

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: P638050

Luminaire Tested: **IFLD-S-SA3D-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13205.3 lumens
Efficiency: N/A
Efficacy: 71.7 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

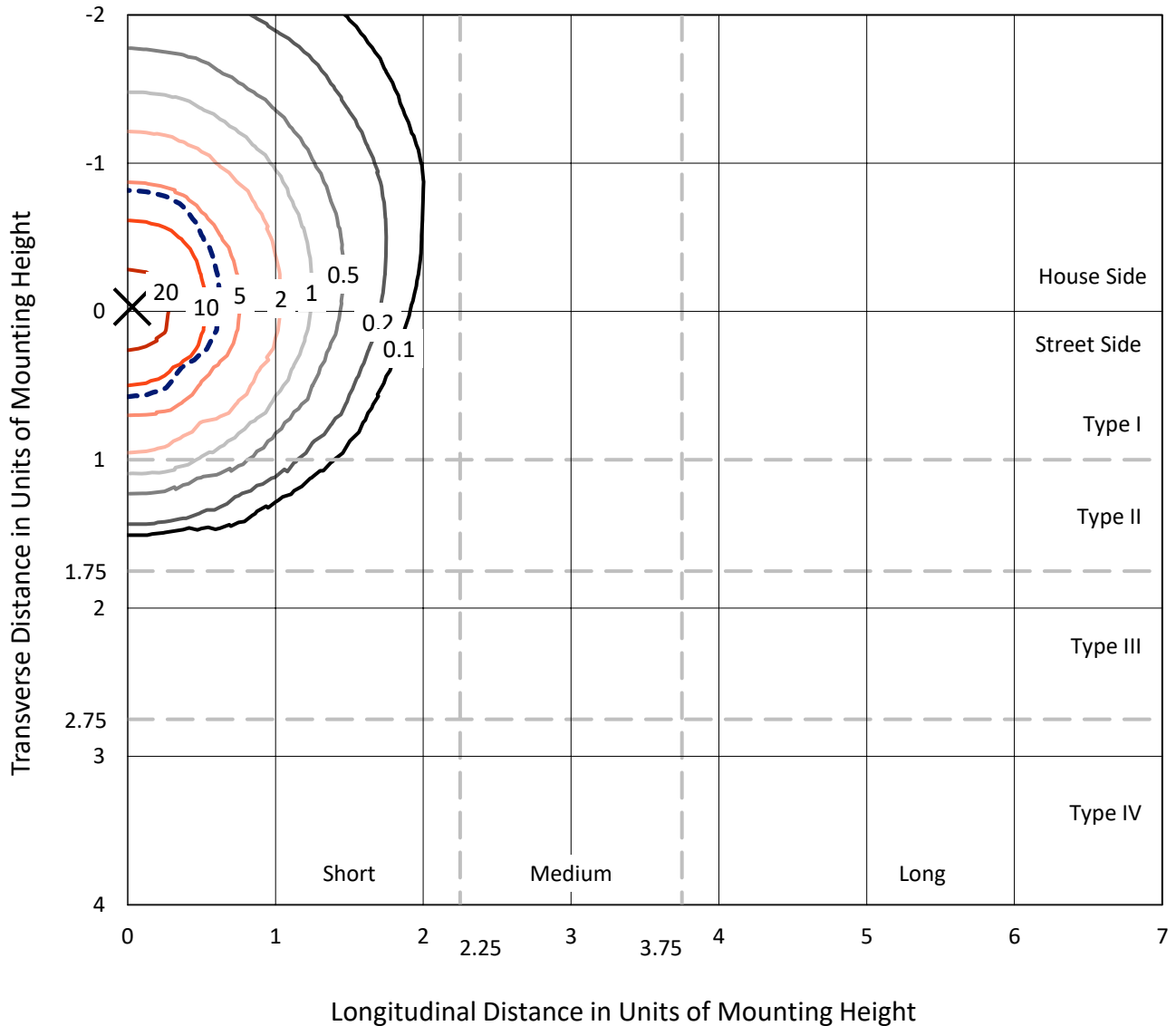
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

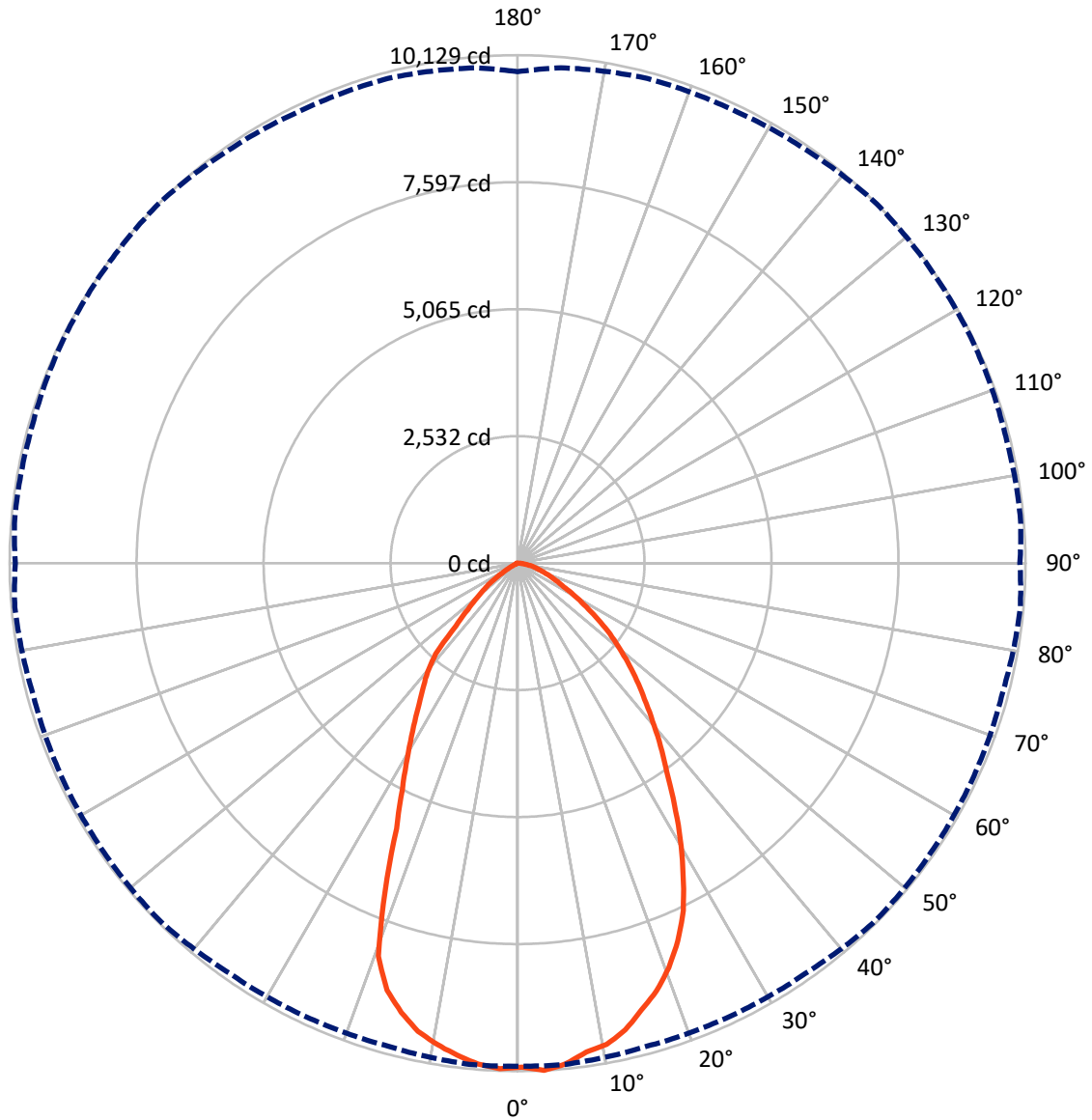
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.1 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	7820.9	0.0	7820.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5384.5	0.0	5384.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	13205.3	0.0	13205.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.5	7.1
10°-20°	2527.3	19.1
20°-30°	3082.1	23.3
30°-40°	2814.0	21.3
40°-50°	2033.6	15.4
50°-60°	1110.4	8.4
60°-70°	459.1	3.5
70°-80°	185.9	1.4
80°-90°	50.6	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°	13205.3	100.0
0°-180°	13205.3	100.0



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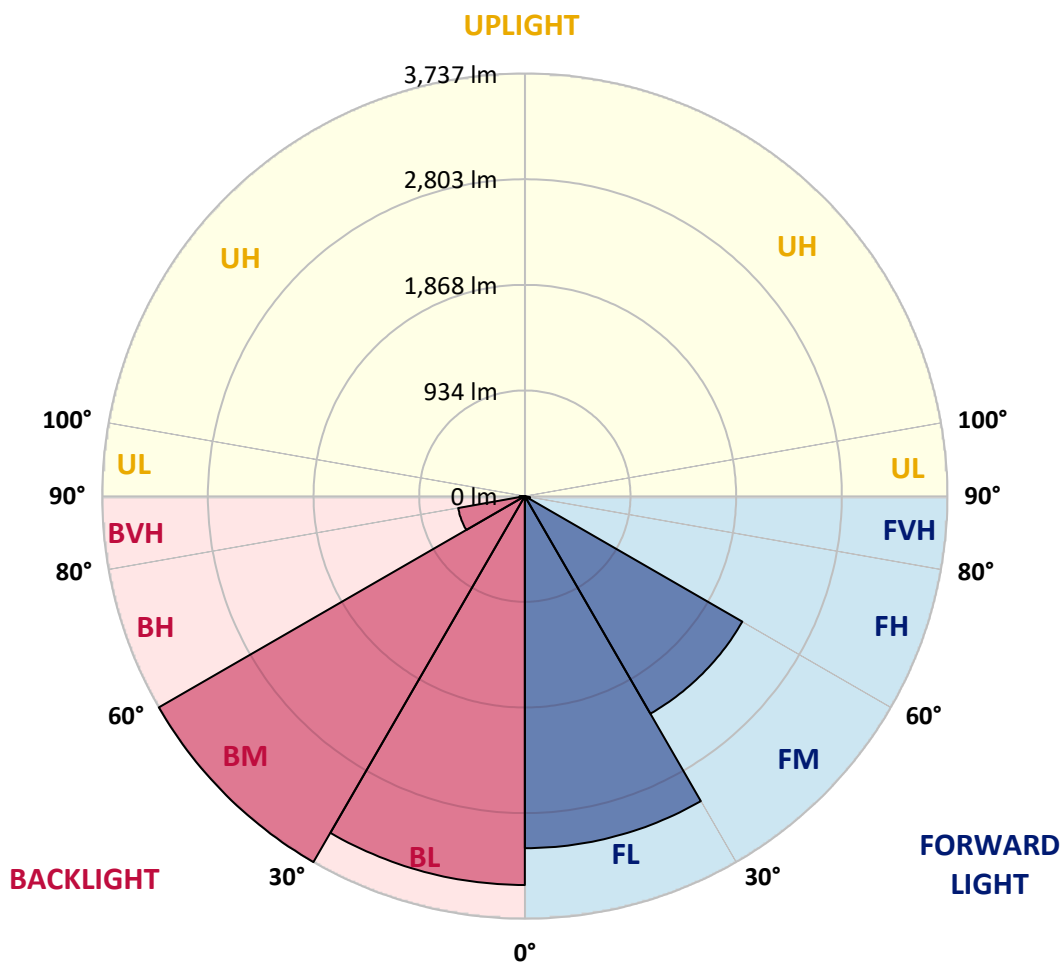
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3113.0	23.6			
FM (30°-60°)	2220.9	16.8			
FH (60°-80°)	46.5	0.4			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	3438.9	26.0	B4/5000		
BM (30°-60°)	3737.0	28.3	B3/5000		
