

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: P638329

Luminaire Tested: **IFLD-L-SA8B-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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: 22095.3 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

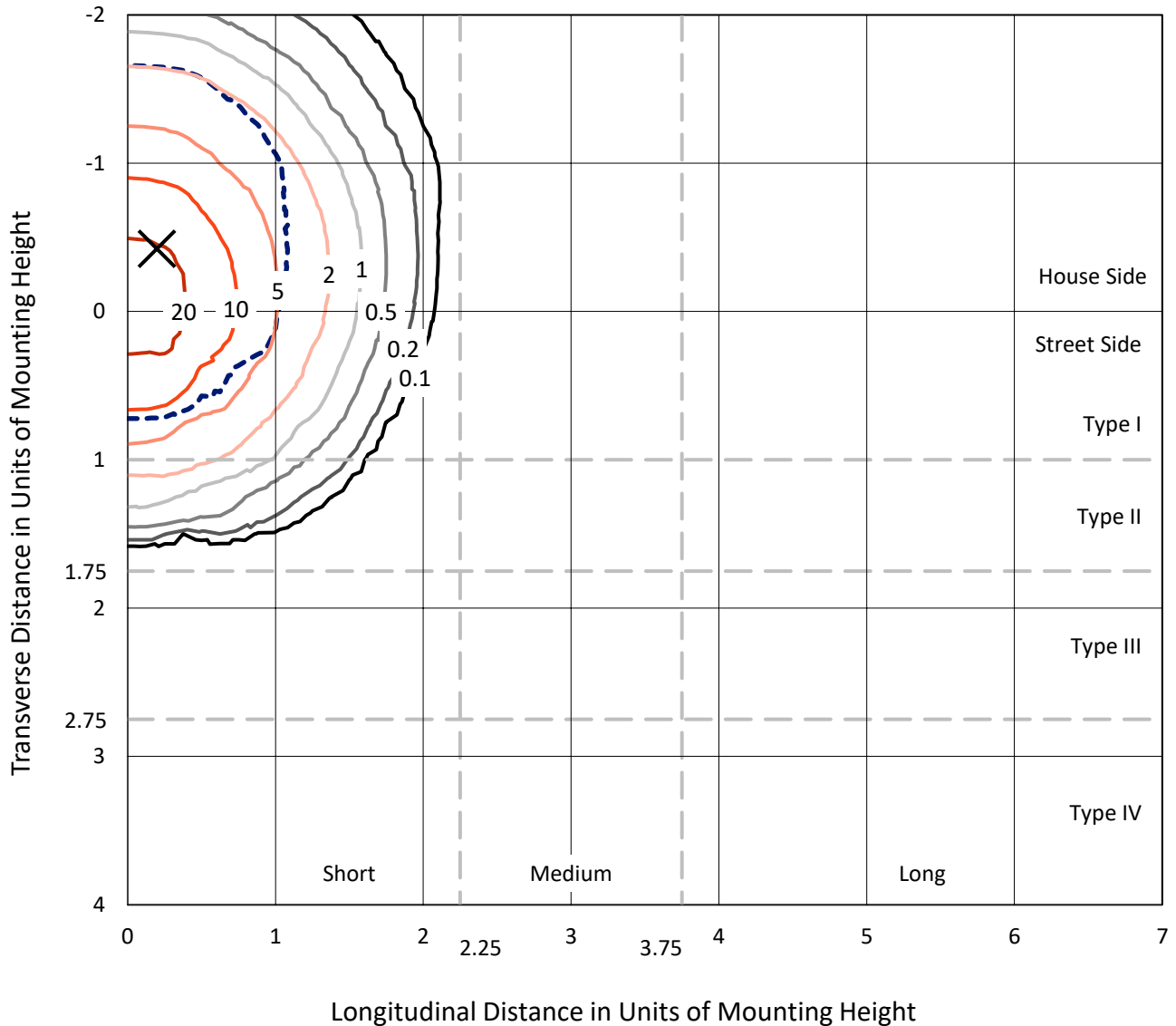
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

