

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: P636919

Luminaire Tested: **IFLD-S-SA3D-935-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636919  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-935-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11406.3 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

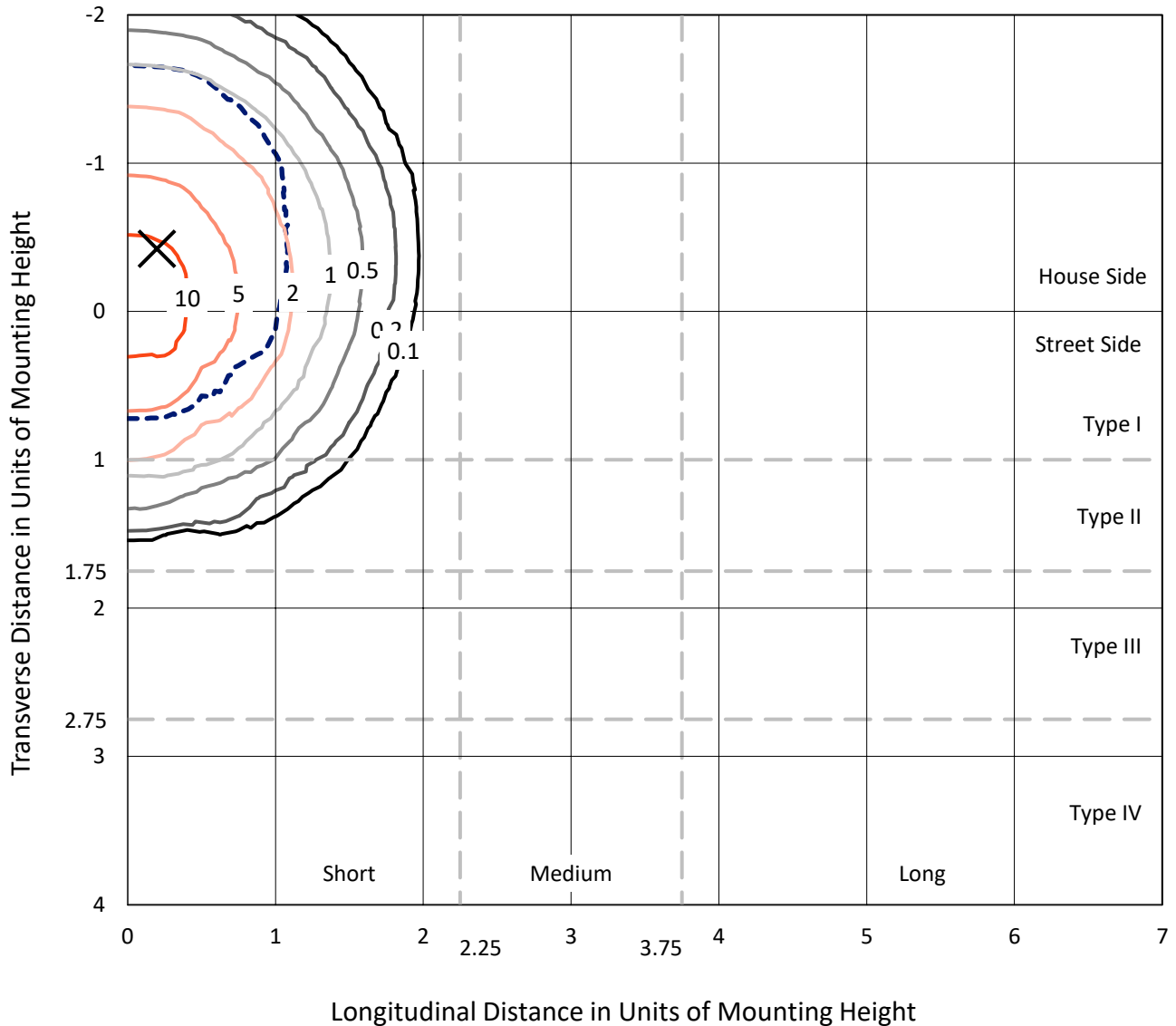
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

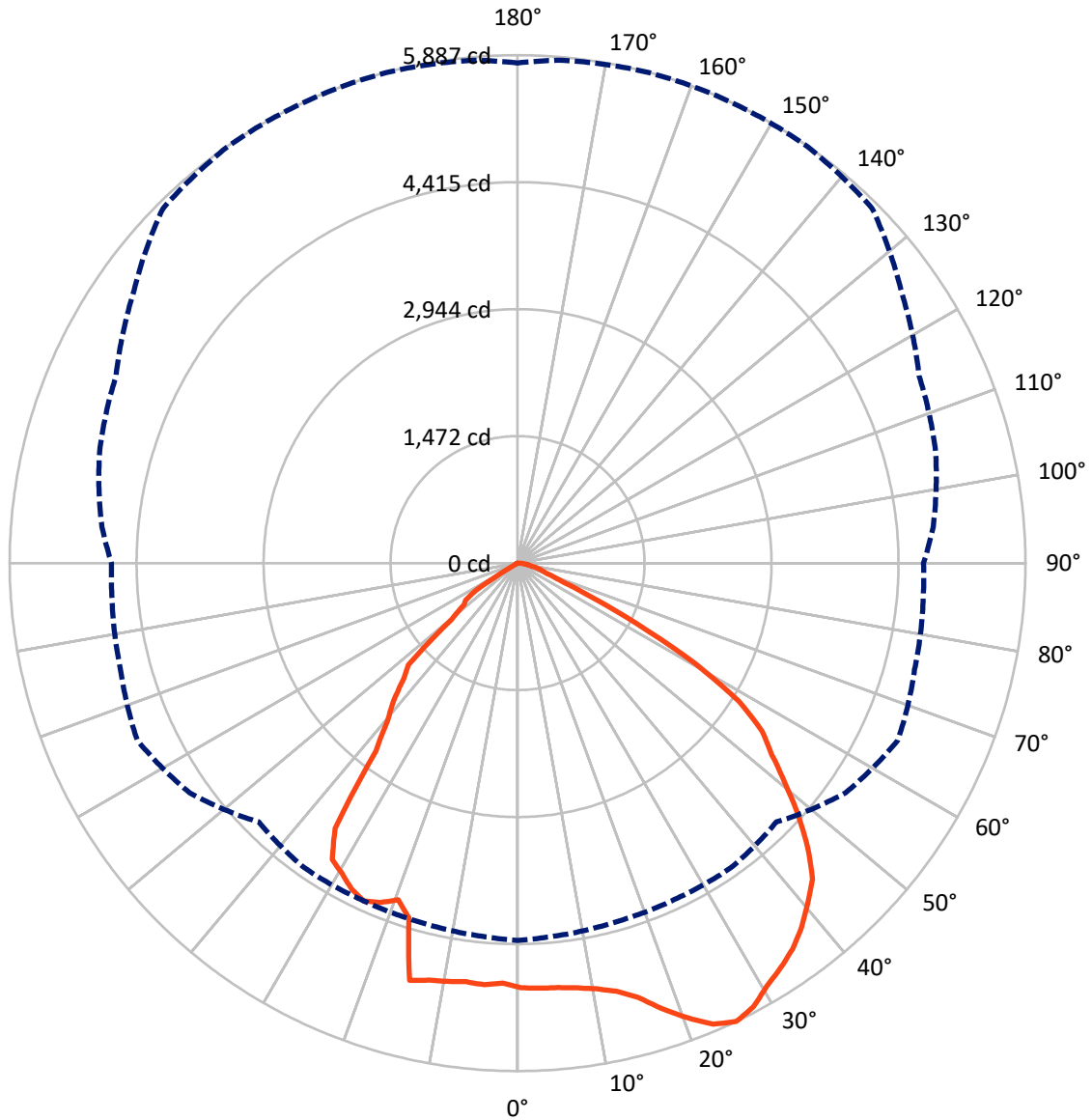
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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
<b>House Side</b>	Lumens	7061.6	0.0	7061.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4344.6	0.0	4344.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	11406.3	0.0	11406.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.2	4.1
10°-20°	1441.7	12.6
20°-30°	2279.3	20.0
30°-40°	2574.7	22.6
40°-50°	2411.2	21.1
50°-60°	1662.4	14.6
60°-70°	446.6	3.9
70°-80°	93.1	0.8
80°-90°	25.2	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°	11406.3	100.0
0°-180°	11406.3	100.0



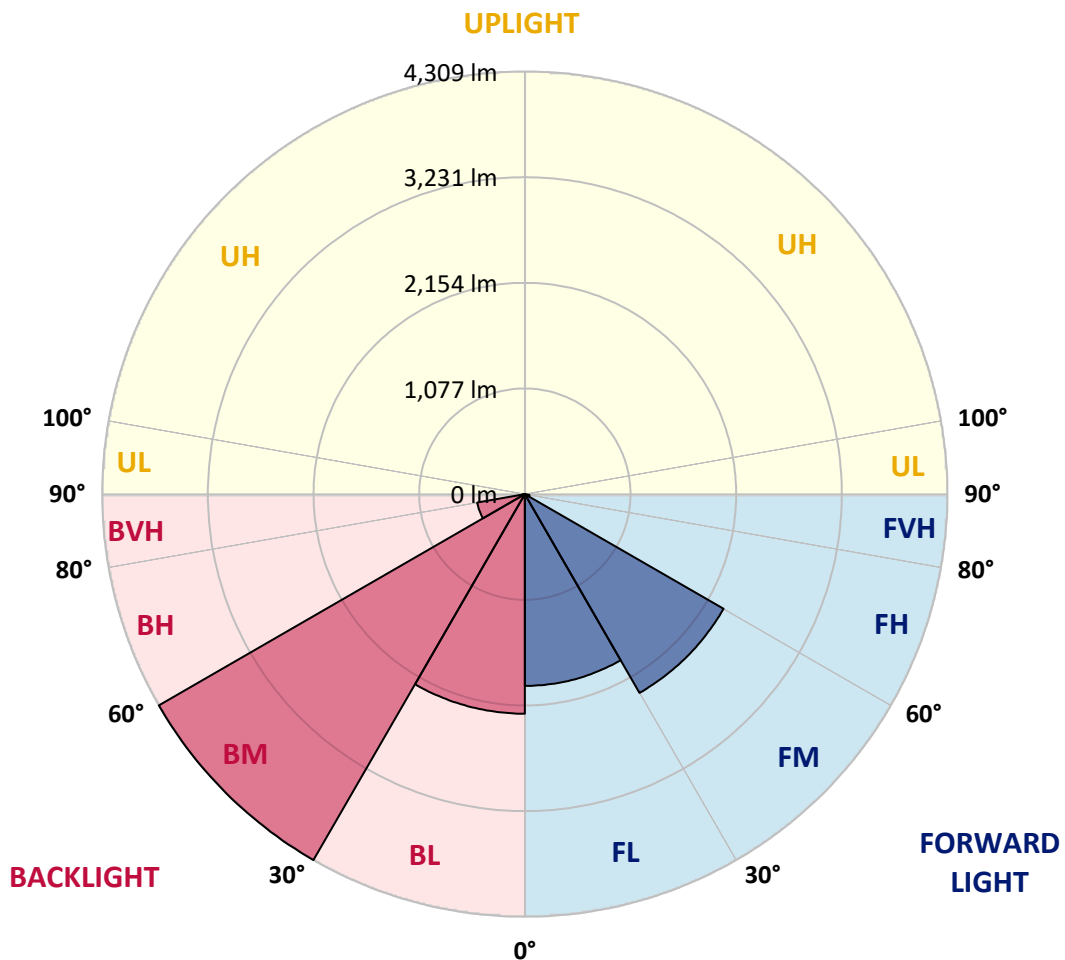
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.7	17.1			
FM (30°-60°)	2339.7	20.5			
FH (60°-80°)	46.9	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2238.5	19.6	B3/2500		
BM (30°-60°)	4308.5	37.8	B3/5000		
