

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: P638075

Luminaire Tested: **IFLD-S-SA2E-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638075
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11642.7 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

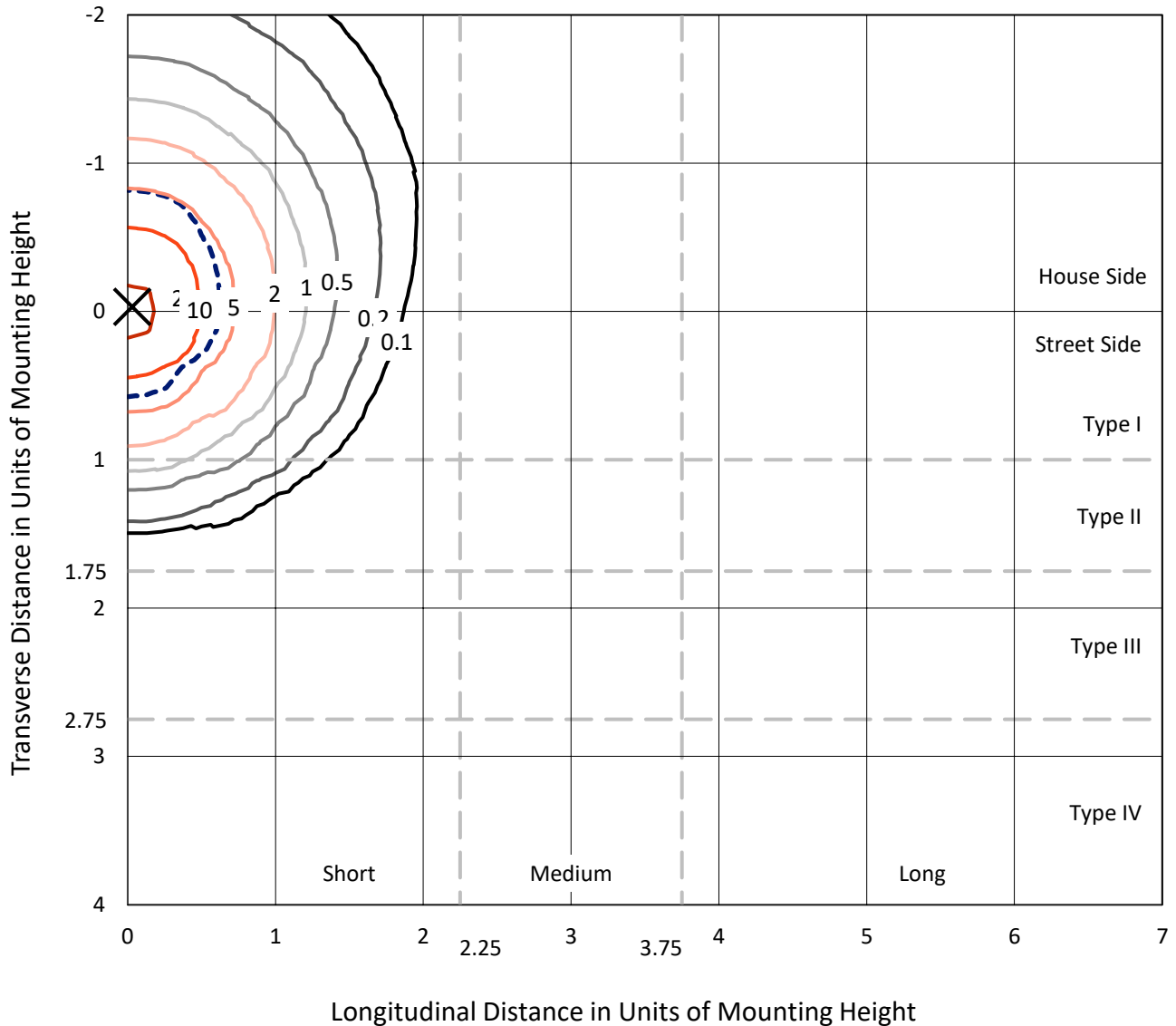
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

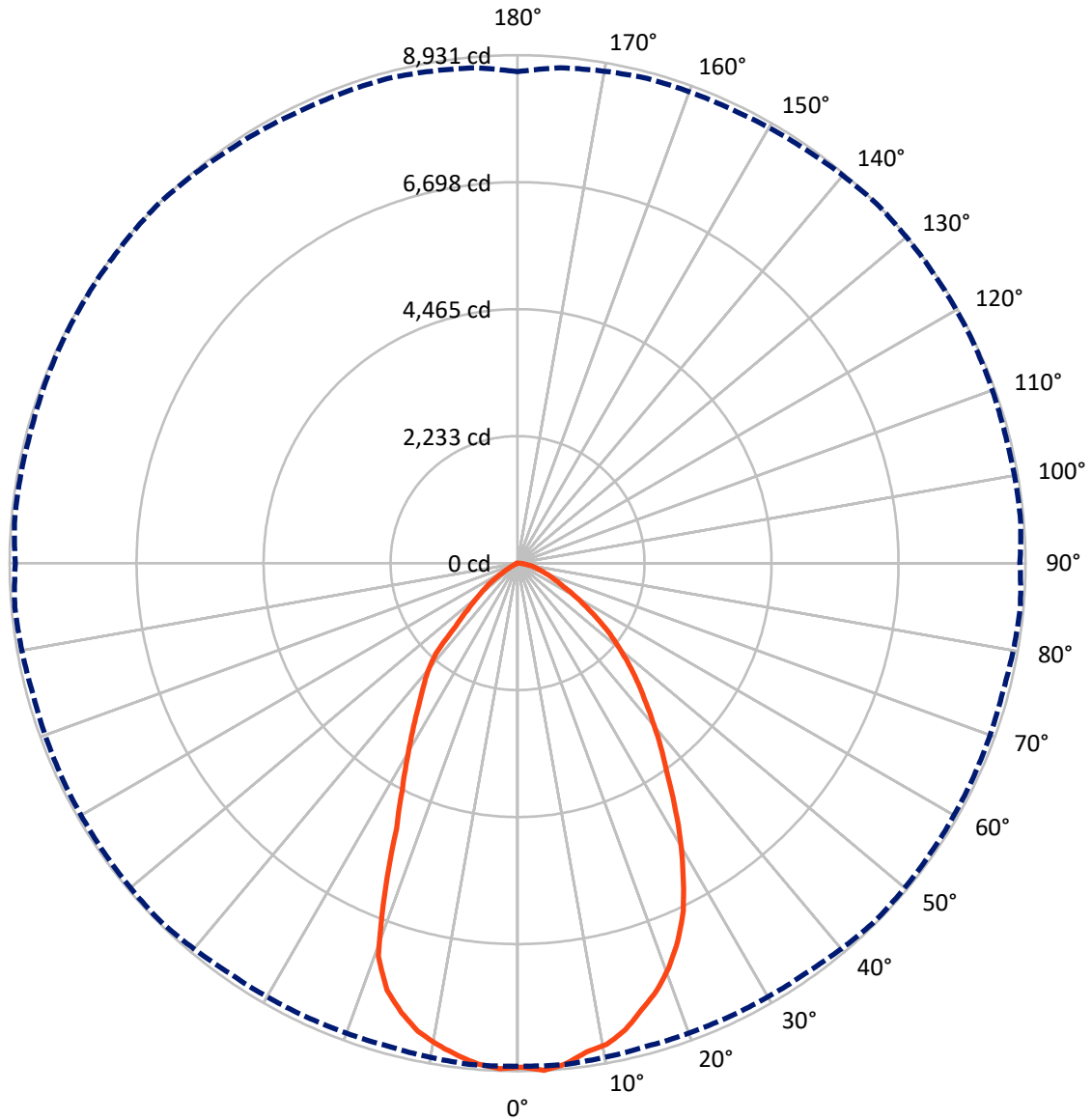
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6895.4	0.0	6895.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4747.3	0.0	4747.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	11642.7	0.0	11642.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.9	7.1
10°-20°	2228.2	19.1
20°-30°	2717.4	23.3
30°-40°	2481.0	21.3
40°-50°	1792.9	15.4
50°-60°	979.0	8.4
60°-70°	404.8	3.5
70°-80°	163.9	1.4
80°-90°	44.6	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°	11642.7	100.0
0°-180°	11642.7	100.0



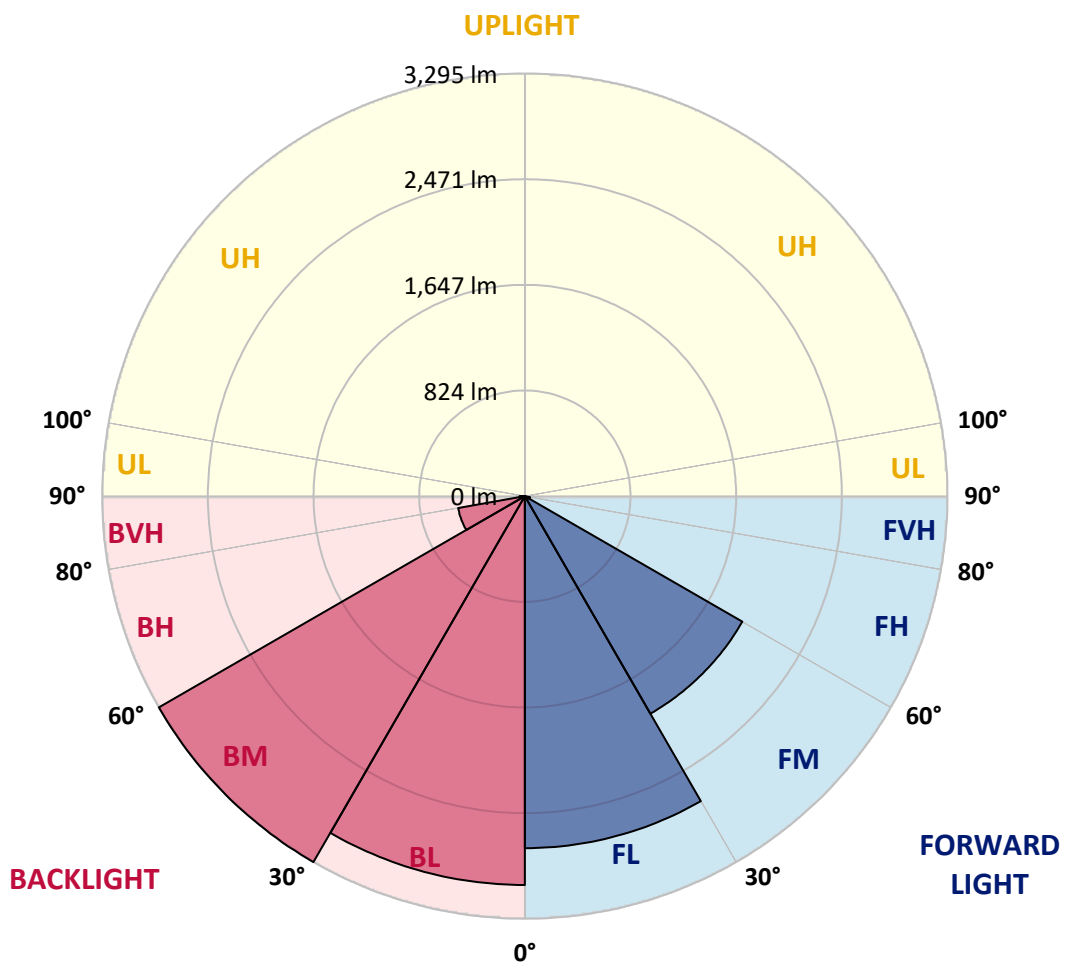
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.6	23.6			
FM (30°-60°)	1958.1	16.8			
FH (60°-80°)	41.0	0.4			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	3031.9	26.0	B4/5000		
BM (30°-60°)	3294.8	28.3	B3/5000		
BH (60°-80°)	527.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	41.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1
