

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: P636960

Luminaire Tested: **IFLD-L-SA7A-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636960
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16670.1 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

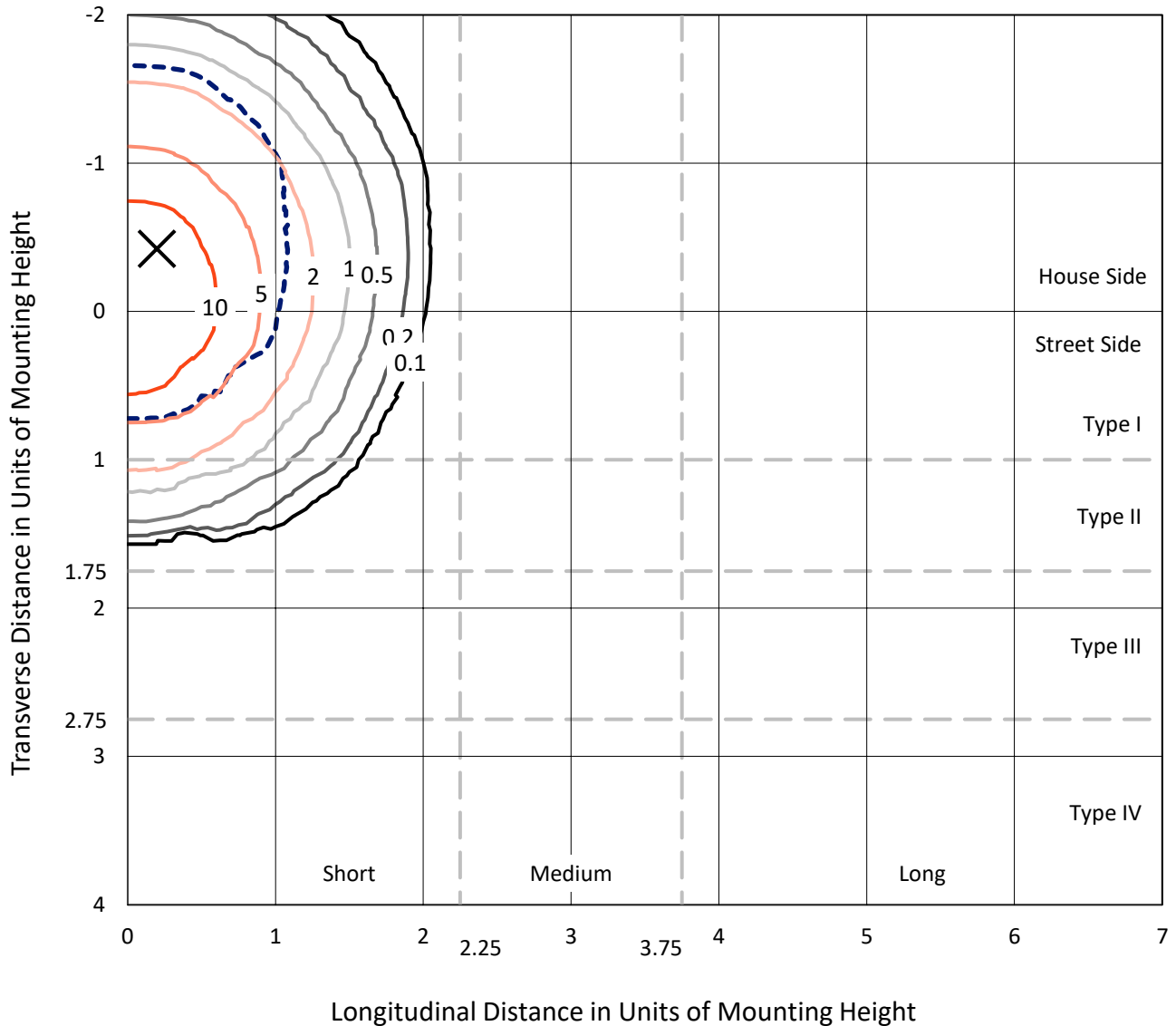
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636960
 CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

