

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: P638331

Luminaire Tested: **IFLD-L-SA8D-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638331
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30265.4 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

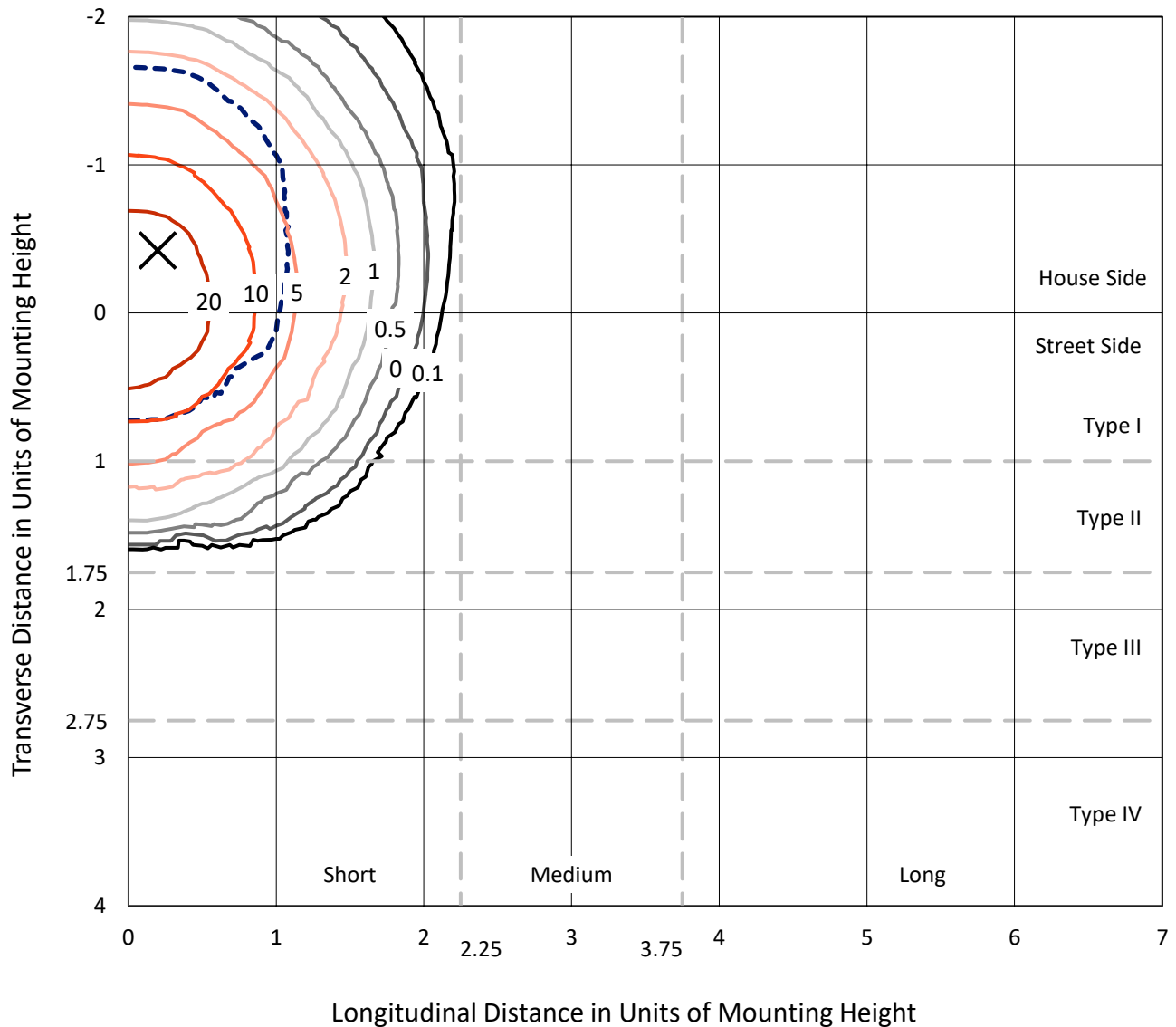
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

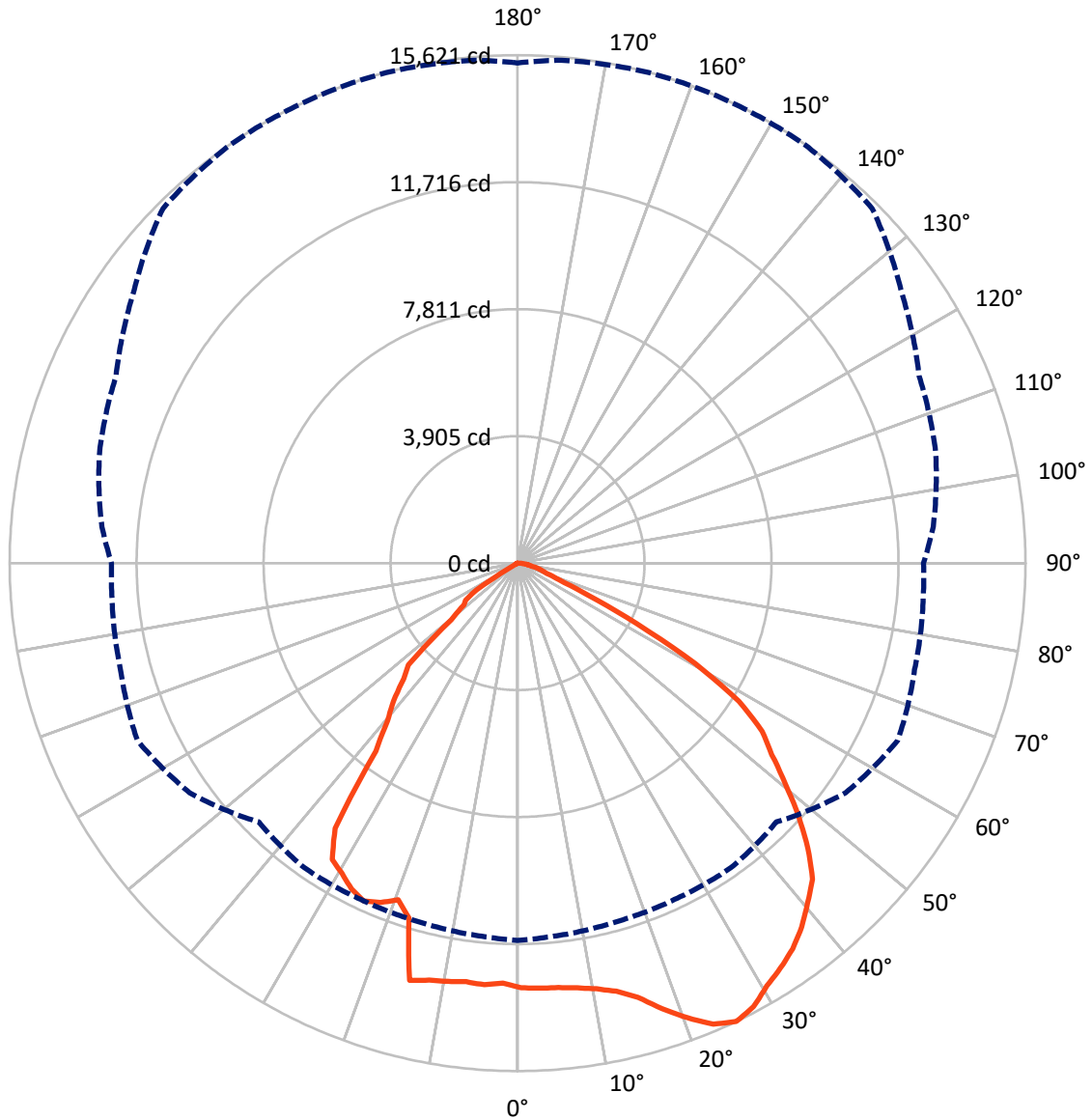
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.6 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	18737.4	0.0	18737.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11528.0	0.0	11528.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	30265.4	0.0	30265.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1252.8	4.1
10°-20°	3825.5	12.6
20°-30°	6047.9	20.0
30°-40°	6831.6	22.6
40°-50°	6397.9	21.1
50°-60°	4410.9	14.6
60°-70°	1185.1	3.9
70°-80°	247.0	0.8
80°-90°	66.8	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°	30265.4	100.0
0°-180°	30265.4	100.0



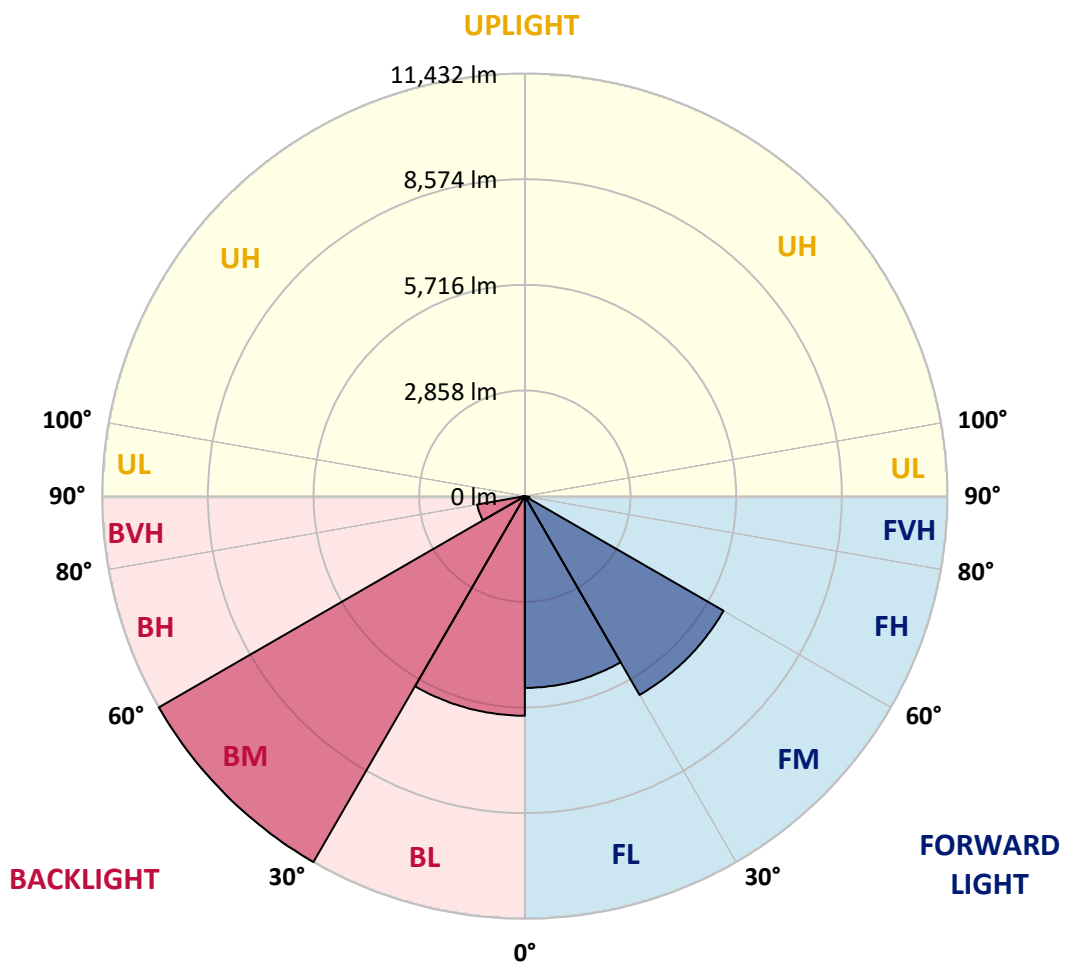
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5186.5	17.1			
FM (30°-60°)	6208.1	20.5			
FH (60°-80°)	124.4	0.4			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	5939.7	19.6	B5		
BM (30°-60°)	11432.3	37.8	B5		
BH (60°-80°)	1307.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.8	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°	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0
