

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: P638340

Luminaire Tested: **IFLD-S-SA3D-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638340
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14366.1 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

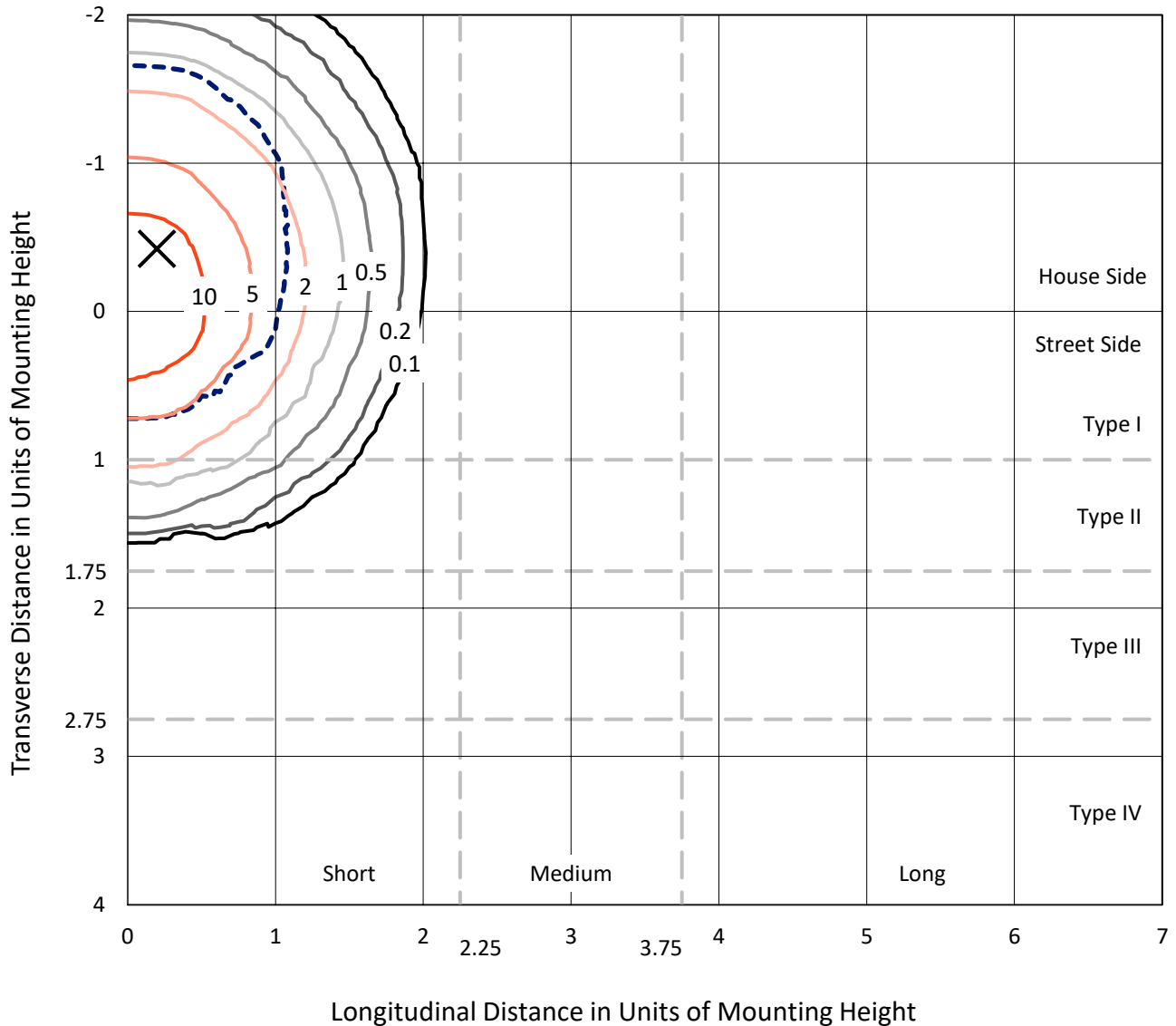
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

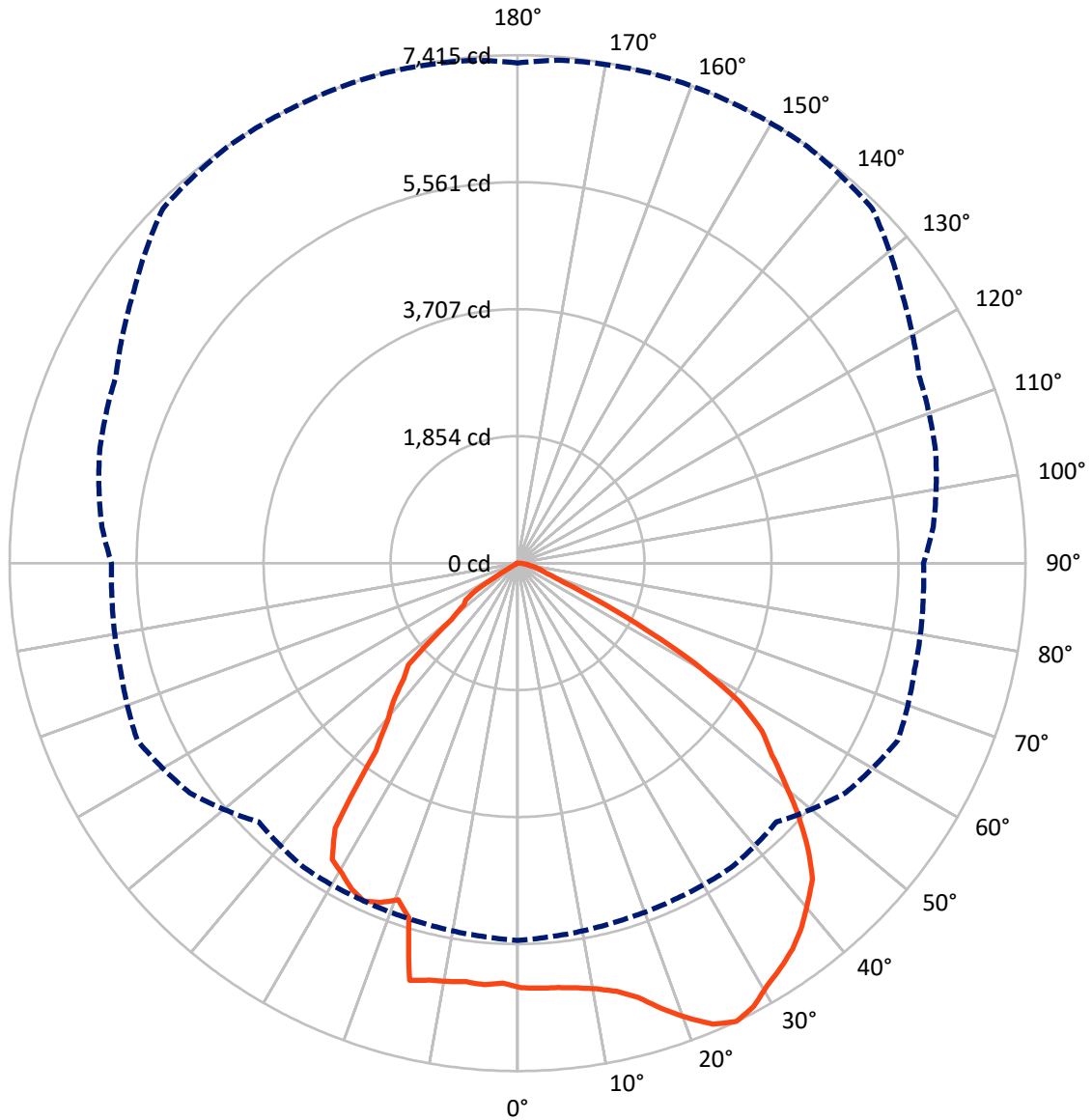
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 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	8894.1	0.0	8894.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5472.0	0.0	5472.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	14366.1	0.0	14366.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	4.1
10°-20°	1815.8	12.6
20°-30°	2870.7	20.0
30°-40°	3242.7	22.6
40°-50°	3036.9	21.1
50°-60°	2093.7	14.6
60°-70°	562.5	3.9
70°-80°	117.2	0.8
80°-90°	31.7	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°	14366.1	100.0
0°-180°	14366.1	100.0



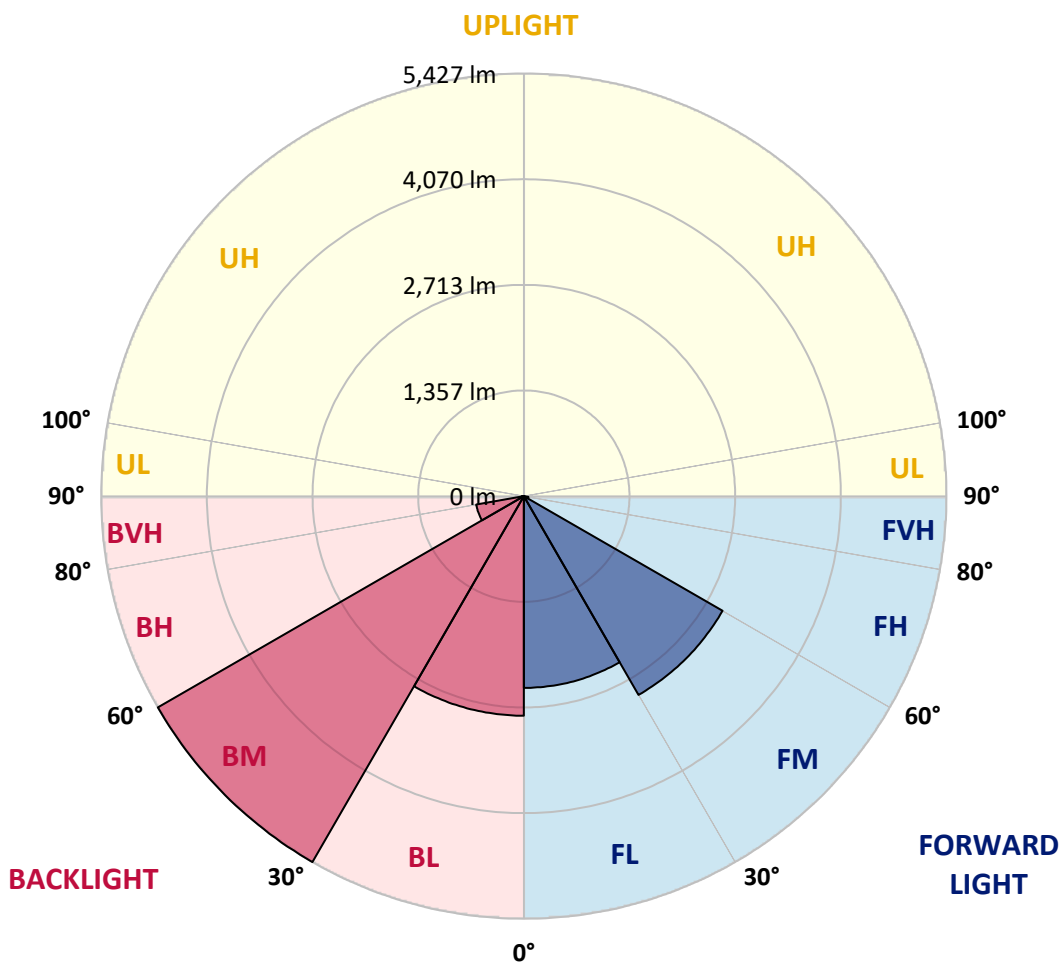
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.9	17.1			
FM (30°-60°)	2946.8	20.5			
FH (60°-80°)	59.1	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	2819.4	19.6	B4/5000		
BM (30°-60°)	5426.6	37.8	B4/8500		
