

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: P636947

Luminaire Tested: **IFLD-S-SA3C-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636947
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11281.2 lumens
Efficiency: N/A
Efficacy: 70.2 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

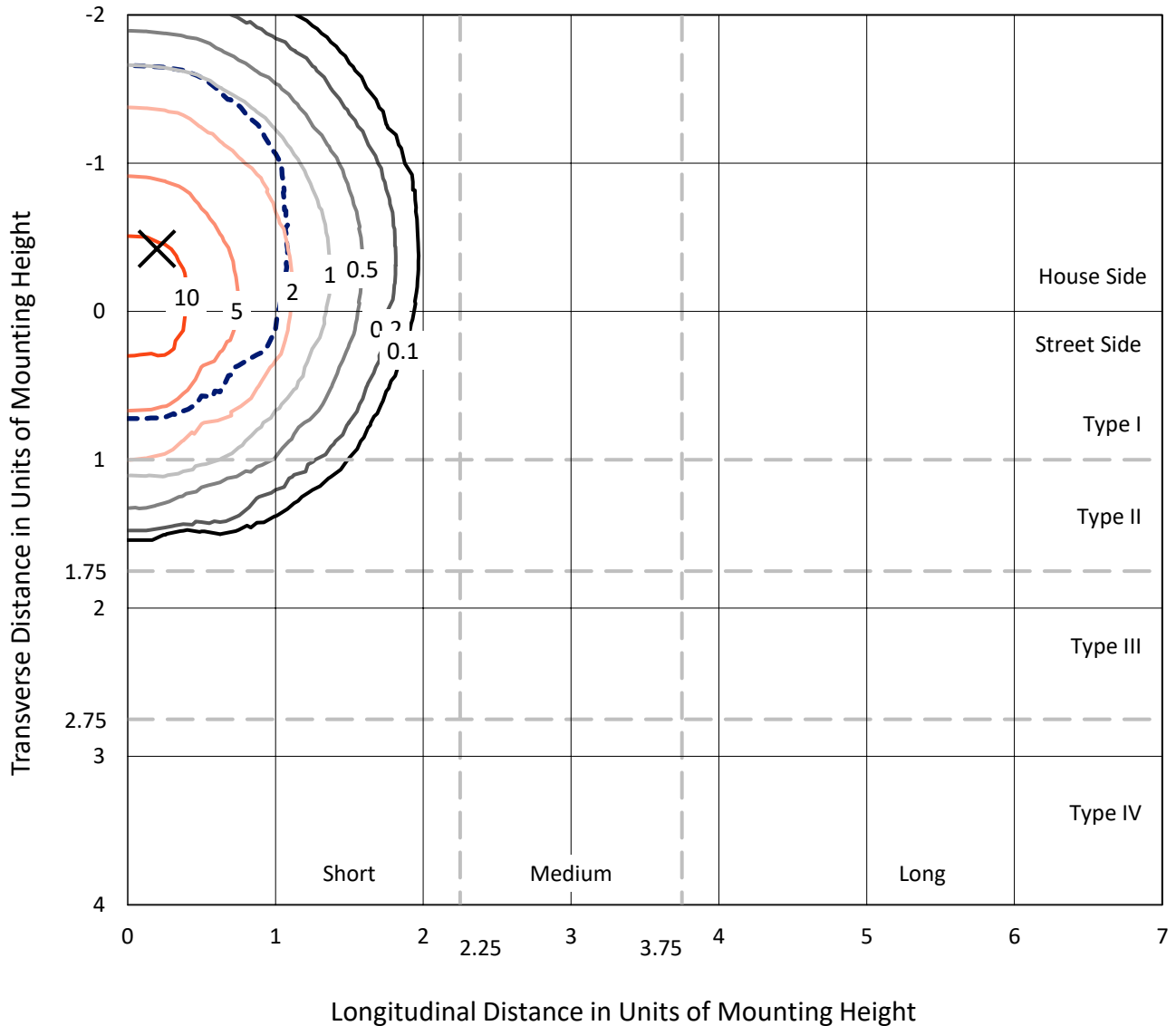
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

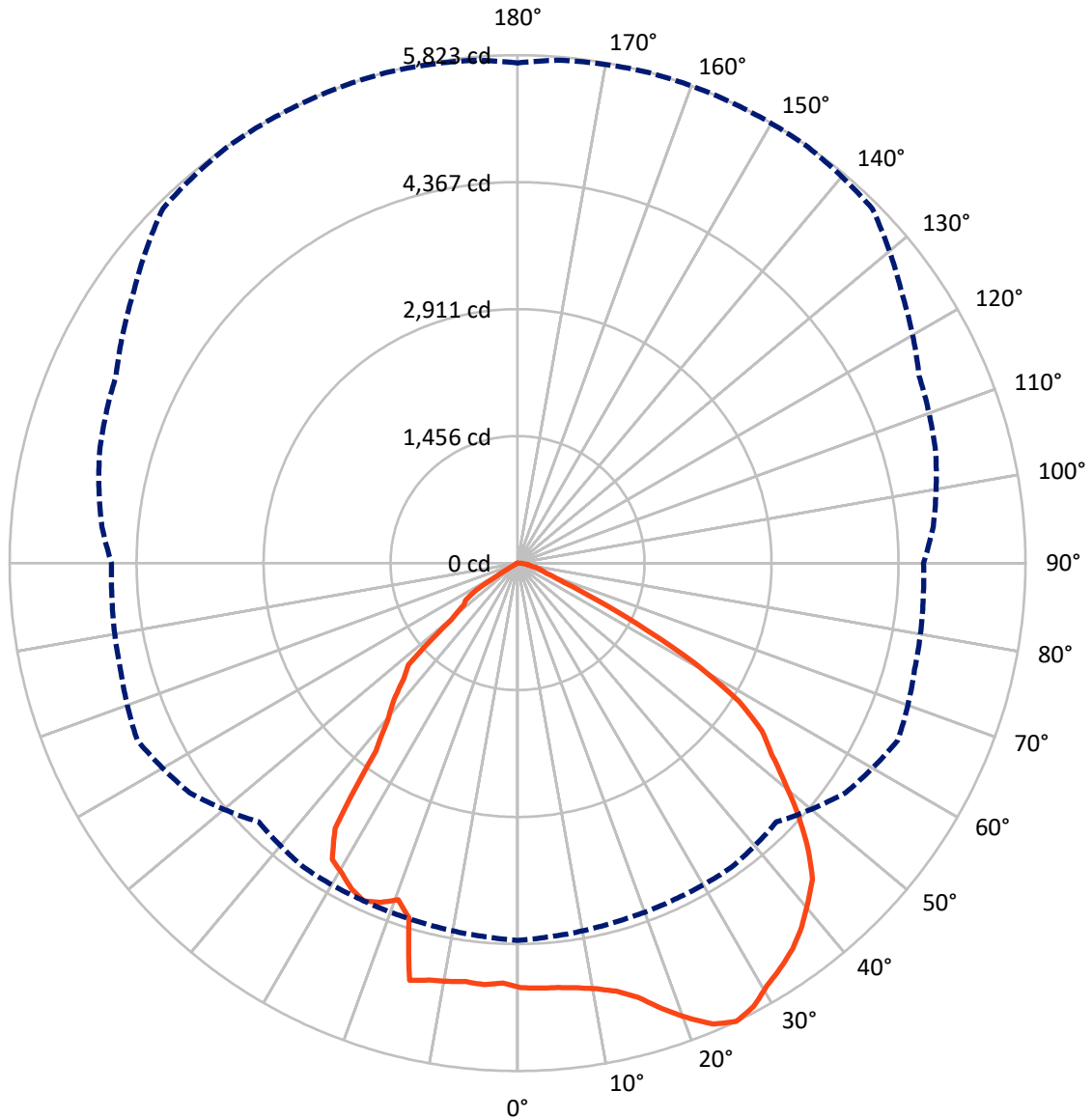
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.2 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	6984.2	0.0	6984.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4297.0	0.0	4297.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	11281.2	0.0	11281.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.0	4.1
10°-20°	1425.9	12.6
20°-30°	2254.3	20.0
30°-40°	2546.4	22.6
40°-50°	2384.8	21.1
50°-60°	1644.1	14.6
60°-70°	441.7	3.9
70°-80°	92.1	0.8
80°-90°	24.9	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°	11281.2	100.0
0°-180°	11281.2	100.0



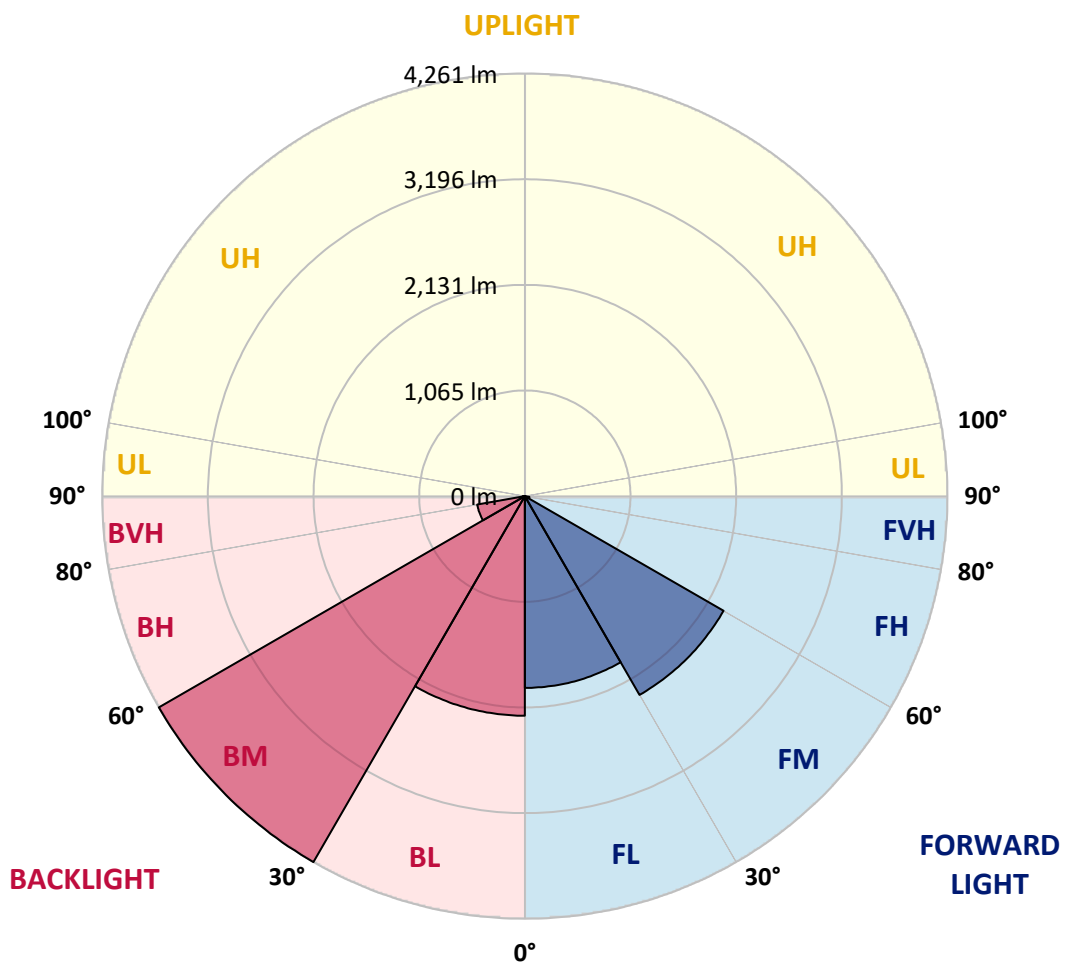
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1933.2	17.1			
FM	(30°-60°)	2314.0	20.5			
FH	(60°-80°)	46.4	0.4			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	2213.9	19.6	B3/2500		
BM	(30°-60°)	4261.3	37.8	B3/5000		
BH	(60°-80°)	487.4	4.3	B1/500		G1/500
