

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: P638078

Luminaire Tested: **IFLD-S-SA3C-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638078
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13625.7 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

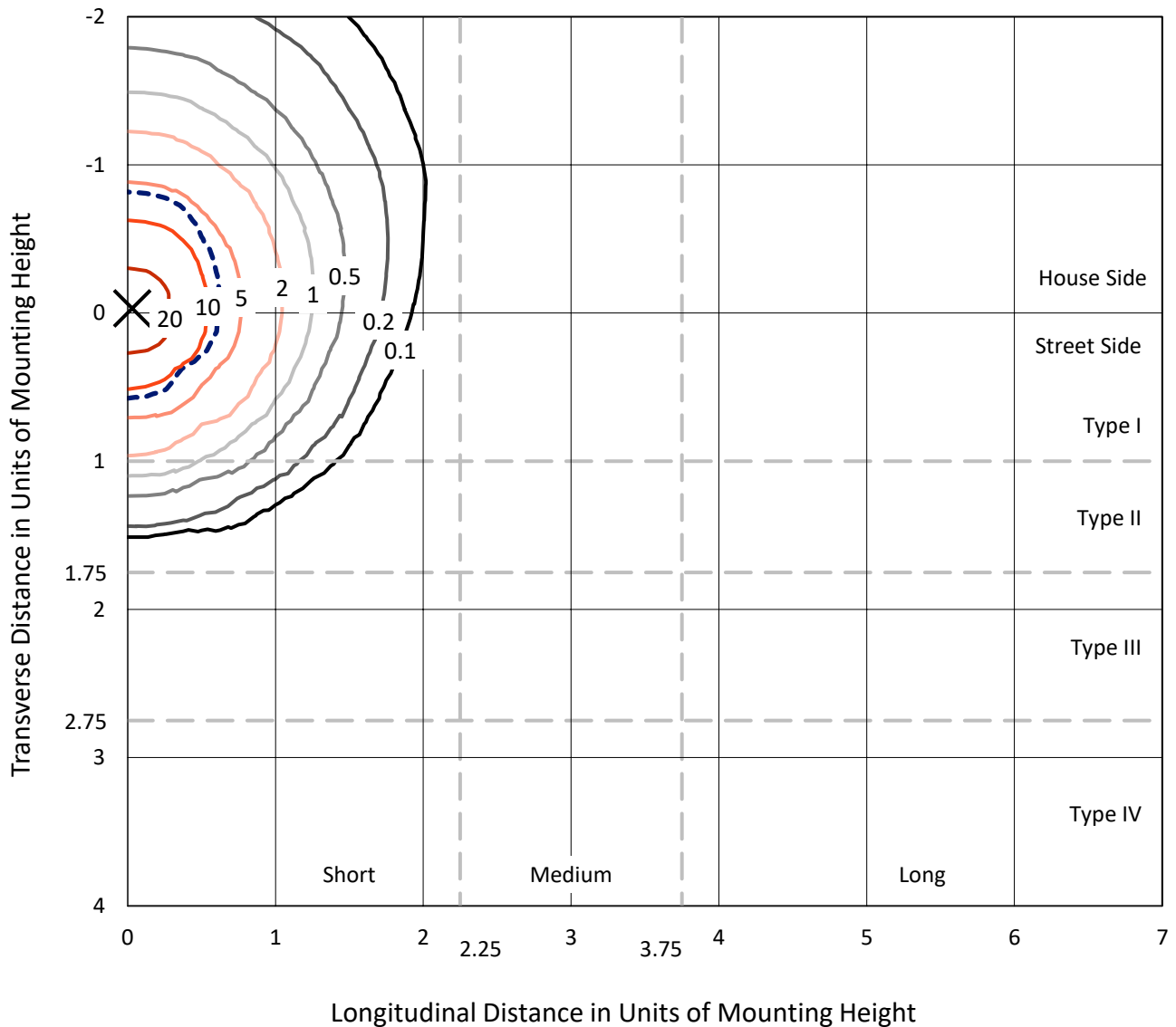
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638078
 CATALOG NUMBER: IFLD-S-SA3C-727-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

