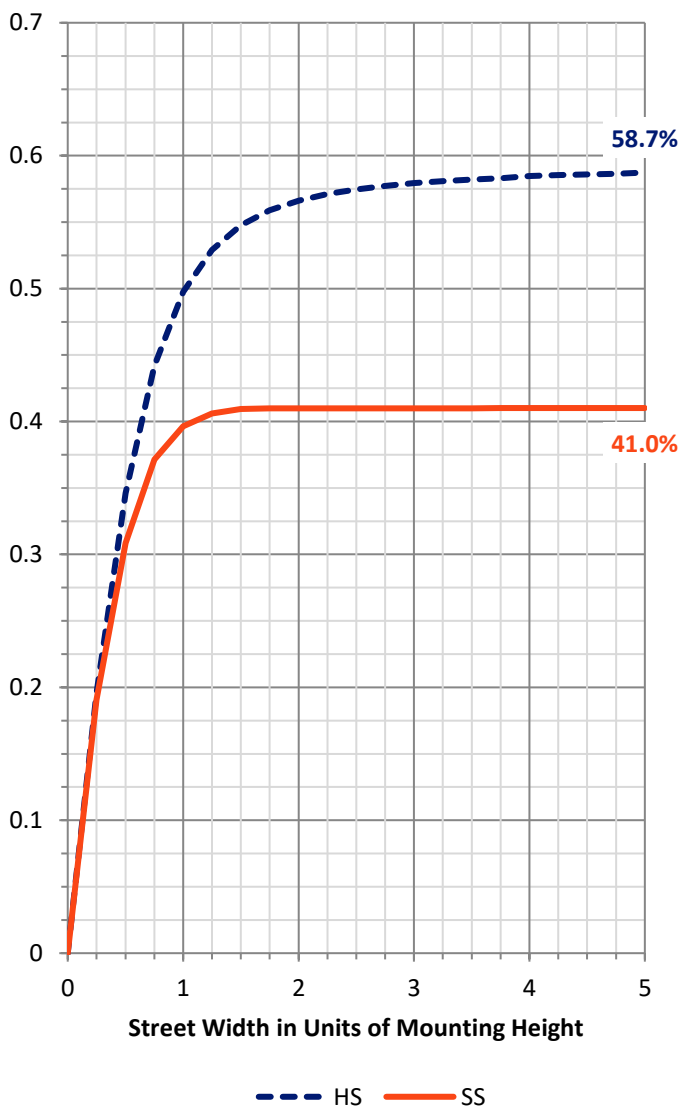
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6109.1	0.0	6109.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4205.9	0.0	4205.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	10315.0	0.0	10315.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.2	7.1
10°-20°	1974.1	19.1
20°-30°	2407.5	23.3
30°-40°	2198.0	21.3
40°-50°	1588.5	15.4
50°-60°	867.3	8.4
60°-70°	358.6	3.5
70°-80°	145.2	1.4
80°-90°	39.5	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°	10315.0	100.0
0°-180°	10315.0	100.0



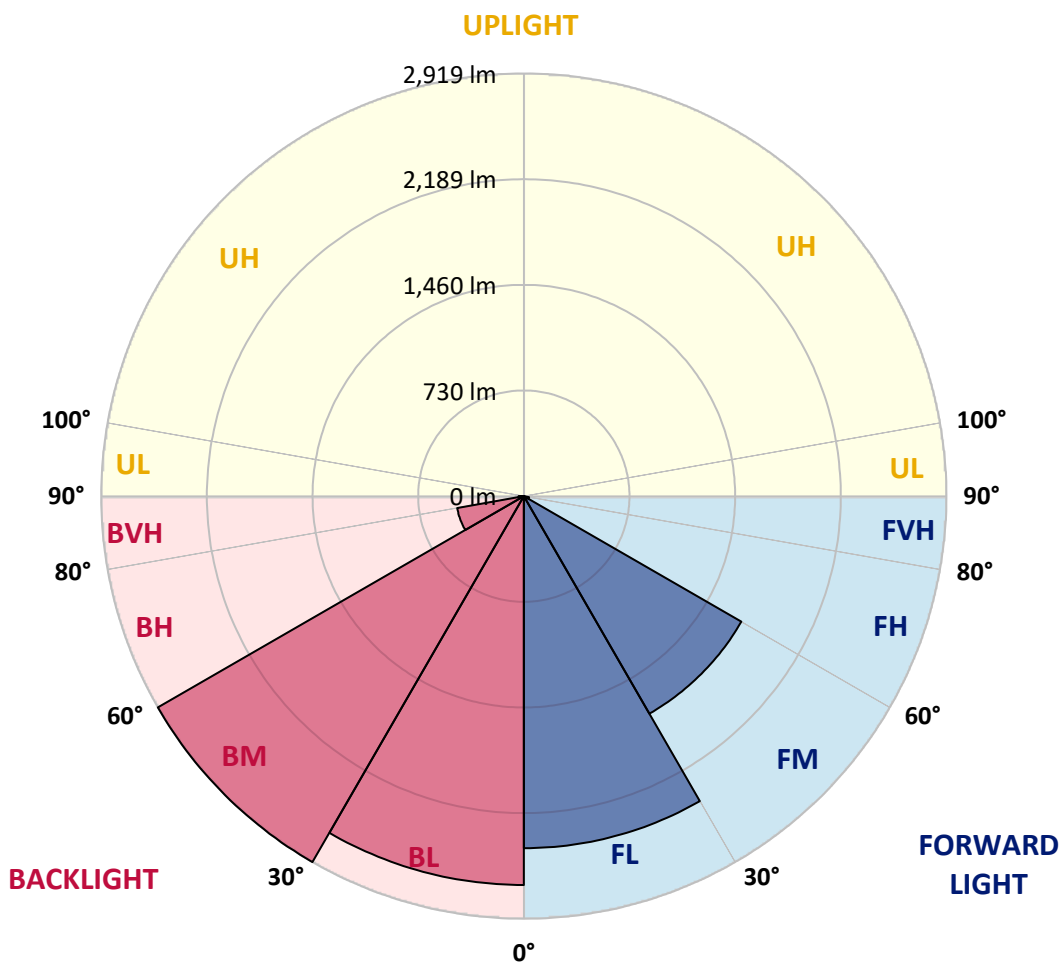
REPORT NUMBER: P636715
 CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.6	23.6			
FM (30°-60°)	1734.8	16.8			
FH (60°-80°)	36.4	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2686.2	26.0	B4/5000		
BM (30°-60°)	2919.1	28.3	B3/5000		
BH (60°-80°)	467.5	4.5	B1/500		G1/500
BVH (80°-90°)	36.3	0.4			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: P636715
 CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7
2.5°	7835.2	7845.3	7790.1	7795.9	7806.1	7880.2	7861.3	7843.9	7819.2	7861.3
5°	7825.0	7830.8	7772.7	7752.4	7761.1	7827.9	7766.9	7766.9	7761.1	7753.8
7.5°	7746.6	7749.5	7704.4	7668.1	7691.4	7721.9	7676.8	7698.6	7666.7	7691.4
10°	7628.9	7610.0	7556.3	7546.1	7572.2	7601.3	7570.8	7591.1	7562.1	7581.0
12.5°	7456.0	7427.0	7383.4	7370.3	7415.4	7454.6	7429.9	7418.3	7380.5	7427.0
15°	6789.3	6767.5	6866.3	7039.1	7194.6	7228.0	7201.8	7213.5	7135.0	7148.1
17.5°	5588.0	5547.4	5653.4	6063.0	6647.0	6954.9	6931.7	6856.1	6739.9	6766.1
