

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: P638441

Luminaire Tested: **IFLD-L-SA7C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32673.4 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

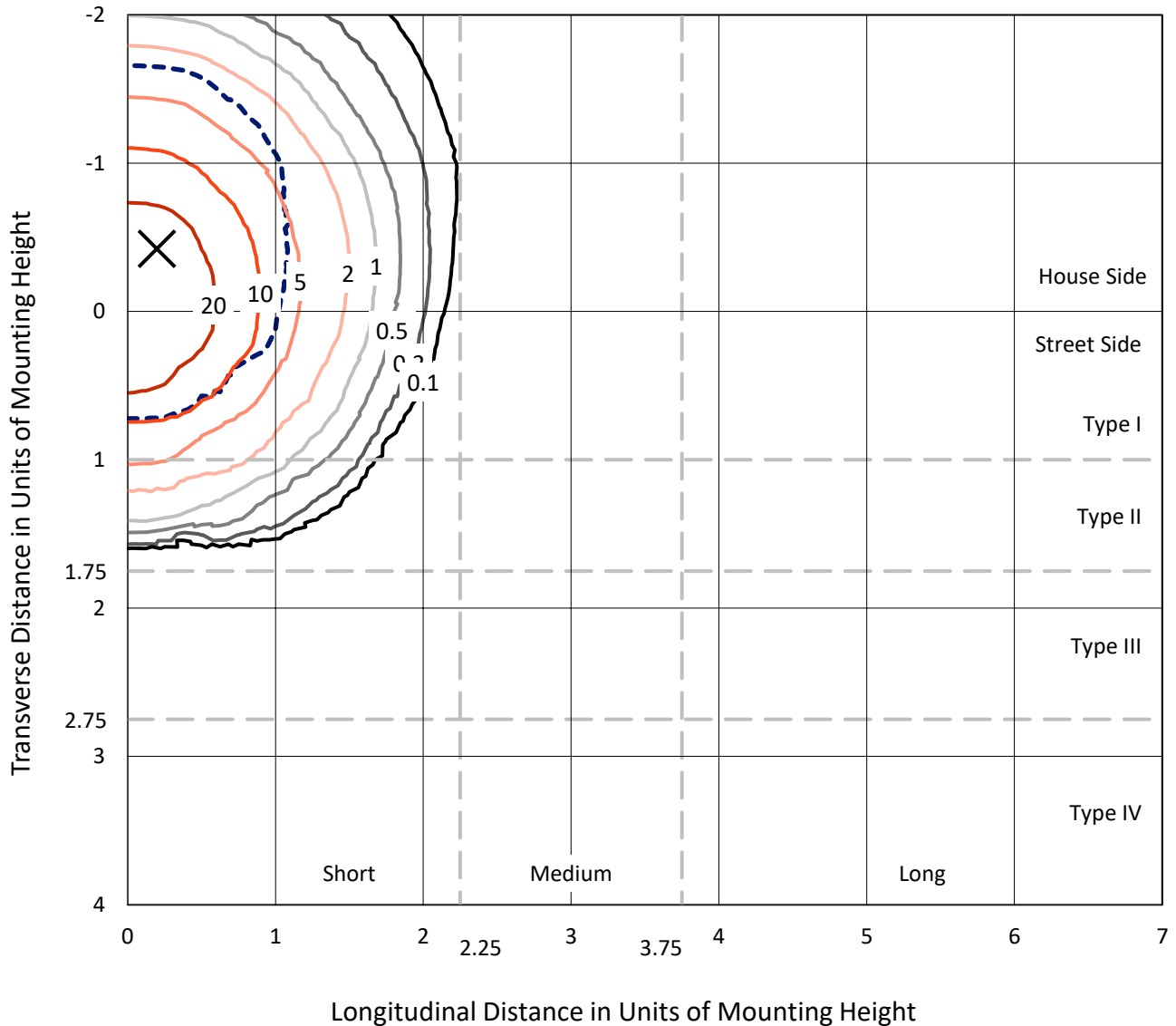
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

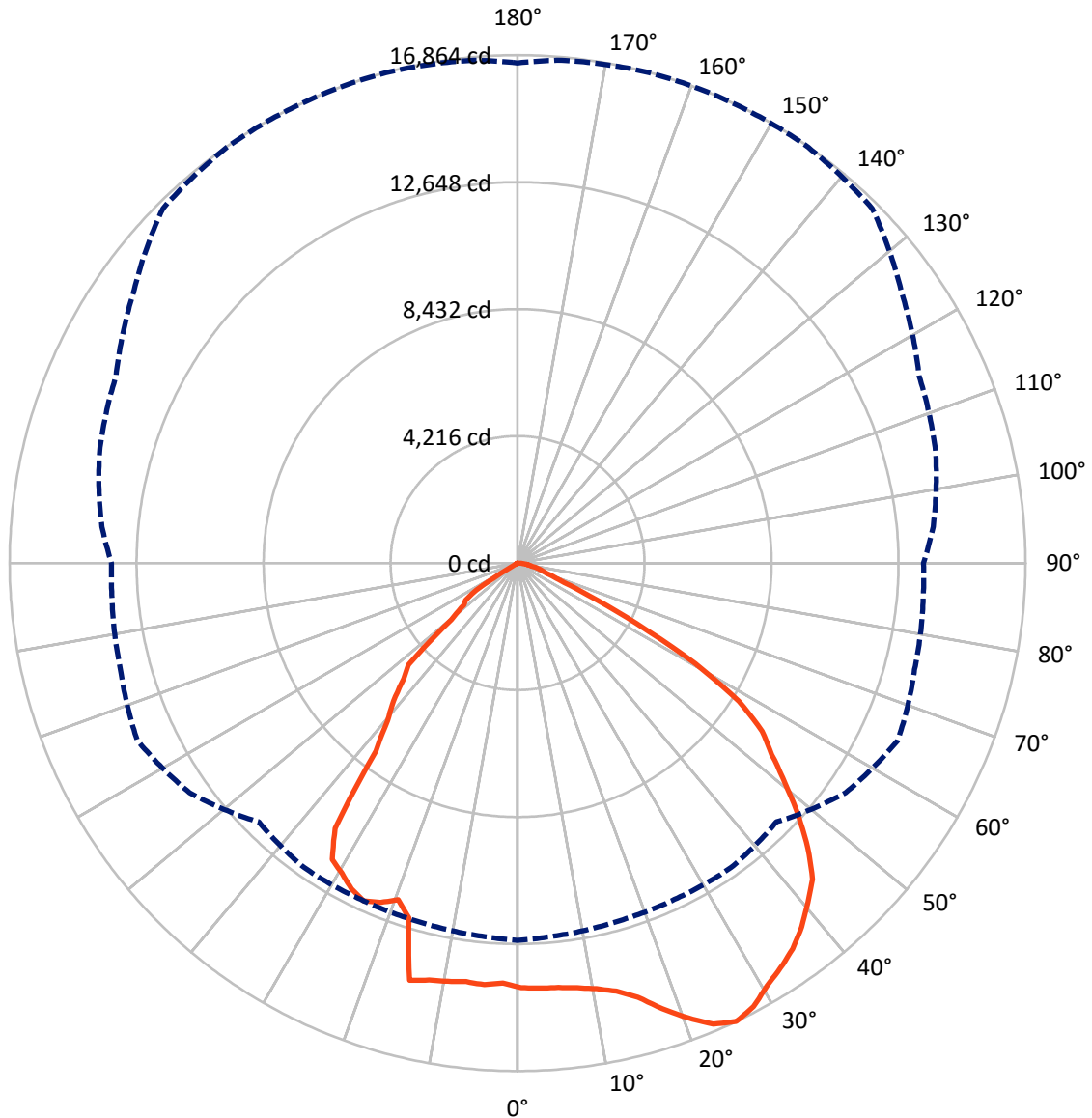
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.2 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	20228.2	0.0	20228.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12445.2	0.0	12445.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	32673.4	0.0	32673.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1352.5	4.1
10°-20°	4129.8	12.6
20°-30°	6529.1	20.0
30°-40°	7375.1	22.6
40°-50°	6907.0	21.1
50°-60°	4761.9	14.6
60°-70°	1279.4	3.9
70°-80°	266.6	0.8
80°-90°	72.1	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°	32673.4	100.0
0°-180°	32673.4	100.0



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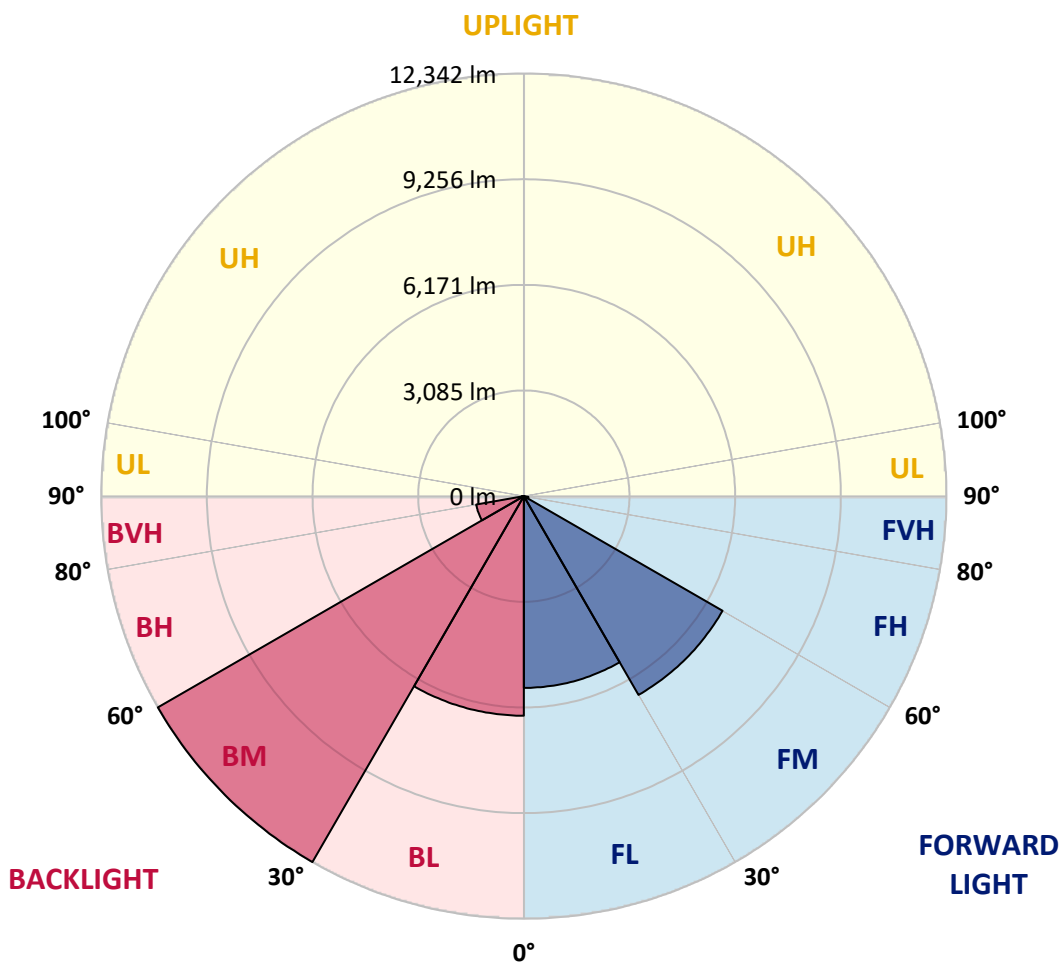
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5599.2	17.1			
FM (30°-60°)	6702.1	20.5			
FH (60°-80°)	134.3	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	6412.2	19.6	B5		
BM (30°-60°)	12341.9	37.8	B5		
BH (60°-80°)	1411.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	62.4	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°	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0
