

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: P638445

Luminaire Tested: **IFLD-L-SA8B-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29996.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

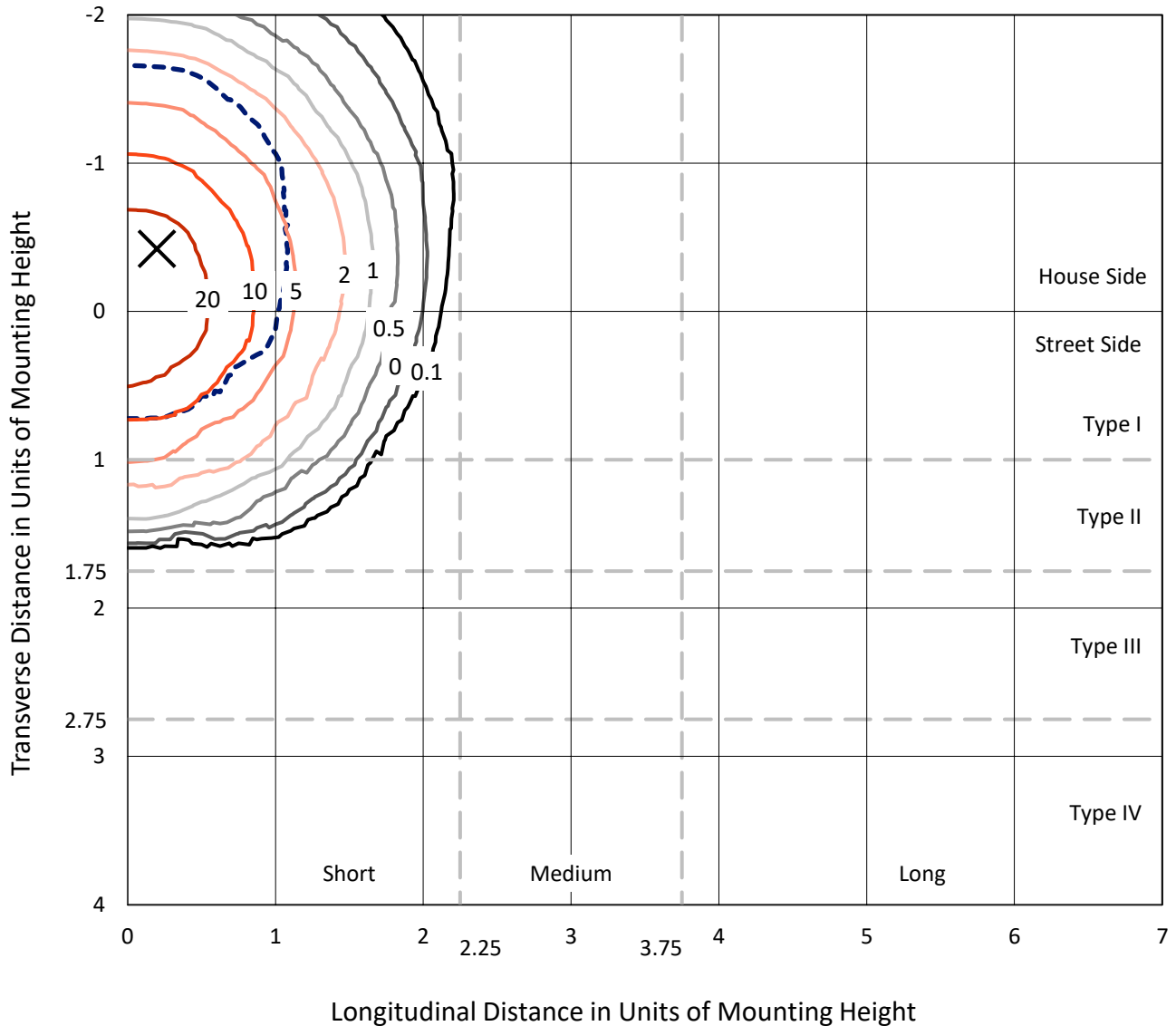
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

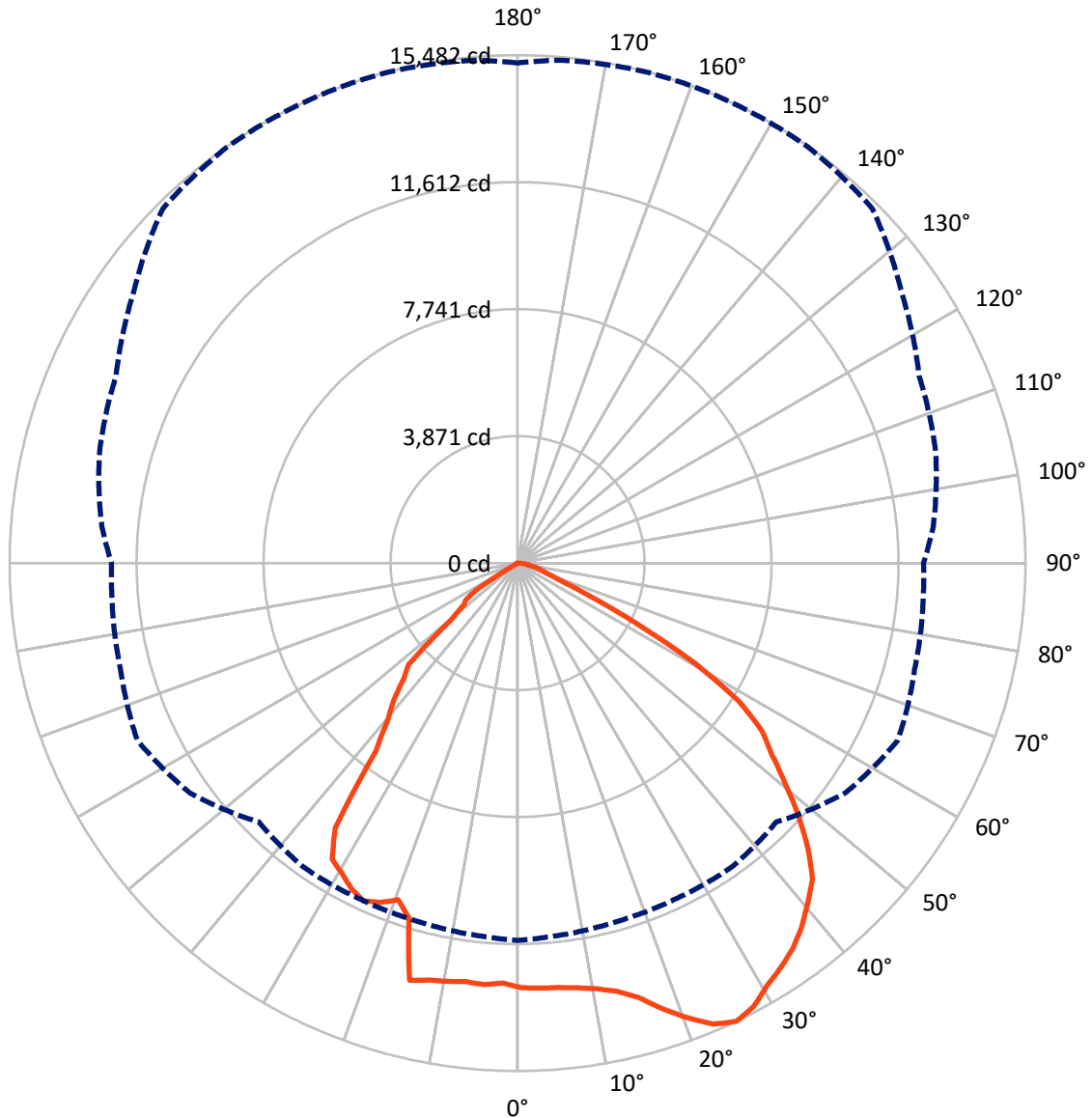
× Max cd
 - - - 1/2 Max cd



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 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18570.9	0.0	18570.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11425.5	0.0	11425.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	29996.4	0.0	29996.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1241.7	4.1
10°-20°	3791.5	12.6
20°-30°	5994.1	20.0
30°-40°	6770.9	22.6
40°-50°	6341.0	21.1
50°-60°	4371.7	14.6
60°-70°	1174.5	3.9
70°-80°	244.8	0.8
80°-90°	66.2	0.2
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°	29996.4	100.0
0°-180°	29996.4	100.0



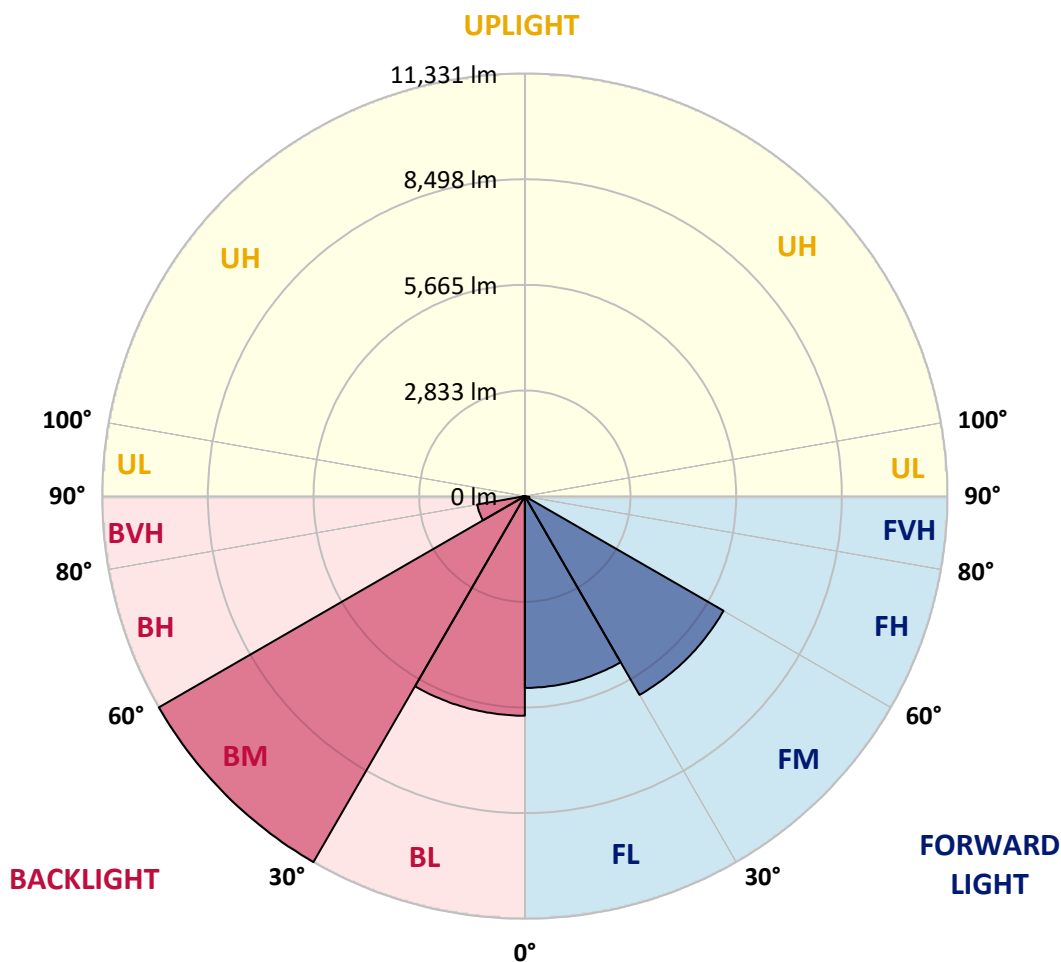
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5140.4	17.1			
FM	(30°-60°)	6152.9	20.5			
FH	(60°-80°)	123.3	0.4			G0/660
FVH	(80°-90°)	8.9	0.0			G0/10
BL	(0°-30°)	5886.9	19.6	B5		
BM	(30°-60°)	11330.7	37.8	B5		
BH	(60°-80°)	1296.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	57.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9
2.5°	13000.2	12916.5	12837.1	12810.7	12920.9	13039.9	12965.0	12969.4	12942.9	12991.4