2.5°	13116.8	13032.3	12952.3	12925.6	13036.8	13156.9	13081.2	13085.7	13059.0	13107.9
5°	13214.7	13099.0	13045.7	13005.6	13023.4	13148.0	13041.2	13081.2	13036.8	13094.6
7.5°	13179.1	13099.0	13045.7	12970.1	13027.9	13174.7	13072.4	13076.8	13054.6	13107.9
10°	13156.9	13099.0	13032.3	13041.2	13107.9	13232.5	13152.4	13196.9	13165.8	13196.9
12.5°	13210.2	13148.0	13112.4	13112.4	13170.2	13312.5	13272.5	13312.5	13299.2	13325.9
15°	12707.6	12765.4	13103.5	13254.7	13370.4	13512.7	13494.9	13534.9	13543.8	13583.9
17.5°	10719.4	10661.6	10634.9	11413.3	13481.6	13921.9	13908.6	13904.1	13859.6	13828.5
20°	10981.8	10959.6	10928.5	10986.3	11217.6	14135.4	14224.4	13677.3	13517.1	13503.8
22.5°	11399.9	11364.4	11248.7	11253.2	11324.3	12289.5	13784.0	13285.9	13232.5	13201.3
25°	11604.5	11533.4	11440.0	11413.3	11435.5	11257.6	12311.8	12903.3	12640.9	12520.8
27.5°	11244.3	11248.7	11173.1	11244.3	11159.8	10359.1	9909.9	12156.1	12147.2	12093.8
30°	10972.9	10959.6	10870.6	10959.6	10376.9	9482.9	9291.6	11337.7	11244.3	11173.1
32.5°	10141.2	10150.1	10408.1	10755.0	9798.7	9091.5	8513.3	10127.8	11013.0	10972.9
35°	7254.5	7272.3	8188.6	9901.0	8922.5	8313.1	8268.6	8753.4	10648.3	10666.0
37.5°	6983.2	6983.2	6960.9	7241.2	8233.0	7997.3	8086.3	8037.3	9754.2	9798.7
40°	6787.5	6747.5	6716.3	6276.0	5724.4	7774.9	7837.2	7614.8	9220.5	9229.4
42.5°	6551.7	6507.3	6516.2	5702.2	5124.0	7223.4	7049.9	6751.9	8330.9	8339.8
