

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: P636948

Luminaire Tested: **IFLD-S-SA3D-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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: 12412.9 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

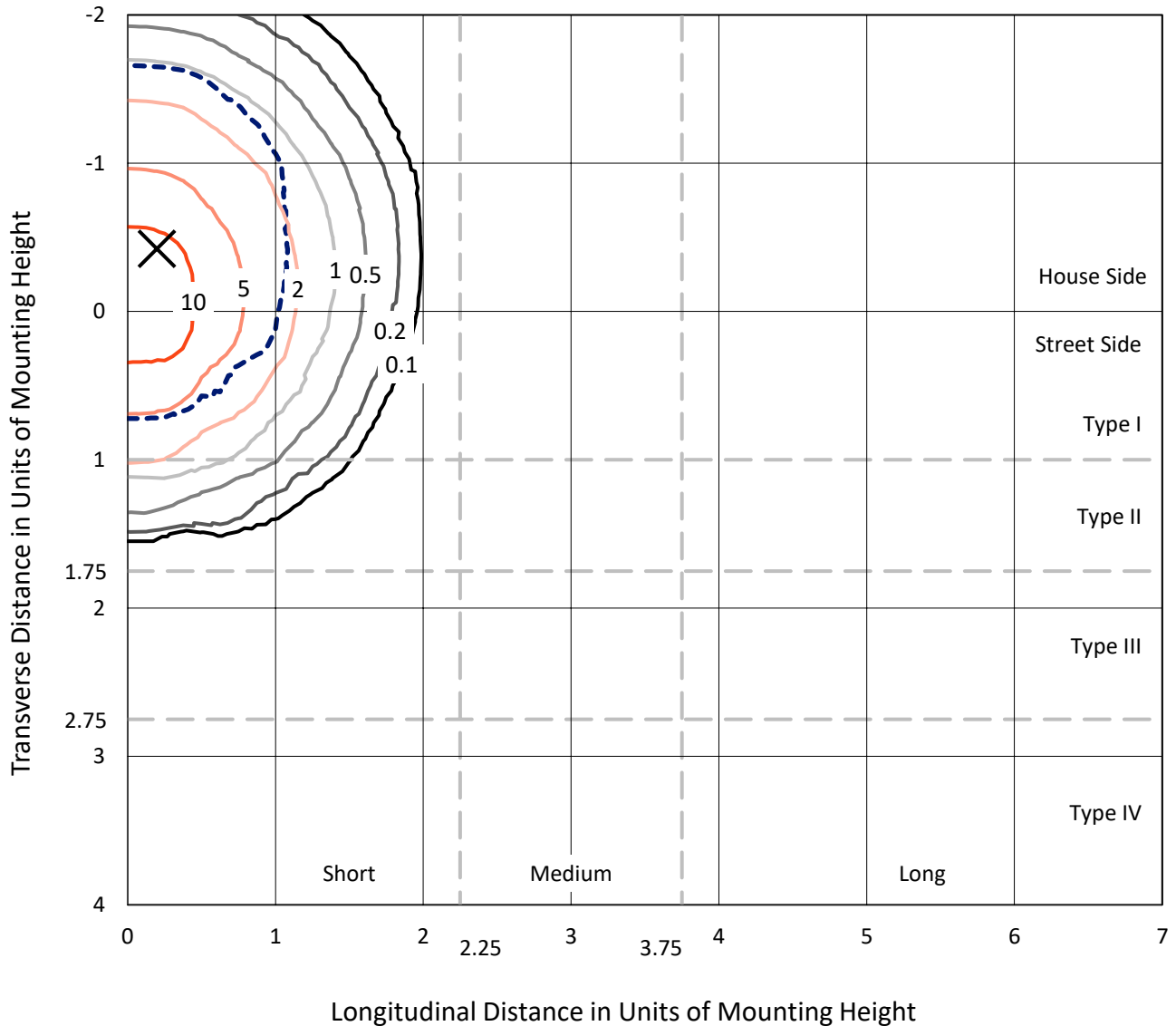
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

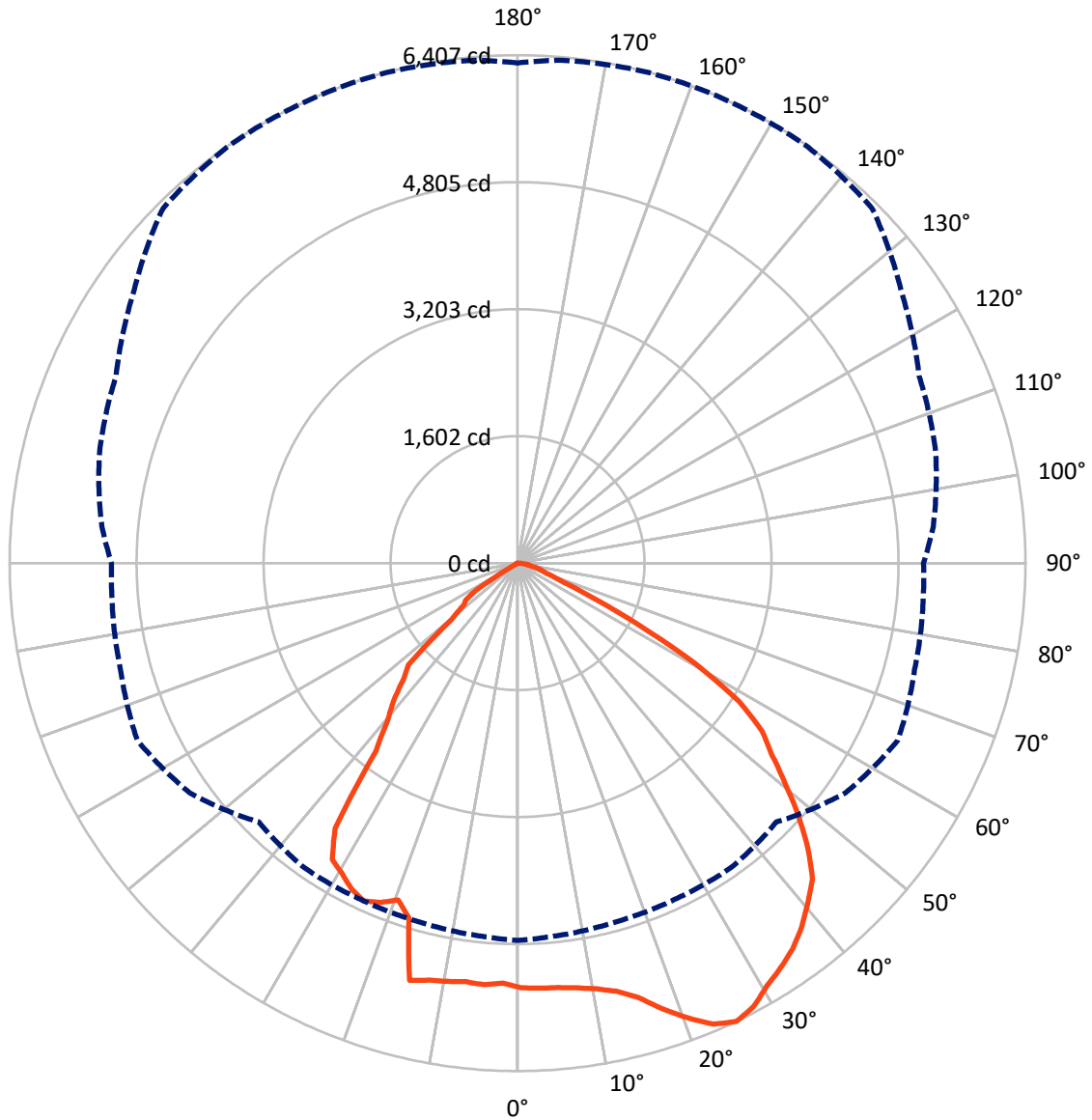
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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	7684.9	0.0	7684.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4728.0	0.0	4728.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	12412.9	0.0	12412.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	4.1
10°-20°	1569.0	12.6
20°-30°	2480.4	20.0
30°-40°	2801.9	22.6
40°-50°	2624.0	21.1
50°-60°	1809.1	14.6
60°-70°	486.0	3.9
70°-80°	101.3	0.8
80°-90°	27.4	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°	12412.9	100.0
0°-180°	12412.9	100.0



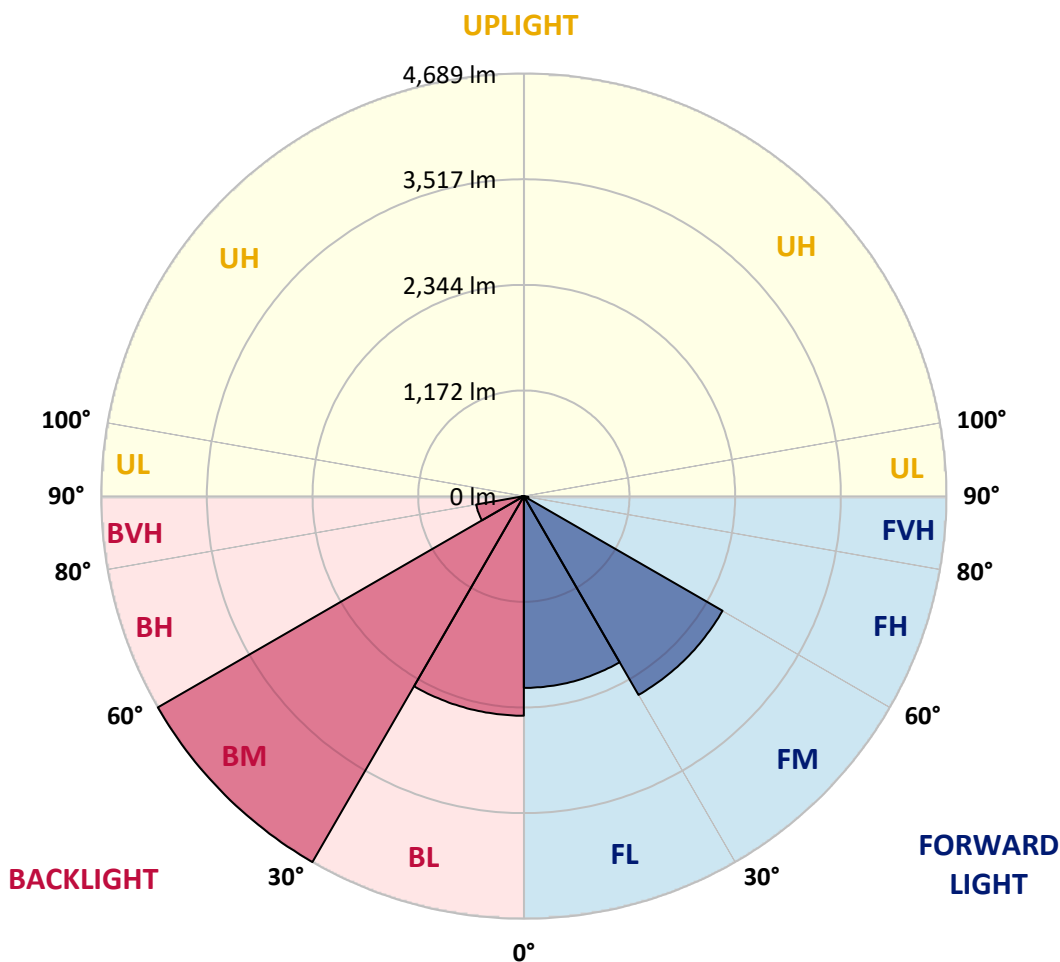
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2127.2	17.1			
FM	(30°-60°)	2546.2	20.5			
FH	(60°-80°)	51.0	0.4			G0/660
FVH	(80°-90°)	3.7	0.0			G0/10
BL	(0°-30°)	2436.1	19.6	B3/2500		
BM	(30°-60°)	4688.8	37.8	B3/5000		
BH	(60°-80°)	536.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.7	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9