BH (60°-80°)	492.8	4.3	B1/500		G1/500
BVH (80°-90°)	21.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6
2.5°	4943.4	4911.5	4881.4	4871.3	4913.2	4958.5	4930.0	4931.7	4921.6	4940.0
5°	4980.3	4936.7	4916.6	4901.5	4908.2	4955.1	4914.9	4930.0	4913.2	4935.0
7.5°	4966.9	4936.7	4916.6	4888.1	4909.9	4965.2	4926.6	4928.3	4919.9	4940.0
10°	4958.5	4936.7	4911.5	4914.9	4940.0	4987.0	4956.8	4973.6	4961.8	4973.6
12.5°	4978.6	4955.1	4941.7	4941.7	4963.5	5017.2	5002.1	5017.2	5012.1	5022.2
15°	4789.2	4811.0	4938.4	4995.4	5038.9	5092.6	5085.9	5101.0	5104.3	5119.4
17.5°	4039.9	4018.1	4008.0	4301.4	5080.9	5246.8	5241.8	5240.1	5223.3	5211.6
20°	4138.8	4130.4	4118.7	4140.4	4227.6	5327.3	5360.8	5154.6	5094.3	5089.2
22.5°	4296.3	4282.9	4239.4	4241.0	4267.8	4631.6	5194.8	5007.1	4987.0	4975.2
25°	4373.5	4346.6	4311.4	4301.4	4309.8	4242.7	4640.0	4862.9	4764.0	4718.8
27.5°	4237.7	4239.4	4210.9	4237.7	4205.8	3904.1	3734.8	4581.3	4578.0	4557.8
30°	4135.4	4130.4	4096.9	4130.4	3910.8	3573.9	3501.8	4272.9	4237.7	4210.9
32.5°	3822.0	3825.3	3922.5	4053.3	3692.9	3426.3	3208.4	3816.9	4150.5	4135.4
35°	2734.0	2740.7	3086.1	3731.4	3362.6	3133.0	3116.2	3298.9	4013.1	4019.8
37.5°	2631.8	2631.8	2623.4	2729.0	3102.8	3014.0	3047.5	3029.1	3676.1	3692.9
40°	2558.0	2542.9	2531.2	2365.3	2157.4	2930.2	2953.6	2869.8	3475.0	3478.3