BH (60°-80°)	620.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.5	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6226.1	6186.0	6148.0	6135.4	6188.1	6245.1	6209.3	6211.4	6198.7	6221.9
5°	6272.6	6217.7	6192.4	6173.4	6181.8	6240.9	6190.3	6209.3	6188.1	6215.6
7.5°	6255.7	6217.7	6192.4	6156.5	6183.9	6253.6	6205.0	6207.1	6196.6	6221.9
10°	6245.1	6217.7	6186.0	6190.3	6221.9	6281.0	6243.0	6264.1	6249.4	6264.1
12.5°	6270.5	6240.9	6224.0	6224.0	6251.5	6319.0	6300.0	6319.0	6312.7	6325.4
15°	6031.9	6059.4	6219.8	6291.6	6346.5	6414.0	6405.6	6424.6	6428.8	6447.8
17.5°	5088.2	5060.7	5048.1	5417.5	6399.3	6608.3	6602.0	6599.8	6578.7	6563.9
20°	5212.7	5202.2	5187.4	5214.8	5324.6	6709.6	6751.9	6492.2	6416.2	6409.8
22.5°	5411.2	5394.3	5339.4	5341.5	5375.3	5833.4	6542.8	6306.4	6281.0	6266.3
25°	5508.3	5474.5	5430.2	5417.5	5428.1	5343.6	5844.0	6124.8	6000.2	5943.2
27.5°	5337.3	5339.4	5303.5	5337.3	5297.2	4917.2	4703.9	5770.1	5765.9	5740.6
30°	5208.5	5202.2	5160.0	5202.2	4925.6	4501.2	4410.5	5381.6	5337.3	5303.5
32.5°	4813.7	4817.9	4940.4	5105.1	4651.1	4315.4	4041.0	4807.4	5227.5	5208.5
35°	3443.5	3451.9	3886.9	4699.7	4235.2	3946.0	3924.9	4155.0	5054.4	5062.8
37.5°	3314.7	3314.7	3304.1	3437.2	3908.0	3796.1	3838.3	3815.1	4630.0	4651.1
40°	3221.8	3202.8	3188.0	2979.0	2717.2	3690.5	3720.1	3614.5	4376.7	4380.9
42.5°	3109.9	3088.8	3093.0	2706.7	2432.2	3428.7	3346.4	3204.9	3954.4	3958.6