2.5°	8843.7	8855.2	8792.9	8799.4	8810.9	8894.5	8873.2	8853.5	8825.7	8873.2
5°	8832.2	8838.8	8773.2	8750.3	8760.1	8835.5	8766.6	8766.6	8760.1	8751.9
7.5°	8743.7	8747.0	8696.1	8655.2	8681.4	8715.8	8665.0	8689.6	8653.5	8681.4
10°	8610.9	8589.6	8528.9	8517.4	8546.9	8579.7	8545.3	8568.3	8535.5	8556.8
12.5°	8415.8	8383.0	8333.8	8319.1	8369.9	8414.1	8386.3	8373.2	8330.5	8383.0
15°	7663.2	7638.6	7750.1	7945.2	8120.7	8158.4	8128.9	8142.0	8053.4	8068.2
17.5°	6307.3	6261.4	6381.1	6843.5	7502.6	7850.1	7823.9	7738.7	7607.5	7637.0
20°	5731.9	5718.7	5705.6	5815.5	6276.2	7330.4	7366.5	7150.1	6963.1	6922.2
22.5°	5407.2	5402.3	5389.2	5413.8	5535.1	6212.2	6625.4	6425.4	6300.8	6289.3
25°	5110.5	5102.3	5062.9	5094.1	5094.1	5133.4	5663.0	5784.3	5674.5	5661.3
27.5°	4808.8	4794.0	4787.5	4802.2	4726.8	4461.2	4595.6	5187.5	5130.1	5133.4
30°	4482.5	4477.6	4459.6	4490.7	4257.9	3928.4	3843.1	4646.5	4657.9	4654.7
32.5°	3997.2	4018.5	4100.5	4134.9	3751.3	3479.1	3336.5	4020.2	4254.6	4249.7
35°	2903.6	2903.6	3170.9	3667.7	3287.3	3082.3	3005.3	3408.6	3856.2	3872.6
37.5°	2387.2	2395.4	2447.8	2674.1	2836.4	2764.3	2741.3	2869.2	3344.7	3370.9
40°	2147.8	2147.8	2147.8	2054.4	2049.4	2490.5	2477.4	2436.4	2888.9	2946.3
42.5°	1929.7	1934.7	1937.9	1701.8	1570.7	2152.7	2123.2	2060.9	2480.6	2547.9