5°	13097.2	12982.6	12929.7	12890.0	12907.7	13031.1	12925.3	12965.0	12920.9	12978.2
7.5°	13061.9	12982.6	12929.7	12854.8	12912.1	13057.5	12956.1	12960.6	12938.5	12991.4
10°	13039.9	12982.6	12916.5	12925.3	12991.4	13114.8	13035.5	13079.6	13048.7	13079.6
12.5°	13092.8	13031.1	12995.8	12995.8	13053.1	13194.2	13154.5	13194.2	13181.0	13207.4
15°	12594.7	12652.0	12987.0	13136.9	13251.5	13392.6	13374.9	13414.6	13423.4	13463.1
17.5°	10624.1	10566.8	10540.4	11311.8	13361.7	13798.1	13784.9	13780.5	13736.4	13705.6
20°	10884.2	10862.2	10831.3	10888.6	11117.9	14009.7	14097.9	13555.7	13397.0	13383.8
22.5°	11298.6	11263.3	11148.7	11153.1	11223.7	12180.3	13661.5	13167.7	13114.8	13084.0
25°	11501.4	11430.9	11338.3	11311.8	11333.9	11157.5	12202.3	12788.6	12528.5	12409.5
27.5°	11144.3	11148.7	11073.8	11144.3	11060.6	10267.1	9821.8	12048.0	12039.2	11986.3
30°	10875.4	10862.2	10774.0	10862.2	10284.7	9398.6	9209.0	11236.9	11144.3	11073.8
32.5°	10051.0	10059.9	10315.5	10659.4	9711.6	9010.7	8437.6	10037.8	10915.1	10875.4
35°	7190.0	7207.7	8115.8	9813.0	8843.2	8239.2	8195.1	8675.6	10553.6	10571.2
37.5°	6921.1	6921.1	6899.1	7176.8	8159.9	7926.2	8014.4	7965.9	9667.5	9711.6
40°	6727.1	6687.5	6656.6	6220.2	5673.5	7705.8	7767.5	7547.1	9138.5	9147.3
42.5°	6493.5	6449.4	6458.2	5651.5	5078.4	7159.2	6987.2	6691.9	8256.8	8265.7
45°	6065.9	6140.8	6193.7	4946.2	4902.1	5113.7	6445.0	6259.9	7661.7	7824.8
