

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: P638431

Luminaire Tested: **IFLD-S-SA6C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30625.2 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

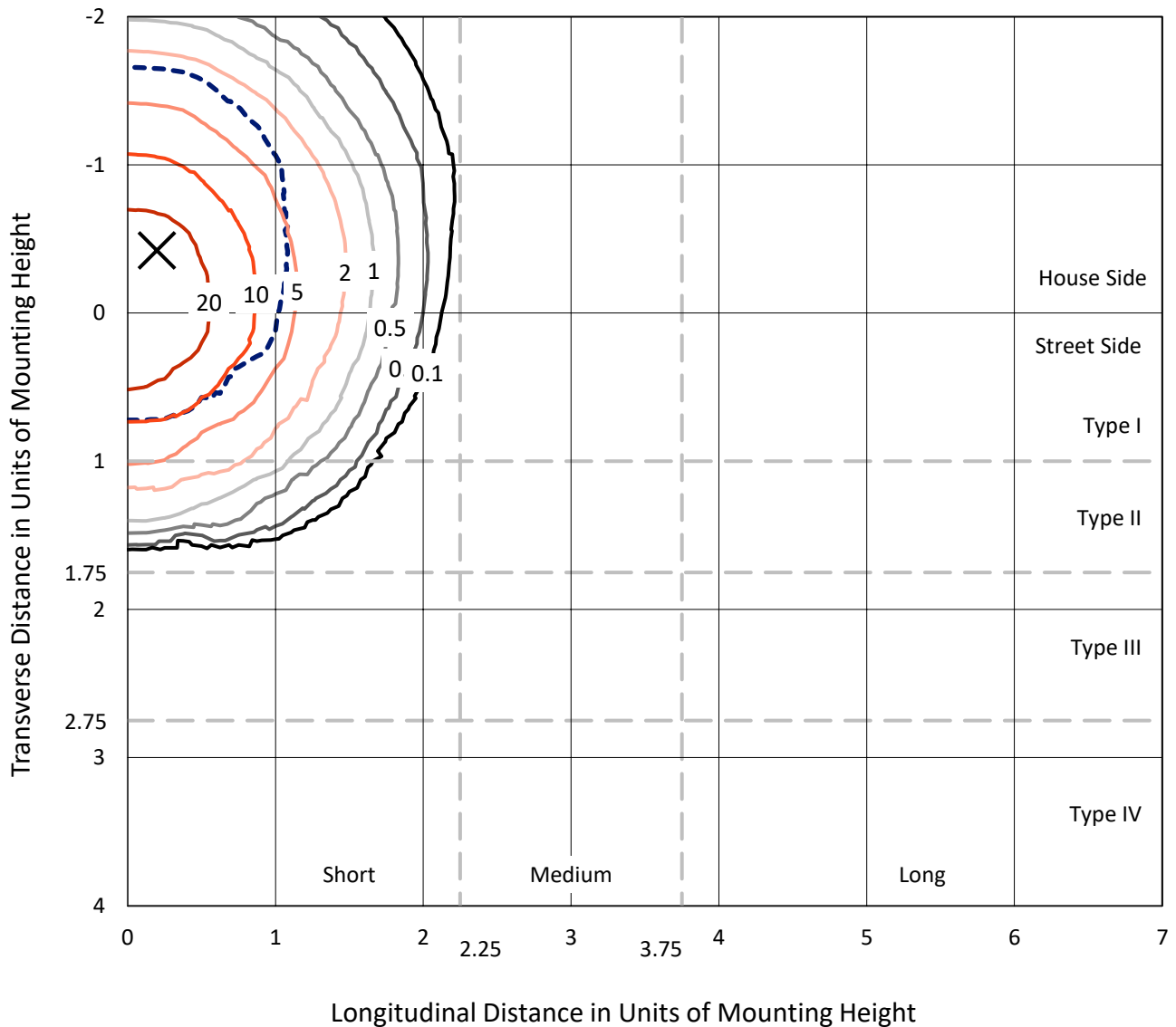
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638431
 CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