45°	1705.1	1713.3	1723.2	1423.1	1365.7	1549.4	1796.9	1728.1	2077.3	2164.2
47.5°	1041.1	1054.2	1277.2	1206.7	1213.3	1195.2	1465.8	1454.3	1703.5	1826.5
50°	703.4	708.3	729.6	765.7	1041.1	939.5	1037.8	1203.4	1293.6	1480.5
52.5°	590.2	598.4	546.0	496.8	683.7	734.5	724.7	893.6	929.6	1160.8
55°	414.8	441.0	416.4	411.5	388.6	570.6	549.2	687.0	709.9	882.1
57.5°	42.6	49.2	85.3	306.6	254.1	323.0	391.9	503.3	526.3	650.9
60°	3.3	3.3	8.2	42.6	185.3	193.5	270.5	309.9	354.1	454.2
62.5°	0.0	1.6	3.3	6.6	29.5	103.3	136.1	162.3	213.1	293.5
65°	0.0	0.0	1.6	4.9	6.6	39.3	52.5	85.3	116.4	182.0
67.5°	0.0	0.0	1.6	3.3	4.9	9.8	18.0	31.2	62.3	103.3
70°	0.0	0.0	1.6	3.3	4.9	8.2	13.1	19.7	27.9	55.7
72.5°	0.0	0.0	1.6	1.6	3.3	8.2	9.8	13.1	19.7	27.9
75°	0.0	0.0	1.6	1.6	4.9	9.8	8.2	9.8	13.1	18.0
77.5°	0.0	0.0	1.6	3.3	4.9	9.8	8.2	9.8	9.8	11.5
80°	0.0	0.0	1.6	3.3	6.6	11.5	9.8	9.8	8.2	8.2
82.5°	0.0	0.0	1.6	4.9	6.6	14.8	14.8	13.1	6.6	4.9
85°	0.0	0.0	3.3	6.6	9.8	16.4	16.4	13.1	4.9	3.3
87.5°	0.0	0.0	3.3	4.9	8.2	11.5	16.4	13.1	4.9	1.6
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°
8860.1	0°	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1	8860.1
8832.2	2.5°	8876.5	8866.7	8899.5	8912.6	8930.6	8861.7	8819.1	8820.8	8742.1
8732.2	5°	8784.7	8786.3	8829.0	8825.7	8843.7	8806.0	8789.6	8761.7	8692.9