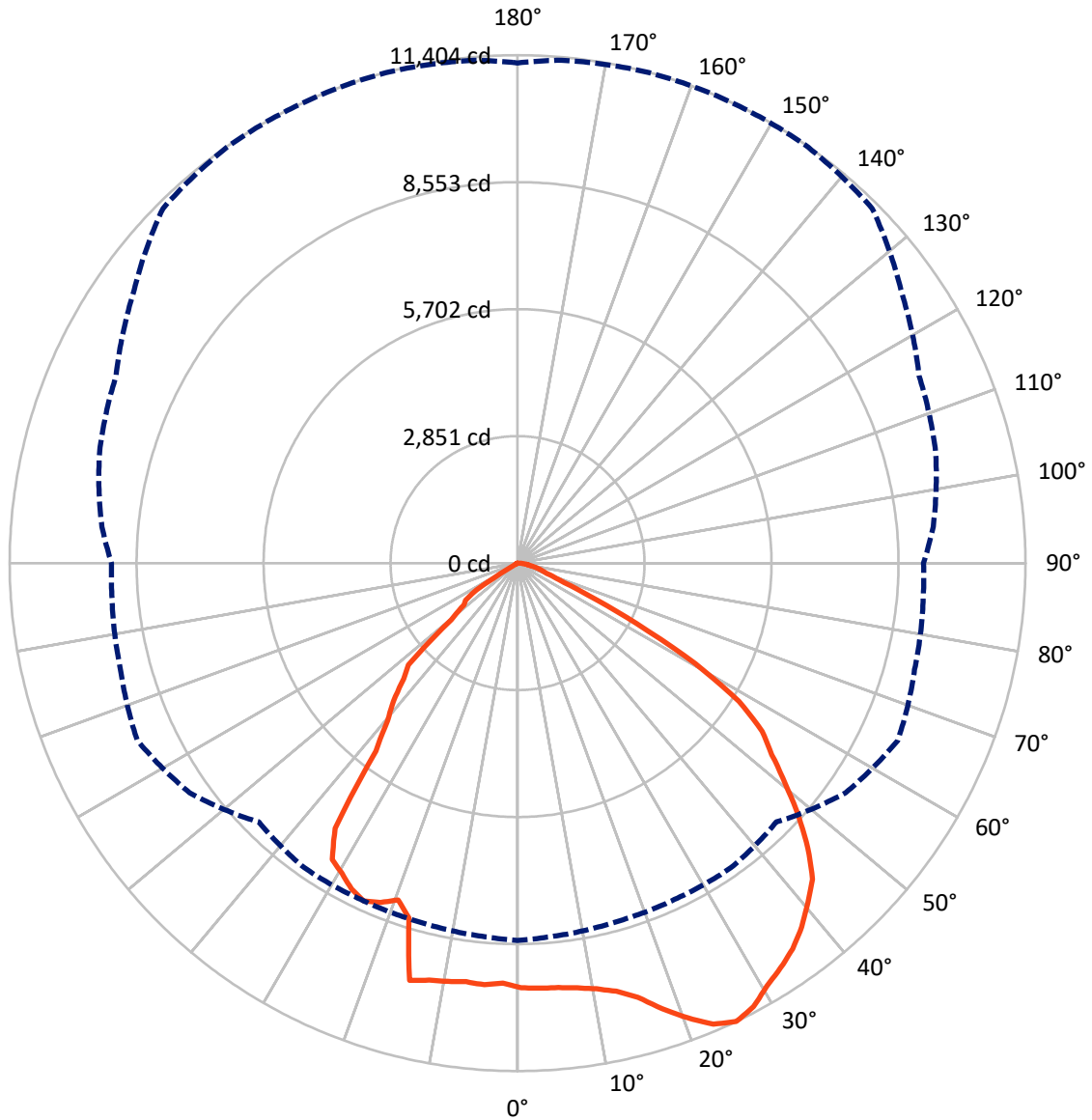
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638329
CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM-VI

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	13679.3	0.0	13679.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8416.1	0.0	8416.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	22095.3	0.0	22095.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.6	4.1
10°-20°	2792.8	12.6
20°-30°	4415.3	20.0
30°-40°	4987.4	22.6
40°-50°	4670.8	21.1
50°-60°	3220.2	14.6
60°-70°	865.2	3.9
70°-80°	180.3	0.8
80°-90°	48.8	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°	22095.3	100.0
0°-180°	22095.3	100.0



