

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: P636953

Luminaire Tested: **IFLD-S-SA6D-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24350.7 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

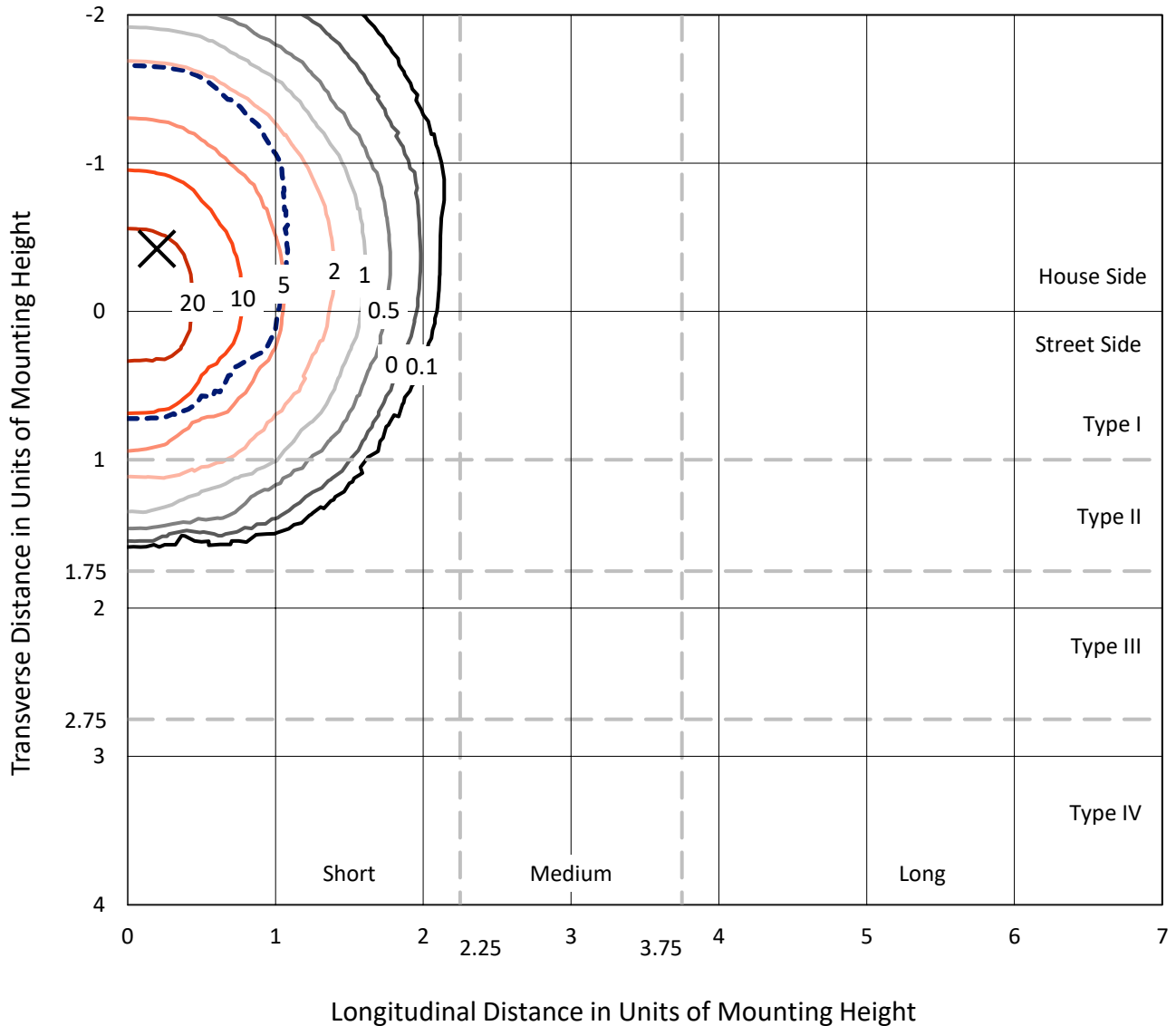
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

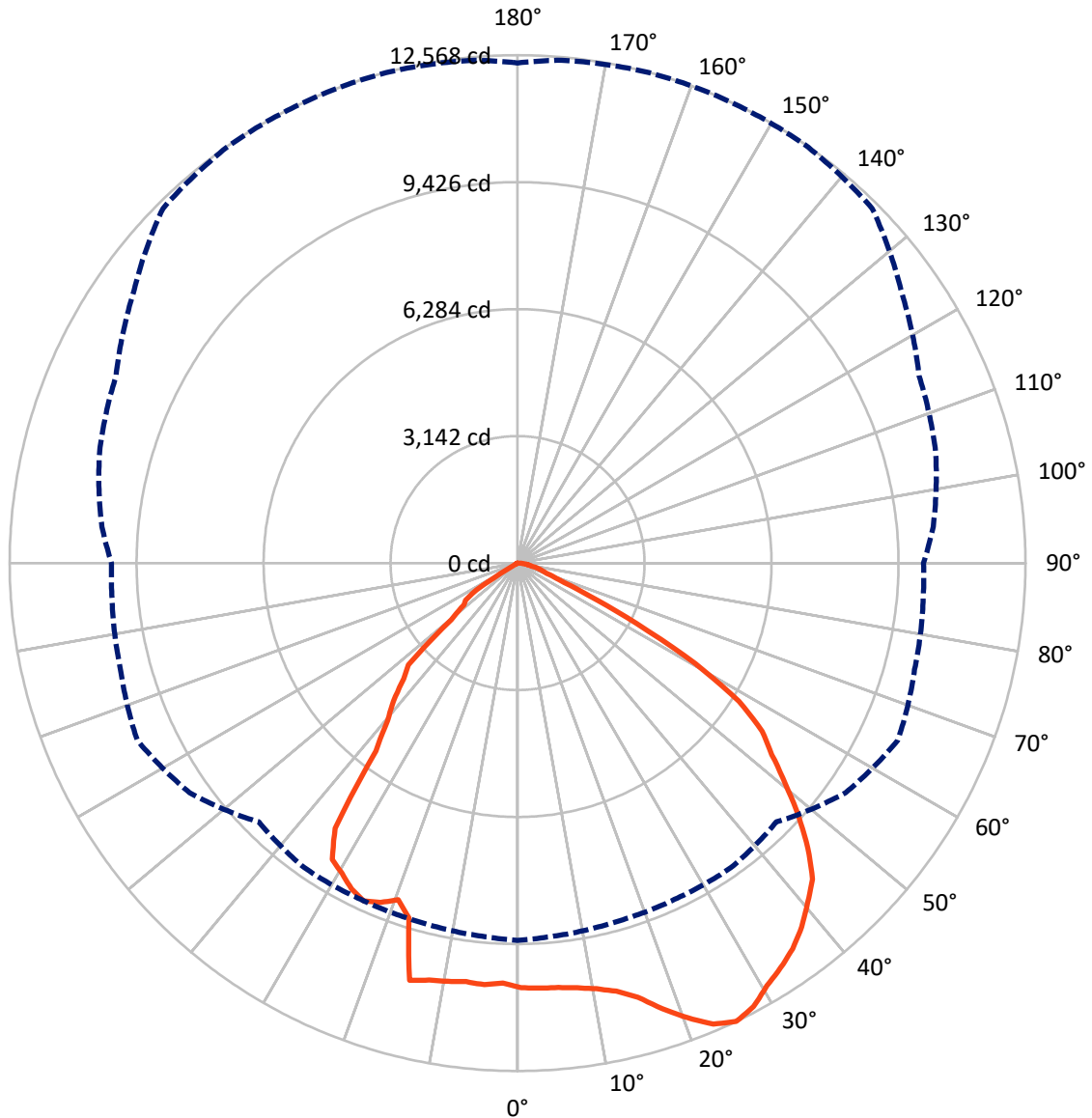
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.3 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
House Side	Lumens	15075.6	0.0	15075.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9275.1	0.0	9275.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	24350.7	0.0	24350.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.0	4.1
10°-20°	3077.9	12.6
20°-30°	4865.9	20.0
30°-40°	5496.5	22.6
40°-50°	5147.6	21.1
50°-60°	3548.9	14.6
60°-70°	953.5	3.9
70°-80°	198.7	0.8
80°-90°	53.8	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°	24350.7	100.0
0°-180°	24350.7	100.0

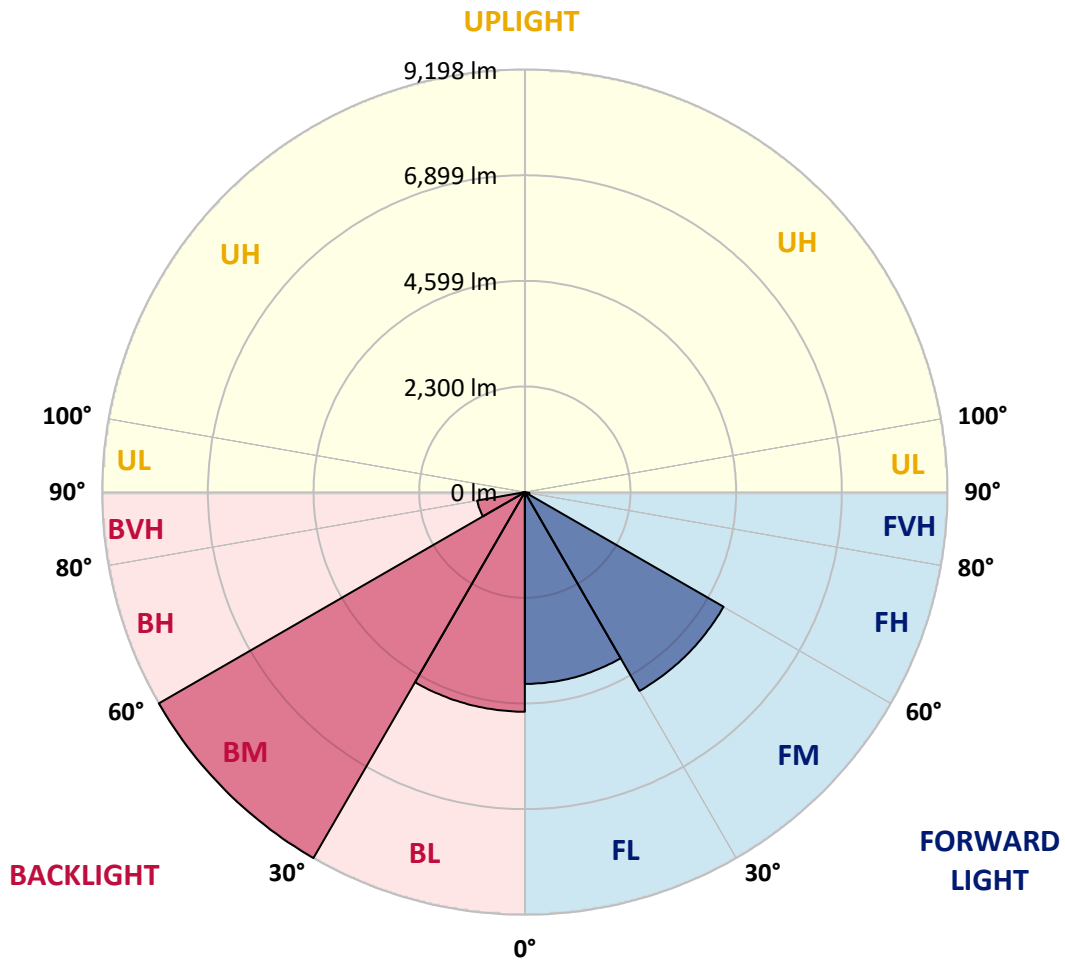


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4172.9	17.1			
FM (30°-60°)	4994.9	20.5			
FH (60°-80°)	100.1	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	4778.9	19.6	B4/5000		
BM (30°-60°)	9198.1	37.8	B5		
BH (60°-80°)	1052.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	46.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9
