

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: P636659

Luminaire Tested: **IFLD-S-SA3E-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636659
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15518.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

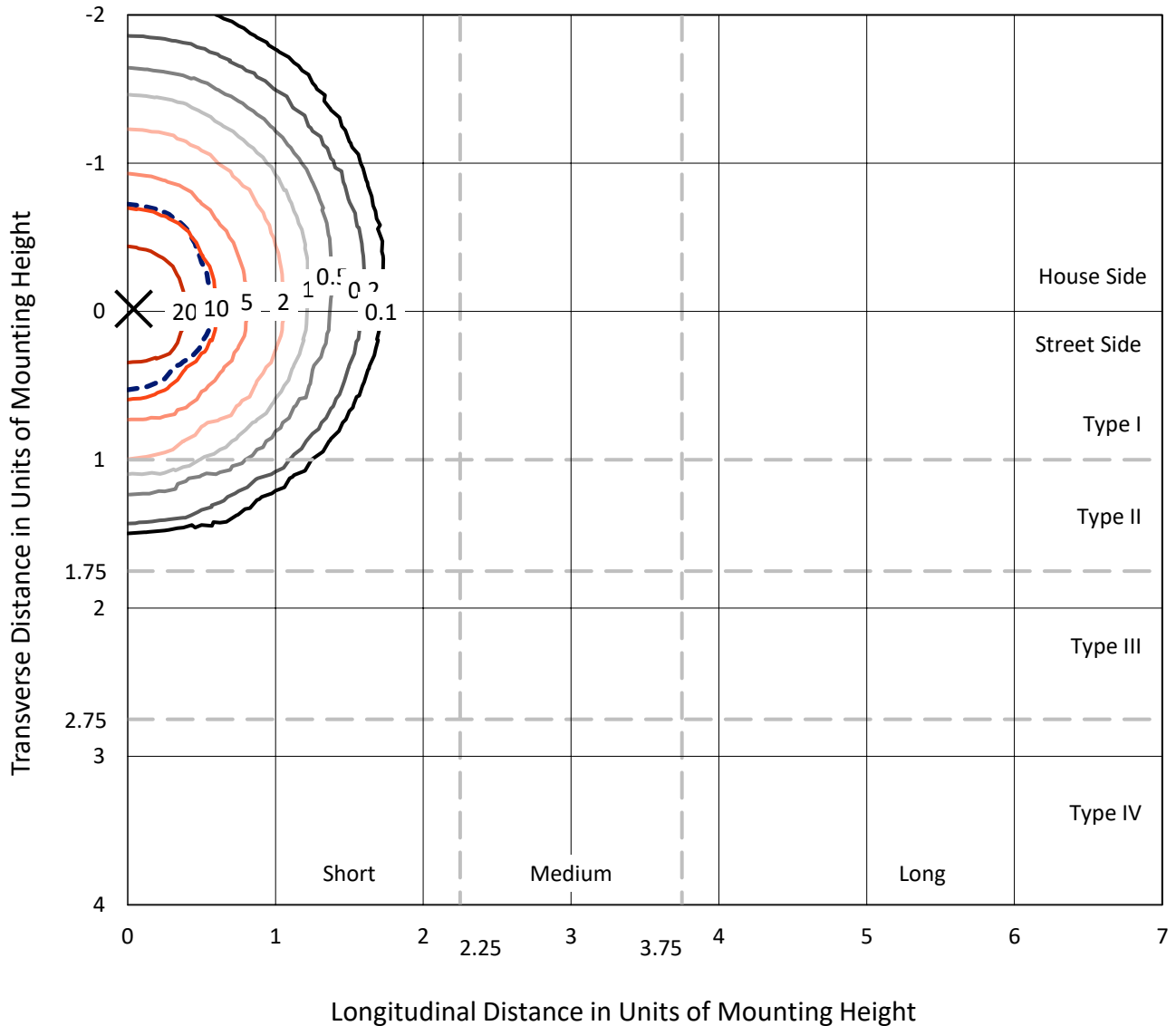
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636659
 CATALOG NUMBER: IFLD-S-SA3E-940-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