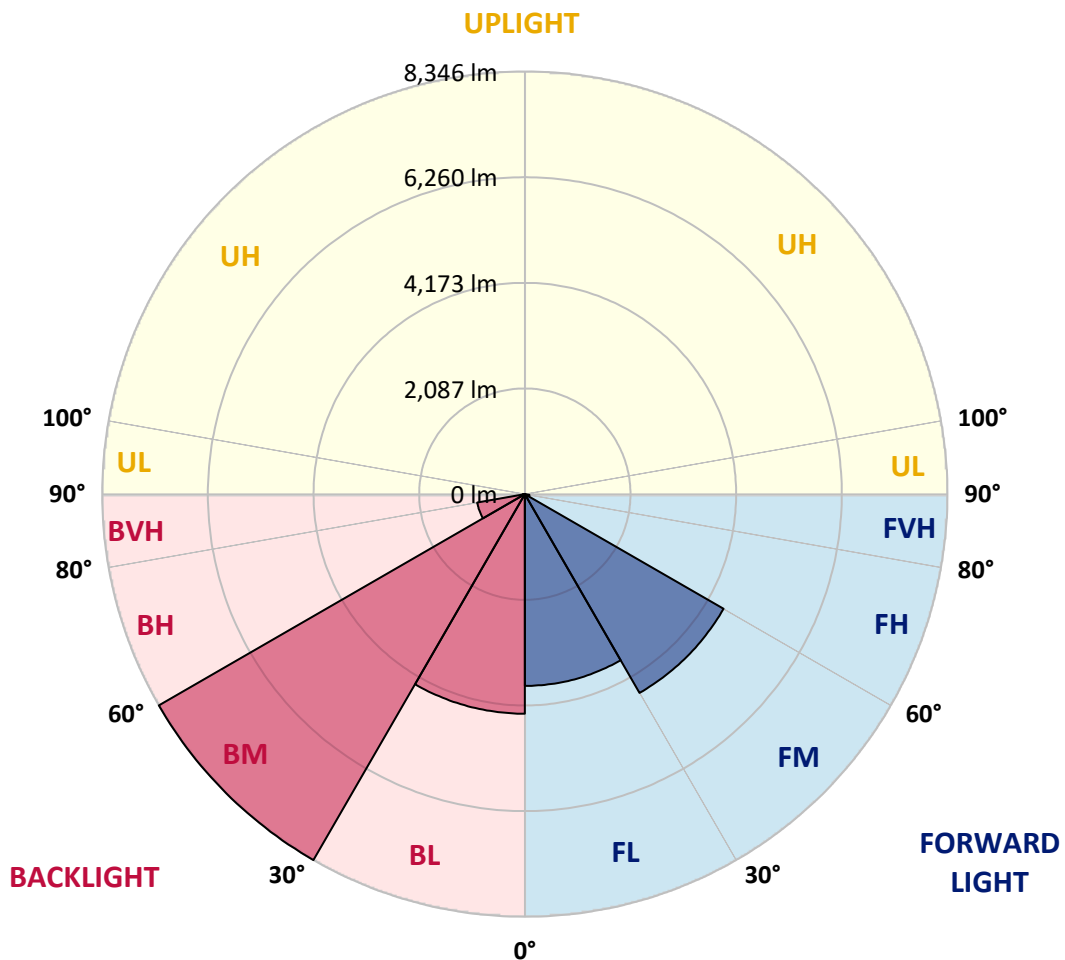
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3786.4	17.1			
FM (30°-60°)	4532.3	20.5			
FH (60°-80°)	90.8	0.4			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	4336.3	19.6	B4/5000		
BM (30°-60°)	8346.2	37.8	B4/8500		
BH (60°-80°)	954.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.2	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