2.5°	10553.4	10485.4	10421.0	10399.5	10489.0	10585.6	10524.8	10528.3	10506.9	10546.2
5°	10632.1	10539.1	10496.1	10463.9	10478.2	10578.4	10492.6	10524.8	10489.0	10535.5
7.5°	10603.5	10539.1	10496.1	10435.3	10481.8	10599.9	10517.6	10521.2	10503.3	10546.2
10°	10585.6	10539.1	10485.4	10492.6	10546.2	10646.4	10582.0	10617.8	10592.8	10617.8
12.5°	10628.5	10578.4	10549.8	10549.8	10596.3	10710.9	10678.6	10710.9	10700.1	10721.6
15°	10224.2	10270.7	10542.7	10664.3	10757.4	10871.9	10857.6	10889.8	10896.9	10929.2
17.5°	8624.5	8578.0	8556.5	9182.8	10846.8	11201.1	11190.4	11186.8	11151.0	11126.0
20°	8835.7	8817.8	8792.7	8839.2	9025.3	11372.9	11444.5	11004.3	10875.5	10864.7
22.5°	9172.0	9143.4	9050.4	9053.9	9111.2	9887.8	11090.2	10689.4	10646.4	10621.4
25°	9336.7	9279.4	9204.3	9182.8	9200.7	9057.5	9905.7	10381.6	10170.5	10073.9
27.5°	9046.8	9050.4	8989.5	9046.8	8978.8	8334.6	7973.2	9780.4	9773.3	9730.3
30°	8828.5	8817.8	8746.2	8817.8	8349.0	7629.7	7475.8	9121.9	9046.8	8989.5
32.5°	8159.3	8166.4	8374.0	8653.1	7883.7	7314.7	6849.5	8148.6	8860.7	8828.5
35°	5836.8	5851.1	6588.3	7966.0	7178.7	6688.5	6652.7	7042.8	8567.3	8581.6
37.5°	5618.5	5618.5	5600.6	5826.0	6624.1	6434.4	6506.0	6466.6	7847.9	7883.7
40°	5461.0	5428.8	5403.7	5049.5	4605.7	6255.5	6305.6	6126.6	7418.5	7425.7
42.5°	5271.3	5235.5	5242.7	4587.8	4122.6	5811.7	5672.1	5432.4	6702.8	6709.9
45°	4924.2	4985.0	5028.0	4015.2	3979.4	4151.2	5232.0	5081.7	6219.7	6352.1
