

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: P638079

Luminaire Tested: **IFLD-S-SA3D-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638079
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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: 14992.7 lumens
Efficiency: N/A
Efficacy: 81.4 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

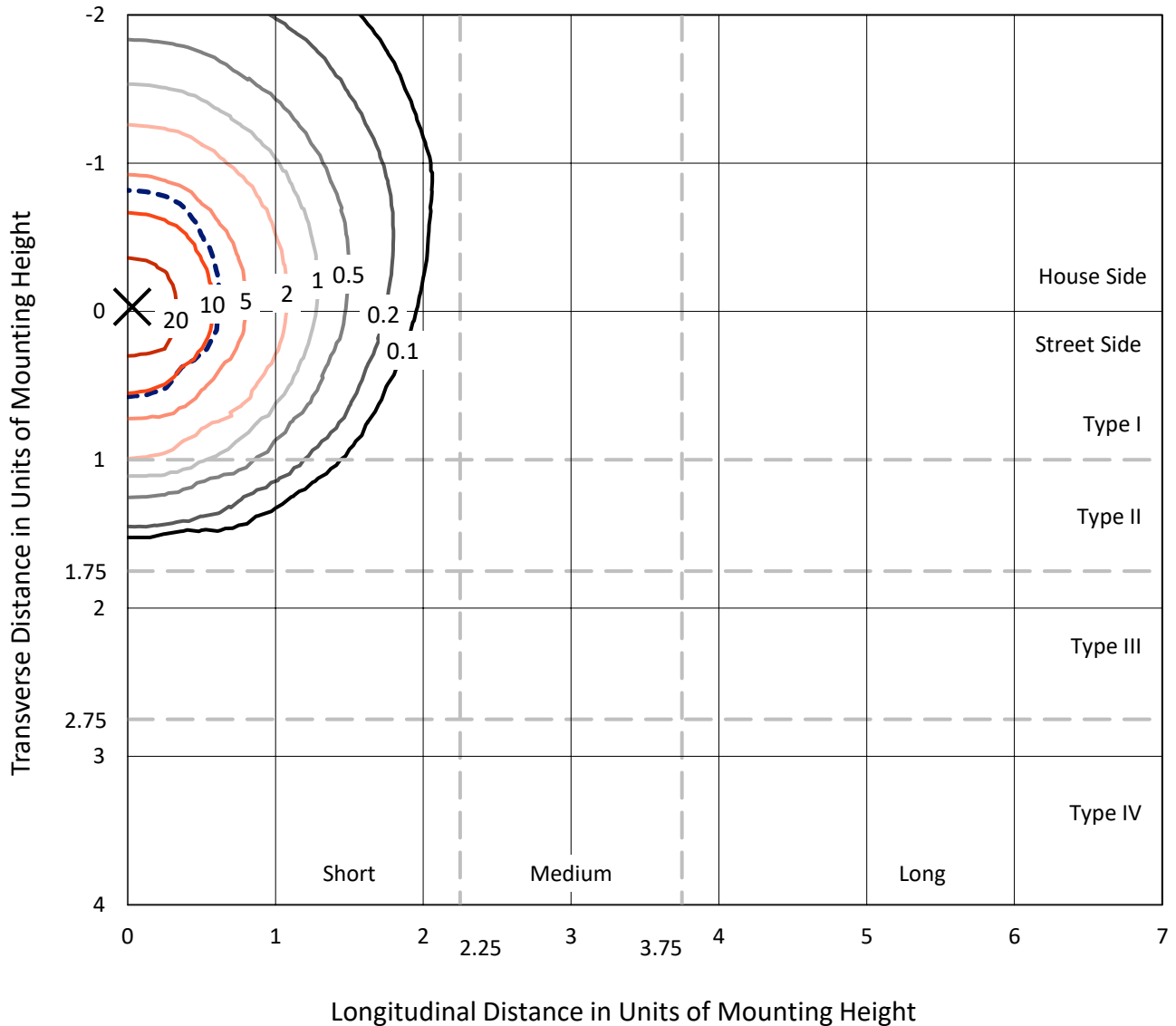
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

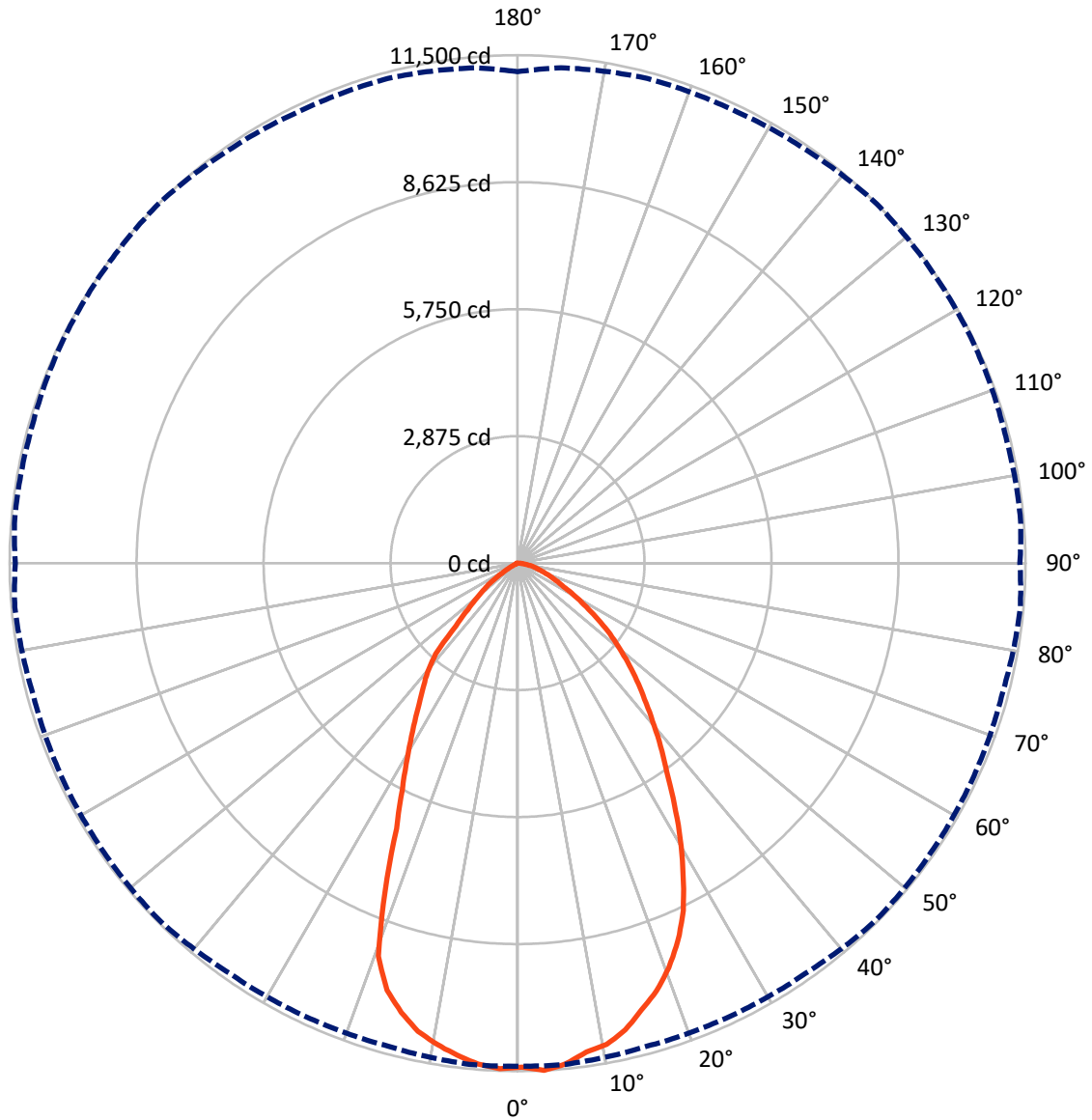
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.5 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	8879.4	0.0	8879.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6113.2	0.0	6113.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	14992.7	0.0	14992.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.0	7.1
10°-20°	2869.3	19.1
20°-30°	3499.3	23.3
30°-40°	3194.8	21.3
40°-50°	2308.8	15.4
50°-60°	1260.6	8.4
60°-70°	521.2	3.5
70°-80°	211.1	1.4
80°-90°	57.4	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°	14992.7	100.0
0°-180°	14992.7	100.0



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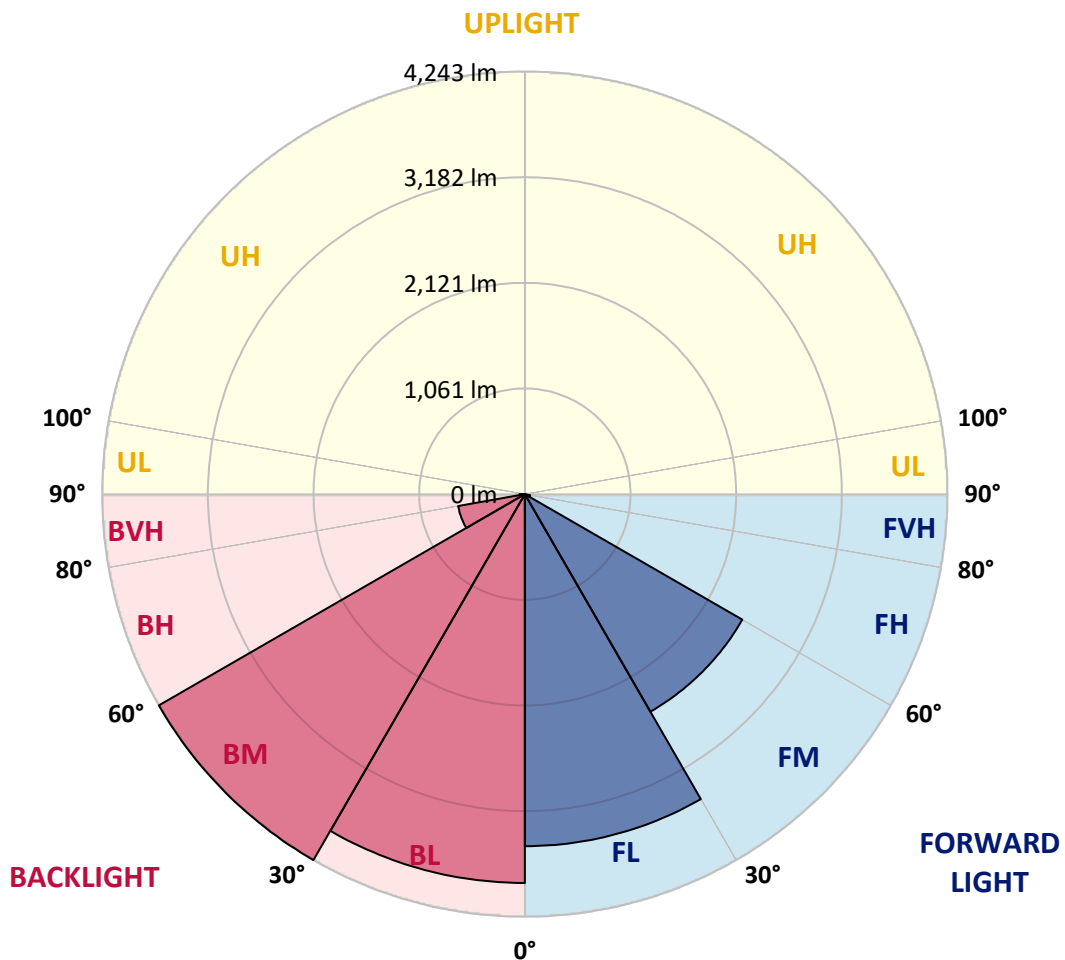
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3534.3	23.6			
FM (30°-60°)	2521.5	16.8			
FH (60°-80°)	52.8	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3904.3	26.0	B4/5000		
BM (30°-60°)	4242.8	28.3	B3/5000		