2.5°	14160.4	14069.2	13982.8	13954.0	14074.0	14203.7	14122.0	14126.8	14098.0	14150.8
5°	14266.1	14141.2	14083.6	14040.4	14059.6	14194.1	14078.8	14122.0	14074.0	14136.4
7.5°	14227.7	14141.2	14083.6	14002.0	14064.4	14222.9	14112.4	14117.2	14093.2	14150.8
10°	14203.7	14141.2	14069.2	14078.8	14150.8	14285.3	14198.9	14246.9	14213.3	14246.9
12.5°	14261.3	14194.1	14155.6	14155.6	14218.1	14371.7	14328.5	14371.7	14357.3	14386.1
15°	13718.7	13781.1	14146.0	14309.3	14434.1	14587.8	14568.6	14611.8	14621.4	14664.6
17.5°	11572.3	11509.9	11481.0	12321.4	14554.2	15029.6	15015.2	15010.4	14962.3	14928.7
20°	11855.6	11831.6	11798.0	11860.4	12110.1	15260.0	15356.1	14765.5	14592.6	14578.2
22.5°	12307.0	12268.5	12143.7	12148.5	12225.3	13267.3	14880.7	14342.9	14285.3	14251.7
25°	12527.8	12451.0	12350.2	12321.4	12345.4	12153.3	13291.3	13930.0	13646.7	13517.0
27.5°	12138.9	12143.7	12062.1	12138.9	12047.7	11183.3	10698.4	13123.3	13113.7	13056.0
30°	11846.0	11831.6	11735.5	11831.6	11202.5	10237.4	10030.9	12239.7	12138.9	12062.1
32.5°	10948.1	10957.7	11236.2	11610.7	10578.3	9814.8	9190.6	10933.6	11889.2	11846.0
35°	7831.7	7850.9	8840.1	10688.8	9632.4	8974.5	8926.5	9449.9	11495.5	11514.7
37.5°	7538.8	7538.8	7514.8	7817.3	8888.1	8633.6	8729.6	8676.8	10530.3	10578.3
40°	7327.5	7284.3	7250.7	6775.3	6179.9	8393.5	8460.7	8220.6	9954.1	9963.7
