

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: P636777

Luminaire Tested: **IFLD-S-SA6B-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17048.3 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

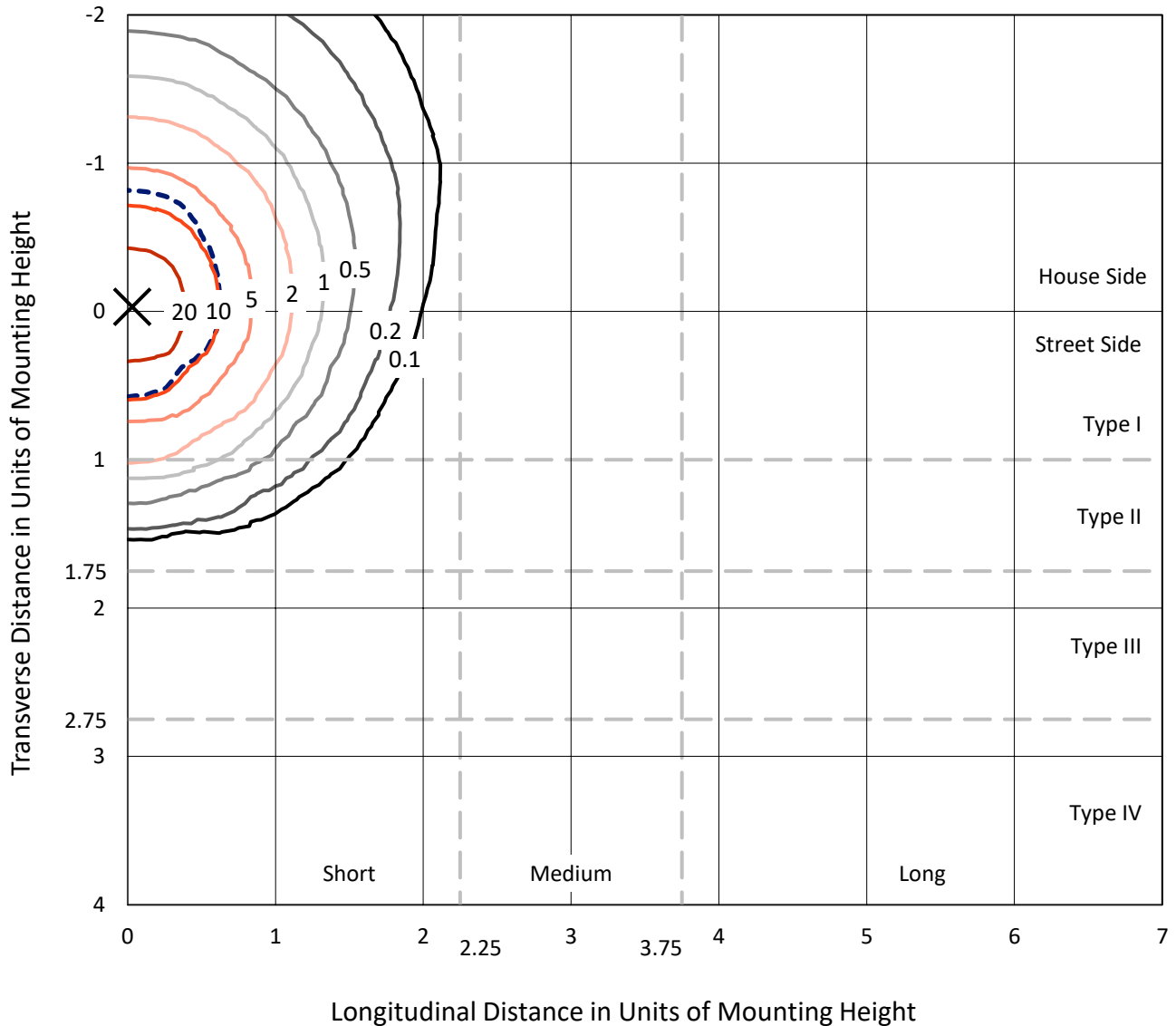
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

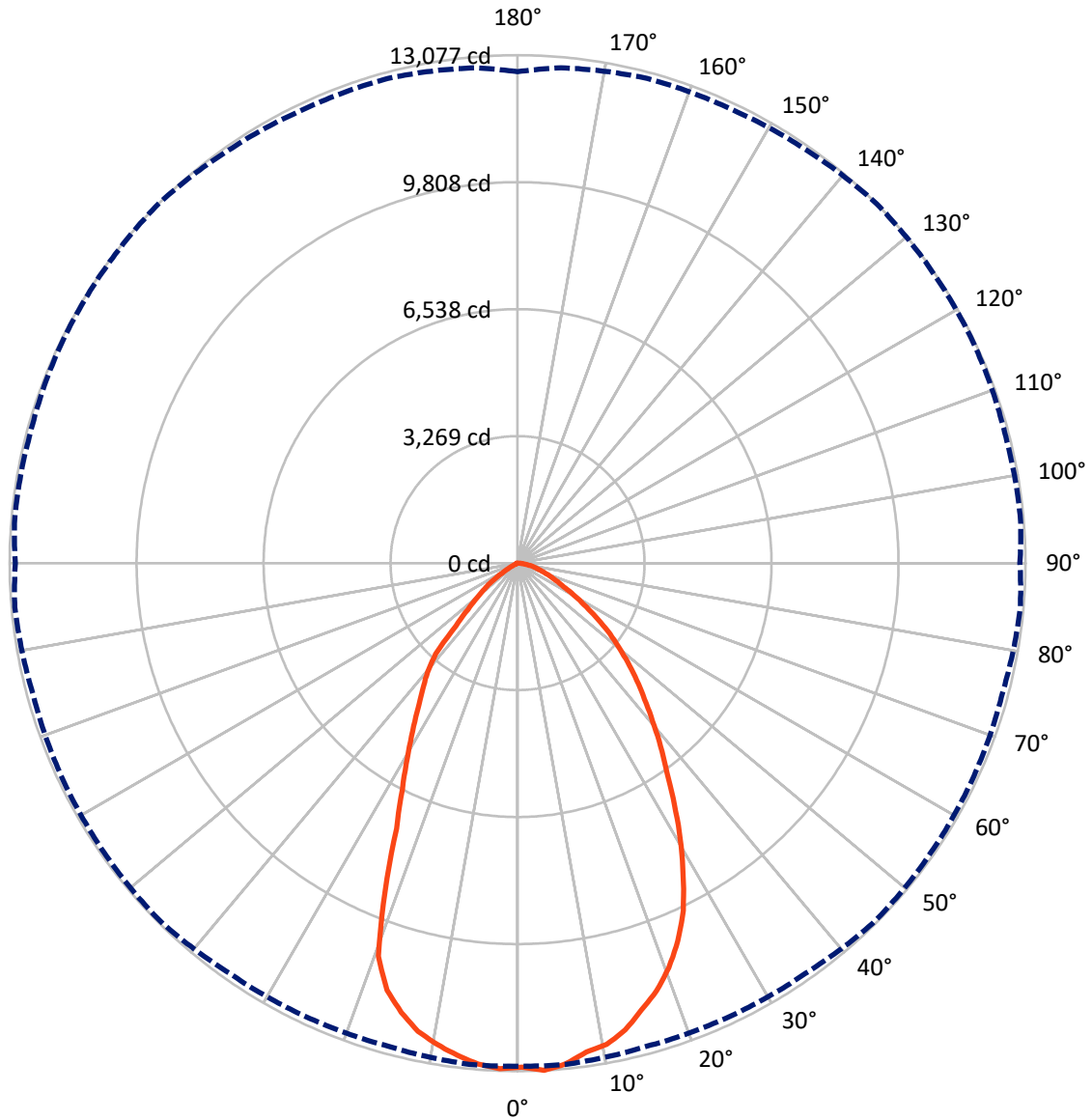
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.4 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	10096.9	0.0	10096.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6951.4	0.0	6951.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	17048.3	0.0	17048.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.7	7.1
10°-20°	3262.7	19.1
20°-30°	3979.1	23.3
30°-40°	3632.9	21.3
40°-50°	2625.4	15.4
50°-60°	1433.5	8.4
60°-70°	592.7	3.5
70°-80°	240.0	1.4
80°-90°	65.3	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°	17048.3	100.0
0°-180°	17048.3	100.0



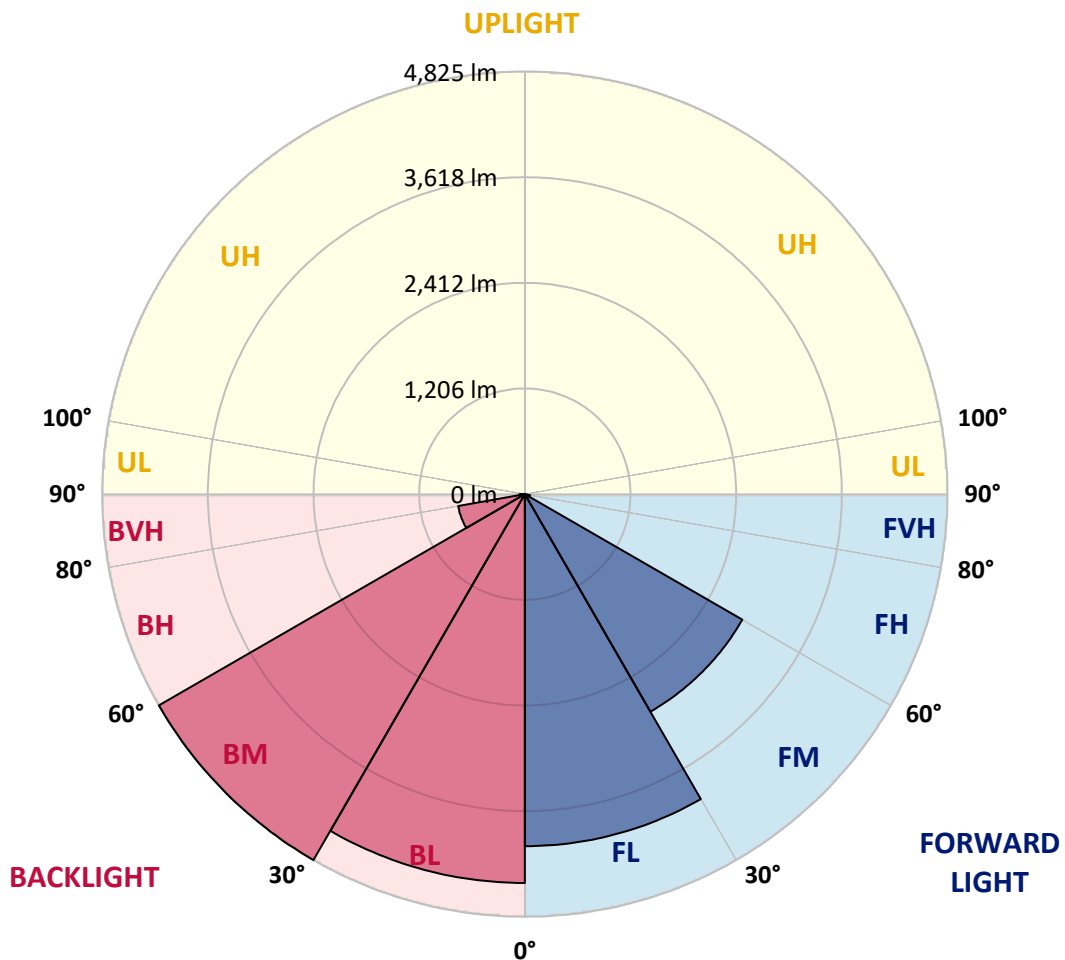
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4018.9	23.6			
FM (30°-60°)	2867.2	16.8			
FH (60°-80°)	60.1	0.4			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	4439.6	26.0	B4/5000		
BM (30°-60°)	4824.5	28.3	B3/5000		
BH (60°-80°)	772.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	60.1	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°	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7