BH (60°-80°)	679.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	52.8	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°	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4
2.5°	11388.3	11403.0	11322.8	11331.3	11346.0	11453.7	11426.3	11400.9	11365.0	11426.3
5°	11373.5	11381.9	11297.5	11267.9	11280.6	11377.7	11289.0	11289.0	11280.6	11270.0
7.5°	11259.5	11263.7	11198.2	11145.5	11179.2	11223.6	11158.1	11189.8	11143.4	11179.2
10°	11088.5	11061.0	10982.9	10968.1	11006.1	11048.3	11004.0	11033.6	10991.3	11018.8
12.5°	10837.2	10795.0	10731.7	10712.7	10778.1	10835.1	10799.2	10782.3	10727.4	10795.0
15°	9868.1	9836.5	9980.0	10231.3	10457.2	10505.7	10467.7	10484.6	10370.6	10389.6
17.5°	8122.1	8063.0	8217.1	8812.5	9661.2	10108.8	10075.0	9965.3	9796.4	9834.4
20°	7381.0	7364.2	7347.3	7488.7	8082.0	9439.5	9486.0	9207.3	8966.6	8913.8
22.5°	6963.0	6956.7	6939.8	6971.5	7127.7	7999.7	8531.7	8274.1	8113.7	8098.9
25°	6580.9	6570.3	6519.6	6559.8	6559.8	6610.4	7292.4	7448.6	7307.2	7290.3
27.5°	6192.4	6173.4	6164.9	6184.0	6086.8	5744.8	5917.9	6680.1	6606.2	6610.4
30°	5772.2	5765.9	5742.7	5782.8	5483.0	5058.6	4948.8	5983.4	5998.2	5993.9
32.5°	5147.3	5174.8	5280.3	5324.7	4830.6	4480.1	4296.5	5176.9	5478.8	5472.4
35°	3739.1	3739.1	4083.2	4722.9	4233.1	3969.2	3870.0	4389.4	4965.7	4986.9
37.5°	3074.0	3084.6	3152.1	3443.5	3652.5	3559.6	3530.1	3694.7	4307.0	4340.8