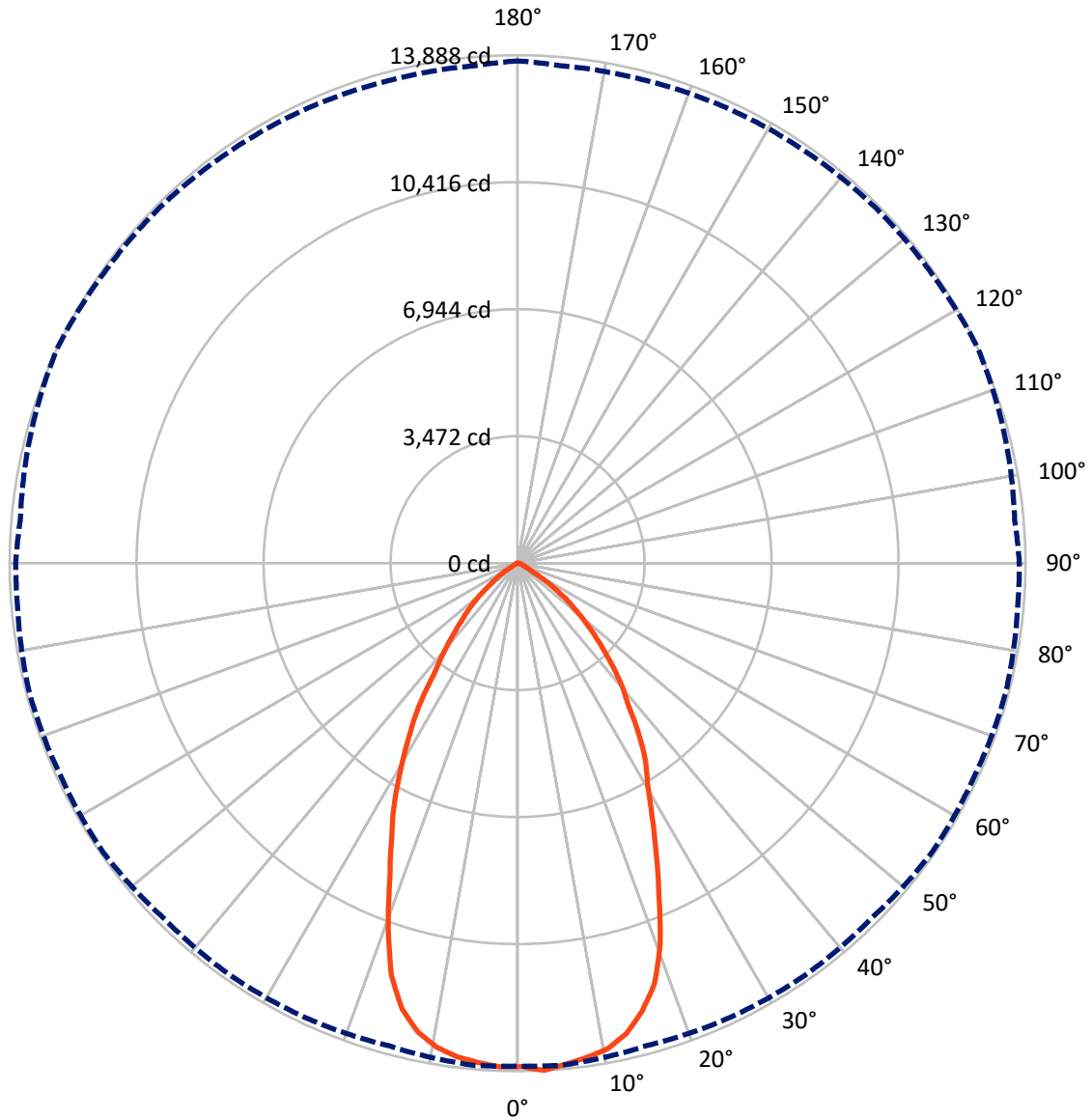
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.4 fc
 Type I - Short - N/A

REPORT NUMBER: P636659
CATALOG NUMBER: IFLD-S-SA3E-940-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636659

CATALOG NUMBER: IFLD-S-SA3E-940-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8881.3	0.0	8881.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6637.6	0.0	6637.6
	% Fixture	42.8	0.0	42.8
Total	Lumens	15518.9	0.0	15518.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.9	8.4
10°-20°	3438.7	22.2
20°-30°	3933.1	25.3
30°-40°	3370.6	21.7
40°-50°	2228.8	14.4
50°-60°	972.5	6.3
60°-70°	191.1	1.2
70°-80°	68.9	0.4
80°-90°	18.3	0.1
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°	15518.9	100.0
0°-180°	15518.9	100.0