2.5°	12949.7	12966.5	12875.3	12884.9	12901.7	13024.1	12992.9	12964.1	12923.3	12992.9
5°	12932.9	12942.5	12846.4	12812.8	12827.2	12937.7	12836.8	12836.8	12827.2	12815.2
7.5°	12803.2	12808.0	12733.6	12673.6	12712.0	12762.4	12688.0	12724.0	12671.2	12712.0
10°	12608.8	12577.6	12488.7	12471.9	12515.1	12563.2	12512.7	12546.4	12498.3	12529.5
12.5°	12323.1	12275.1	12203.0	12181.4	12255.9	12320.7	12279.9	12260.7	12198.2	12275.1
15°	11221.1	11185.1	11348.4	11634.1	11890.9	11946.2	11903.0	11922.2	11792.5	11814.1
17.5°	9235.7	9168.5	9343.7	10020.8	10985.9	11494.8	11456.4	11331.6	11139.5	11182.7
20°	8393.0	8373.8	8354.6	8515.5	9190.1	10733.8	10786.6	10469.7	10196.0	10136.0
22.5°	7917.7	7910.5	7891.3	7927.3	8105.0	9096.5	9701.5	9408.6	9226.1	9209.3
25°	7483.2	7471.2	7413.5	7459.2	7459.2	7516.8	8292.2	8469.9	8309.0	8289.8
27.5°	7041.4	7019.8	7010.2	7031.8	6921.4	6532.5	6729.3	7596.0	7512.0	7516.8
30°	6563.7	6556.5	6530.1	6575.7	6234.8	5752.2	5627.4	6803.7	6820.5	6815.7
32.5°	5853.0	5884.3	6004.3	6054.7	5492.9	5094.4	4885.5	5886.7	6230.0	6222.8
35°	4251.7	4251.7	4643.1	5370.5	4813.5	4513.4	4400.6	4991.2	5646.6	5670.6
37.5°	3495.5	3507.5	3584.3	3915.6	4153.3	4047.7	4014.1	4201.3	4897.5	4936.0
40°	3145.0	3145.0	3145.0	3008.1	3000.9	3646.7	3627.5	3567.5	4230.1	4314.2
42.5°	2825.7	2832.9	2837.7	2492.0	2299.9	3152.2	3109.0	3017.8	3632.3	3730.8
