

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: P638382

Luminaire Tested: **IFLD-L-SA7B-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23900.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

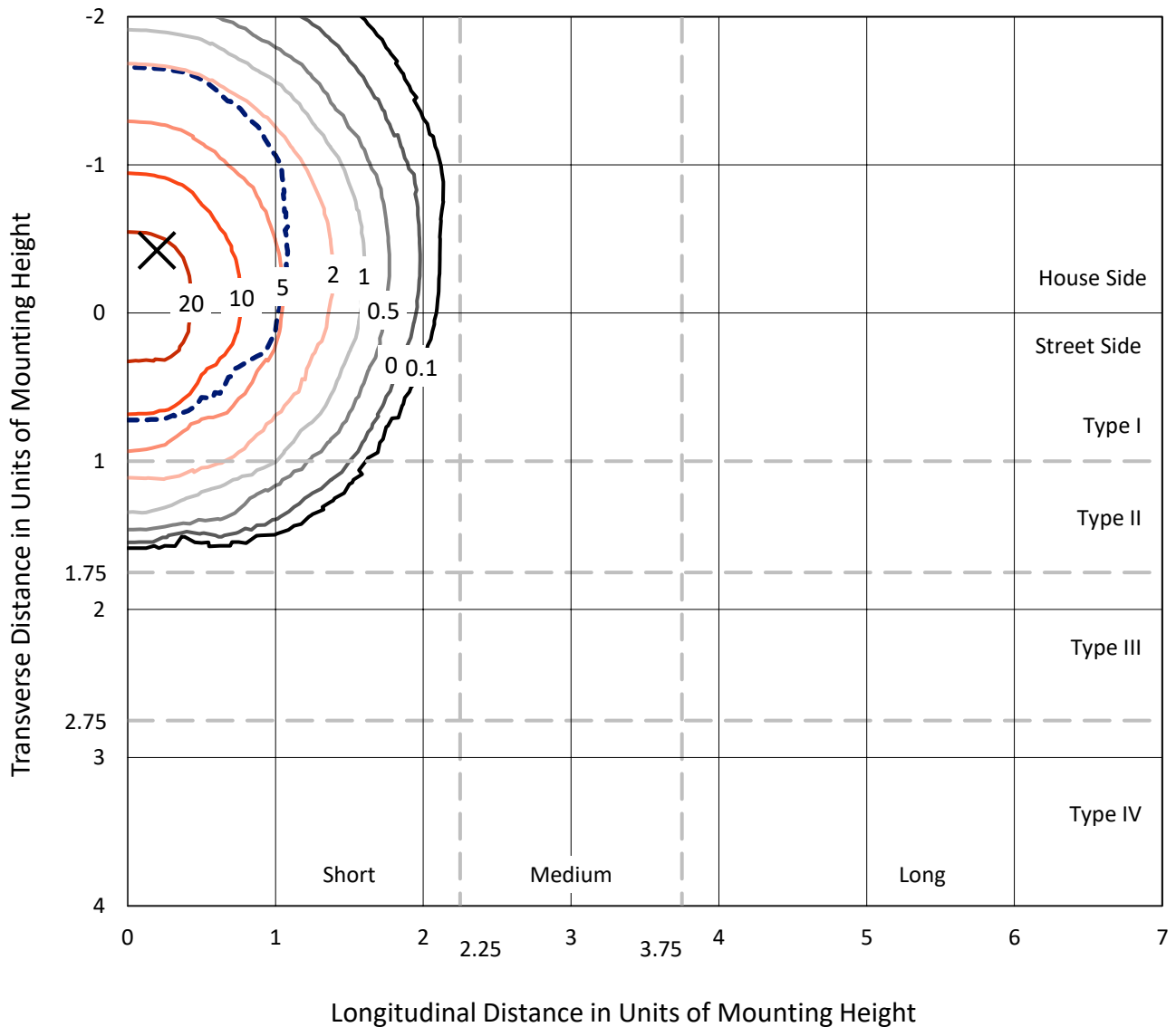
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

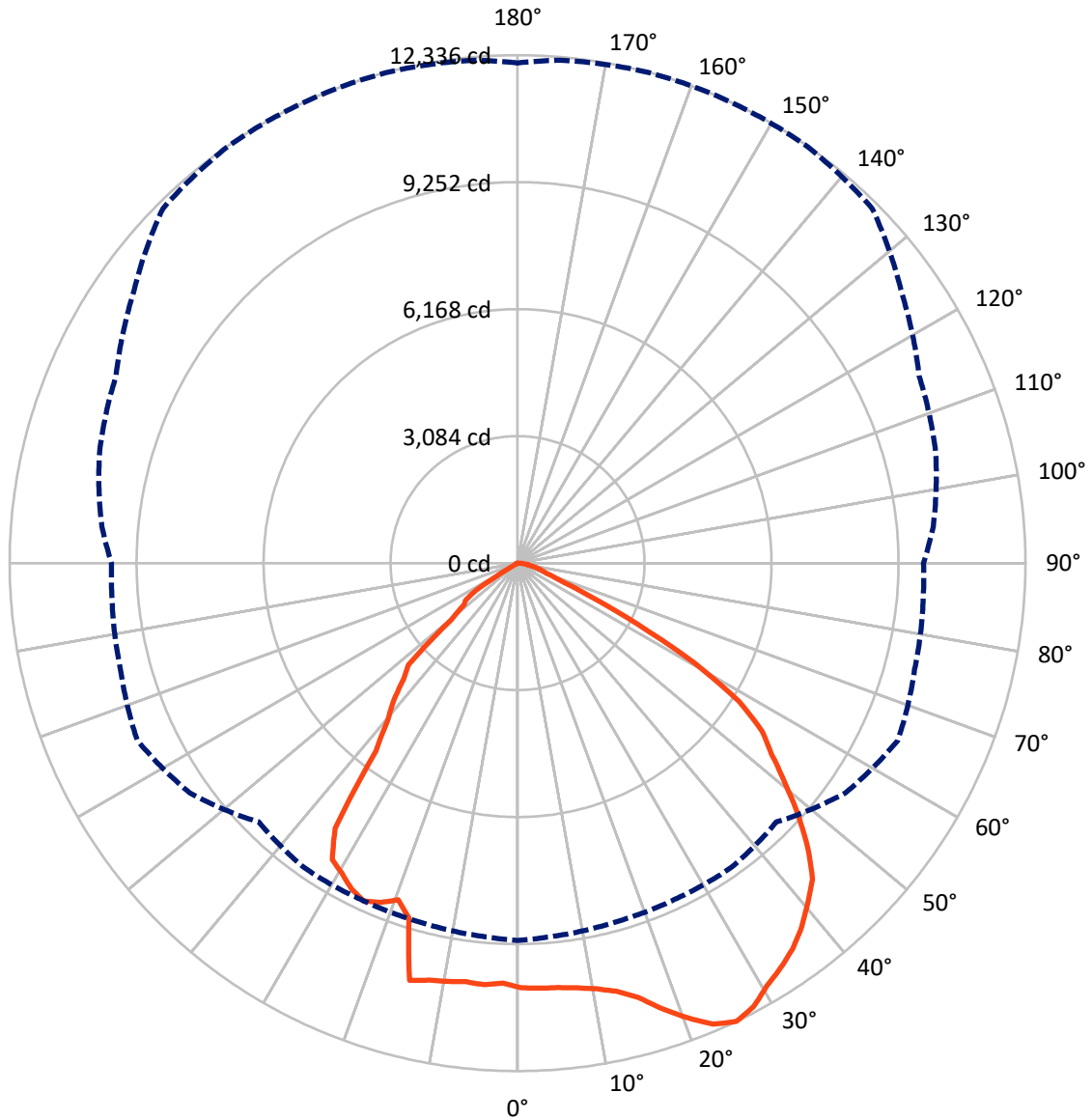
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.8 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	14797.1	0.0	14797.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9103.8	0.0	9103.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	23900.9	0.0	23900.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.4	4.1
10°-20°	3021.0	12.6
20°-30°	4776.1	20.0
30°-40°	5395.0	22.6
40°-50°	5052.5	21.1
50°-60°	3483.3	14.6
60°-70°	935.9	3.9
70°-80°	195.0	0.8
80°-90°	52.8	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°	23900.9	100.0
0°-180°	23900.9	100.0



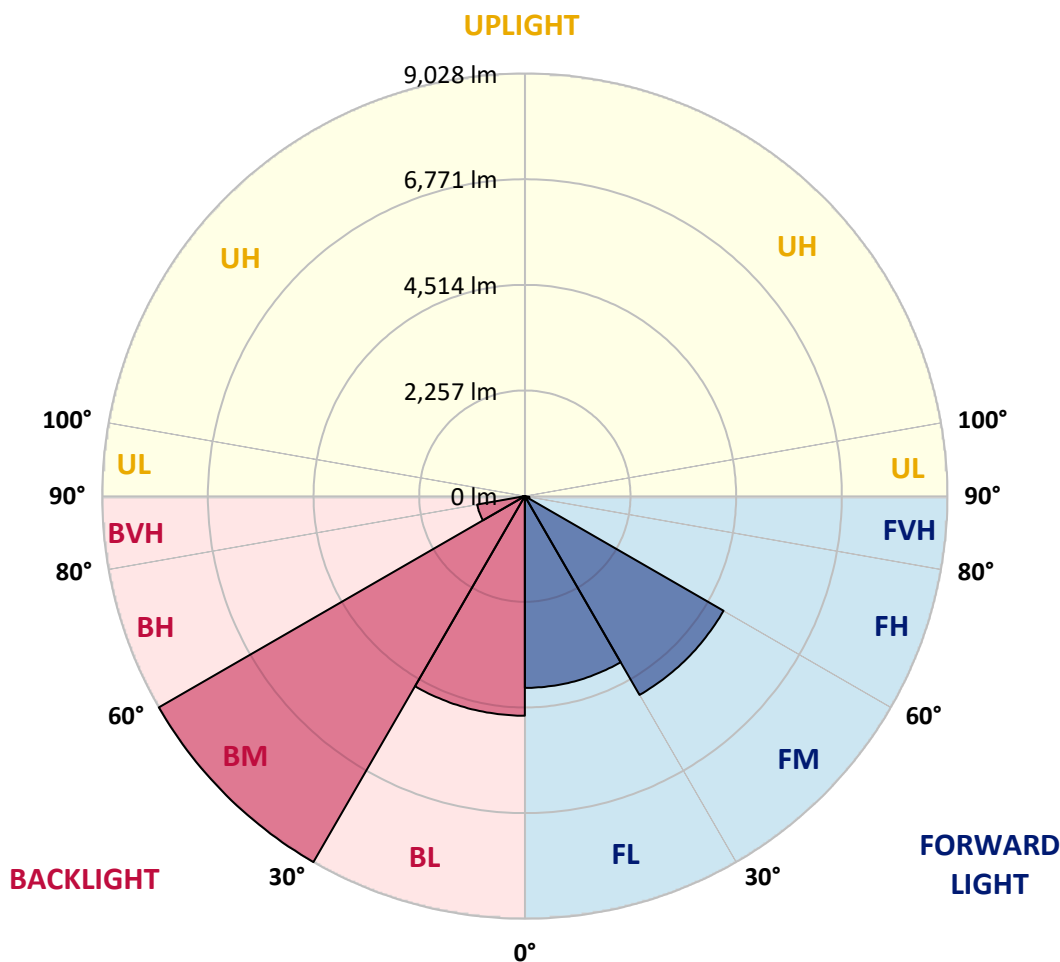
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4095.9	17.1			
FM (30°-60°)	4902.6	20.5			
FH (60°-80°)	98.3	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	4690.6	19.6	B4/5000		
BM (30°-60°)	9028.2	37.8	B5		
BH (60°-80°)	1032.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8
2.5°	10358.5	10291.7	10228.5	10207.4	10295.2	10390.1	10330.4	10333.9	10312.8	10351.4