REPORT NUMBER: P636659

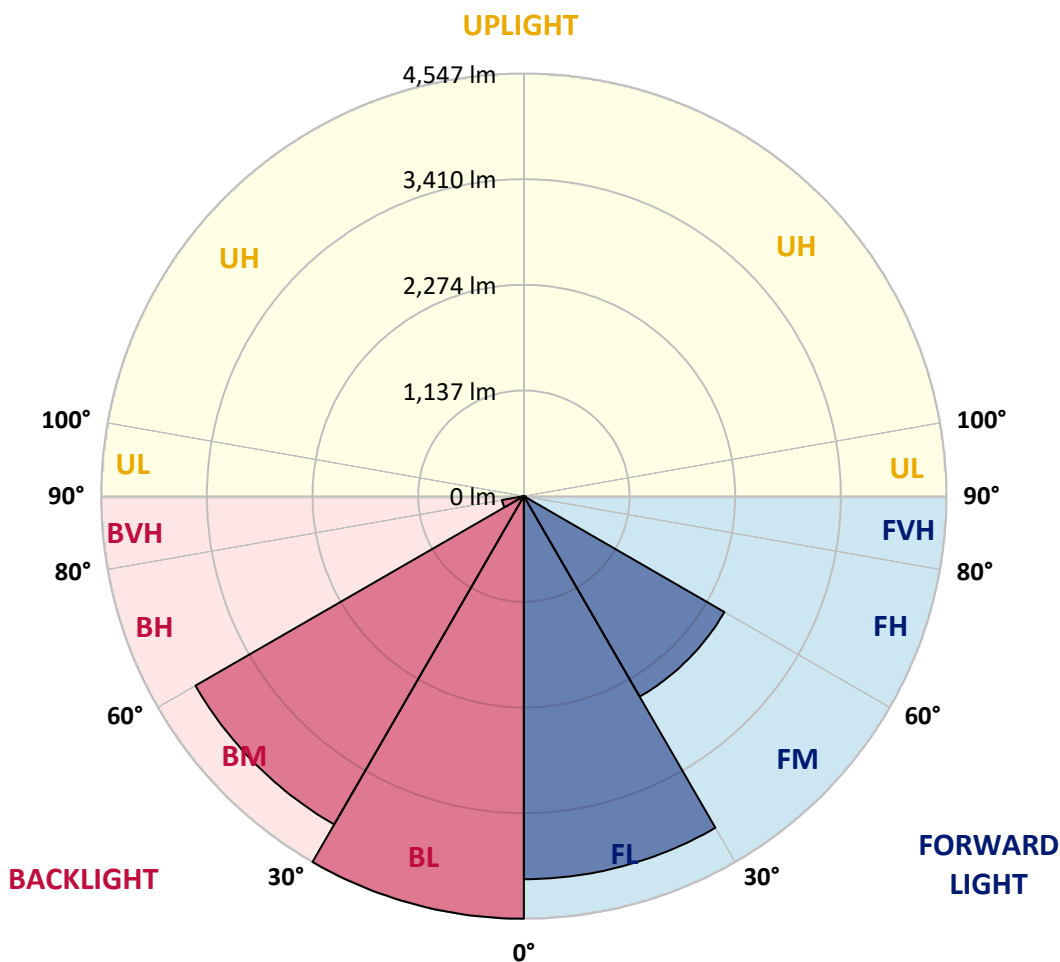
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4121.5	26.6			
FM (30°-60°)	2492.0	16.1			
FH (60°-80°)	21.1	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4547.2	29.3	B4/5000		
BM (30°-60°)	4079.9	26.3	B3/5000		
BH (60°-80°)	238.9	1.5	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