47.5°	3085.8	3152.0	4836.0	4549.4	4650.8	4545.0	5444.3	5448.7	6374.5	6916.7
50°	2799.3	2781.7	2786.1	2653.8	4293.7	3676.6	3936.7	4994.7	5104.9	5880.7
52.5°	2609.7	2605.3	2336.4	2076.3	2697.9	3235.7	2856.6	3614.8	3795.6	4981.4
55°	1930.9	2071.9	1842.7	1952.9	1688.4	2592.1	2578.9	3262.2	3323.9	3994.0
57.5°	17.6	22.0	52.9	1485.6	1168.2	1296.1	1781.0	2226.2	2336.4	3112.3
60°	4.4	8.8	22.0	44.1	758.2	797.9	1190.3	1287.2	1450.3	1855.9
62.5°	0.0	0.0	8.8	22.0	39.7	326.2	379.1	414.4	639.2	947.8
65°	0.0	0.0	4.4	13.2	22.0	52.9	92.6	194.0	277.7	343.9
67.5°	0.0	0.0	4.4	8.8	17.6	26.5	52.9	74.9	119.0	202.8
70°	0.0	0.0	4.4	8.8	13.2	22.0	35.3	52.9	70.5	101.4
72.5°	0.0	0.0	4.4	8.8	8.8	26.5	26.5	39.7	52.9	66.1
75°	0.0	0.0	4.4	4.4	8.8	17.6	26.5	30.9	35.3	52.9
77.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	35.3	30.9	30.9
80°	0.0	0.0	4.4	13.2	13.2	22.0	26.5	35.3	22.0	22.0
82.5°	0.0	0.0	4.4	17.6	13.2	44.1	44.1	48.5	17.6	17.6
85°	0.0	0.0	13.2	8.8	26.5	44.1	39.7	26.5	22.0	13.2
87.5°	0.0	0.0	4.4	4.4	8.8	13.2	30.9	26.5	8.8	8.8
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°
12942.9	0°	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9	12942.9
12863.6	2.5°	13039.9	12982.6	13101.6	13088.4	13031.1	13004.6	12973.8	12947.3	12753.4
12872.4	5°	13044.3	12956.1	13101.6	13075.2	13066.4	13022.3	12995.8	13035.5	12859.2
12907.7	7.5°	13044.3	12956.1	13114.8	13123.7	13110.4	13075.2	13070.8	13097.2	12951.7