42.5°	7073.0	7025.0	7034.6	6155.9	5531.6	7798.1	7610.8	7289.1	8993.7	9003.3
45°	6607.2	6688.9	6746.5	5387.6	5339.6	5570.1	7020.2	6818.5	8345.5	8523.2
47.5°	3361.2	3433.3	5267.5	4955.4	5065.9	4950.6	5930.2	5935.0	6943.4	7534.0
50°	3049.1	3029.9	3034.7	2890.7	4676.9	4004.7	4288.0	5440.4	5560.5	6405.6
52.5°	2842.7	2837.9	2544.9	2261.6	2938.7	3524.5	3111.6	3937.5	4134.3	5426.0
55°	2103.2	2256.8	2007.1	2127.2	1839.1	2823.4	2809.0	3553.3	3620.5	4350.4
57.5°	19.2	24.0	57.6	1618.2	1272.5	1411.7	1939.9	2424.9	2544.9	3390.1
60°	4.8	9.6	24.0	48.0	825.9	869.1	1296.5	1402.1	1579.8	2021.5
62.5°	0.0	0.0	9.6	24.0	43.2	355.3	413.0	451.4	696.3	1032.4
65°	0.0	0.0	4.8	14.4	24.0	57.6	100.8	211.3	302.5	374.5
67.5°	0.0	0.0	4.8	9.6	19.2	28.8	57.6	81.6	129.6	220.9
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	57.6	76.8	110.4
72.5°	0.0	0.0	4.8	9.6	9.6	28.8	28.8	43.2	57.6	72.0
75°	0.0	0.0	4.8	4.8	9.6	19.2	28.8	33.6	38.4	57.6
77.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	38.4	33.6	33.6
80°	0.0	0.0	4.8	14.4	14.4	24.0	28.8	38.4	24.0	24.0
82.5°	0.0	0.0	4.8	19.2	14.4	48.0	48.0	52.8	19.2	19.2
85°	0.0	0.0	14.4	9.6	28.8	48.0	43.2	28.8	24.0	14.4
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	33.6	28.8	9.6	9.6
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°
14098.0	0°	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0	14098.0