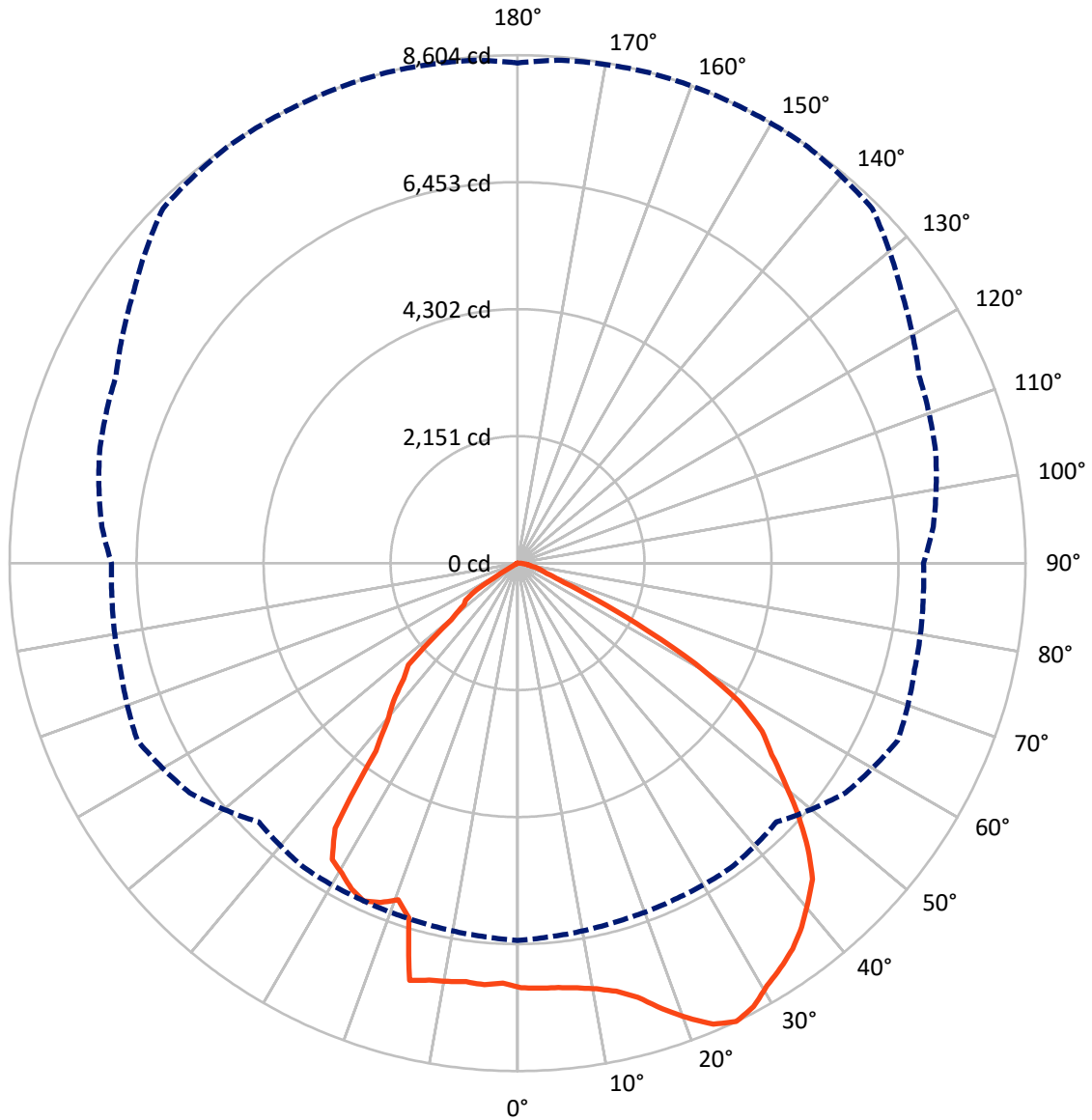
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18 fc
 Type I - Short - N/A

REPORT NUMBER: P636960
CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636960

CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10320.5	0.0	10320.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6349.6	0.0	6349.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	16670.1	0.0	16670.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.1	4.1
10°-20°	2107.1	12.6
20°-30°	3331.1	20.0
30°-40°	3762.8	22.6
40°-50°	3524.0	21.1
50°-60°	2429.5	14.6
60°-70°	652.7	3.9
70°-80°	136.0	0.8
80°-90°	36.8	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°	16670.1	100.0
0°-180°	16670.1	100.0



