

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: P636712

Luminaire Tested: **IFLD-S-SA2E-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636712
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8813.8 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

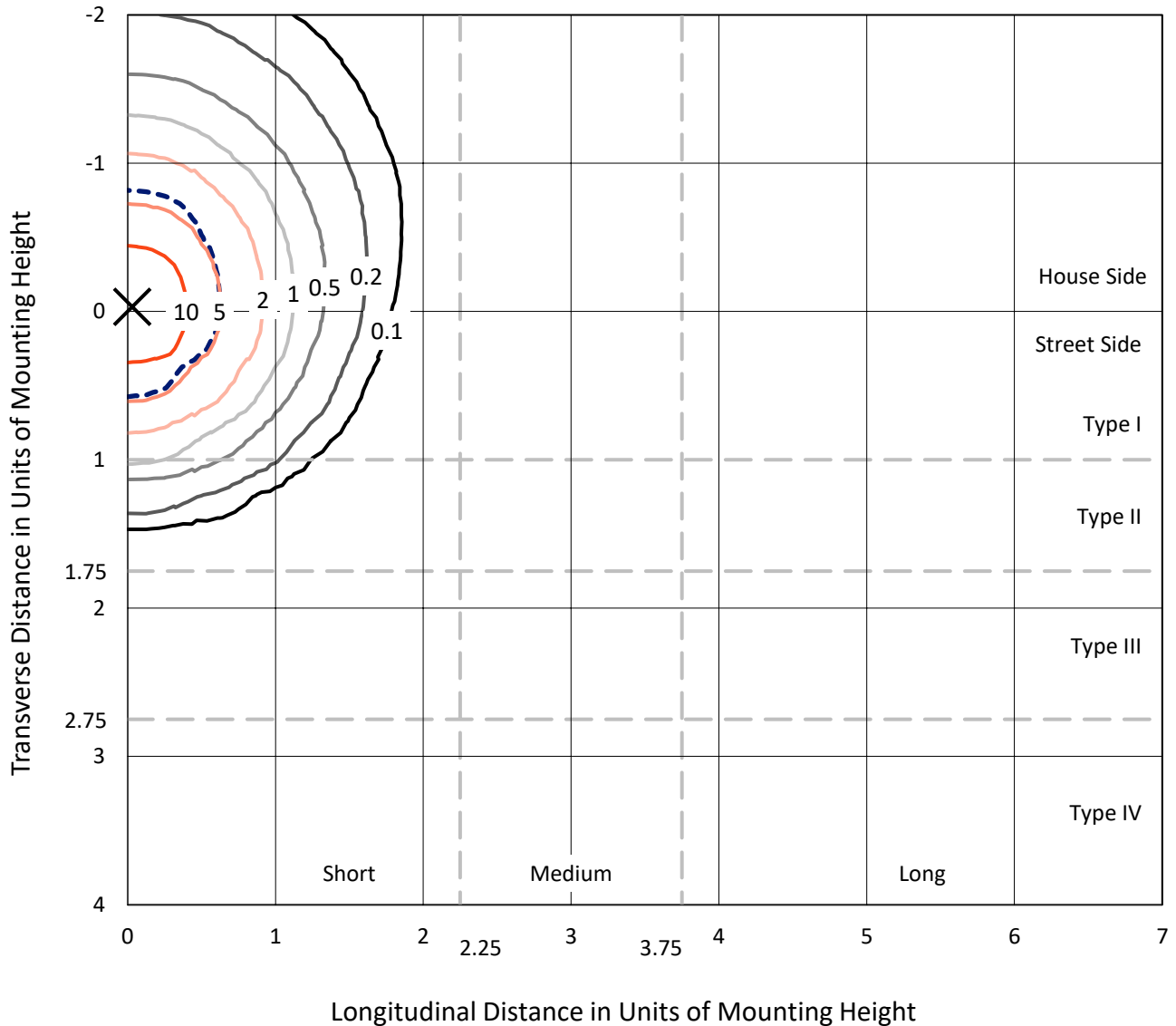
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636712
 CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