40°	2765.8	2765.8	2765.8	2645.4	2639.1	3207.0	3190.1	3137.4	3720.1	3794.0
42.5°	2485.0	2491.3	2495.5	2191.5	2022.6	2772.1	2734.1	2653.9	3194.4	3280.9
45°	2195.7	2206.3	2219.0	1832.6	1758.7	1995.2	2314.0	2225.3	2675.0	2786.9
47.5°	1340.7	1357.6	1644.7	1553.9	1562.3	1539.1	1887.5	1872.7	2193.6	2352.0
50°	905.7	912.1	939.5	986.0	1340.7	1209.8	1336.4	1549.7	1665.8	1906.5
52.5°	760.1	770.6	703.1	639.7	880.4	945.9	933.2	1150.6	1197.1	1494.8
55°	534.2	567.9	536.3	529.9	500.4	734.7	707.3	884.6	914.2	1135.9
57.5°	54.9	63.3	109.8	394.8	327.2	415.9	504.6	648.2	677.7	838.2
60°	4.2	4.2	10.6	54.9	238.6	249.1	348.4	399.0	456.0	584.8
62.5°	0.0	2.1	4.2	8.4	38.0	133.0	175.2	209.0	274.5	377.9
65°	0.0	0.0	2.1	6.3	8.4	50.7	67.6	109.8	149.9	234.4
67.5°	0.0	0.0	2.1	4.2	6.3	12.7	23.2	40.1	80.2	133.0
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.3	35.9	71.8
72.5°	0.0	0.0	2.1	2.1	4.2	10.6	12.7	16.9	25.3	35.9
75°	0.0	0.0	2.1	2.1	6.3	12.7	10.6	12.7	16.9	23.2
77.5°	0.0	0.0	2.1	4.2	6.3	12.7	10.6	12.7	12.7	14.8
80°	0.0	0.0	2.1	4.2	8.4	14.8	12.7	12.7	10.6	10.6
82.5°	0.0	0.0	2.1	6.3	8.4	19.0	19.0	16.9	8.4	6.3
85°	0.0	0.0	4.2	8.4	12.7	21.1	21.1	16.9	6.3	4.2
87.5°	0.0	0.0	4.2	6.3	10.6	14.8	21.1	16.9	6.3	2.1
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°
11409.4	0°	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4	11409.4
11373.5	2.5°	11430.5	11417.8	11460.0	11476.9	11500.2	11411.5	11356.6	11358.7	11257.4