BVH	(80°-90°)	21.6	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°	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6
2.5°	4889.2	4857.7	4827.8	4817.9	4859.3	4904.1	4875.9	4877.6	4867.6	4885.9
5°	4925.6	4882.5	4862.6	4847.7	4854.4	4900.8	4861.0	4875.9	4859.3	4880.9
7.5°	4912.4	4882.5	4862.6	4834.5	4856.0	4910.7	4872.6	4874.2	4866.0	4885.9
10°	4904.1	4882.5	4857.7	4861.0	4885.9	4932.3	4902.4	4919.0	4907.4	4919.0
12.5°	4924.0	4900.8	4887.5	4887.5	4909.1	4962.1	4947.2	4962.1	4957.1	4967.1
15°	4736.6	4758.2	4884.2	4940.6	4983.7	5036.7	5030.1	5045.0	5048.3	5063.3
17.5°	3995.6	3974.0	3964.1	4254.2	5025.1	5189.3	5184.3	5182.6	5166.0	5154.4
20°	4093.4	4085.1	4073.5	4095.0	4181.2	5268.8	5302.0	5098.1	5038.4	5033.4
22.5°	4249.2	4236.0	4192.8	4194.5	4221.0	4580.8	5137.9	4952.2	4932.3	4920.7
25°	4325.5	4299.0	4264.1	4254.2	4262.5	4196.2	4589.1	4809.6	4711.8	4667.0
27.5°	4191.2	4192.8	4164.7	4191.2	4159.7	3861.3	3693.8	4531.1	4527.7	4507.9
30°	4090.1	4085.1	4051.9	4085.1	3867.9	3534.7	3463.4	4226.0	4191.2	4164.7
32.5°	3780.0	3783.3	3879.5	4008.8	3652.4	3388.8	3173.2	3775.1	4105.0	4090.1
35°	2704.0	2710.7	3052.2	3690.5	3325.8	3098.6	3082.1	3262.8	3969.0	3975.7
37.5°	2602.9	2602.9	2594.6	2699.1	3068.8	2980.9	3014.1	2995.8	3635.8	3652.4
40°	2530.0	2515.0	2503.4	2339.3	2133.7	2898.0	2921.2	2838.3	3436.8	3440.2