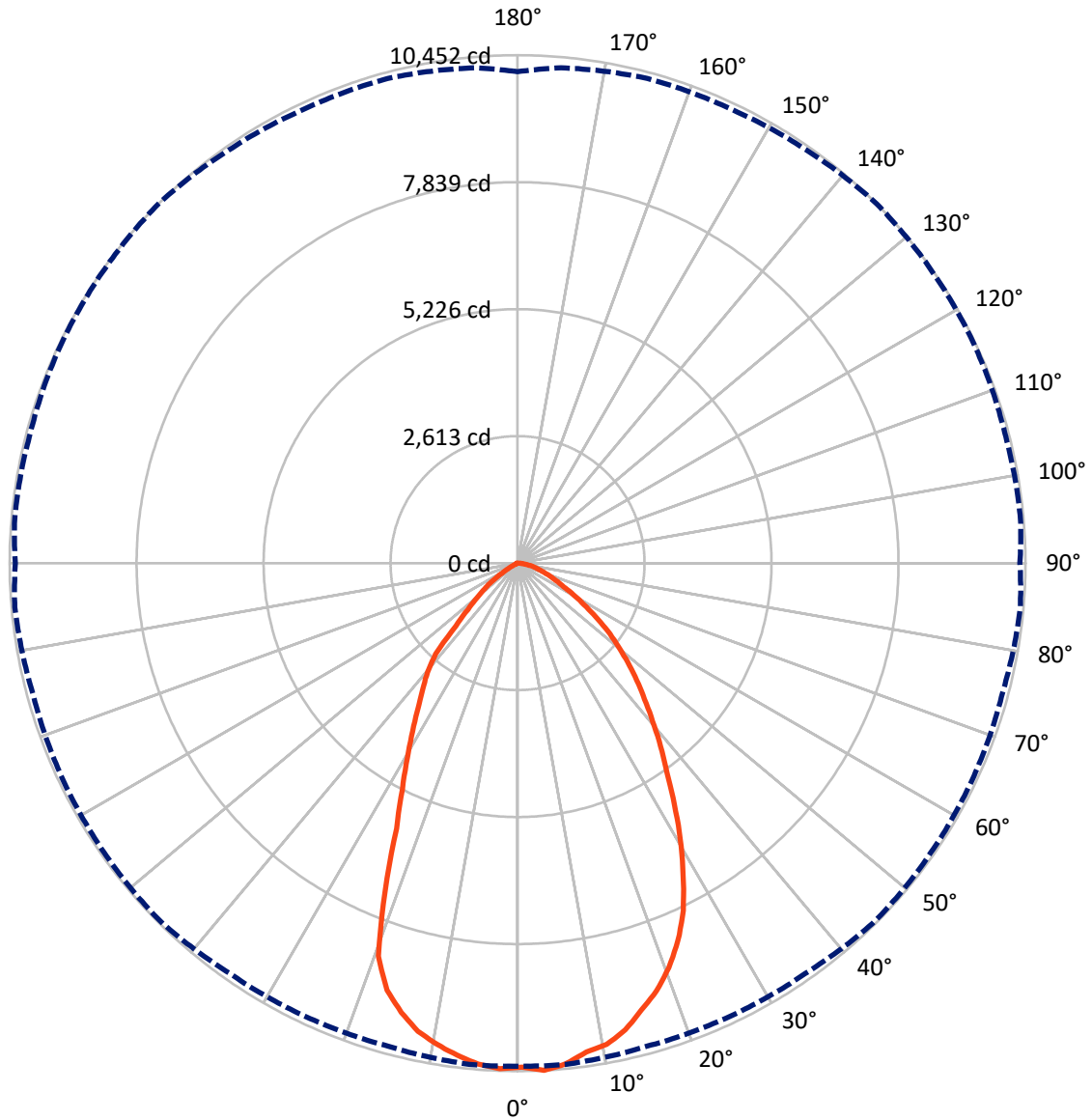
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638078
CATALOG NUMBER: IFLD-S-SA3C-727-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638078

CATALOG NUMBER: IFLD-S-SA3C-727-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8069.8	0.0	8069.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5555.9	0.0	5555.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	13625.7	0.0	13625.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.5	7.1
10°-20°	2607.7	19.1
20°-30°	3180.2	23.3
30°-40°	2903.5	21.3
40°-50°	2098.3	15.4
50°-60°	1145.7	8.4
60°-70°	473.7	3.5
70°-80°	191.9	1.4
80°-90°	52.2	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°	13625.7	100.0
0°-180°	13625.7	100.0