12969.4	10°	13132.5	13097.2	13229.5	13242.7	13225.1	13216.2	13194.2	13176.6	13022.3
13181.0	12.5°	13317.6	13247.1	13397.0	13436.7	13423.4	13445.5	13392.6	13419.0	13260.3
13397.0	15°	13542.5	13546.9	13661.5	13749.6	13740.8	13811.4	13732.0	13802.5	13687.9
13643.8	17.5°	13886.3	13934.8	14097.9	14230.2	14278.7	14331.6	14278.7	14300.7	14137.6
13370.5	20°	13524.8	13705.6	14490.3	14732.7	14834.1	14882.6	14794.4	14820.9	14657.8
13035.5	22.5°	13198.6	13432.2	14128.8	14887.0	15200.0	15297.0	15266.1	15261.7	15200.0
12374.2	25°	12718.1	13189.8	13502.8	14305.1	15288.2	15464.5	15482.1	15477.7	15385.1
11968.7	27.5°	12127.4	12233.2	13044.3	13533.6	14671.0	15341.1	15314.6	15186.8	15063.3
11126.7	30°	11373.5	11854.1	12220.0	13000.2	13873.1	14961.9	14961.9	14865.0	14737.1
10826.9	32.5°	10990.0	11611.6	11951.0	12233.2	12978.2	14538.7	14715.1	14613.7	14512.3
10593.3	35°	10787.2	10879.8	11673.3	11929.0	12559.4	13723.2	14437.4	14336.0	14261.0
9971.7	37.5°	10342.0	10558.0	10928.3	11611.6	11805.6	13057.5	14067.1	14014.1	13926.0
9165.0	40°	9350.1	9927.6	10496.3	11144.3	11347.1	12202.3	13617.4	13639.4	13520.4
8305.3	42.5°	8763.8	9156.1	10046.6	10483.1	11029.7	11651.3	13181.0	13216.2	13132.5
7868.9	45°	8076.1	8512.5	9138.5	9932.0	10677.0	10893.0	12409.5	12779.8	12709.3
7000.5	47.5°	7445.7	7798.4	8565.4	9367.7	10192.1	10161.3	11523.4	12220.0	12123.0