11244.7	5°	11312.3	11314.4	11369.3	11365.0	11388.3	11339.7	11318.6	11282.7	11194.0
11082.1	7.5°	11162.4	11143.4	11196.1	11236.3	11177.1	11210.9	11162.4	11179.2	11126.5
10938.6	10°	11046.2	11001.9	11050.5	11077.9	11080.0	11046.2	10999.8	10955.5	10936.4
10714.8	12.5°	10788.7	10731.7	10814.0	10852.0	10845.7	10780.2	10727.4	10738.0	10676.8
10322.1	15°	10434.0	10436.1	10495.2	10531.1	10497.3	10482.5	10486.7	10461.4	10408.6
9779.5	17.5°	9891.4	9923.0	10079.3	10165.8	10184.8	10155.3	10140.5	10110.9	10058.2
8913.8	20°	8987.7	9177.8	9456.4	9724.6	9777.4	9768.9	9716.1	9703.5	9673.9
8056.7	22.5°	8193.9	8335.3	8658.4	9076.4	9291.8	9312.9	9249.5	9230.5	9198.9
7290.3	25°	7372.6	7524.6	7816.0	8269.9	8715.4	8806.2	8795.6	8738.6	8704.8
6610.4	27.5°	6680.1	6832.1	7096.0	7505.6	7982.8	8274.1	8301.6	8210.8	8208.7
6004.5	30°	6055.2	6264.2	6464.8	6798.3	7260.7	7697.7	7744.2	7680.9	7687.2
5449.2	32.5°	5565.3	5738.5	5909.5	6133.3	6517.5	7026.4	7207.9	7148.8	7125.6
4986.9	35°	5065.0	5183.2	5358.4	5563.2	5825.0	6329.6	6644.2	6599.9	6576.6
4361.9	37.5°	4494.9	4697.6	4824.3	5054.4	5259.2	5660.4	6103.7	6097.4	6048.8
3829.9	40°	3910.1	4123.3	4315.5	4547.7	4706.1	5024.9	5516.8	5514.7	5521.0
3278.8	42.5°	3380.2	3576.5	3808.8	4062.1	4214.1	4446.4	4974.2	5003.7	5039.6
2824.9	45°	2900.9	3078.3	3293.6	3601.9	3785.5	3918.5	4387.2	4522.4	4520.3
2419.5	47.5°	2470.2	2637.0	2818.6	3118.4	3352.7	3473.1	3861.5	4053.7	4041.0