2.5°	5379.7	5345.0	5312.2	5301.2	5346.8	5396.1	5365.1	5366.9	5355.9	5376.0
5°	5419.8	5372.4	5350.5	5334.1	5341.4	5392.4	5348.7	5365.1	5346.8	5370.5
7.5°	5405.2	5372.4	5350.5	5319.5	5343.2	5403.4	5361.4	5363.2	5354.1	5376.0
10°	5396.1	5372.4	5345.0	5348.7	5376.0	5427.1	5394.3	5412.5	5399.7	5412.5
12.5°	5418.0	5392.4	5377.8	5377.8	5401.6	5459.9	5443.5	5459.9	5454.5	5465.4
15°	5211.8	5235.5	5374.2	5436.2	5483.6	5542.0	5534.7	5551.1	5554.8	5571.2
17.5°	4396.4	4372.7	4361.7	4681.0	5529.3	5709.9	5704.4	5702.6	5684.3	5671.5
20°	4504.0	4494.9	4482.1	4505.9	4600.7	5797.4	5833.9	5609.5	5543.8	5538.4
22.5°	4675.5	4660.9	4613.5	4615.3	4644.5	5040.4	5653.3	5449.0	5427.1	5414.3
25°	4759.4	4730.2	4691.9	4681.0	4690.1	4617.1	5049.5	5292.1	5184.5	5135.2
27.5°	4611.7	4613.5	4582.5	4611.7	4577.0	4248.6	4064.4	4985.6	4982.0	4960.1
30°	4500.4	4494.9	4458.4	4494.9	4255.9	3889.3	3810.8	4650.0	4611.7	4582.5
32.5°	4159.3	4162.9	4268.7	4411.0	4018.8	3728.7	3491.6	4153.8	4516.8	4500.4
35°	2975.3	2982.6	3358.4	4060.7	3659.4	3409.5	3391.2	3590.1	4367.2	4374.5
37.5°	2864.0	2864.0	2854.9	2969.9	3376.7	3280.0	3316.5	3296.4	4000.5	4018.8
40°	2783.8	2767.4	2754.6	2574.0	2347.8	3188.8	3214.3	3123.1	3781.6	3785.3
42.5°	2687.1	2668.9	2672.5	2338.7	2101.5	2962.6	2891.4	2769.2	3416.8	3420.4