20°	5078.2	5066.6	5054.9	5152.3	5560.4	6494.4	6526.4	6334.7	6169.1	6132.7
22.5°	4790.6	4786.2	4774.6	4796.4	4903.9	5503.8	5869.8	5692.6	5582.2	5572.1
25°	4527.7	4520.4	4485.5	4513.1	4513.1	4548.0	5017.2	5124.7	5027.3	5015.7
27.5°	4260.4	4247.3	4241.5	4254.6	4187.8	3952.4	4071.6	4595.9	4545.1	4548.0
30°	3971.3	3967.0	3951.0	3978.6	3772.3	3480.4	3404.8	4116.6	4126.7	4123.8
32.5°	3541.4	3560.2	3632.9	3663.4	3323.5	3082.4	2956.0	3561.7	3769.4	3765.1
35°	2572.5	2572.5	2809.3	3249.4	2912.4	2730.8	2662.6	3019.9	3416.4	3431.0
37.5°	2114.9	2122.2	2168.7	2369.1	2512.9	2449.0	2428.7	2542.0	2963.2	2986.5
40°	1902.9	1902.9	1902.9	1820.1	1815.7	2206.5	2194.8	2158.5	2559.4	2610.3
42.5°	1709.7	1714.0	1716.9	1507.8	1391.6	1907.2	1881.1	1825.9	2197.7	2257.3
45°	1510.7	1517.9	1526.7	1260.8	1210.0	1372.7	1592.0	1531.0	1840.4	1917.4
47.5°	922.4	934.0	1131.6	1069.1	1074.9	1058.9	1298.6	1288.4	1509.2	1618.2
50°	623.2	627.5	646.4	678.3	922.4	832.3	919.5	1066.2	1146.1	1311.7
52.5°	522.9	530.2	483.7	440.1	605.7	650.8	642.0	791.7	823.6	1028.4
55°	367.5	390.7	369.0	364.6	344.3	505.5	486.6	608.6	629.0	781.5
57.5°	37.8	43.6	75.5	271.6	225.1	286.2	347.2	445.9	466.3	576.7
60°	2.9	2.9	7.3	37.8	164.1	171.4	239.7	274.5	313.8	402.4
62.5°	0.0	1.5	2.9	5.8	26.1	91.5	120.6	143.8	188.8	260.0
65°	0.0	0.0	1.5	4.4	5.8	34.9	46.5	75.5	103.1	161.2
67.5°	0.0	0.0	1.5	2.9	4.4	8.7	16.0	27.6	55.2	91.5
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.6	17.4	24.7	49.4
72.5°	0.0	0.0	1.5	1.5	2.9	7.3	8.7	11.6	17.4	24.7
75°	0.0	0.0	1.5	1.5	4.4	8.7	7.3	8.7	11.6	16.0
77.5°	0.0	0.0	1.5	2.9	4.4	8.7	7.3	8.7	8.7	10.2
80°	0.0	0.0	1.5	2.9	5.8	10.2	8.7	8.7	7.3	7.3