REPORT NUMBER: P636960

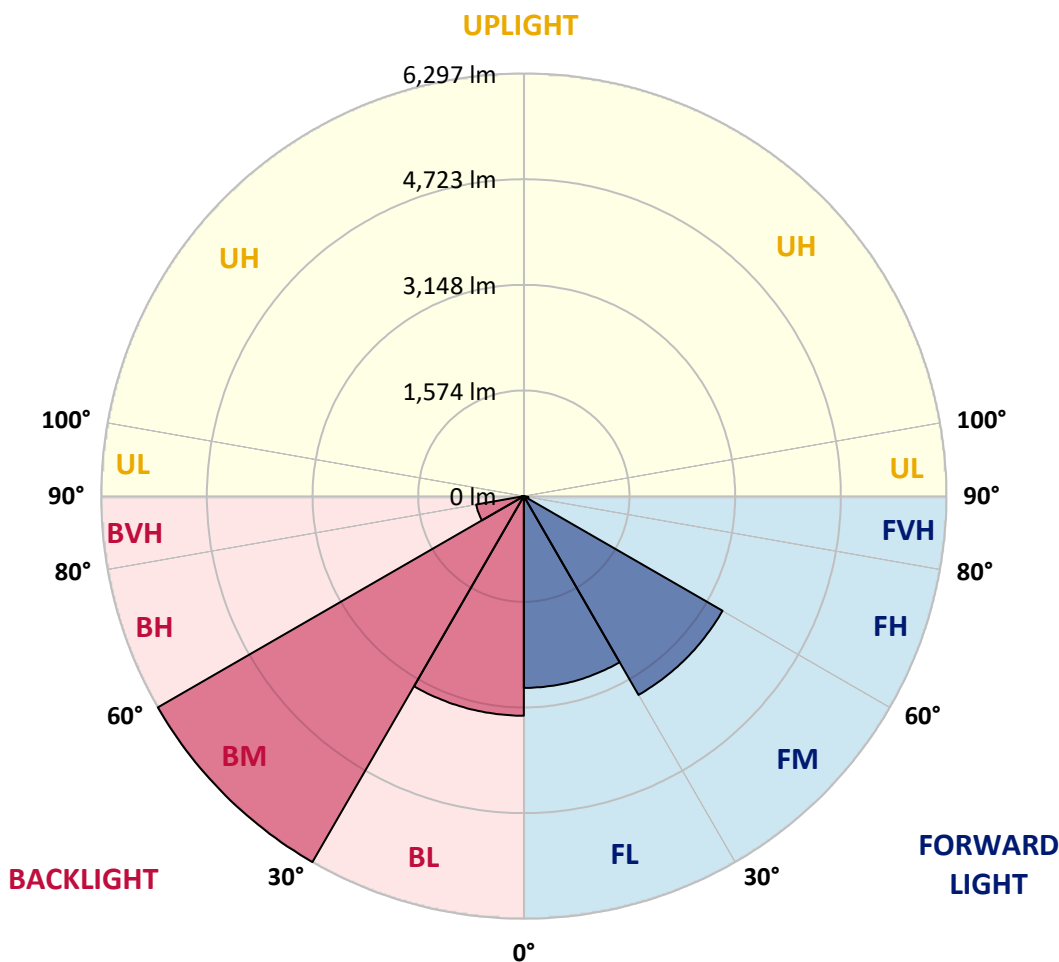
CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.7	17.1			
FM (30°-60°)	3419.4	20.5			
FH (60°-80°)	68.5	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3271.5	19.6	B4/5000		
BM (30°-60°)	6296.9	37.8	B4/8500		
BH (60°-80°)	720.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.9	0.2			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