45°	2905.1	2941.0	2966.3	2368.8	2347.7	2449.1	3086.7	2998.0	3669.4	3747.5
47.5°	1477.9	1509.6	2316.1	2178.8	2227.4	2176.7	2607.4	2609.5	3052.9	3312.6
50°	1340.7	1332.2	1334.3	1271.0	2056.4	1760.8	1885.4	2392.1	2444.9	2816.4
52.5°	1249.9	1247.8	1119.0	994.4	1292.1	1549.7	1368.1	1731.2	1817.8	2385.7
55°	924.7	992.3	882.5	935.3	808.6	1241.4	1235.1	1562.3	1591.9	1912.8
57.5°	8.4	10.6	25.3	711.5	559.5	620.7	853.0	1066.2	1119.0	1490.6
60°	2.1	4.2	10.6	21.1	363.1	382.1	570.0	616.5	694.6	888.8
62.5°	0.0	0.0	4.2	10.6	19.0	156.2	181.6	198.5	306.1	453.9
65°	0.0	0.0	2.1	6.3	10.6	25.3	44.3	92.9	133.0	164.7
67.5°	0.0	0.0	2.1	4.2	8.4	12.7	25.3	35.9	57.0	97.1
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.3	33.8	48.6
72.5°	0.0	0.0	2.1	4.2	4.2	12.7	12.7	19.0	25.3	31.7
75°	0.0	0.0	2.1	2.1	4.2	8.4	12.7	14.8	16.9	25.3
77.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	16.9	14.8	14.8
80°	0.0	0.0	2.1	6.3	6.3	10.6	12.7	16.9	10.6	10.6
82.5°	0.0	0.0	2.1	8.4	6.3	21.1	21.1	23.2	8.4	8.4
85°	0.0	0.0	6.3	4.2	12.7	21.1	19.0	12.7	10.6	6.3
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	14.8	12.7	4.2	4.2
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°
6198.7	0°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
6160.7	2.5°	6245.1	6217.7	6274.7	6268.4	6240.9	6228.3	6213.5	6200.8	6107.9
6164.9	5°	6247.3	6205.0	6274.7	6262.0	6257.8	6236.7	6224.0	6243.0	6158.6