5°	10435.7	10344.4	10302.3	10270.7	10284.7	10383.1	10298.8	10330.4	10295.2	10340.9
7.5°	10407.6	10344.4	10302.3	10242.6	10288.2	10404.1	10323.3	10326.9	10309.3	10351.4
10°	10390.1	10344.4	10291.7	10298.8	10351.4	10449.8	10386.6	10421.7	10397.1	10421.7
12.5°	10432.2	10383.1	10355.0	10355.0	10400.6	10513.0	10481.4	10513.0	10502.5	10523.6
15°	10035.3	10081.0	10347.9	10467.4	10558.7	10671.1	10657.0	10688.6	10695.7	10727.3
17.5°	8465.2	8419.6	8398.5	9013.2	10646.5	10994.2	10983.7	10980.2	10945.1	10920.5
20°	8672.5	8654.9	8630.3	8676.0	8858.6	11162.8	11233.1	10801.1	10674.6	10664.1
22.5°	9002.6	8974.5	8883.2	8886.7	8942.9	9705.1	10885.4	10491.9	10449.8	10425.2
25°	9164.2	9108.0	9034.2	9013.2	9030.7	8890.2	9722.7	10189.9	9982.6	9887.8
27.5°	8879.7	8883.2	8823.5	8879.7	8813.0	8180.7	7825.9	9599.8	9592.7	9550.6
30°	8665.4	8654.9	8584.6	8654.9	8194.7	7488.7	7337.7	8953.5	8879.7	8823.5
32.5°	8008.6	8015.6	8219.3	8493.3	7738.1	7179.6	6723.0	7998.0	8697.0	8665.4
35°	5728.9	5743.0	6466.6	7818.9	7046.1	6564.9	6529.8	6912.7	8409.0	8423.1
37.5°	5514.7	5514.7	5497.1	5718.4	6501.7	6315.5	6385.8	6347.2	7703.0	7738.1
40°	5360.1	5328.5	5303.9	4956.2	4520.6	6139.9	6189.1	6013.5	7281.5	7288.5
42.5°	5174.0	5138.8	5145.9	4503.1	4046.4	5704.4	5567.4	5332.0	6579.0	6586.0
45°	4833.3	4893.0	4935.1	3941.1	3905.9	4074.5	5135.3	4987.8	6104.8	6234.8