45°	6120.3	6195.9	6249.3	4990.5	4946.1	5159.6	6502.8	6316.0	7730.4	7895.0
47.5°	3113.5	3180.2	4879.3	4590.2	4692.5	4585.8	5493.1	5497.6	6431.7	6978.7
50°	2824.4	2806.6	2811.1	2677.6	4332.2	3709.5	3972.0	5039.5	5150.7	5933.5
52.5°	2633.2	2628.7	2357.4	2095.0	2722.1	3264.8	2882.2	3647.3	3829.6	5026.1
55°	1948.2	2090.5	1859.2	1970.4	1703.5	2615.4	2602.0	3291.4	3353.7	4029.8
57.5°	17.8	22.2	53.4	1498.9	1178.7	1307.7	1796.9	2246.2	2357.4	3140.2
60°	4.4	8.9	22.2	44.5	765.0	805.1	1200.9	1298.8	1463.4	1872.6
62.5°	0.0	0.0	8.9	22.2	40.0	329.1	382.5	418.1	644.9	956.3
65°	0.0	0.0	4.4	13.3	22.2	53.4	93.4	195.7	280.2	346.9
67.5°	0.0	0.0	4.4	8.9	17.8	26.7	53.4	75.6	120.1	204.6
70°	0.0	0.0	4.4	8.9	13.3	22.2	35.6	53.4	71.2	102.3
72.5°	0.0	0.0	4.4	8.9	8.9	26.7	26.7	40.0	53.4	66.7
75°	0.0	0.0	4.4	4.4	8.9	17.8	26.7	31.1	35.6	53.4
77.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	35.6	31.1	31.1
80°	0.0	0.0	4.4	13.3	13.3	22.2	26.7	35.6	22.2	22.2
82.5°	0.0	0.0	4.4	17.8	13.3	44.5	44.5	48.9	17.8	17.8
85°	0.0	0.0	13.3	8.9	26.7	44.5	40.0	26.7	22.2	13.3
87.5°	0.0	0.0	4.4	4.4	8.9	13.3	31.1	26.7	8.9	8.9
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°
13059.0	0°	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0	13059.0
12978.9	2.5°	13156.9	13099.0	13219.1	13205.8	13148.0	13121.3	13090.1	13063.5	12867.7
12987.8	5°	13161.3	13072.4	13219.1	13192.4	13183.5	13139.1	13112.4	13152.4	12974.5