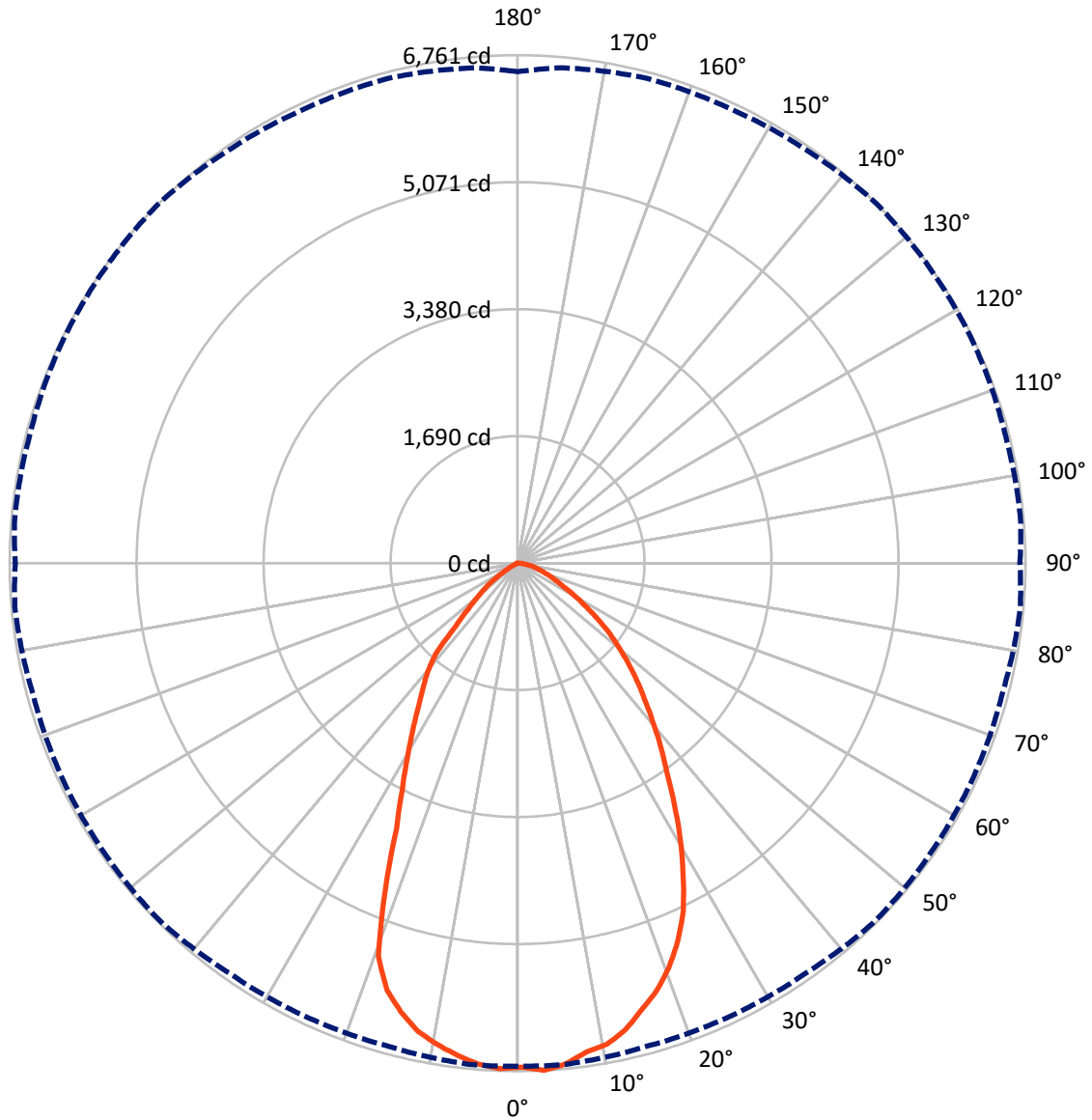
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.8 fc
 Type I - Short - N/A

REPORT NUMBER: P636712
CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636712

CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5220.0	0.0	5220.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3593.8	0.0	3593.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	8813.8	0.0	8813.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.0	7.1
10°-20°	1686.8	19.1
20°-30°	2057.2	23.3
30°-40°	1878.2	21.3
40°-50°	1357.3	15.4
50°-60°	741.1	8.4
60°-70°	306.4	3.5
70°-80°	124.1	1.4
80°-90°	33.8	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°	8813.8	100.0
0°-180°	8813.8	100.0