42.5°	2469.2	2452.4	2455.8	2149.0	1931.1	2722.3	2656.9	2544.6	3139.7	3143.1
45°	2306.6	2335.1	2355.2	1880.8	1864.0	1944.5	2450.7	2380.3	2913.4	2975.4
47.5°	1173.4	1198.6	1838.9	1729.9	1768.5	1728.3	2070.2	2071.9	2423.9	2630.1
50°	1064.4	1057.7	1059.4	1009.1	1632.7	1398.0	1496.9	1899.2	1941.1	2236.2
52.5°	992.4	990.7	888.4	789.5	1025.9	1230.4	1086.2	1374.6	1443.3	1894.2
55°	734.2	787.9	700.7	742.6	642.0	985.7	980.6	1240.5	1263.9	1518.7
57.5°	6.7	8.4	20.1	564.9	444.2	492.8	677.2	846.5	888.4	1183.5
60°	1.7	3.4	8.4	16.8	288.3	303.4	452.6	489.5	551.5	705.7
62.5°	0.0	0.0	3.4	8.4	15.1	124.0	144.2	157.6	243.1	360.4
65°	0.0	0.0	1.7	5.0	8.4	20.1	35.2	73.8	105.6	130.8
67.5°	0.0	0.0	1.7	3.4	6.7	10.1	20.1	28.5	45.3	77.1
70°	0.0	0.0	1.7	3.4	5.0	8.4	13.4	20.1	26.8	38.6
72.5°	0.0	0.0	1.7	3.4	3.4	10.1	10.1	15.1	20.1	25.1
75°	0.0	0.0	1.7	1.7	3.4	6.7	10.1	11.7	13.4	20.1
77.5°	0.0	0.0	1.7	3.4	5.0	6.7	8.4	13.4	11.7	11.7
80°	0.0	0.0	1.7	5.0	5.0	8.4	10.1	13.4	8.4	8.4
82.5°	0.0	0.0	1.7	6.7	5.0	16.8	16.8	18.4	6.7	6.7
85°	0.0	0.0	5.0	3.4	10.1	16.8	15.1	10.1	8.4	5.0
87.5°	0.0	0.0	1.7	1.7	3.4	5.0	11.7	10.1	3.4	3.4
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°
4921.6	0°	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6	4921.6
4891.4	2.5°	4958.5	4936.7	4981.9	4976.9	4955.1	4945.1	4933.3	4923.3	4849.5
4894.8	5°	4960.2	4926.6	4981.9	4971.9	4968.5	4951.8	4941.7	4956.8	4889.8