REPORT NUMBER: P636960
 CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9
2.5°	7224.7	7178.2	7134.1	7119.4	7180.6	7246.8	7205.1	7207.6	7192.9	7219.8
5°	7278.6	7214.9	7185.5	7163.5	7173.3	7241.9	7183.1	7205.1	7180.6	7212.5
7.5°	7259.0	7214.9	7185.5	7143.9	7175.7	7256.6	7200.2	7202.7	7190.4	7219.8
10°	7246.8	7214.9	7178.2	7183.1	7219.8	7288.4	7244.3	7268.8	7251.7	7268.8
12.5°	7276.2	7241.9	7222.3	7222.3	7254.1	7332.5	7310.5	7332.5	7325.2	7339.9
15°	6999.3	7031.2	7217.4	7300.7	7364.3	7442.7	7432.9	7455.0	7459.9	7481.9
17.5°	5904.2	5872.4	5857.7	6286.4	7425.6	7668.1	7660.8	7658.3	7633.8	7616.7
20°	6048.8	6036.5	6019.4	6051.2	6178.6	7785.7	7834.7	7533.4	7445.2	7437.8
22.5°	6279.1	6259.5	6195.8	6198.2	6237.4	6769.0	7592.2	7317.8	7288.4	7271.3
25°	6391.7	6352.5	6301.1	6286.4	6298.7	6200.7	6781.3	7107.1	6962.6	6896.4
27.5°	6193.3	6195.8	6154.1	6193.3	6146.8	5705.8	5458.3	6695.5	6690.6	6661.2
30°	6043.9	6036.5	5987.5	6036.5	5715.6	5223.2	5117.8	6244.8	6193.3	6154.1
32.5°	5585.7	5590.6	5732.7	5923.8	5397.1	5007.6	4689.1	5578.4	6065.9	6043.9
35°	3995.8	4005.6	4510.2	5453.4	4914.5	4578.8	4554.3	4821.4	5865.0	5874.8
37.5°	3846.3	3846.3	3834.1	3988.4	4534.7	4404.9	4453.9	4426.9	5372.6	5397.1
40°	3738.5	3716.5	3699.3	3456.8	3153.0	4282.4	4316.7	4194.2	5078.6	5083.5
42.5°	3608.7	3584.2	3589.1	3140.8	2822.3	3978.6	3883.1	3718.9	4588.6	4593.5
45°	3371.0	3412.7	3442.1	2748.8	2724.3	2841.9	3581.7	3478.8	4257.9	4348.5
47.5°	1714.9	1751.7	2687.5	2528.3	2584.6	2525.8	3025.6	3028.1	3542.5	3843.9
50°	1555.7	1545.9	1548.3	1474.8	2386.2	2043.2	2187.7	2775.7	2837.0	3268.1
52.5°	1450.3	1447.9	1298.4	1153.9	1499.3	1798.2	1587.5	2008.9	2109.3	2768.4
55°	1073.0	1151.4	1024.1	1085.3	938.3	1440.5	1433.2	1812.9	1847.2	2219.6
57.5°	9.8	12.2	29.4	825.6	649.2	720.3	989.8	1237.2	1298.4	1729.6
60°	2.4	4.9	12.2	24.5	421.4	443.4	661.5	715.4	806.0	1031.4
62.5°	0.0	0.0	4.9	12.2	22.0	181.3	210.7	230.3	355.2	526.7
65°	0.0	0.0	2.4	7.3	12.2	29.4	51.4	107.8	154.3	191.1
67.5°	0.0	0.0	2.4	4.9	9.8	14.7	29.4	41.6	66.1	112.7
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.4	39.2	56.3
72.5°	0.0	0.0	2.4	4.9	4.9	14.7	14.7	22.0	29.4	36.7
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.7	17.1	19.6	29.4
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.6	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.7	19.6	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.5	24.5	26.9	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.7	24.5	22.0	14.7	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.7	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636960