REPORT NUMBER: P638078

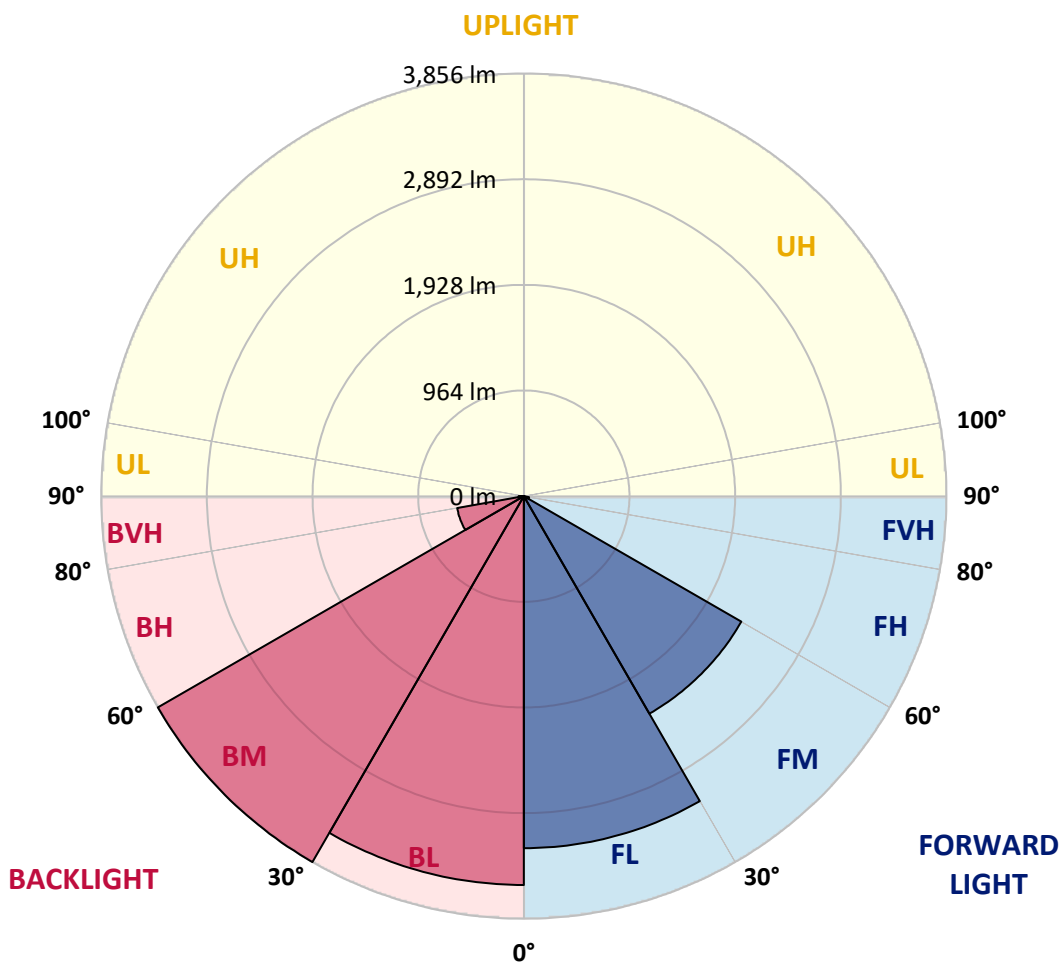
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3212.1	23.6			
FM (30°-60°)	2291.6	16.8			
FH (60°-80°)	48.0	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	3548.3	26.0	B4/5000		
BM (30°-60°)	3856.0	28.3	B3/5000		
BH (60°-80°)	617.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	48.0	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