6181.8	7.5°	6247.3	6205.0	6281.0	6285.3	6278.9	6262.0	6259.9	6272.6	6202.9
6211.4	10°	6289.5	6272.6	6335.9	6342.3	6333.8	6329.6	6319.0	6310.6	6236.7
6312.7	12.5°	6378.2	6344.4	6416.2	6435.2	6428.8	6439.4	6414.0	6426.7	6350.7
6416.2	15°	6485.8	6487.9	6542.8	6585.1	6580.8	6614.6	6576.6	6610.4	6555.5
6534.4	17.5°	6650.5	6673.7	6751.9	6815.2	6838.4	6863.8	6838.4	6849.0	6770.9
6403.5	20°	6477.4	6563.9	6939.8	7055.9	7104.4	7127.7	7085.4	7098.1	7020.0
6243.0	22.5°	6321.2	6433.1	6766.6	7129.8	7279.7	7326.1	7311.3	7309.2	7279.7
5926.3	25°	6091.0	6316.9	6466.8	6851.1	7321.9	7406.3	7414.8	7412.7	7368.3
5732.1	27.5°	5808.1	5858.8	6247.3	6481.6	7026.3	7347.2	7334.6	7273.3	7214.2
5328.9	30°	5447.1	5677.2	5852.5	6226.1	6644.2	7165.7	7165.7	7119.2	7058.0
5185.3	32.5°	5263.4	5561.1	5723.7	5858.8	6215.6	6963.0	7047.4	6998.9	6950.3
5073.4	35°	5166.3	5210.6	5590.7	5713.1	6015.0	6572.4	6914.4	6865.9	6830.0
4775.7	37.5°	4953.0	5056.5	5233.8	5561.1	5654.0	6253.6	6737.1	6711.7	6669.5
4389.3	40°	4478.0	4754.6	5026.9	5337.3	5434.4	5844.0	6521.7	6532.3	6475.3
3977.6	42.5°	4197.2	4385.1	4811.6	5020.6	5282.4	5580.1	6312.7	6329.6	6289.5
3768.6	45°	3867.9	4076.9	4376.7	4756.7	5113.5	5217.0	5943.2	6120.6	6086.8
3352.7	47.5°	3565.9	3734.8	4102.2	4486.5	4881.3	4866.5	5518.9	5852.5	5806.0