47.5°	2505.0	2558.7	3925.8	3693.2	3775.5	3689.6	4419.6	4423.2	5174.7	5614.9
50°	2272.4	2258.1	2261.7	2154.3	3485.6	2984.6	3195.7	4054.6	4144.1	4773.9
52.5°	2118.6	2115.0	1896.7	1685.5	2190.1	2626.7	2319.0	2934.5	3081.2	4043.9
55°	1567.4	1682.0	1495.9	1585.3	1370.6	2104.2	2093.5	2648.2	2698.3	3242.2
57.5°	14.3	17.9	42.9	1206.0	948.3	1052.1	1445.8	1807.2	1896.7	2526.5
60°	3.6	7.2	17.9	35.8	615.5	647.7	966.2	1045.0	1177.4	1506.6
62.5°	0.0	0.0	7.2	17.9	32.2	264.8	307.8	336.4	518.9	769.4
65°	0.0	0.0	3.6	10.7	17.9	42.9	75.2	157.5	225.5	279.1
67.5°	0.0	0.0	3.6	7.2	14.3	21.5	42.9	60.8	96.6	164.6
70°	0.0	0.0	3.6	7.2	10.7	17.9	28.6	42.9	57.3	82.3
72.5°	0.0	0.0	3.6	7.2	7.2	21.5	21.5	32.2	42.9	53.7
75°	0.0	0.0	3.6	3.6	7.2	14.3	21.5	25.1	28.6	42.9
77.5°	0.0	0.0	3.6	7.2	10.7	14.3	17.9	28.6	25.1	25.1
80°	0.0	0.0	3.6	10.7	10.7	17.9	21.5	28.6	17.9	17.9
82.5°	0.0	0.0	3.6	14.3	10.7	35.8	35.8	39.4	14.3	14.3
85°	0.0	0.0	10.7	7.2	21.5	35.8	32.2	21.5	17.9	10.7
87.5°	0.0	0.0	3.6	3.6	7.2	10.7	25.1	21.5	7.2	7.2
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°
10506.9	0°	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9	10506.9
10442.5	2.5°	10585.6	10539.1	10635.7	10625.0	10578.4	10557.0	10531.9	10510.5	10353.0
10449.6	5°	10589.2	10517.6	10635.7	10614.2	10607.1	10571.3	10549.8	10582.0	10438.9
10478.2	7.5°	10589.2	10517.6	10646.4	10653.6	10642.9	10614.2	10610.7	10632.1	10514.0