47.5°	2458.8	2511.5	3853.3	3624.9	3705.7	3621.4	4338.0	4341.5	5079.1	5511.2
50°	2230.5	2216.4	2219.9	2114.5	3421.2	2929.5	3136.7	3979.7	4067.5	4685.7
52.5°	2079.4	2075.9	1861.6	1654.4	2149.7	2578.2	2276.1	2880.3	3024.3	3969.2
55°	1538.5	1650.9	1468.2	1556.1	1345.3	2065.4	2054.8	2599.3	2648.5	3182.4
57.5°	14.1	17.6	42.2	1183.7	930.8	1032.7	1419.1	1773.8	1861.6	2479.9
60°	3.5	7.0	17.6	35.1	604.2	635.8	948.4	1025.7	1155.6	1478.8
62.5°	0.0	0.0	7.0	17.6	31.6	259.9	302.1	330.2	509.3	755.2
65°	0.0	0.0	3.5	10.5	17.6	42.2	73.8	154.6	221.3	274.0
67.5°	0.0	0.0	3.5	7.0	14.1	21.1	42.2	59.7	94.8	161.6
70°	0.0	0.0	3.5	7.0	10.5	17.6	28.1	42.2	56.2	80.8
72.5°	0.0	0.0	3.5	7.0	7.0	21.1	21.1	31.6	42.2	52.7
75°	0.0	0.0	3.5	3.5	7.0	14.1	21.1	24.6	28.1	42.2
77.5°	0.0	0.0	3.5	7.0	10.5	14.1	17.6	28.1	24.6	24.6
80°	0.0	0.0	3.5	10.5	10.5	17.6	21.1	28.1	17.6	17.6
82.5°	0.0	0.0	3.5	14.1	10.5	35.1	35.1	38.6	14.1	14.1
85°	0.0	0.0	10.5	7.0	21.1	35.1	31.6	21.1	17.6	10.5
87.5°	0.0	0.0	3.5	3.5	7.0	10.5	24.6	21.1	7.0	7.0
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°
10312.8	0°	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8	10312.8
10249.6	2.5°	10390.1	10344.4	10439.3	10428.7	10383.1	10362.0	10337.4	10316.3	10161.8
10256.6	5°	10393.6	10323.3	10439.3	10418.2	10411.2	10376.0	10355.0	10386.6	10246.1
10284.7	7.5°	10393.6	10323.3	10449.8	10456.8	10446.3	10418.2	10414.7	10435.7	10319.8