BH (60°-80°)	598.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.5	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°	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2
2.5°	10030.6	10043.6	9973.0	9980.4	9993.4	10088.3	10064.1	10041.8	10010.2	10064.1
5°	10017.6	10025.0	9950.6	9924.6	9935.8	10021.3	9943.2	9943.2	9935.8	9926.5
7.5°	9917.2	9920.9	9863.2	9816.8	9846.5	9885.6	9827.9	9855.8	9814.9	9846.5
10°	9766.5	9742.4	9673.6	9660.5	9694.0	9731.2	9692.2	9718.2	9681.0	9705.2
12.5°	9545.3	9508.1	9452.3	9435.5	9493.2	9543.4	9511.8	9496.9	9448.6	9508.1
15°	8691.7	8663.8	8790.3	9011.6	9210.5	9253.3	9219.8	9234.7	9134.3	9151.0
17.5°	7153.8	7101.8	7237.5	7761.9	8509.5	8903.7	8873.9	8777.2	8628.5	8662.0
20°	6501.1	6486.2	6471.4	6596.0	7118.5	8314.2	8355.1	8109.7	7897.7	7851.2
22.5°	6132.9	6127.3	6112.5	6140.4	6278.0	7046.0	7514.6	7287.7	7146.4	7133.4
25°	5796.3	5787.0	5742.4	5777.7	5777.7	5822.4	6423.0	6560.6	6436.0	6421.1
27.5°	5454.2	5437.4	5430.0	5446.7	5361.2	5059.9	5212.4	5883.7	5818.6	5822.4
30°	5084.1	5078.5	5058.1	5093.4	4829.3	4455.6	4358.9	5270.1	5283.1	5279.4
32.5°	4533.7	4557.8	4650.8	4689.9	4254.7	3946.0	3784.3	4559.7	4825.6	4820.0
35°	3293.3	3293.3	3596.4	4159.9	3728.5	3496.0	3408.6	3866.1	4373.7	4392.3
37.5°	2707.6	2716.9	2776.4	3033.0	3217.1	3135.3	3109.2	3254.3	3793.6	3823.3
40°	2436.1	2436.1	2436.1	2330.1	2324.5	2824.7	2809.8	2763.3	3276.6	3341.7