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 CATALOG NUMBER: IFLD-L-SA8B-722-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8
2.5°	9576.0	9514.3	9455.8	9436.3	9517.5	9605.2	9550.0	9553.2	9533.8	9569.5
5°	9647.4	9563.0	9524.0	9494.8	9507.8	9598.7	9520.8	9550.0	9517.5	9559.7
7.5°	9621.4	9563.0	9524.0	9468.8	9511.0	9618.2	9543.5	9546.7	9530.5	9569.5
10°	9605.2	9563.0	9514.3	9520.8	9569.5	9660.4	9601.9	9634.4	9611.7	9634.4
12.5°	9644.2	9598.7	9572.7	9572.7	9614.9	9718.8	9689.6	9718.8	9709.1	9728.6
15°	9277.2	9319.4	9566.2	9676.6	9761.1	9865.0	9852.0	9881.2	9887.7	9916.9
17.5°	7825.7	7783.5	7764.0	8332.3	9842.2	10163.7	10154.0	10150.7	10118.2	10095.5
20°	8017.3	8001.1	7978.4	8020.6	8189.4	10319.6	10384.5	9985.1	9868.2	9858.5
22.5°	8322.6	8296.6	8212.1	8215.4	8267.4	8972.0	10063.0	9699.4	9660.4	9637.7
25°	8471.9	8420.0	8351.8	8332.3	8348.5	8218.6	8988.2	9420.1	9228.5	9140.8
27.5°	8208.9	8212.1	8156.9	8208.9	8147.2	7562.7	7234.7	8874.6	8868.1	8829.1
30°	8010.8	8001.1	7936.1	8001.1	7575.7	6923.0	6783.4	8277.1	8208.9	8156.9
32.5°	7403.6	7410.1	7598.4	7851.7	7153.6	6637.3	6215.1	7393.9	8040.0	8010.8
35°	5296.2	5309.2	5978.1	7228.2	6513.9	6069.0	6036.5	6390.5	7773.8	7786.8
37.5°	5098.1	5098.1	5081.9	5286.4	6010.6	5838.5	5903.4	5867.7	7121.1	7153.6
40°	4955.2	4926.0	4903.3	4581.8	4179.1	5676.1	5721.6	5559.2	6731.4	6737.9
42.5°	4783.1	4750.6	4757.1	4162.9	3740.8	5273.4	5146.8	4929.2	6082.0	6088.5
45°	4468.1	4523.3	4562.3	3643.3	3610.9	3766.7	4747.4	4611.0	5643.6	5763.8
47.5°	2273.0	2321.7	3562.2	3351.1	3425.8	3347.9	4010.3	4013.5	4695.4	5094.8
50°	2062.0	2049.0	2052.2	1954.8	3162.8	2708.2	2899.7	3679.1	3760.2	4331.8
52.5°	1922.3	1919.1	1721.0	1529.4	1987.3	2383.4	2104.2	2662.7	2795.8	3669.3
55°	1422.3	1526.2	1357.3	1438.5	1243.7	1909.3	1899.6	2402.9	2448.4	2942.0
57.5°	13.0	16.2	39.0	1094.3	860.5	954.7	1311.9	1639.8	1721.0	2292.5
60°	3.2	6.5	16.2	32.5	558.5	587.7	876.7	948.2	1068.3	1367.1
62.5°	0.0	0.0	6.5	16.2	29.2	240.3	279.3	305.2	470.8	698.1
65°	0.0	0.0	3.2	9.7	16.2	39.0	68.2	142.9	204.6	253.3
67.5°	0.0	0.0	3.2	6.5	13.0	19.5	39.0	55.2	87.7	149.4
70°	0.0	0.0	3.2	6.5	9.7	16.2	26.0	39.0	52.0	74.7
72.5°	0.0	0.0	3.2	6.5	6.5	19.5	19.5	29.2	39.0	48.7
75°	0.0	0.0	3.2	3.2	6.5	13.0	19.5	22.7	26.0	39.0
77.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	26.0	22.7	22.7
80°	0.0	0.0	3.2	9.7	9.7	16.2	19.5	26.0	16.2	16.2
82.5°	0.0	0.0	3.2	13.0	9.7	32.5	32.5	35.7	13.0	13.0
85°	0.0	0.0	9.7	6.5	19.5	32.5	29.2	19.5	16.2	9.7
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	22.7	19.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638329