45°	2510.1	2541.2	2563.0	2046.8	2028.5	2116.1	2667.0	2590.4	3170.5	3238.0
47.5°	1277.0	1304.3	2001.2	1882.6	1924.6	1880.8	2252.9	2254.8	2637.8	2862.2
50°	1158.4	1151.1	1152.9	1098.2	1776.8	1521.4	1629.0	2066.9	2112.5	2433.5
52.5°	1079.9	1078.1	966.8	859.2	1116.4	1339.0	1182.1	1495.9	1570.7	2061.4
55°	799.0	857.4	762.5	808.1	698.7	1072.6	1067.2	1349.9	1375.5	1652.8
57.5°	7.3	9.1	21.9	614.8	483.4	536.3	737.0	921.2	966.8	1287.9
60°	1.8	3.6	9.1	18.2	313.8	330.2	492.5	532.7	600.2	768.0
62.5°	0.0	0.0	3.6	9.1	16.4	135.0	156.9	171.5	264.5	392.2
65°	0.0	0.0	1.8	5.5	9.1	21.9	38.3	80.3	114.9	142.3
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.9	31.0	49.3	83.9
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	29.2	42.0
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.9	27.4
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.8	14.6	21.9
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.6	12.8	12.8
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.6	9.1	9.1
82.5°	0.0	0.0	1.8	7.3	5.5	18.2	18.2	20.1	7.3	7.3
85°	0.0	0.0	5.5	3.6	10.9	18.2	16.4	10.9	9.1	5.5
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	12.8	10.9	3.6	3.6
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°
5355.9	0°	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9
5323.1	2.5°	5396.1	5372.4	5421.6	5416.1	5392.4	5381.5	5368.7	5357.8	5277.5