10333.9	10°	10463.8	10435.7	10541.1	10551.7	10537.6	10530.6	10513.0	10499.0	10376.0
10502.5	12.5°	10611.4	10555.2	10674.6	10706.2	10695.7	10713.2	10671.1	10692.2	10565.7
10674.6	15°	10790.5	10794.0	10885.4	10955.6	10948.6	11004.8	10941.6	10997.8	10906.4
10871.3	17.5°	11064.5	11103.1	11233.1	11338.5	11377.1	11419.3	11377.1	11394.7	11264.7
10653.5	20°	10776.5	10920.5	11545.7	11738.9	11819.7	11858.3	11788.1	11809.1	11679.2
10386.6	22.5°	10516.5	10702.7	11257.7	11861.8	12111.2	12188.5	12163.9	12160.4	12111.2
9859.7	25°	10133.7	10509.5	10758.9	11398.2	12181.5	12322.0	12336.0	12332.5	12258.8
9536.5	27.5°	9663.0	9747.3	10393.6	10783.5	11689.7	12223.6	12202.6	12100.7	12002.3
8865.6	30°	9062.3	9445.2	9736.8	10358.5	11054.0	11921.5	11921.5	11844.3	11742.4
8626.8	32.5°	8756.8	9252.0	9522.5	9747.3	10340.9	11584.3	11724.8	11644.1	11563.3
8440.6	35°	8595.2	8668.9	9301.2	9504.9	10007.2	10934.5	11503.6	11422.8	11363.1
7945.4	37.5°	8240.4	8412.5	8707.6	9252.0	9406.6	10404.1	11208.5	11166.4	11096.1
7302.6	40°	7450.1	7910.2	8363.3	8879.7	9041.3	9722.7	10850.2	10867.8	10772.9
6617.6	42.5°	6982.9	7295.5	8005.1	8352.8	8788.4	9283.6	10502.5	10530.6	10463.8
6269.9	45°	6435.0	6782.7	7281.5	7913.7	8507.4	8679.5	9887.8	10182.8	10126.6
5577.9	47.5°	5932.7	6213.7	6824.9	7464.1	8121.0	8096.4	9181.8	9736.8	9659.5
5047.5	50°	5219.6	5711.4	5999.4	6586.0	7566.0	7632.7	8430.1	9213.4	9150.2