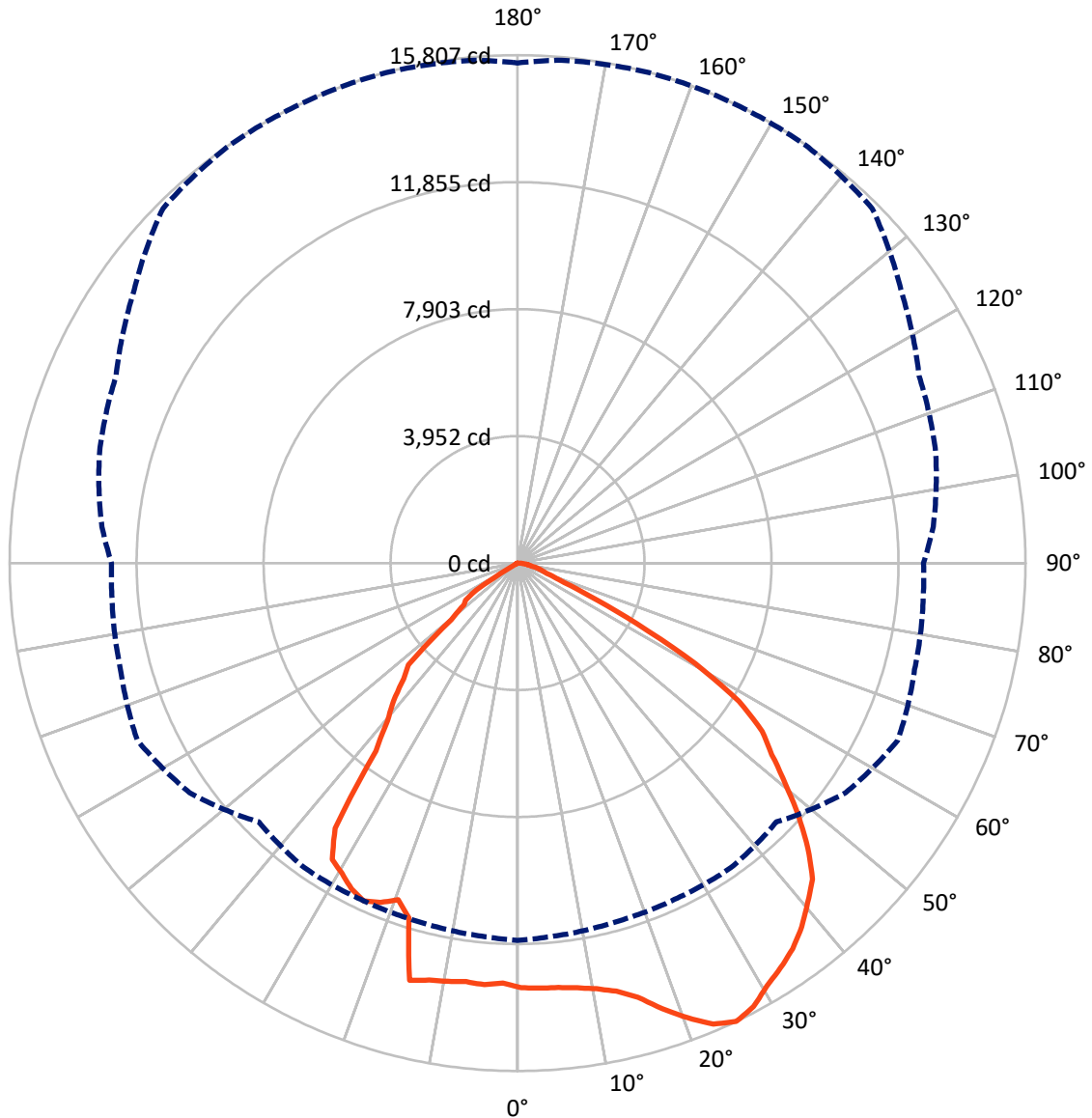
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33 fc
 Type I - Short - N/A

REPORT NUMBER: P638431
CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638431
 CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18960.1	0.0	18960.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11665.1	0.0	11665.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	30625.2	0.0	30625.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1267.7	4.1
10°-20°	3871.0	12.6
20°-30°	6119.8	20.0
30°-40°	6912.8	22.6
40°-50°	6474.0	21.1
50°-60°	4463.3	14.6
60°-70°	1199.2	3.9
70°-80°	249.9	0.8
80°-90°	67.6	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°	30625.2	100.0
0°-180°	30625.2	100.0