82.5°	0.0	0.0	1.5	4.4	5.8	13.1	13.1	11.6	5.8	4.4
85°	0.0	0.0	2.9	5.8	8.7	14.5	14.5	11.6	4.4	2.9
87.5°	0.0	0.0	2.9	4.4	7.3	10.2	14.5	11.6	4.4	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: P636715
 CATALOG NUMBER: IFLD-S-SA3C-927-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7849.7	0°	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7	7849.7
7825.0	2.5°	7864.2	7855.5	7884.5	7896.2	7912.1	7851.1	7813.4	7814.8	7745.1
7736.4	5°	7782.9	7784.3	7822.1	7819.2	7835.2	7801.7	7787.2	7762.5	7701.5
7624.5	7.5°	7679.7	7666.7	7703.0	7730.6	7689.9	7713.1	7679.7	7691.4	7655.0
7525.8	10°	7599.8	7569.3	7602.7	7621.6	7623.1	7599.8	7567.9	7537.4	7524.3
7371.8	12.5°	7422.6	7383.4	7440.1	7466.2	7461.8	7416.8	7380.5	7387.8	7345.6
7101.6	15°	7178.6	7180.0	7220.7	7245.4	7222.2	7212.0	7214.9	7197.5	7161.2
6728.3	17.5°	6805.3	6827.1	6934.6	6994.1	7007.2	6986.9	6976.7	6956.4	6920.0
6132.7	20°	6183.6	6314.3	6506.1	6690.5	6726.8	6721.0	6684.7	6676.0	6655.7
5543.0	22.5°	5637.4	5734.7	5957.0	6244.6	6392.8	6407.3	6363.7	6350.6	6328.8
5015.7	25°	5072.4	5177.0	5377.4	5689.7	5996.2	6058.7	6051.4	6012.2	5988.9
4548.0	27.5°	4595.9	4700.5	4882.1	5163.9	5492.2	5692.6	5711.5	5649.0	5647.6
4131.1	30°	4166.0	4309.8	4447.8	4677.3	4995.4	5296.1	5328.0	5284.4	5288.8
3749.1	32.5°	3829.0	3948.1	4065.7	4219.7	4484.1	4834.1	4959.1	4918.4	4902.4
3431.0	35°	3484.7	3566.1	3686.6	3827.5	4007.6	4354.8	4571.2	4540.7	4524.8
3001.0	37.5°	3092.5	3232.0	3319.1	3477.5	3618.3	3894.3	4199.4	4195.0	4161.6
2635.0	40°	2690.2	2836.9	2969.1	3128.8	3237.8	3457.1	3795.6	3794.1	3798.5