8606.0	7.5°	8668.3	8653.5	8694.5	8725.7	8679.8	8706.0	8668.3	8681.4	8640.4
8494.5	10°	8578.1	8543.7	8581.4	8602.7	8604.3	8578.1	8542.0	8507.6	8492.8
8320.7	12.5°	8378.1	8333.8	8397.8	8427.3	8422.3	8371.5	8330.5	8338.7	8291.2
8015.7	15°	8102.6	8104.3	8150.2	8178.1	8151.8	8140.3	8143.6	8123.9	8083.0
7594.4	17.5°	7681.3	7705.9	7827.2	7894.4	7909.2	7886.2	7874.7	7851.8	7810.8
6922.2	20°	6979.5	7127.1	7343.5	7551.7	7592.7	7586.2	7545.2	7535.4	7512.4
6256.5	22.5°	6363.1	6472.9	6723.8	7048.4	7215.6	7232.0	7182.8	7168.1	7143.5
5661.3	25°	5725.3	5843.3	6069.6	6422.1	6768.0	6838.5	6830.3	6786.1	6759.8
5133.4	27.5°	5187.5	5305.6	5510.5	5828.6	6199.1	6425.4	6446.7	6376.2	6374.6
4662.9	30°	4702.2	4864.5	5020.3	5279.3	5638.4	5977.8	6013.9	5964.7	5969.6
4231.7	32.5°	4321.8	4456.3	4589.1	4762.9	5061.3	5456.4	5597.4	5551.5	5533.5
3872.6	35°	3933.3	4025.1	4161.2	4320.2	4523.5	4915.4	5159.6	5125.2	5107.2
3387.3	37.5°	3490.6	3648.0	3746.4	3925.1	4084.1	4395.6	4739.9	4735.0	4697.3
2974.1	40°	3036.4	3202.0	3351.2	3531.6	3654.5	3902.1	4284.1	4282.5	4287.4
2546.2	42.5°	2624.9	2777.4	2957.7	3154.5	3272.5	3452.9	3862.8	3885.7	3913.6
2193.7	45°	2252.7	2390.5	2557.7	2797.1	2939.7	3043.0	3407.0	3511.9	3510.3
1878.9	47.5°	1918.3	2047.8	2188.8	2421.6	2603.6	2697.1	2998.7	3147.9	3138.1
1541.2	50°	1610.0	1724.8	1872.4	2041.2	2285.5	2367.5	2592.1	2788.9	2774.1