1984.6	50°	2073.3	2221.1	2411.1	2628.5	2943.1	3048.7	3337.9	3591.3	3572.3
1581.4	52.5°	1667.9	1872.7	2033.2	2231.6	2563.1	2666.6	2890.3	3137.4	3122.6
1186.5	55°	1300.6	1499.0	1693.2	1864.3	2143.0	2297.1	2457.5	2710.9	2706.7
929.0	57.5°	983.9	1201.3	1385.0	1547.6	1769.3	1959.3	2088.1	2318.2	2347.7
635.5	60°	728.4	895.2	1093.6	1275.2	1450.5	1646.8	1733.4	1959.3	1971.9
434.9	62.5°	496.2	679.8	874.1	1038.8	1169.7	1372.3	1450.5	1636.2	1659.5
278.7	65°	344.1	462.4	684.1	802.3	962.7	1135.9	1214.0	1361.8	1408.2
160.5	67.5°	228.0	329.4	534.2	641.8	800.2	918.4	1017.6	1138.0	1188.7
101.3	70°	124.6	242.8	382.1	506.7	643.9	758.0	855.1	952.2	996.5
46.4	72.5°	84.5	162.6	266.0	401.1	519.4	631.3	717.8	789.6	791.7
27.4	75°	42.2	109.8	202.7	310.4	405.4	515.2	593.3	635.5	584.8
16.9	77.5°	25.3	80.2	164.7	249.1	329.4	415.9	460.3	483.5	401.1
12.7	80°	14.8	57.0	128.8	198.5	228.0	306.1	348.4	354.7	268.1
8.4	82.5°	10.6	42.2	101.3	145.7	139.3	215.4	261.8	253.4	171.0
6.3	85°	6.3	29.6	63.3	90.8	84.5	141.5	152.0	156.2	99.2
4.2	87.5°	4.2	16.9	33.8	48.6	40.1	61.2	61.2	73.9	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11409.4
11126.5
11172.9
11037.8
10852.0
10624.0
10355.8
10034.9
9606.3
9190.4
8668.9
8204.4
7655.5
7127.7
6545.0
6088.9
5521.0
5020.6
4524.5
4045.2
3589.2
3154.3
2717.2
2335.1
1990.9
1663.7
1397.7
1182.3
979.6
772.7
546.8
386.4
251.2
158.3
90.8
42.2
0.0

(END OF REPORT)