45°	2496.8	2508.8	2523.2	2083.9	1999.8	2268.7	2631.2	2530.4	3041.8	3169.0
47.5°	1524.5	1543.7	1870.2	1767.0	1776.6	1750.2	2146.3	2129.5	2494.4	2674.4
50°	1029.9	1037.1	1068.3	1121.2	1524.5	1375.6	1519.7	1762.2	1894.2	2167.9
52.5°	864.3	876.3	799.5	727.4	1001.1	1075.5	1061.1	1308.4	1361.2	1699.7
55°	607.4	645.8	609.8	602.6	569.0	835.5	804.3	1005.9	1039.5	1291.6
57.5°	62.4	72.0	124.8	448.9	372.1	472.9	573.8	737.0	770.6	953.1
60°	4.8	4.8	12.0	62.4	271.3	283.3	396.1	453.7	518.6	665.0
62.5°	0.0	2.4	4.8	9.6	43.2	151.2	199.3	237.7	312.1	429.7
65°	0.0	0.0	2.4	7.2	9.6	57.6	76.8	124.8	170.5	266.5
67.5°	0.0	0.0	2.4	4.8	7.2	14.4	26.4	45.6	91.2	151.2
70°	0.0	0.0	2.4	4.8	7.2	12.0	19.2	28.8	40.8	81.6
72.5°	0.0	0.0	2.4	2.4	4.8	12.0	14.4	19.2	28.8	40.8
75°	0.0	0.0	2.4	2.4	7.2	14.4	12.0	14.4	19.2	26.4
77.5°	0.0	0.0	2.4	4.8	7.2	14.4	12.0	14.4	14.4	16.8
80°	0.0	0.0	2.4	4.8	9.6	16.8	14.4	14.4	12.0	12.0
82.5°	0.0	0.0	2.4	7.2	9.6	21.6	21.6	19.2	9.6	7.2
85°	0.0	0.0	4.8	9.6	14.4	24.0	24.0	19.2	7.2	4.8
87.5°	0.0	0.0	4.8	7.2	12.0	16.8	24.0	19.2	7.2	2.4
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°
12973.7	0°	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7	12973.7
12932.9	2.5°	12997.7	12983.3	13031.3	13050.5	13076.9	12976.1	12913.7	12916.1	12800.8
12786.4	5°	12863.3	12865.7	12928.1	12923.3	12949.7	12894.5	12870.5	12829.6	12728.8