10528.3	10°	10660.8	10632.1	10739.5	10750.2	10735.9	10728.8	10710.9	10696.5	10571.3
10700.1	12.5°	10811.1	10753.8	10875.5	10907.7	10896.9	10914.8	10871.9	10893.4	10764.5
10875.5	15°	10993.6	10997.1	11090.2	11161.8	11154.6	11211.9	11147.5	11204.7	11111.7
11075.9	17.5°	11272.7	11312.1	11444.5	11551.8	11591.2	11634.1	11591.2	11609.1	11476.7
10854.0	20°	10979.3	11126.0	11763.0	11959.8	12042.1	12081.5	12009.9	12031.4	11899.0
10582.0	22.5°	10714.4	10904.1	11469.5	12085.1	12339.1	12417.9	12392.8	12389.2	12339.1
10045.2	25°	10324.4	10707.3	10961.4	11612.7	12410.7	12553.9	12568.2	12564.6	12489.4
9716.0	27.5°	9844.8	9930.7	10589.2	10986.4	11909.7	12453.7	12432.2	12328.4	12228.2
9032.5	30°	9232.9	9623.0	9920.0	10553.4	11262.0	12145.9	12145.9	12067.2	11963.4
8789.1	32.5°	8921.5	9426.1	9701.7	9930.7	10535.5	11802.3	11945.5	11863.2	11780.9
8599.5	35°	8756.9	8832.1	9476.2	9683.8	10195.5	11140.3	11720.0	11637.7	11576.9
8094.9	37.5°	8395.5	8570.8	8871.4	9426.1	9583.6	10599.9	11419.4	11376.5	11304.9
7440.0	40°	7590.3	8059.1	8520.7	9046.8	9211.4	9905.7	11054.4	11072.3	10975.7
6742.2	42.5°	7114.3	7432.8	8155.7	8510.0	8953.7	9458.3	10700.1	10728.8	10660.8
6387.9	45°	6556.1	6910.3	7418.5	8062.7	8667.5	8842.8	10073.9	10374.5	10317.2
5682.9	47.5°	6044.3	6330.6	6953.3	7604.6	8273.8	8248.8	9354.6	9920.0	9841.2
5142.5	50°	5317.9	5818.9	6112.3	6709.9	7708.4	7776.4	8588.7	9386.8	9322.3