42.5°	2188.7	2194.3	2198.0	1930.3	1781.5	2441.6	2408.2	2337.5	2813.6	2889.8
45°	1934.0	1943.3	1954.4	1614.1	1549.0	1757.3	2038.1	1960.0	2356.1	2454.7
47.5°	1180.8	1195.7	1448.6	1368.7	1376.1	1355.6	1662.5	1649.5	1932.1	2071.6
50°	797.8	803.3	827.5	868.4	1180.8	1065.5	1177.1	1364.9	1467.2	1679.2
52.5°	669.5	678.7	619.2	563.5	775.4	833.1	821.9	1013.5	1054.4	1316.6
55°	470.5	500.2	472.3	466.8	440.7	647.1	623.0	779.2	805.2	1000.5
57.5°	48.3	55.8	96.7	347.7	288.2	366.3	444.4	570.9	596.9	738.3
60°	3.7	3.7	9.3	48.3	210.1	219.4	306.8	351.5	401.7	515.1
62.5°	0.0	1.9	3.7	7.4	33.5	117.2	154.3	184.1	241.7	332.9
65°	0.0	0.0	1.9	5.6	7.4	44.6	59.5	96.7	132.0	206.4
67.5°	0.0	0.0	1.9	3.7	5.6	11.2	20.5	35.3	70.7	117.2
70°	0.0	0.0	1.9	3.7	5.6	9.3	14.9	22.3	31.6	63.2
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	11.2	14.9	22.3	31.6
75°	0.0	0.0	1.9	1.9	5.6	11.2	9.3	11.2	14.9	20.5
77.5°	0.0	0.0	1.9	3.7	5.6	11.2	9.3	11.2	11.2	13.0
80°	0.0	0.0	1.9	3.7	7.4	13.0	11.2	11.2	9.3	9.3
82.5°	0.0	0.0	1.9	5.6	7.4	16.7	16.7	14.9	7.4	5.6
85°	0.0	0.0	3.7	7.4	11.2	18.6	18.6	14.9	5.6	3.7
87.5°	0.0	0.0	3.7	5.6	9.3	13.0	18.6	14.9	5.6	1.9
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°
10049.2	0°	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2	10049.2
10017.6	2.5°	10067.8	10056.6	10093.8	10108.7	10129.2	10051.1	10002.7	10004.6	9915.3