6334.8	50°	6550.8	7168.0	7529.5	8265.7	9495.6	9579.3	10580.0	11563.1	11483.8
5382.6	52.5°	5523.7	6299.5	6991.6	7666.1	8790.3	8988.6	9702.8	10893.0	10840.1
4113.0	55°	4827.1	5391.4	6171.7	6713.9	7935.0	8464.0	9045.9	10253.8	10227.4
3381.2	57.5°	3434.1	4523.0	5166.6	5924.8	6568.4	7525.1	7957.1	8953.4	8706.5
1873.5	60°	2327.6	2839.0	3623.7	4439.2	4871.2	5827.8	6229.0	7026.9	6960.8
1119.7	62.5°	1229.9	1701.6	2261.5	2671.5	2984.5	3914.6	4082.1	4941.8	4919.7
449.7	65°	542.2	718.6	1225.5	1437.1	1758.9	2191.0	2336.4	2645.0	2570.1
220.4	67.5°	282.1	427.6	692.1	850.8	1071.2	1234.3	1353.4	1450.3	1512.1
145.5	70°	171.9	313.0	427.6	590.7	736.2	868.4	961.0	1093.3	1172.6
74.9	72.5°	127.8	198.4	295.4	454.1	533.4	687.7	780.3	877.3	947.8
61.7	75°	70.5	132.3	238.1	357.1	427.6	559.9	643.6	709.7	731.8
35.3	77.5°	44.1	101.4	198.4	277.7	335.0	454.1	432.0	493.7	546.6
26.5	80°	30.9	74.9	154.3	229.2	233.6	291.0	343.9	396.8	432.0
17.6	82.5°	22.0	61.7	114.6	176.3	154.3	224.8	268.9	308.6	224.8
13.2	85°	17.6	44.1	57.3	105.8	88.2	158.7	136.7	132.3	88.2
8.8	87.5°	13.2	22.0	39.7	48.5	35.3	35.3	44.1	52.9	44.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12942.9
12621.1
12709.3
12784.2
12894.4
13119.3
13498.4
13996.5
14543.2
15001.6
15244.1
14966.4
14688.6
14428.5
14155.2
13837.8
13494.0
13123.7
12718.1
12193.5
11497.0
10875.4
10258.2
8680.0
6965.2
4924.1
2539.2
1512.1
1177.0
961.0
718.6
555.5
436.4
163.1
88.2
44.1
0.0

(END OF REPORT)