REPORT NUMBER: P636712

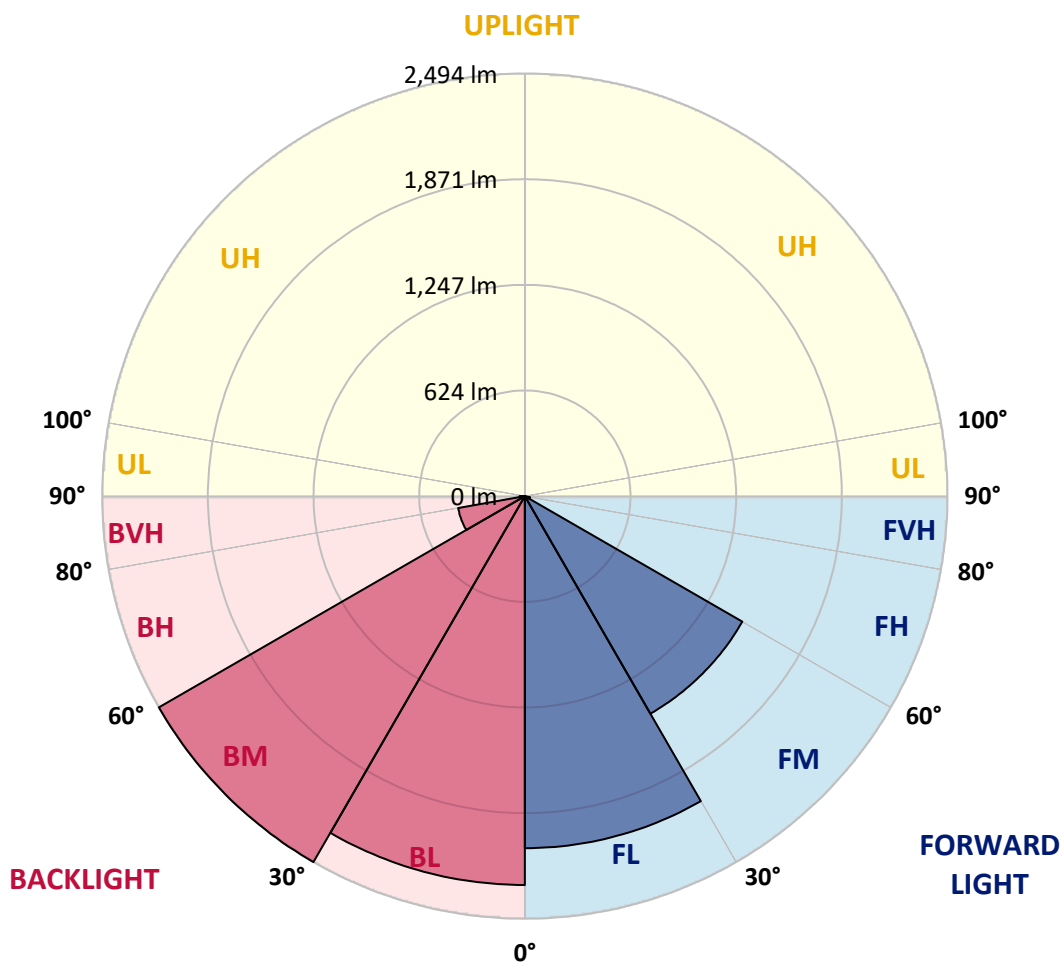
CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2077.8	23.6			
FM (30°-60°)	1482.3	16.8			
FH (60°-80°)	31.0	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2295.3	26.0	B3/2500		
BM (30°-60°)	2494.2	28.3	B2/2500		
BH (60°-80°)	399.5	4.5	B1/500		G1/500
BVH (80°-90°)	31.0	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: P636712
 CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3
2.5°	6694.9	6703.6	6656.4	6661.4	6670.1	6733.4	6717.2	6702.4	6681.3	6717.2
5°	6686.2	6691.2	6641.5	6624.2	6631.6	6688.7	6636.6	6636.6	6631.6	6625.4
7.5°	6619.2	6621.7	6583.2	6552.2	6572.0	6598.1	6559.6	6578.2	6550.9	6572.0
10°	6518.7	6502.5	6456.6	6447.9	6470.3	6495.1	6469.0	6486.4	6461.6	6477.7
12.5°	6371.0	6346.1	6308.9	6297.7	6336.2	6369.7	6348.6	6338.7	6306.4	6346.1
15°	5801.3	5782.6	5867.0	6014.7	6147.5	6176.1	6153.8	6163.7	6096.7	6107.8
17.5°	4774.8	4740.1	4830.7	5180.7	5679.6	5942.8	5922.9	5858.4	5759.1	5781.4
20°	4339.2	4329.2	4319.3	4402.5	4751.2	5549.3	5576.6	5412.8	5271.3	5240.2
22.5°	4093.4	4089.7	4079.7	4098.4	4190.2	4702.8	5015.6	4864.2	4769.8	4761.2
25°	3868.7	3862.5	3832.8	3856.3	3856.3	3886.1	4287.0	4378.9	4295.7	4285.8
27.5°	3640.4	3629.2	3624.2	3635.4	3578.3	3377.2	3479.0	3927.1	3883.6	3886.1
30°	3393.4	3389.7	3376.0	3399.6	3223.3	2973.9	2909.3	3517.5	3526.2	3523.7
32.5°	3026.0	3042.1	3104.2	3130.2	2839.8	2633.8	2525.8	3043.4	3220.9	3217.1
35°	2198.1	2198.1	2400.4	2776.5	2488.6	2333.4	2275.1	2580.4	2919.2	2931.7
37.5°	1807.2	1813.4	1853.1	2024.4	2147.2	2092.6	2075.2	2172.1	2532.0	2551.9
40°	1625.9	1625.9	1625.9	1555.2	1551.5	1885.3	1875.4	1844.4	2187.0	2230.4
42.5°	1460.9	1464.6	1467.1	1288.3	1189.0	1629.7	1607.3	1560.2	1877.9	1928.8
45°	1290.8	1297.0	1304.5	1077.3	1033.9	1172.9	1360.3	1308.2	1572.6	1638.4
47.5°	788.1	798.1	966.9	913.5	918.5	904.8	1109.6	1100.9	1289.6	1382.7