REPORT NUMBER: P638078
 CATALOG NUMBER: IFLD-S-SA3C-727-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1
2.5°	10349.9	10363.4	10290.5	10298.1	10311.6	10409.4	10384.5	10361.4	10328.8	10384.5
5°	10336.5	10344.2	10267.4	10240.6	10252.1	10340.3	10259.7	10259.7	10252.1	10242.5
7.5°	10232.9	10236.7	10177.2	10129.3	10160.0	10200.3	10140.8	10169.6	10127.4	10160.0
10°	10077.5	10052.5	9981.5	9968.1	10002.6	10041.0	10000.7	10027.6	9989.2	10014.1
12.5°	9849.1	9810.8	9753.2	9735.9	9795.4	9847.2	9814.6	9799.2	9749.4	9810.8
15°	8968.4	8939.6	9070.1	9298.4	9503.7	9547.9	9513.3	9528.7	9425.1	9442.3
17.5°	7381.6	7327.8	7467.9	8009.0	8780.4	9187.1	9156.4	9056.7	8903.2	8937.7
20°	6708.1	6692.7	6677.4	6805.9	7345.1	8578.9	8621.1	8367.8	8149.1	8101.1
22.5°	6328.2	6322.4	6307.1	6335.8	6477.8	7270.3	7753.8	7519.7	7373.9	7360.5
25°	5980.9	5971.3	5925.2	5961.7	5961.7	6007.7	6627.5	6769.5	6640.9	6625.6
27.5°	5627.8	5610.5	5602.9	5620.1	5531.9	5221.0	5378.4	6071.0	6003.9	6007.7
30°	5246.0	5240.2	5219.1	5255.6	4983.1	4597.4	4497.6	5437.8	5451.3	5447.4
32.5°	4678.0	4702.9	4798.9	4839.2	4390.2	4071.7	3904.7	4704.9	4979.3	4973.5
35°	3398.2	3398.2	3710.9	4292.3	3847.2	3607.3	3517.1	3989.2	4513.0	4532.2
37.5°	2793.8	2803.3	2864.7	3129.5	3319.5	3235.1	3208.2	3357.9	3914.3	3945.0
40°	2513.6	2513.6	2513.6	2404.2	2398.5	2914.6	2899.3	2851.3	3380.9	3448.1
42.5°	2258.4	2264.2	2268.0	1991.7	1838.2	2519.4	2484.8	2411.9	2903.1	2981.8
45°	1995.5	2005.1	2016.6	1665.5	1598.3	1813.3	2103.0	2022.4	2431.1	2532.8
47.5°	1218.4	1233.8	1494.7	1412.2	1419.9	1398.8	1715.4	1702.0	1993.6	2137.5
50°	823.2	828.9	853.9	896.1	1218.4	1099.5	1214.6	1408.4	1513.9	1732.7
52.5°	690.8	700.4	639.0	581.4	800.1	859.6	848.1	1045.7	1088.0	1358.5
55°	485.5	516.2	487.4	481.6	454.8	667.7	642.8	804.0	830.8	1032.3
57.5°	49.9	57.6	99.8	358.8	297.4	378.0	458.6	589.1	615.9	761.8
60°	3.8	3.8	9.6	49.9	216.8	226.4	316.6	362.7	414.5	531.5
62.5°	0.0	1.9	3.8	7.7	34.5	120.9	159.3	190.0	249.4	343.5
65°	0.0	0.0	1.9	5.8	7.7	46.1	61.4	99.8	136.2	213.0
67.5°	0.0	0.0	1.9	3.8	5.8	11.5	21.1	36.5	72.9	120.9
70°	0.0	0.0	1.9	3.8	5.8	9.6	15.4	23.0	32.6	65.2
72.5°	0.0	0.0	1.9	1.9	3.8	9.6	11.5	15.4	23.0	32.6
75°	0.0	0.0	1.9	1.9	5.8	11.5	9.6	11.5	15.4	21.1
77.5°	0.0	0.0	1.9	3.8	5.8	11.5	9.6	11.5	11.5	13.4
80°	0.0	0.0	1.9	3.8	7.7	13.4	11.5	11.5	9.6	9.6
82.5°	0.0	0.0	1.9	5.8	7.7	17.3	17.3	15.4	7.7	5.8
85°	0.0	0.0	3.8	7.7	11.5	19.2	19.2	15.4	5.8	3.8
87.5°	0.0	0.0	3.8	5.8	9.6	13.4	19.2	15.4	5.8	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638078
 CATALOG NUMBER: IFLD-S-SA3C-727-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
10369.1	0°	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1	10369.1
10336.5	2.5°	10388.3	10376.8	10415.2	10430.5	10451.6	10371.0	10321.2	10323.1	10231.0