42.5°	2442.1	2425.5	2428.8	2125.4	1909.9	2692.4	2627.8	2516.7	3105.3	3108.6
45°	2281.3	2309.5	2329.4	1860.2	1843.6	1923.2	2423.9	2354.2	2881.4	2942.8
47.5°	1160.5	1185.4	1818.7	1711.0	1749.1	1709.3	2047.5	2049.2	2397.3	2601.3
50°	1052.8	1046.1	1047.8	998.1	1614.8	1382.7	1480.5	1878.4	1919.9	2211.6
52.5°	981.5	979.8	878.7	780.9	1014.6	1216.9	1074.3	1359.5	1427.5	1873.4
55°	726.2	779.2	693.0	734.5	635.0	974.8	969.9	1226.9	1250.1	1502.1
57.5°	6.6	8.3	19.9	558.7	439.3	487.4	669.8	837.2	878.7	1170.5
60°	1.7	3.3	8.3	16.6	285.2	300.1	447.6	484.1	545.5	698.0
62.5°	0.0	0.0	3.3	8.3	14.9	122.7	142.6	155.8	240.4	356.5
65°	0.0	0.0	1.7	5.0	8.3	19.9	34.8	72.9	104.4	129.3
67.5°	0.0	0.0	1.7	3.3	6.6	9.9	19.9	28.2	44.8	76.3
70°	0.0	0.0	1.7	3.3	5.0	8.3	13.3	19.9	26.5	38.1
72.5°	0.0	0.0	1.7	3.3	3.3	9.9	9.9	14.9	19.9	24.9
75°	0.0	0.0	1.7	1.7	3.3	6.6	9.9	11.6	13.3	19.9
77.5°	0.0	0.0	1.7	3.3	5.0	6.6	8.3	13.3	11.6	11.6
80°	0.0	0.0	1.7	5.0	5.0	8.3	9.9	13.3	8.3	8.3
82.5°	0.0	0.0	1.7	6.6	5.0	16.6	16.6	18.2	6.6	6.6
85°	0.0	0.0	5.0	3.3	9.9	16.6	14.9	9.9	8.3	5.0
87.5°	0.0	0.0	1.7	1.7	3.3	5.0	11.6	9.9	3.3	3.3
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°
4867.6	0°	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6	4867.6
4837.8	2.5°	4904.1	4882.5	4927.3	4922.3	4900.8	4890.8	4879.2	4869.3	4796.3
4841.1	5°	4905.7	4872.6	4927.3	4917.4	4914.0	4897.5	4887.5	4902.4	4836.1