50°	532.5	536.2	552.3	579.6	788.1	711.2	785.7	911.0	979.3	1120.8
52.5°	446.8	453.0	413.3	376.1	517.6	556.0	548.6	676.4	703.7	878.8
55°	314.0	333.9	315.3	311.5	294.2	431.9	415.8	520.1	537.4	667.8
57.5°	32.3	37.2	64.5	232.1	192.4	244.5	296.6	381.0	398.4	492.7
60°	2.5	2.5	6.2	32.3	140.3	146.5	204.8	234.6	268.1	343.8
62.5°	0.0	1.2	2.5	5.0	22.3	78.2	103.0	122.9	161.4	222.2
65°	0.0	0.0	1.2	3.7	5.0	29.8	39.7	64.5	88.1	137.8
67.5°	0.0	0.0	1.2	2.5	3.7	7.4	13.7	23.6	47.2	78.2
70°	0.0	0.0	1.2	2.5	3.7	6.2	9.9	14.9	21.1	42.2
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	7.4	9.9	14.9	21.1
75°	0.0	0.0	1.2	1.2	3.7	7.4	6.2	7.4	9.9	13.7
77.5°	0.0	0.0	1.2	2.5	3.7	7.4	6.2	7.4	7.4	8.7
80°	0.0	0.0	1.2	2.5	5.0	8.7	7.4	7.4	6.2	6.2
82.5°	0.0	0.0	1.2	3.7	5.0	11.2	11.2	9.9	5.0	3.7
85°	0.0	0.0	2.5	5.0	7.4	12.4	12.4	9.9	3.7	2.5
87.5°	0.0	0.0	2.5	3.7	6.2	8.7	12.4	9.9	3.7	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636712
 CATALOG NUMBER: IFLD-S-SA2E-927-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6707.3	0°	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3	6707.3
6686.2	2.5°	6719.7	6712.3	6737.1	6747.0	6760.7	6708.6	6676.3	6677.5	6618.0
6610.5	5°	6650.2	6651.5	6683.7	6681.3	6694.9	6666.4	6653.9	6632.8	6580.7
6514.9	7.5°	6562.1	6550.9	6582.0	6605.5	6570.8	6590.6	6562.1	6572.0	6541.0
6430.5	10°	6493.8	6467.8	6496.3	6512.5	6513.7	6493.8	6466.5	6440.5	6429.3
6299.0	12.5°	6342.4	6308.9	6357.3	6379.6	6375.9	6337.4	6306.4	6312.6	6276.6
6068.1	15°	6133.9	6135.1	6169.9	6191.0	6171.1	6162.4	6164.9	6150.0	6119.0
5749.1	17.5°	5814.9	5833.5	5925.4	5976.3	5987.4	5970.1	5961.4	5944.0	5913.0
5240.2	20°	5283.7	5395.4	5559.2	5716.9	5747.9	5742.9	5711.9	5704.4	5687.1
4736.3	22.5°	4817.0	4900.2	5090.1	5335.8	5462.4	5474.8	5437.6	5426.4	5407.8
4285.8	25°	4334.2	4423.6	4594.8	4861.7	5123.6	5176.9	5170.7	5137.2	5117.4
3886.1	27.5°	3927.1	4016.4	4171.6	4412.4	4692.9	4864.2	4880.3	4826.9	4825.7