4288.8	52.5°	4401.2	5019.4	5570.9	6108.3	7004.0	7162.1	7731.1	8679.5	8637.3
3277.2	55°	3846.2	4295.8	4917.6	5349.6	6322.6	6744.1	7207.7	8170.2	8149.1
2694.1	57.5°	2736.3	3603.9	4116.7	4720.8	5233.7	5995.9	6340.1	7134.0	6937.3
1492.8	60°	1854.6	2262.1	2887.3	3537.1	3881.4	4643.6	4963.2	5599.0	5546.3
892.2	62.5°	980.0	1355.8	1801.9	2128.6	2378.0	3119.1	3252.6	3937.6	3920.0
358.3	65°	432.0	572.5	976.5	1145.1	1401.5	1745.7	1861.6	2107.5	2047.8
175.6	67.5°	224.8	340.7	551.5	677.9	853.5	983.5	1078.3	1155.6	1204.8
115.9	70°	137.0	249.4	340.7	470.7	586.6	692.0	765.7	871.1	934.3
59.7	72.5°	101.9	158.1	235.3	361.8	425.0	548.0	621.7	699.0	755.2
49.2	75°	56.2	105.4	189.7	284.5	340.7	446.1	512.8	565.5	583.1
28.1	77.5°	35.1	80.8	158.1	221.3	267.0	361.8	344.2	393.4	435.6
21.1	80°	24.6	59.7	122.9	182.7	186.2	231.8	274.0	316.1	344.2
14.1	82.5°	17.6	49.2	91.3	140.5	122.9	179.1	214.3	245.9	179.1
10.5	85°	14.1	35.1	45.7	84.3	70.3	126.5	108.9	105.4	70.3
7.0	87.5°	10.5	17.6	31.6	38.6	28.1	28.1	35.1	42.2	35.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10312.8
10056.4
10126.6
10186.4
10274.2
10453.3
10755.4
11152.3
11587.9
11953.2
12146.4
11925.1
11703.8
11496.5
11278.8
11025.9
10751.9
10456.8
10133.7
9715.7
9160.7
8665.4
8173.7
6916.2
5549.8
3923.5
2023.2
1204.8
937.8
765.7
572.5
442.6
347.7
130.0
70.3
35.1
0.0

(END OF REPORT)