13023.4	7.5°	13161.3	13072.4	13232.5	13241.4	13228.0	13192.4	13188.0	13214.7	13067.9
13085.7	10°	13250.3	13214.7	13348.1	13361.5	13343.7	13334.8	13312.5	13294.7	13139.1
13299.2	12.5°	13437.1	13365.9	13517.1	13557.2	13543.8	13566.1	13512.7	13539.4	13379.3
13517.1	15°	13663.9	13668.4	13784.0	13873.0	13864.1	13935.2	13855.2	13926.3	13810.7
13766.2	17.5°	14010.9	14059.8	14224.4	14357.8	14406.7	14460.1	14406.7	14429.0	14264.4
13490.5	20°	13646.1	13828.5	14620.2	14864.9	14967.2	15016.1	14927.1	14953.8	14789.2
13152.4	22.5°	13317.0	13552.7	14255.5	15020.5	15336.3	15434.2	15403.0	15398.6	15336.3
12485.2	25°	12832.2	13308.1	13623.9	14433.4	15425.3	15603.2	15621.0	15616.5	15523.1
12076.0	27.5°	12236.1	12342.9	13161.3	13655.0	14802.6	15478.7	15452.0	15323.0	15198.4
11226.5	30°	11475.6	11960.4	12329.6	13116.8	13997.5	15096.1	15096.1	14998.3	14869.3
10924.0	32.5°	11088.6	11715.7	12058.2	12342.9	13094.6	14669.1	14847.1	14744.8	14642.5
10688.3	35°	10884.0	10977.4	11778.0	12036.0	12672.0	13846.3	14566.8	14464.5	14388.9
10061.1	37.5°	10434.8	10652.7	11026.3	11715.7	11911.5	13174.7	14193.2	14139.8	14050.9
9247.2	40°	9434.0	10016.7	10590.4	11244.3	11448.9	12311.8	13739.5	13761.8	13641.7
8379.8	42.5°	8842.4	9238.3	10136.7	10577.1	11128.6	11755.8	13299.2	13334.8	13250.3
7939.5	45°	8148.5	8588.9	9220.5	10021.1	10772.8	10990.7	12520.8	12894.4	12823.3
7063.3	47.5°	7512.5	7868.3	8642.3	9451.8	10283.5	10252.4	11626.8	12329.6	12231.7