2255.8	42.5°	2325.6	2460.7	2620.4	2794.7	2899.3	3059.1	3422.3	3442.6	3467.3
1943.5	45°	1995.8	2117.8	2266.0	2478.1	2604.5	2696.0	3018.4	3111.4	3110.0
1664.6	47.5°	1699.5	1814.3	1939.2	2145.4	2306.7	2389.5	2656.7	2788.9	2780.2
1365.4	50°	1426.4	1528.1	1658.8	1808.4	2024.9	2097.5	2296.5	2470.8	2457.7
1088.0	52.5°	1147.5	1288.4	1398.8	1535.4	1763.4	1834.6	1988.6	2158.5	2148.3
816.3	55°	894.8	1031.3	1165.0	1282.6	1474.4	1580.4	1690.8	1865.1	1862.2
639.1	57.5°	676.9	826.5	952.9	1064.7	1217.3	1348.0	1436.6	1594.9	1615.3
437.2	60°	501.1	615.9	752.4	877.4	997.9	1133.0	1192.6	1348.0	1356.7
299.2	62.5°	341.4	467.7	601.4	714.7	804.7	944.2	997.9	1125.7	1141.7
191.7	65°	236.8	318.1	470.6	552.0	662.4	781.5	835.2	936.9	968.9
110.4	67.5°	156.9	226.6	367.5	441.6	550.5	631.9	700.1	782.9	817.8
69.7	70°	85.7	167.0	262.9	348.6	443.0	521.5	588.3	655.1	685.6
32.0	72.5°	58.1	111.8	183.0	276.0	357.3	434.3	493.9	543.3	544.7
18.9	75°	29.1	75.5	139.4	213.5	278.9	354.4	408.2	437.2	402.4
11.6	77.5°	17.4	55.2	113.3	171.4	226.6	286.2	316.7	332.6	276.0
8.7	80°	10.2	39.2	88.6	136.5	156.9	210.6	239.7	244.0	184.5
5.8	82.5°	7.3	29.1	69.7	100.2	95.9	148.2	180.1	174.3	117.7
4.4	85°	4.4	20.3	43.6	62.5	58.1	97.3	104.6	107.5	68.3
2.9	87.5°	2.9	11.6	23.2	33.4	27.6	42.1	42.1	50.8	33.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7849.7
7655.0
7687.0
7594.0
7466.2
7309.3
7124.9
6904.1
6609.2
6323.0
5964.2
5644.7
5267.0
4903.9
4503.0
4189.2
3798.5
3454.2
3112.9
2783.1
2469.4
2170.1
1869.5
1606.5
1369.8
1144.6
961.6
813.4
674.0
531.6
376.2
265.8
172.9
108.9
62.5
29.1
0.0

(END OF REPORT)