12601.6	7.5°	12692.8	12671.2	12731.2	12776.8	12709.6	12748.0	12692.8	12712.0	12652.0
12438.3	10°	12560.8	12510.3	12565.6	12596.8	12599.2	12560.8	12507.9	12457.5	12435.9
12183.8	12.5°	12267.9	12203.0	12296.7	12339.9	12332.7	12258.3	12198.2	12210.2	12140.6
11737.3	15°	11864.5	11866.9	11934.2	11975.0	11936.6	11919.8	11924.6	11895.7	11835.7
11120.3	17.5°	11247.5	11283.6	11461.2	11559.6	11581.3	11547.6	11530.8	11497.2	11437.2
10136.0	20°	10220.0	10436.1	10753.0	11057.9	11117.9	11108.3	11048.3	11033.9	11000.3
9161.3	22.5°	9317.3	9478.2	9845.5	10320.9	10565.7	10589.7	10517.7	10496.1	10460.1
8289.8	25°	8383.4	8556.3	8887.6	9403.8	9910.3	10013.6	10001.6	9936.7	9898.3
7516.8	27.5°	7596.0	7768.8	8068.9	8534.7	9077.3	9408.6	9439.8	9336.5	9334.1
6827.8	30°	6885.4	7123.0	7351.1	7730.4	8256.2	8753.2	8806.0	8734.0	8741.2
6196.4	32.5°	6328.4	6525.3	6719.7	6974.2	7411.1	7989.7	8196.2	8129.0	8102.6
5670.6	35°	5759.4	5893.9	6093.1	6326.0	6623.7	7197.5	7555.2	7504.8	7478.4
4960.0	37.5°	5111.2	5341.7	5485.7	5747.4	5980.3	6436.4	6940.6	6933.4	6878.2
4355.0	40°	4446.2	4688.7	4907.1	5171.2	5351.3	5713.8	6273.2	6270.8	6278.0
3728.4	42.5°	3843.6	4066.9	4331.0	4619.1	4791.9	5056.0	5656.2	5689.8	5730.6
3212.2	45°	3298.6	3500.3	3745.2	4095.7	4304.6	4455.8	4988.8	5142.4	5140.0
2751.3	47.5°	2808.9	2998.5	3205.0	3545.9	3812.4	3949.2	4391.0	4609.5	4595.0