5326.8	5°	5397.9	5361.4	5421.6	5410.7	5407.0	5388.8	5377.8	5394.3	5321.3
5341.4	7.5°	5397.9	5361.4	5427.1	5430.7	5425.3	5410.7	5408.9	5419.8	5359.6
5366.9	10°	5434.4	5419.8	5474.5	5480.0	5472.7	5469.1	5459.9	5452.6	5388.8
5454.5	12.5°	5511.0	5481.8	5543.8	5560.3	5554.8	5563.9	5542.0	5553.0	5487.3
5543.8	15°	5604.0	5605.9	5653.3	5689.8	5686.1	5715.3	5682.5	5711.7	5664.2
5646.0	17.5°	5746.3	5766.4	5833.9	5888.6	5908.7	5930.6	5908.7	5917.8	5850.3
5532.9	20°	5596.7	5671.5	5996.3	6096.6	6138.5	6158.6	6122.1	6133.1	6065.6
5394.3	22.5°	5461.8	5558.4	5846.7	6160.4	6290.0	6330.1	6317.3	6315.5	6290.0
5120.6	25°	5262.9	5458.1	5587.6	5919.6	6326.4	6399.4	6406.7	6404.9	6366.6
4952.8	27.5°	5018.5	5062.2	5397.9	5600.4	6071.0	6348.3	6337.4	6284.5	6233.4
4604.4	30°	4706.5	4905.4	5056.8	5379.7	5740.9	6191.4	6191.4	6151.3	6098.4
4480.3	32.5°	4547.8	4805.0	4945.5	5062.2	5370.5	6016.3	6089.3	6047.3	6005.4
4383.6	35°	4463.9	4502.2	4830.6	4936.4	5197.2	5678.8	5974.4	5932.4	5901.4
4126.4	37.5°	4279.7	4369.0	4522.3	4805.0	4885.3	5403.4	5821.1	5799.2	5762.8
3792.6	40°	3869.2	4108.2	4343.5	4611.7	4695.6	5049.5	5635.1	5644.2	5594.9
3436.9	42.5°	3626.6	3788.9	4157.4	4338.0	4564.2	4821.4	5454.5	5469.1	5434.4
3256.3	45°	3342.0	3522.6	3781.6	4110.0	4418.3	4507.7	5135.2	5288.5	5259.3
2896.9	47.5°	3081.1	3227.1	3544.5	3876.5	4217.6	4204.9	4768.5	5056.8	5016.6