4854.4	7.5°	4905.7	4872.6	4932.3	4935.6	4930.6	4917.4	4915.7	4925.6	4870.9
4877.6	10°	4938.9	4925.6	4975.4	4980.4	4973.7	4970.4	4962.1	4955.5	4897.5
4957.1	12.5°	5008.5	4982.0	5038.4	5053.3	5048.3	5056.6	5036.7	5046.7	4987.0
5038.4	15°	5093.1	5094.8	5137.9	5171.0	5167.7	5194.2	5164.4	5190.9	5147.8
5131.2	17.5°	5222.4	5240.6	5302.0	5351.7	5370.0	5389.9	5370.0	5378.3	5316.9
5028.4	20°	5086.5	5154.4	5449.5	5540.7	5578.9	5597.1	5563.9	5573.9	5512.5
4902.4	22.5°	4963.8	5051.6	5313.6	5598.8	5716.5	5752.9	5741.3	5739.7	5716.5
4653.7	25°	4783.1	4960.5	5078.2	5379.9	5749.6	5815.9	5822.6	5820.9	5786.1
4501.2	27.5°	4560.9	4600.7	4905.7	5089.8	5517.5	5769.5	5759.6	5711.5	5665.1
4184.6	30°	4277.4	4458.1	4595.7	4889.2	5217.4	5626.9	5626.9	5590.5	5542.4
4071.8	32.5°	4133.2	4366.9	4494.6	4600.7	4880.9	5467.8	5534.1	5496.0	5457.8
3984.0	35°	4056.9	4091.7	4390.1	4486.3	4723.4	5161.1	5429.6	5391.5	5363.3
3750.2	37.5°	3889.5	3970.7	4110.0	4366.9	4439.9	4910.7	5290.4	5270.5	5237.3
3446.8	40°	3516.4	3733.6	3947.5	4191.2	4267.5	4589.1	5121.3	5129.6	5084.8
3123.5	42.5°	3295.9	3443.5	3778.4	3942.5	4148.1	4381.9	4957.1	4970.4	4938.9
2959.4	45°	3037.3	3201.4	3436.8	3735.3	4015.5	4096.7	4667.0	4806.3	4779.7
2632.8	47.5°	2800.2	2932.8	3221.3	3523.1	3833.1	3821.5	4333.8	4595.7	4559.2