2256.7	50°	2357.5	2525.6	2741.7	2988.9	3346.7	3466.7	3795.6	4083.7	4062.1
1798.2	52.5°	1896.6	2129.5	2311.9	2537.6	2914.5	3032.2	3286.6	3567.5	3550.7
1349.2	55°	1478.9	1704.5	1925.4	2119.9	2436.8	2612.0	2794.5	3082.6	3077.8
1056.3	57.5°	1118.8	1366.0	1574.9	1759.8	2011.8	2227.9	2374.3	2636.0	2669.6
722.6	60°	828.3	1017.9	1243.6	1450.1	1649.3	1872.6	1971.0	2227.9	2242.3
494.6	62.5°	564.2	773.0	993.9	1181.2	1330.0	1560.5	1649.3	1860.6	1887.0
316.9	65°	391.3	525.8	777.8	912.3	1094.7	1291.6	1380.4	1548.5	1601.3
182.5	67.5°	259.3	374.5	607.4	729.8	909.9	1044.3	1157.2	1294.0	1351.6
115.2	70°	141.6	276.1	434.5	576.2	732.2	861.9	972.3	1082.7	1133.2
52.8	72.5°	96.0	184.9	302.5	456.1	590.6	717.8	816.3	897.9	900.3
31.2	75°	48.0	124.8	230.5	352.9	460.9	585.8	674.6	722.6	665.0
19.2	77.5°	28.8	91.2	187.3	283.3	374.5	472.9	523.4	549.8	456.1
14.4	80°	16.8	64.8	146.4	225.7	259.3	348.1	396.1	403.3	304.9
9.6	82.5°	12.0	48.0	115.2	165.7	158.4	244.9	297.7	288.1	194.5
7.2	85°	7.2	33.6	72.0	103.2	96.0	160.9	172.9	177.7	112.8
4.8	87.5°	4.8	19.2	38.4	55.2	45.6	69.6	69.6	84.0	55.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12973.7
12652.0
12704.8
12551.2
12339.9
12080.6
11775.7
11410.8
10923.4
10450.5
9857.5
9329.3
8705.1
8105.0
7442.3
6923.8
6278.0
5709.0
5144.8
4599.8
4081.3
3586.7
3089.8
2655.2
2263.9
1891.8
1589.3
1344.4
1114.0
878.7
621.8
439.3
285.7
180.1
103.2
48.0
0.0

(END OF REPORT)