REPORT NUMBER: P636659
 CATALOG NUMBER: IFLD-S-SA3E-940-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2
2.5°	13749.4	13782.4	13657.0	13713.1	13736.2	13706.5	13815.3	13782.4	13808.7	13726.3
5°	13749.4	13782.4	13637.2	13663.6	13670.2	13614.1	13732.9	13693.3	13696.6	13610.8
7.5°	13663.6	13703.2	13571.2	13591.0	13594.3	13548.1	13650.4	13594.3	13574.5	13485.5
10°	13432.7	13455.8	13337.0	13386.5	13432.7	13389.8	13478.9	13416.2	13416.2	13337.0
12.5°	13066.5	13109.4	12977.5	13036.8	13076.4	13026.9	13129.2	13106.1	13109.4	13030.2
15°	12400.2	12251.7	12410.1	12528.8	12532.1	12522.2	12617.9	12594.8	12611.3	12492.5
17.5°	9160.7	9124.5	9309.2	10711.2	11753.6	11895.4	11911.9	11786.6	11730.5	11615.0
20°	8487.8	8514.2	8474.6	8481.2	9302.6	11008.1	10905.8	10595.7	10453.9	10338.4
22.5°	7996.3	7953.4	7927.0	7910.5	7933.6	9045.3	9780.9	9312.5	9236.6	9180.5
25°	7461.9	7442.1	7409.1	7402.5	7389.3	7201.3	8260.2	8303.1	8181.0	8111.7
27.5°	6963.8	6950.6	6914.3	6911.0	6759.2	6304.0	6419.5	7438.8	7405.8	7379.4
30°	6432.6	6406.3	6386.5	6386.5	5927.9	5459.5	5271.5	6485.4	6485.4	6462.3
32.5°	5855.4	5832.3	5838.9	5759.7	5212.1	4783.2	4486.4	5598.1	5944.4	5924.6
35°	3579.2	3572.6	4242.2	5123.0	4479.8	4090.5	4070.7	4789.8	5294.6	5347.3
37.5°	3186.6	3166.8	3176.7	3232.8	3836.5	3681.5	3674.9	3796.9	4506.2	4532.5
40°	2860.1	2846.9	2837.0	2635.7	2444.4	3285.6	3262.5	3183.3	3849.7	3895.9
42.5°	2550.0	2536.8	2536.8	2253.1	1943.0	2701.7	2711.6	2619.2	3246.0	3262.5
45°	2230.0	2220.1	2164.0	1797.8	1708.8	1794.5	2246.5	2140.9	2576.4	2747.9
47.5°	1052.3	1045.7	1514.1	1494.4	1487.8	1435.0	1715.4	1774.8	2045.3	2216.8
50°	844.5	837.9	798.3	702.6	1223.9	1088.6	1237.0	1365.7	1451.5	1609.8
52.5°	699.3	692.7	610.3	541.0	679.6	795.0	738.9	913.8	910.5	1082.0
55°	458.5	425.5	468.4	442.0	356.3	577.3	564.1	692.7	676.3	824.7
57.5°	9.9	9.9	23.1	250.7	224.3	244.1	323.3	395.9	445.3	488.2
60°	3.3	3.3	6.6	13.2	92.4	102.3	125.4	145.1	204.5	254.0
62.5°	0.0	0.0	3.3	6.6	13.2	52.8	59.4	69.3	95.7	132.0
65°	0.0	0.0	0.0	3.3	6.6	13.2	19.8	42.9	59.4	75.9
67.5°	0.0	0.0	0.0	3.3	3.3	6.6	13.2	19.8	26.4	52.8
70°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	13.2	19.8	26.4
72.5°	0.0	0.0	0.0	3.3	3.3	9.9	6.6	9.9	13.2	16.5
75°	0.0	0.0	0.0	3.3	3.3	3.3	6.6	9.9	9.9	13.2
77.5°	0.0	0.0	0.0	3.3	6.6	6.6	6.6	6.6	6.6	9.9
80°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	13.2	6.6	6.6
82.5°	0.0	0.0	0.0	6.6	3.3	13.2	19.8	16.5	6.6	3.3
85°	0.0	0.0	0.0	3.3	13.2	16.5	16.5	9.9	3.3	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	9.9	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636659