2382.4	50°	2463.7	2695.8	2831.7	3108.6	3571.1	3602.6	3979.0	4348.7	4318.8
2024.3	52.5°	2077.4	2369.2	2629.4	2883.1	3305.9	3380.5	3649.1	4096.7	4076.8
1546.8	55°	1815.4	2027.6	2321.1	2525.0	2984.2	3183.2	3402.0	3856.3	3846.3
1271.6	57.5°	1291.5	1701.0	1943.1	2228.2	2470.3	2830.0	2992.5	3367.2	3274.4
704.6	60°	875.4	1067.7	1362.8	1669.5	1832.0	2191.8	2342.6	2642.7	2617.8
421.1	62.5°	462.6	640.0	850.5	1004.7	1122.4	1472.2	1535.2	1858.5	1850.2
169.1	65°	203.9	270.2	460.9	540.5	661.5	824.0	878.7	994.7	966.6
82.9	67.5°	106.1	160.8	260.3	320.0	402.9	464.2	509.0	545.5	568.7
54.7	70°	64.7	117.7	160.8	222.2	276.9	326.6	361.4	411.2	441.0
28.2	72.5°	48.1	74.6	111.1	170.8	200.6	258.6	293.4	329.9	356.5
23.2	75°	26.5	49.7	89.5	134.3	160.8	210.6	242.1	266.9	275.2
13.3	77.5°	16.6	38.1	74.6	104.4	126.0	170.8	162.5	185.7	205.6
9.9	80°	11.6	28.2	58.0	86.2	87.9	109.4	129.3	149.2	162.5
6.6	82.5°	8.3	23.2	43.1	66.3	58.0	84.6	101.1	116.1	84.6
5.0	85°	6.6	16.6	21.6	39.8	33.2	59.7	51.4	49.7	33.2
3.3	87.5°	5.0	8.3	14.9	18.2	13.3	13.3	16.6	19.9	16.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4867.6
4746.6
4779.7
4807.9
4849.4
4933.9
5076.5
5263.9
5469.4
5641.9
5733.0
5628.6
5524.1
5426.3
5323.5
5204.2
5074.9
4935.6
4783.1
4585.8
4323.8
4090.1
3858.0
3264.4
2619.5
1851.9
955.0
568.7
442.7
361.4
270.2
208.9
164.1
61.3
33.2
16.6
0.0

(END OF REPORT)