9904.2	5°	9963.7	9965.5	10013.9	10010.2	10030.6	9987.8	9969.2	9937.6	9859.5
9761.0	7.5°	9831.6	9814.9	9861.4	9896.7	9844.6	9874.4	9831.6	9846.5	9800.0
9634.5	10°	9729.4	9690.3	9733.1	9757.2	9759.1	9729.4	9688.4	9649.4	9632.7
9437.4	12.5°	9502.5	9452.3	9524.8	9558.3	9552.7	9495.0	9448.6	9457.9	9403.9
9091.5	15°	9190.1	9191.9	9244.0	9275.6	9245.9	9232.8	9236.6	9214.2	9167.8
8613.6	17.5°	8712.2	8740.1	8877.7	8953.9	8970.6	8944.6	8931.6	8905.6	8859.1
7851.2	20°	7916.3	8083.6	8329.1	8565.3	8611.7	8604.3	8557.8	8546.7	8520.6
7096.2	22.5°	7217.1	7341.6	7626.2	7994.4	8184.0	8202.6	8146.8	8130.1	8102.2
6421.1	25°	6493.7	6627.6	6884.2	7284.0	7676.4	7756.3	7747.0	7696.8	7667.1
5822.4	27.5°	5883.7	6017.6	6250.1	6610.8	7031.1	7287.7	7311.9	7231.9	7230.1
5288.7	30°	5333.3	5517.4	5694.1	5987.9	6395.1	6780.0	6821.0	6765.2	6770.8
4799.6	32.5°	4901.9	5054.4	5205.0	5402.1	5740.5	6188.7	6348.6	6296.6	6276.1
4392.3	35°	4461.1	4565.3	4719.6	4900.0	5130.6	5575.0	5852.1	5813.1	5792.6
3841.9	37.5°	3959.1	4137.6	4249.2	4451.8	4632.2	4985.5	5376.1	5370.5	5327.7
3373.3	40°	3444.0	3631.8	3801.0	4005.5	4145.0	4425.8	4859.1	4857.2	4862.8
2887.9	42.5°	2977.2	3150.1	3354.7	3577.8	3711.7	3916.3	4381.2	4407.2	4438.8
2488.1	45°	2555.1	2711.3	2901.0	3172.5	3334.2	3451.4	3864.2	3983.2	3981.4
2131.1	47.5°	2175.7	2322.6	2482.5	2746.6	2953.0	3059.0	3401.2	3570.4	3559.2