REPORT NUMBER: P638431

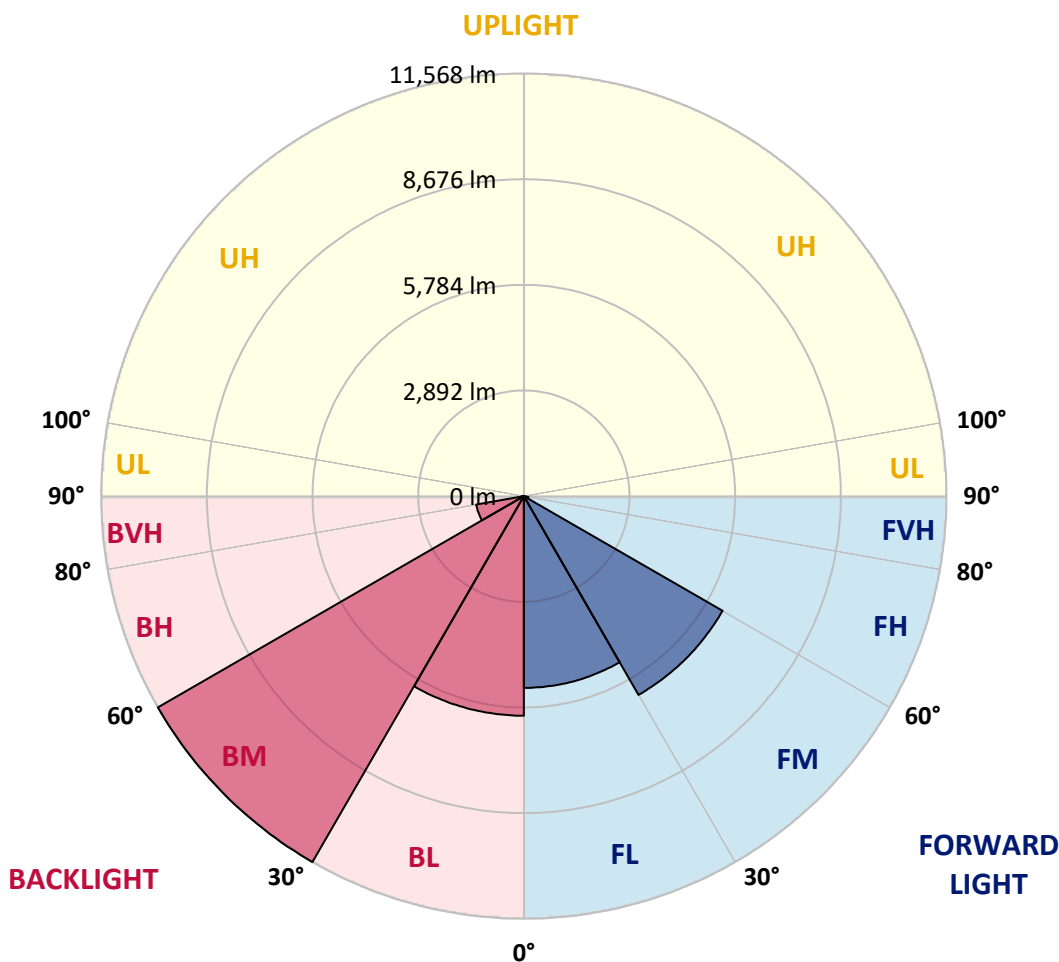
CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5248.2	17.1			
FM (30°-60°)	6281.9	20.5			
FH (60°-80°)	125.9	0.4			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	6010.3	19.6	B5		
BM (30°-60°)	11568.2	37.8	B5		
BH (60°-80°)	1323.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.5	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