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9533.8	0°	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8	9533.8
9475.3	2.5°	9605.2	9563.0	9650.7	9640.9	9598.7	9579.2	9556.5	9537.0	9394.1
9481.8	5°	9608.4	9543.5	9650.7	9631.2	9624.7	9592.2	9572.7	9601.9	9472.1
9507.8	7.5°	9608.4	9543.5	9660.4	9666.9	9657.1	9631.2	9627.9	9647.4	9540.2
9553.2	10°	9673.4	9647.4	9744.8	9754.6	9741.6	9735.1	9718.8	9705.9	9592.2
9709.1	12.5°	9809.8	9757.8	9868.2	9897.4	9887.7	9903.9	9865.0	9884.5	9767.6
9868.2	15°	9975.4	9978.6	10063.0	10128.0	10121.5	10173.5	10115.0	10167.0	10082.5
10050.1	17.5°	10228.7	10264.4	10384.5	10481.9	10517.7	10556.6	10517.7	10533.9	10413.7
9848.7	20°	9962.4	10095.5	10673.5	10852.1	10926.8	10962.5	10897.6	10917.1	10796.9
9601.9	22.5°	9722.1	9894.2	10407.2	10965.8	11196.3	11267.8	11245.0	11241.8	11196.3
9114.9	25°	9368.1	9715.6	9946.1	10537.1	11261.3	11391.1	11404.1	11400.9	11332.7
8816.1	27.5°	8933.0	9011.0	9608.4	9968.9	10806.7	11300.2	11280.7	11186.6	11095.7
8195.9	30°	8377.8	8731.7	9001.2	9576.0	10218.9	11021.0	11021.0	10949.5	10855.4
7975.1	32.5°	8095.2	8553.1	8803.1	9011.0	9559.7	10709.2	10839.1	10764.4	10689.8
7803.0	35°	7945.9	8014.1	8598.6	8786.9	9251.2	10108.5	10634.6	10559.9	10504.7
7345.1	37.5°	7617.9	7777.0	8049.8	8553.1	8696.0	9618.2	10361.8	10322.8	10257.9
6750.9	40°	6887.3	7312.7	7731.6	8208.9	8358.3	8988.2	10030.6	10046.8	9959.1
6117.7	42.5°	6455.4	6744.4	7400.4	7721.8	8124.5	8582.3	9709.1	9735.1	9673.4
5796.2	45°	5948.9	6270.3	6731.4	7315.9	7864.7	8023.8	9140.8	9413.6	9361.7
5156.5	47.5°	5484.5	5744.3	6309.3	6900.3	7507.5	7484.8	8488.2	9001.2	8929.8
4666.2	50°	4825.3	5279.9	5546.2	6088.5	6994.5	7056.1	7793.3	8517.4	8458.9
3964.8	52.5°	4068.7	4640.2	5150.0	5646.9	6474.9	6621.0	7147.1	8023.8	7984.8
3029.6	55°	3555.7	3971.3	4546.1	4945.5	5844.9	6234.6	6663.2	7553.0	7533.5
2490.6	57.5°	2529.6	3331.6	3805.7	4364.2	4838.3	5543.0	5861.2	6595.0	6413.2
1380.1	60°	1714.5	2091.2	2669.2	3269.9	3588.1	4292.8	4588.3	5176.0	5127.3
824.8	62.5°	906.0	1253.4	1665.8	1967.8	2198.3	2883.5	3006.9	3640.1	3623.9
331.2	65°	399.4	529.3	902.7	1058.6	1295.6	1613.9	1721.0	1948.3	1893.1
162.4	67.5°	207.8	315.0	509.8	626.7	789.1	909.2	996.9	1068.3	1113.8
107.2	70°	126.6	230.6	315.0	435.1	542.3	639.7	707.9	805.3	863.8
55.2	72.5°	94.2	146.1	217.6	334.5	392.9	506.6	574.8	646.2	698.1
45.5	75°	52.0	97.4	175.3	263.0	315.0	412.4	474.1	522.8	539.0
26.0	77.5°	32.5	74.7	146.1	204.6	246.8	334.5	318.2	363.7	402.7
19.5	80°	22.7	55.2	113.7	168.9	172.1	214.3	253.3	292.2	318.2
13.0	82.5°	16.2	45.5	84.4	129.9	113.7	165.6	198.1	227.3	165.6
9.7	85°	13.0	32.5	42.2	77.9	64.9	116.9	100.7	97.4	64.9
6.5	87.5°	9.7	16.2	29.2	35.7	26.0	26.0	32.5	39.0	32.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9533.8
9296.7
9361.7
9416.9
9498.0
9663.6
9942.9
10309.8
10712.5
11050.2
11228.8
11024.2
10819.6
10628.1
10426.7
10192.9
9939.7
9666.9
9368.1
8981.7
8468.7
8010.8
7556.2
6393.7
5130.6
3627.1
1870.4
1113.8
867.0
707.9
529.3
409.1
321.5
120.1
64.9
32.5
0.0

(END OF REPORT)