2621.4	50°	2710.8	2966.2	3115.8	3420.4	3929.4	3964.1	4378.2	4785.0	4752.1
2227.4	52.5°	2285.8	2606.8	2893.2	3172.3	3637.5	3719.6	4015.1	4507.7	4485.8
1702.0	55°	1997.5	2231.0	2553.9	2778.3	3283.6	3502.5	3743.3	4243.2	4232.2
1399.2	57.5°	1421.1	1871.7	2138.0	2451.8	2718.1	3114.0	3292.7	3705.0	3602.9
775.3	60°	963.2	1174.8	1499.5	1837.0	2015.8	2411.6	2577.6	2907.8	2880.5
463.4	62.5°	509.0	704.2	935.8	1105.5	1235.0	1619.9	1689.2	2045.0	2035.8
186.1	65°	224.4	297.4	507.1	594.7	727.9	906.6	966.8	1094.5	1063.5
91.2	67.5°	116.8	177.0	286.4	352.1	443.3	510.8	560.0	600.2	625.7
60.2	70°	71.1	129.5	177.0	244.4	304.6	359.4	397.7	452.4	485.2
31.0	72.5°	52.9	82.1	122.2	187.9	220.7	284.6	322.9	363.0	392.2
25.5	75°	29.2	54.7	98.5	147.8	177.0	231.7	266.3	293.7	302.8
14.6	77.5°	18.2	42.0	82.1	114.9	138.6	187.9	178.8	204.3	226.2
10.9	80°	12.8	31.0	63.8	94.9	96.7	120.4	142.3	164.2	178.8
7.3	82.5°	9.1	25.5	47.4	73.0	63.8	93.0	111.3	127.7	93.0
5.5	85°	7.3	18.2	23.7	43.8	36.5	65.7	56.6	54.7	36.5
3.6	87.5°	5.5	9.1	16.4	20.1	14.6	14.6	18.2	21.9	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5355.9
5222.8
5259.3
5290.3
5335.9
5428.9
5585.8
5791.9
6018.1
6207.9
6308.2
6193.3
6078.3
5970.7
5857.6
5726.3
5584.0
5430.7
5262.9
5045.8
4757.6
4500.4
4245.0
3591.9
2882.3
2037.7
1050.8
625.7
487.1
397.7
297.4
229.9
180.6
67.5
36.5
18.2
0.0

(END OF REPORT)