4908.2	7.5°	4960.2	4926.6	4987.0	4990.3	4985.3	4971.9	4970.2	4980.3	4925.0
4931.7	10°	4993.7	4980.3	5030.6	5035.6	5028.9	5025.5	5017.2	5010.4	4951.8
5012.1	12.5°	5064.1	5037.3	5094.3	5109.3	5104.3	5112.7	5092.6	5102.6	5042.3
5094.3	15°	5149.6	5151.3	5194.8	5228.4	5225.0	5251.8	5221.7	5248.5	5204.9
5188.1	17.5°	5280.3	5298.8	5360.8	5411.1	5429.5	5449.6	5429.5	5437.9	5375.9
5084.2	20°	5142.9	5211.6	5510.0	5602.2	5640.7	5659.2	5625.6	5635.7	5573.7
4956.8	22.5°	5018.8	5107.7	5372.5	5660.8	5779.9	5816.7	5805.0	5803.3	5779.9
4705.4	25°	4836.1	5015.5	5134.5	5439.6	5813.4	5880.4	5887.1	5885.5	5850.3
4551.1	27.5°	4611.5	4651.7	4960.2	5146.2	5578.7	5833.5	5823.4	5774.8	5727.9
4231.0	30°	4324.8	4507.6	4646.7	4943.4	5275.3	5689.3	5689.3	5652.5	5603.9
4117.0	32.5°	4179.0	4415.4	4544.4	4651.7	4935.0	5528.4	5595.5	5556.9	5518.4
4028.1	35°	4101.9	4137.1	4438.8	4536.1	4775.8	5218.3	5489.9	5451.3	5422.8
3791.8	37.5°	3932.6	4014.7	4155.5	4415.4	4489.1	4965.2	5349.1	5328.9	5295.4
3485.0	40°	3555.4	3775.0	3991.3	4237.7	4314.8	4640.0	5178.1	5186.5	5141.2
3158.1	42.5°	3332.5	3481.7	3820.3	3986.2	4194.1	4430.4	5012.1	5025.5	4993.7
2992.2	45°	3071.0	3236.9	3475.0	3776.7	4060.0	4142.1	4718.8	4859.6	4832.8
2662.0	47.5°	2831.3	2965.4	3257.0	3562.1	3875.6	3863.9	4381.8	4646.7	4609.8