REPORT NUMBER: P638431
 CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2
2.5°	13272.7	13187.2	13106.2	13079.2	13191.7	13313.2	13236.7	13241.2	13214.2	13263.7
5°	13371.8	13254.7	13200.7	13160.2	13178.2	13304.2	13196.2	13236.7	13191.7	13250.2
7.5°	13335.8	13254.7	13200.7	13124.2	13182.7	13331.3	13227.7	13232.2	13209.7	13263.7
10°	13313.2	13254.7	13187.2	13196.2	13263.7	13389.8	13308.7	13353.8	13322.3	13353.8
12.5°	13367.3	13304.2	13268.2	13268.2	13326.8	13470.8	13430.3	13470.8	13457.3	13484.3
15°	12858.7	12917.2	13259.2	13412.3	13529.3	13673.3	13655.3	13695.8	13704.8	13745.3
17.5°	10846.8	10788.3	10761.3	11549.0	13641.8	14087.4	14073.9	14069.4	14024.4	13992.9
20°	11112.4	11089.9	11058.4	11116.9	11350.9	14303.4	14393.4	13839.8	13677.8	13664.3
22.5°	11535.4	11499.4	11382.4	11386.9	11458.9	12435.6	13947.9	13443.8	13389.8	13358.3
25°	11742.5	11670.5	11576.0	11549.0	11571.5	11391.4	12458.1	13056.7	12791.2	12669.6
27.5°	11377.9	11382.4	11305.9	11377.9	11292.4	10482.3	10027.7	12300.6	12291.6	12237.6
30°	11103.4	11089.9	10999.9	11089.9	10500.3	9595.6	9402.1	11472.4	11377.9	11305.9
32.5°	10261.7	10270.7	10531.8	10882.8	9915.2	9199.6	8614.5	10248.2	11143.9	11103.4
35°	7340.7	7358.7	8285.9	10018.7	9028.5	8411.9	8366.9	8857.5	10774.8	10792.8
37.5°	7066.2	7066.2	7043.7	7327.2	8330.9	8092.4	8182.4	8132.9	9870.2	9915.2
40°	6868.2	6827.7	6796.1	6350.6	5792.5	7867.3	7930.3	7705.3	9330.1	9339.1
42.5°	6629.6	6584.6	6593.6	5770.0	5184.9	7309.2	7133.7	6832.2	8429.9	8438.9
45°	6193.0	6269.6	6323.6	5049.9	5004.8	5220.9	6580.1	6391.1	7822.3	7988.9
47.5°	3150.5	3218.0	4937.3	4644.8	4748.3	4640.3	5558.4	5562.9	6508.1	7061.7
50°	2858.0	2840.0	2844.5	2709.5	4383.7	3753.6	4019.2	5099.4	5211.9	6004.0
52.5°	2664.5	2659.9	2385.4	2119.9	2754.5	3303.6	2916.5	3690.6	3875.2	5085.9
55°	1971.3	2115.4	1881.3	1993.8	1723.8	2646.4	2632.9	3330.6	3393.6	4077.7
57.5°	18.0	22.5	54.0	1516.8	1192.7	1323.2	1818.3	2272.9	2385.4	3177.5
60°	4.5	9.0	22.5	45.0	774.1	814.6	1215.2	1314.2	1480.8	1894.8
62.5°	0.0	0.0	9.0	22.5	40.5	333.1	387.1	423.1	652.6	967.7
65°	0.0	0.0	4.5	13.5	22.5	54.0	94.5	198.0	283.5	351.1
67.5°	0.0	0.0	4.5	9.0	18.0	27.0	54.0	76.5	121.5	207.0
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	54.0	72.0	103.5
72.5°	0.0	0.0	4.5	9.0	9.0	27.0	27.0	40.5	54.0	67.5
75°	0.0	0.0	4.5	4.5	9.0	18.0	27.0	31.5	36.0	54.0
77.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	36.0	31.5	31.5
80°	0.0	0.0	4.5	13.5	13.5	22.5	27.0	36.0	22.5	22.5
82.5°	0.0	0.0	4.5	18.0	13.5	45.0	45.0	49.5	18.0	18.0
85°	0.0	0.0	13.5	9.0	27.0	45.0	40.5	27.0	22.5	13.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	31.5	27.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638431