3033.9	50°	3137.4	3432.9	3606.1	3958.6	4547.7	4587.8	5067.1	5537.9	5499.9
2577.9	52.5°	2645.4	3017.0	3348.5	3671.5	4209.9	4304.9	4646.9	5217.0	5191.6
1969.8	55°	2311.8	2582.1	2955.8	3215.5	3800.3	4053.6	4332.3	4910.8	4898.2
1619.3	57.5°	1644.7	2166.2	2474.4	2837.6	3145.8	3603.9	3810.8	4288.0	4169.8
897.3	60°	1114.8	1359.7	1735.5	2126.1	2333.0	2791.1	2983.2	3365.4	3333.7
536.3	62.5°	589.0	815.0	1083.1	1279.4	1429.3	1874.8	1955.0	2366.7	2356.2
215.3	65°	259.7	344.1	586.9	688.3	842.4	1049.3	1119.0	1266.8	1230.9
105.6	67.5°	135.1	204.8	331.5	407.5	513.0	591.2	648.2	694.6	724.2
69.7	70°	82.3	149.9	204.8	282.9	352.6	415.9	460.3	523.6	561.6
35.9	72.5°	61.2	95.0	141.5	217.5	255.5	329.4	373.7	420.1	453.9
29.6	75°	33.8	63.3	114.0	171.0	204.8	268.1	308.2	339.9	350.5
16.9	77.5°	21.1	48.6	95.0	133.0	160.5	217.5	206.9	236.5	261.8
12.7	80°	14.8	35.9	73.9	109.8	111.9	139.3	164.7	190.0	206.9
8.4	82.5°	10.6	29.6	54.9	84.5	73.9	107.7	128.8	147.8	107.7
6.3	85°	8.4	21.1	27.4	50.7	42.2	76.0	65.4	63.3	42.2
4.2	87.5°	6.3	10.6	19.0	23.2	16.9	16.9	21.1	25.3	21.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6198.7
6044.6
6086.8
6122.7
6175.5
6283.2
6464.7
6703.3
6965.1
7184.7
7300.8
7167.8
7034.8
6910.2
6779.3
6627.3
6462.6
6285.3
6091.0
5839.8
5506.2
5208.5
4912.9
4157.1
3335.8
2358.3
1216.1
724.2
563.7
460.3
344.1
266.0
209.0
78.1
42.2
21.1
0.0

(END OF REPORT)