2408.8	50°	2491.0	2725.7	2863.1	3143.1	3610.7	3642.6	4023.1	4396.9	4366.7
2046.8	52.5°	2100.4	2395.4	2658.6	2915.1	3342.5	3418.0	3689.5	4142.1	4122.0
1564.0	55°	1835.5	2050.1	2346.8	2553.0	3017.3	3218.5	3439.8	3899.1	3889.0
1285.7	57.5°	1305.8	1719.9	1964.6	2252.9	2497.7	2861.4	3025.7	3404.6	3310.7
712.4	60°	885.1	1079.5	1377.9	1688.0	1852.3	2216.1	2368.6	2672.0	2646.9
425.8	62.5°	467.7	647.0	859.9	1015.8	1134.9	1488.6	1552.2	1879.1	1870.7
171.0	65°	206.2	273.2	466.0	546.5	668.8	833.1	888.4	1005.8	977.3
83.8	67.5°	107.3	162.6	263.2	323.5	407.3	469.4	514.6	551.5	575.0
55.3	70°	65.4	119.0	162.6	224.6	279.9	330.2	365.4	415.7	445.9
28.5	72.5°	48.6	75.4	112.3	172.7	202.8	261.5	296.7	333.6	360.4
23.5	75°	26.8	50.3	90.5	135.8	162.6	212.9	244.7	269.9	278.3
13.4	77.5°	16.8	38.6	75.4	105.6	127.4	172.7	164.3	187.7	207.9
10.1	80°	11.7	28.5	58.7	87.2	88.8	110.6	130.8	150.9	164.3
6.7	82.5°	8.4	23.5	43.6	67.1	58.7	85.5	102.3	117.3	85.5
5.0	85°	6.7	16.8	21.8	40.2	33.5	60.3	52.0	50.3	33.5
3.4	87.5°	5.0	8.4	15.1	18.4	13.4	13.4	16.8	20.1	16.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
4921.6
4799.2
4832.8
4861.3
4903.2
4988.7
5132.8
5322.2
5530.1
5704.4
5796.6
5691.0
5585.4
5486.5
5382.6
5261.9
5131.1
4990.3
4836.1
4636.6
4371.8
4135.4
3900.7
3300.6
2648.5
1872.4
965.5
575.0
447.6
365.4
273.2
211.2
166.0
62.0
33.5
16.8
0.0

(END OF REPORT)