4369.5	52.5°	4484.0	5113.9	5675.7	6223.2	7135.8	7296.8	7876.6	8842.8	8799.9
3338.9	55°	3918.6	4376.7	5010.1	5450.3	6441.5	6871.0	7343.4	8323.9	8302.4
2744.8	57.5°	2787.8	3671.7	4194.2	4809.7	5332.2	6108.7	6459.4	7268.2	7067.8
1520.9	60°	1889.5	2304.6	2941.6	3603.7	3954.4	4731.0	5056.6	5704.3	5650.7
909.0	62.5°	998.4	1381.4	1835.8	2168.7	2422.7	3177.8	3313.8	4011.7	3993.8
365.0	65°	440.2	583.3	994.9	1166.6	1427.9	1778.6	1896.7	2147.2	2086.3
178.9	67.5°	229.0	347.1	561.8	690.7	869.6	1002.0	1098.6	1177.4	1227.5
118.1	70°	139.6	254.1	347.1	479.5	597.6	705.0	780.1	887.5	951.9
60.8	72.5°	103.8	161.0	239.8	368.6	433.0	558.3	633.4	712.1	769.4
50.1	75°	57.3	107.4	193.2	289.9	347.1	454.5	522.5	576.2	594.1
28.6	77.5°	35.8	82.3	161.0	225.5	272.0	368.6	350.7	400.8	443.8
21.5	80°	25.1	60.8	125.3	186.1	189.7	236.2	279.1	322.1	350.7
14.3	82.5°	17.9	50.1	93.0	143.1	125.3	182.5	218.3	250.5	182.5
10.7	85°	14.3	35.8	46.5	85.9	71.6	128.8	110.9	107.4	71.6
7.2	87.5°	10.7	17.9	32.2	39.4	28.6	28.6	35.8	42.9	35.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10506.9
10245.6
10317.2
10378.0
10467.5
10650.0
10957.8
11362.2
11805.9
12178.1
12374.9
12149.5
11924.0
11712.9
11491.0
11233.3
10954.2
10653.6
10324.4
9898.5
9333.1
8828.5
8327.5
7046.3
5654.2
3997.3
2061.3
1227.5
955.5
780.1
583.3
450.9
354.3
132.4
71.6
35.8
0.0

(END OF REPORT)