10219.5	5°	10280.9	10282.8	10332.7	10328.8	10349.9	10305.8	10286.6	10254.0	10173.4
10071.7	7.5°	10144.6	10127.4	10175.3	10211.8	10158.1	10188.8	10144.6	10160.0	10112.0
9941.2	10°	10039.1	9998.8	10042.9	10067.9	10069.8	10039.1	9996.9	9956.6	9939.3
9737.8	12.5°	9805.0	9753.2	9828.0	9862.6	9856.8	9797.3	9749.4	9758.9	9703.3
9380.9	15°	9482.6	9484.6	9538.3	9570.9	9540.2	9526.8	9530.6	9507.6	9459.6
8887.8	17.5°	8989.5	9018.3	9160.3	9239.0	9256.2	9229.4	9215.9	9189.1	9141.1
8101.1	20°	8168.3	8341.0	8594.2	8837.9	8885.9	8878.2	8830.3	8818.7	8791.9
7322.1	22.5°	7446.8	7575.4	7868.9	8248.9	8444.6	8463.8	8406.2	8388.9	8360.2
6625.6	25°	6700.4	6838.6	7103.3	7515.9	7920.7	8003.3	7993.7	7941.9	7911.2
6007.7	27.5°	6071.0	6209.2	6449.0	6821.3	7254.9	7519.7	7544.7	7462.2	7460.2
5457.0	30°	5503.1	5693.0	5875.3	6178.5	6598.7	6995.9	7038.1	6980.5	6986.3
4952.4	32.5°	5057.9	5215.3	5370.7	5574.1	5923.3	6385.7	6550.7	6497.0	6475.9
4532.2	35°	4603.2	4710.6	4869.9	5056.0	5293.9	5752.5	6038.4	5998.1	5977.0
3964.2	37.5°	4085.1	4269.3	4384.4	4593.6	4779.7	5144.3	5547.2	5541.5	5497.3
3480.7	40°	3553.6	3747.4	3922.0	4133.1	4277.0	4566.7	5013.8	5011.9	5017.6
2979.9	42.5°	3072.0	3250.4	3461.5	3691.7	3829.9	4041.0	4520.7	4547.5	4580.1
2567.3	45°	2636.4	2797.6	2993.3	3273.4	3440.4	3561.3	3987.2	4110.0	4108.1
2198.9	47.5°	2245.0	2396.6	2561.6	2834.0	3047.0	3156.4	3509.5	3684.1	3672.6
1803.7	50°	1884.2	2018.6	2191.3	2388.9	2674.8	2770.7	3033.6	3263.9	3246.6
1437.2	52.5°	1515.8	1702.0	1847.8	2028.2	2329.4	2423.4	2626.8	2851.3	2837.9
1078.4	55°	1182.0	1362.3	1538.9	1694.3	1947.6	2087.6	2233.5	2463.7	2459.9
844.3	57.5°	894.2	1091.8	1258.7	1406.5	1607.9	1780.6	1897.7	2106.8	2133.7
577.6	60°	662.0	813.6	993.9	1158.9	1318.2	1496.7	1575.3	1780.6	1792.1
395.3	62.5°	450.9	617.8	794.4	944.0	1063.0	1247.2	1318.2	1487.1	1508.2
253.3	65°	312.8	420.2	621.7	729.1	875.0	1032.3	1103.3	1237.6	1279.8
145.8	67.5°	207.2	299.3	485.5	583.3	727.2	834.7	924.9	1034.2	1080.3
92.1	70°	113.2	220.7	347.3	460.5	585.2	688.8	777.1	865.4	905.7
42.2	72.5°	76.8	147.7	241.8	364.6	472.0	573.7	652.4	717.6	719.5
24.9	75°	38.4	99.8	184.2	282.1	368.4	468.2	539.2	577.6	531.5
15.4	77.5°	23.0	72.9	149.7	226.4	299.3	378.0	418.3	439.4	364.6
11.5	80°	13.4	51.8	117.0	180.4	207.2	278.2	316.6	322.4	243.7
7.7	82.5°	9.6	38.4	92.1	132.4	126.6	195.7	237.9	230.3	155.4
5.8	85°	5.8	26.9	57.6	82.5	76.8	128.6	138.2	142.0	90.2
3.8	87.5°	3.8	15.4	30.7	44.1	36.5	55.6	55.6	67.2	44.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10369.1
10112.0
10154.2
10031.4
9862.6
9655.3
9411.6
9120.0
8730.5
8352.5
7878.5
7456.4
6957.5
6477.8
5948.2
5533.8
5017.6
4562.9
4112.0
3676.4
3261.9
2866.7
2469.5
2122.2
1809.4
1512.0
1270.2
1074.5
890.3
702.3
497.0
351.1
228.3
143.9
82.5
38.4
0.0

(END OF REPORT)