6391.6	50°	6609.6	7232.3	7597.0	8339.8	9580.8	9665.3	10674.9	11666.8	11586.8
5430.9	52.5°	5573.2	6356.0	7054.4	7734.9	8869.1	9069.2	9789.8	10990.7	10937.4
4149.9	55°	4870.4	5439.8	6227.0	6774.1	8006.2	8540.0	9127.1	10345.8	10319.1
3411.5	57.5°	3464.9	4563.5	5212.9	5978.0	6627.4	7592.6	8028.4	9033.7	8784.6
1890.4	60°	2348.5	2864.4	3656.2	4479.0	4914.9	5880.1	6284.9	7089.9	7023.2
1129.8	62.5°	1241.0	1716.9	2281.8	2695.4	3011.2	3949.7	4118.7	4986.1	4963.8
453.7	65°	547.1	725.0	1236.5	1450.0	1774.7	2210.6	2357.4	2668.7	2593.1
222.4	67.5°	284.7	431.4	698.3	858.4	1080.8	1245.4	1365.5	1463.4	1525.6
146.8	70°	173.5	315.8	431.4	596.0	742.8	876.2	969.6	1103.1	1183.1
75.6	72.5°	129.0	200.2	298.0	458.1	538.2	693.9	787.3	885.1	956.3
62.3	75°	71.2	133.4	240.2	360.3	431.4	564.9	649.4	716.1	738.3
35.6	77.5°	44.5	102.3	200.2	280.2	338.0	458.1	435.9	498.2	551.5
26.7	80°	31.1	75.6	155.7	231.3	235.7	293.6	346.9	400.3	435.9
17.8	82.5°	22.2	62.3	115.6	177.9	155.7	226.8	271.3	311.4	226.8
13.3	85°	17.8	44.5	57.8	106.7	89.0	160.1	137.9	133.4	89.0
8.9	87.5°	13.3	22.2	40.0	48.9	35.6	35.6	44.5	53.4	44.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13059.0
12734.3
12823.3
12898.9
13010.1
13236.9
13619.4
14122.1
14673.6
15136.2
15380.8
15100.6
14820.4
14557.9
14282.2
13961.9
13615.0
13241.4
12832.2
12302.9
11600.1
10972.9
10350.2
8757.9
7027.7
4968.3
2562.0
1525.6
1187.6
969.6
725.0
560.4
440.3
164.6
89.0
44.5
0.0

(END OF REPORT)