CATALOG NUMBER: IFLD-S-SA3E-940-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13769.2	0°	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2	13769.2
13719.7	2.5°	13643.8	13772.5	13887.9	13815.3	13789.0	13736.2	13696.6	13653.7	13650.4
13600.9	5°	13525.1	13647.1	13759.3	13673.5	13680.1	13653.7	13627.3	13617.4	13624.0
13478.9	7.5°	13422.8	13525.1	13647.1	13574.5	13594.3	13577.8	13564.6	13544.8	13574.5
13320.5	10°	13267.7	13360.1	13502.0	13432.7	13422.8	13406.3	13393.1	13356.8	13373.3
13033.5	12.5°	12928.0	13043.4	13205.1	13125.9	13152.3	13106.1	13086.3	13063.2	13066.5
12535.4	15°	12466.1	12555.2	12720.1	12657.5	12677.3	12647.6	12647.6	12647.6	12670.7
11631.5	17.5°	11661.2	11842.7	12103.3	12024.1	12053.8	12060.4	12053.8	12076.9	12106.6
10345.0	20°	10351.6	10661.7	11136.7	11291.8	11354.4	11357.7	11311.6	11367.6	11427.0
9141.0	22.5°	9147.6	9474.1	9893.1	10318.6	10582.5	10569.3	10575.9	10612.2	10674.9
8068.8	25°	8105.1	8418.5	8797.9	9177.2	9754.5	9873.3	9876.6	9909.6	9959.1
7336.5	27.5°	7353.0	7475.1	7821.4	8204.1	8824.3	9203.6	9183.8	9213.5	9266.3
6419.5	30°	6445.8	6914.3	6993.4	7227.7	7762.1	8458.1	8461.4	8494.4	8547.2
5878.4	32.5°	5862.0	6172.0	6416.2	6422.7	6878.0	7593.8	7735.7	7768.7	7804.9
5317.7	35°	5314.4	5350.6	5680.5	5772.9	6036.8	6746.0	6996.7	7016.5	7075.9
4522.6	37.5°	4598.5	4812.9	4905.3	5235.2	5248.4	5822.4	6320.5	6300.7	6346.9
3892.6	40°	3942.1	4146.6	4380.8	4621.6	4654.6	5083.4	5634.3	5654.1	5673.9
3229.5	42.5°	3255.9	3516.5	3757.3	3919.0	4143.3	4390.7	4915.2	5007.6	5053.8
2767.7	45°	2817.2	2889.7	3176.7	3414.3	3641.9	3757.3	4248.8	4417.1	4446.8
2190.4	47.5°	2220.1	2464.2	2658.8	2860.1	3143.7	3246.0	3602.3	3836.5	3859.6
1626.3	50°	1715.4	1890.2	2157.4	2338.8	2668.7	2724.8	2968.9	3272.4	3302.1
1088.6	52.5°	1227.2	1464.7	1725.3	1900.1	2216.8	2289.4	2470.8	2761.1	2780.9
834.6	55°	880.8	1035.8	1250.2	1501.0	1731.9	1893.5	2018.9	2296.0	2322.4
547.6	57.5°	600.4	745.5	834.6	1085.3	1223.9	1398.7	1501.0	1712.1	1731.9
260.6	60°	287.0	356.3	425.5	550.9	640.0	788.4	854.4	940.2	963.2
158.3	62.5°	184.7	217.7	277.1	329.9	415.6	508.0	534.4	607.0	633.4
99.0	65°	122.1	155.0	217.7	230.9	316.7	389.3	422.2	475.0	504.7
59.4	67.5°	69.3	108.9	161.6	191.3	250.7	320.0	356.3	402.5	428.8
39.6	70°	46.2	89.1	128.7	158.3	197.9	257.3	303.5	343.1	359.6
19.8	72.5°	26.4	56.1	89.1	125.4	158.3	214.4	257.3	290.3	191.3
13.2	75°	16.5	42.9	75.9	105.6	132.0	171.5	207.8	204.5	85.8
9.9	77.5°	13.2	33.0	66.0	89.1	108.9	118.8	148.4	168.2	66.0
6.6	80°	9.9	26.4	59.4	75.9	42.9	85.8	115.5	125.4	46.2
6.6	82.5°	6.6	16.5	49.5	52.8	29.7	62.7	92.4	82.5	33.0
3.3	85°	3.3	9.9	16.5	29.7	26.4	29.7	23.1	33.0	23.1
3.3	87.5°	3.3	6.6	13.2	13.2	13.2	9.9	13.2	13.2	13.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13769.2
13729.6
13706.5
13657.0
13452.5
13162.2
12680.6
12205.5
11466.6
10684.8
10044.8
9315.8
8639.5
7887.4
7138.6
6403.0
5736.6
5119.7
4519.3
3915.7
3345.0
2817.2
2345.4
1771.5
989.6
640.0
504.7
425.5
356.3
155.0
85.8
66.0
49.5
33.0
23.1
13.2
0.0

(END OF REPORT)