CATALOG NUMBER: IFLD-S-SA6C-740-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13214.2	0°	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2	13214.2
13133.2	2.5°	13313.2	13254.7	13376.3	13362.8	13304.2	13277.2	13245.7	13218.7	13020.7
13142.2	5°	13317.8	13227.7	13376.3	13349.3	13340.3	13295.2	13268.2	13308.7	13128.7
13178.2	7.5°	13317.8	13227.7	13389.8	13398.8	13385.3	13349.3	13344.8	13371.8	13223.2
13241.2	10°	13407.8	13371.8	13506.8	13520.3	13502.3	13493.3	13470.8	13452.8	13295.2
13457.3	12.5°	13596.8	13524.8	13677.8	13718.3	13704.8	13727.3	13673.3	13700.3	13538.3
13677.8	15°	13826.3	13830.8	13947.9	14037.9	14028.9	14100.9	14019.9	14091.9	13974.9
13929.9	17.5°	14177.4	14226.9	14393.4	14528.5	14578.0	14632.0	14578.0	14600.5	14433.9
13650.8	20°	13808.3	13992.9	14794.0	15041.5	15145.1	15194.6	15104.6	15131.6	14965.0
13308.7	22.5°	13475.3	13713.8	14424.9	15199.1	15518.6	15617.6	15586.1	15581.6	15518.6
12633.6	25°	12984.7	13466.3	13785.8	14605.0	15608.6	15788.7	15806.7	15802.2	15707.7
12219.6	27.5°	12381.6	12489.6	13317.8	13817.3	14978.5	15662.6	15635.6	15505.1	15379.1
11359.9	30°	11612.0	12102.5	12476.1	13272.7	14163.9	15275.6	15275.6	15176.6	15046.0
11053.9	32.5°	11220.4	11855.0	12201.6	12489.6	13250.2	14843.5	15023.5	14920.0	14816.5
10815.3	35°	11013.4	11107.9	11918.0	12179.1	12822.7	14010.9	14740.0	14636.5	14560.0
10180.7	37.5°	10558.8	10779.3	11157.4	11855.0	12053.0	13331.3	14361.9	14307.9	14217.9
9357.1	40°	9546.1	10135.7	10716.3	11377.9	11585.0	12458.1	13902.8	13925.4	13803.8
8479.4	42.5°	8947.5	9348.1	10257.2	10702.8	11260.9	11895.5	13457.3	13493.3	13407.8
8033.9	45°	8245.4	8691.0	9330.1	10140.2	10900.8	11121.4	12669.6	13047.7	12975.7
7147.2	47.5°	7601.8	7961.8	8745.0	9564.1	10405.8	10374.3	11765.0	12476.1	12377.1
6467.6	50°	6688.1	7318.2	7687.3	8438.9	9694.6	9780.2	10801.8	11805.5	11724.5
5495.4	52.5°	5639.5	6431.6	7138.2	7826.8	8974.5	9177.1	9906.2	11121.4	11067.4
4199.2	55°	4928.3	5504.4	6301.1	6854.7	8101.4	8641.5	9235.6	10468.8	10441.8
3452.1	57.5°	3506.1	4617.8	5274.9	6049.0	6706.1	7682.8	8123.9	9141.0	8889.0
1912.8	60°	2376.4	2898.5	3699.6	4532.3	4973.3	5950.0	6359.6	7174.2	7106.7
1143.2	62.5°	1255.7	1737.3	2308.9	2727.5	3047.0	3996.7	4167.7	5045.4	5022.8
459.1	65°	553.6	733.6	1251.2	1467.2	1795.8	2236.9	2385.4	2700.5	2623.9
225.0	67.5°	288.0	436.6	706.6	868.6	1093.7	1260.2	1381.7	1480.8	1543.8
148.5	70°	175.5	319.6	436.6	603.1	751.6	886.6	981.2	1116.2	1197.2
76.5	72.5°	130.5	202.5	301.6	463.6	544.6	702.1	796.6	895.7	967.7
63.0	75°	72.0	135.0	243.0	364.6	436.6	571.6	657.1	724.6	747.1
36.0	77.5°	45.0	103.5	202.5	283.5	342.1	463.6	441.1	504.1	558.1
27.0	80°	31.5	76.5	157.5	234.0	238.5	297.1	351.1	405.1	441.1
18.0	82.5°	22.5	63.0	117.0	180.0	157.5	229.5	274.5	315.1	229.5
13.5	85°	18.0	45.0	58.5	108.0	90.0	162.0	139.5	135.0	90.0
9.0	87.5°	13.5	22.5	40.5	49.5	36.0	36.0	45.0	54.0	45.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13214.2
12885.7
12975.7
13052.2
13164.7
13394.3
13781.3
14289.9
14848.0
15316.1
15563.6
15280.1
14996.5
14731.0
14451.9
14127.9
13776.8
13398.8
12984.7
12449.1
11738.0
11103.4
10473.3
8862.0
7111.2
5027.3
2592.4
1543.8
1201.7
981.2
733.6
567.1
445.6
166.5
90.0
45.0
0.0

(END OF REPORT)