1228.0	52.5°	1295.2	1454.3	1578.9	1733.0	1990.4	2070.7	2244.5	2436.4	2424.9
921.4	55°	1010.0	1164.1	1314.9	1447.7	1664.1	1783.8	1908.4	2105.2	2101.9
721.4	57.5°	764.0	932.9	1075.5	1201.8	1373.9	1521.5	1621.5	1800.2	1823.2
493.5	60°	565.6	695.2	849.3	990.3	1126.4	1278.8	1346.1	1521.5	1531.3
337.7	62.5°	385.3	527.9	678.8	806.7	908.3	1065.7	1126.4	1270.6	1288.7
216.4	65°	267.2	359.1	531.2	623.0	747.6	882.1	942.7	1057.5	1093.6
124.6	67.5°	177.1	255.8	414.8	498.4	621.4	713.2	790.3	883.7	923.1
78.7	70°	96.7	188.5	296.8	393.5	500.1	588.6	664.0	739.4	773.9
36.1	72.5°	65.6	126.2	206.6	311.5	403.3	490.2	557.4	613.2	614.8
21.3	75°	32.8	85.3	157.4	241.0	314.8	400.0	460.7	493.5	454.2
13.1	77.5°	19.7	62.3	127.9	193.5	255.8	323.0	357.4	375.5	311.5
9.8	80°	11.5	44.3	100.0	154.1	177.1	237.7	270.5	275.4	208.2
6.6	82.5°	8.2	32.8	78.7	113.1	108.2	167.2	203.3	196.7	132.8
4.9	85°	4.9	23.0	49.2	70.5	65.6	109.8	118.0	121.3	77.1
3.3	87.5°	3.3	13.1	26.2	37.7	31.2	47.5	47.5	57.4	37.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8860.1
8640.4
8676.5
8571.5
8427.3
8250.2
8042.0
7792.8
7459.9
7136.9
6732.0
6371.3
5945.0
5535.1
5082.6
4728.4
4287.4
3898.8
3513.5
3141.4
2787.2
2449.5
2110.1
1813.3
1546.1
1292.0
1085.4
918.1
760.7
600.1
424.6
300.0
195.1
123.0
70.5
32.8
0.0

(END OF REPORT)