CATALOG NUMBER: IFLD-L-SA7A-940-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7192.9	0°	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9	7192.9
7148.8	2.5°	7246.8	7214.9	7281.1	7273.7	7241.9	7227.2	7210.0	7195.3	7087.5
7153.7	5°	7249.2	7200.2	7281.1	7266.4	7261.5	7237.0	7222.3	7244.3	7146.3
7173.3	7.5°	7249.2	7200.2	7288.4	7293.3	7286.0	7266.4	7263.9	7278.6	7197.8
7207.6	10°	7298.2	7278.6	7352.1	7359.4	7349.7	7344.8	7332.5	7322.7	7237.0
7325.2	12.5°	7401.1	7361.9	7445.2	7467.2	7459.9	7472.1	7442.7	7457.4	7369.2
7445.2	15°	7526.0	7528.5	7592.2	7641.2	7636.3	7675.5	7631.4	7670.6	7606.9
7582.4	17.5°	7717.1	7744.1	7834.7	7908.2	7935.2	7964.6	7935.2	7947.4	7856.8
7430.5	20°	7516.2	7616.7	8052.8	8187.5	8243.9	8270.8	8221.8	8236.5	8145.9
7244.3	22.5°	7335.0	7464.8	7851.9	8273.3	8447.2	8501.1	8483.9	8481.5	8447.2
6876.8	25°	7067.9	7330.1	7504.0	7949.9	8496.2	8594.2	8604.0	8601.5	8550.1
6651.4	27.5°	6739.6	6798.4	7249.2	7521.1	8153.2	8525.6	8510.9	8439.8	8371.3
6183.5	30°	6320.7	6587.7	6791.1	7224.7	7709.8	8314.9	8314.9	8261.0	8190.0
6016.9	32.5°	6107.6	6453.0	6641.6	6798.4	7212.5	8079.7	8177.7	8121.4	8065.0
5887.1	35°	5994.9	6046.3	6487.3	6629.4	6979.7	7626.5	8023.4	7967.0	7925.4
5541.6	37.5°	5747.4	5867.5	6073.3	6453.0	6560.8	7256.6	7817.6	7788.2	7739.2
5093.3	40°	5196.2	5517.1	5833.2	6193.3	6306.0	6781.3	7567.7	7579.9	7513.8
4615.6	42.5°	4870.4	5088.4	5583.3	5825.8	6129.6	6475.0	7325.2	7344.8	7298.2
4373.0	45°	4488.2	4730.7	5078.6	5519.6	5933.6	6053.7	6896.4	7102.2	7063.0
3890.4	47.5°	4137.9	4333.8	4760.1	5206.0	5664.1	5647.0	6404.0	6791.1	6737.2
3520.5	50°	3640.5	3983.5	4184.4	4593.5	5277.0	5323.6	5879.7	6426.0	6381.9
2991.3	52.5°	3069.7	3500.9	3885.5	4260.3	4885.1	4995.3	5392.2	6053.7	6024.3
2285.7	55°	2682.6	2996.2	3429.8	3731.2	4409.8	4703.8	5027.2	5698.4	5683.7
1879.1	57.5°	1908.5	2513.6	2871.3	3292.6	3650.3	4182.0	4422.0	4975.7	4838.5
1041.2	60°	1293.5	1577.7	2013.8	2467.0	2707.1	3238.7	3461.7	3905.1	3868.4
622.3	62.5°	683.5	945.7	1256.8	1484.6	1658.6	2175.5	2268.6	2746.3	2734.1
249.9	65°	301.3	399.3	681.1	798.7	977.5	1217.6	1298.4	1469.9	1428.3
122.5	67.5°	156.8	237.6	384.6	472.8	595.3	686.0	752.1	806.0	840.3
80.8	70°	95.5	173.9	237.6	328.3	409.1	482.6	534.1	607.6	651.7
41.6	72.5°	71.0	110.2	164.1	252.3	296.4	382.2	433.6	487.5	526.7
34.3	75°	39.2	73.5	132.3	198.4	237.6	311.1	357.7	394.4	406.7
19.6	77.5°	24.5	56.3	110.2	154.3	186.2	252.3	240.1	274.4	303.8
14.7	80°	17.1	41.6	85.7	127.4	129.8	161.7	191.1	220.5	240.1
9.8	82.5°	12.2	34.3	63.7	98.0	85.7	124.9	149.4	171.5	124.9
7.3	85°	9.8	24.5	31.8	58.8	49.0	88.2	75.9	73.5	49.0
4.9	87.5°	7.3	12.2	22.0	26.9	19.6	19.6	24.5	29.4	24.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7192.9
7014.0
7063.0
7104.7
7165.9
7290.9
7501.5
7778.4
8082.2
8337.0
8471.7
8317.4
8163.0
8018.5
7866.6
7690.2
7499.1
7293.3
7067.9
6776.4
6389.3
6043.9
5700.9
4823.8
3870.8
2736.5
1411.1
840.3
654.1
534.1
399.3
308.7
242.5
90.6
49.0
24.5
0.0

(END OF REPORT)