3529.9	30°	3559.7	3682.6	3800.5	3996.6	4268.4	4525.3	4552.6	4515.4	4519.1
3203.5	32.5°	3271.7	3373.5	3474.1	3605.6	3831.5	4130.6	4237.4	4202.6	4189.0
2931.7	35°	2977.6	3047.1	3150.1	3270.5	3424.4	3721.0	3906.0	3879.9	3866.3
2564.3	37.5°	2642.5	2761.6	2836.1	2971.4	3091.8	3327.6	3588.2	3584.5	3556.0
2251.5	40°	2298.7	2424.0	2537.0	2673.5	2766.6	2954.0	3243.2	3242.0	3245.7
1927.5	42.5°	1987.1	2102.6	2239.1	2388.0	2477.4	2613.9	2924.2	2941.6	2962.7
1660.7	45°	1705.4	1809.6	1936.2	2117.4	2225.4	2303.6	2579.2	2658.6	2657.4
1422.4	47.5°	1452.2	1550.2	1657.0	1833.2	1971.0	2041.7	2270.1	2383.1	2375.6
1166.7	50°	1218.8	1305.7	1417.4	1545.3	1730.2	1792.3	1962.3	2111.2	2100.1
929.6	52.5°	980.5	1100.9	1195.3	1311.9	1506.8	1567.6	1699.2	1844.4	1835.7
697.5	55°	764.6	881.2	995.4	1096.0	1259.8	1350.4	1444.7	1593.7	1591.2
546.1	57.5°	578.4	706.2	814.2	909.8	1040.1	1151.8	1227.5	1362.8	1380.2
373.6	60°	428.2	526.3	642.9	749.7	852.7	968.1	1019.0	1151.8	1159.3
255.7	62.5°	291.7	399.7	513.8	610.7	687.6	806.8	852.7	961.9	975.6
163.8	65°	202.3	271.8	402.1	471.6	566.0	667.8	713.7	800.6	827.9
94.3	67.5°	134.0	193.6	314.0	377.3	470.4	539.9	598.2	669.0	698.8
59.6	70°	73.2	142.7	224.7	297.9	378.6	445.6	502.7	559.8	585.8
27.3	72.5°	49.6	95.6	156.4	235.8	305.3	371.1	422.0	464.2	465.4
16.1	75°	24.8	64.5	119.2	182.5	238.3	302.8	348.8	373.6	343.8
9.9	77.5°	14.9	47.2	96.8	146.5	193.6	244.5	270.6	284.2	235.8
7.4	80°	8.7	33.5	75.7	116.7	134.0	180.0	204.8	208.5	157.6
5.0	82.5°	6.2	24.8	59.6	85.6	81.9	126.6	153.9	148.9	100.5
3.7	85°	3.7	17.4	37.2	53.4	49.6	83.2	89.4	91.8	58.3
2.5	87.5°	2.5	9.9	19.9	28.5	23.6	36.0	36.0	43.4	28.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6707.3
6541.0
6568.3
6488.9
6379.6
6245.6
6088.0
5899.3
5647.4
5402.8
5096.3
4823.2
4500.5
4190.2
3847.6
3579.6
3245.7
2951.5
2659.8
2378.1
2110.0
1854.3
1597.4
1372.7
1170.4
978.0
821.7
695.1
575.9
454.3
321.5
227.1
147.7
93.1
53.4
24.8
0.0

(END OF REPORT)