1748.0	50°	1826.1	1956.3	2123.6	2315.2	2592.3	2685.2	2940.0	3163.2	3146.4
1392.8	52.5°	1469.1	1649.5	1790.8	1965.6	2257.5	2348.7	2545.8	2763.3	2750.3
1045.1	55°	1145.5	1320.3	1491.4	1642.0	1887.5	2023.2	2164.6	2387.7	2384.0
818.2	57.5°	866.6	1058.1	1219.9	1363.1	1558.3	1725.7	1839.1	2041.8	2067.9
559.7	60°	641.6	788.5	963.3	1123.2	1277.5	1450.5	1526.7	1725.7	1736.9
383.1	62.5°	437.0	598.8	769.9	914.9	1030.2	1208.7	1277.5	1441.2	1461.6
245.5	65°	303.1	407.2	602.5	706.6	848.0	1000.5	1069.3	1199.4	1240.3
141.3	67.5°	200.8	290.1	470.5	565.3	704.8	808.9	896.3	1002.3	1046.9
89.3	70°	109.7	213.9	336.6	446.3	567.2	667.6	753.1	838.7	877.7
40.9	72.5°	74.4	143.2	234.3	353.3	457.5	556.0	632.3	695.5	697.3
24.2	75°	37.2	96.7	178.5	273.4	357.0	453.7	522.5	559.7	515.1
14.9	77.5°	22.3	70.7	145.0	219.4	290.1	366.3	405.4	425.8	353.3
11.2	80°	13.0	50.2	113.4	174.8	200.8	269.6	306.8	312.4	236.2
7.4	82.5°	9.3	37.2	89.3	128.3	122.7	189.7	230.6	223.2	150.6
5.6	85°	5.6	26.0	55.8	80.0	74.4	124.6	133.9	137.6	87.4
3.7	87.5°	3.7	14.9	29.8	42.8	35.3	53.9	53.9	65.1	42.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10049.2
9800.0
9840.9
9721.9
9558.3
9357.4
9121.3
8838.6
8461.1
8094.8
7635.5
7226.4
6742.9
6278.0
5764.7
5363.0
4862.8
4422.1
3985.1
3563.0
3161.3
2778.2
2393.3
2056.7
1753.6
1465.4
1231.0
1041.4
862.8
680.6
481.6
340.3
221.3
139.5
80.0
37.2
0.0

(END OF REPORT)