14011.6	2.5°	14203.7	14141.2	14270.9	14256.5	14194.1	14165.2	14131.6	14102.8	13891.5
14021.2	5°	14208.5	14112.4	14270.9	14242.1	14232.5	14184.4	14155.6	14198.9	14006.8
14059.6	7.5°	14208.5	14112.4	14285.3	14294.9	14280.5	14242.1	14237.3	14266.1	14107.6
14126.8	10°	14304.5	14266.1	14410.1	14424.5	14405.3	14395.7	14371.7	14352.5	14184.4
14357.3	12.5°	14506.2	14429.3	14592.6	14635.8	14621.4	14645.4	14587.8	14616.6	14443.7
14592.6	15°	14751.1	14755.9	14880.7	14976.7	14967.1	15044.0	14957.5	15034.4	14909.5
14861.5	17.5°	15125.6	15178.4	15356.1	15500.1	15553.0	15610.6	15553.0	15577.0	15399.3
14563.8	20°	14731.9	14928.7	15783.4	16047.5	16158.0	16210.8	16114.8	16143.6	15965.9
14198.9	22.5°	14376.5	14631.0	15389.7	16215.6	16556.5	16662.2	16628.6	16623.8	16556.5
13478.6	25°	13853.1	14366.9	14707.8	15581.8	16652.6	16844.6	16863.8	16859.0	16758.2
13036.8	27.5°	13209.7	13324.9	14208.5	14741.5	15980.3	16710.2	16681.4	16542.1	16407.7
12119.7	30°	12388.6	12912.0	13310.5	14160.4	15111.2	16297.2	16297.2	16191.6	16052.3
11793.2	32.5°	11970.8	12647.9	13017.6	13324.9	14136.4	15836.3	16028.3	15917.9	15807.4
11538.7	35°	11749.9	11850.8	12715.1	12993.6	13680.3	14947.9	15725.8	15615.4	15533.7
10861.6	37.5°	11265.0	11500.3	11903.6	12647.9	12859.2	14222.9	15322.5	15264.8	15168.8
9982.9	40°	10184.6	10813.6	11433.0	12138.9	12359.8	13291.3	14832.7	14856.7	14727.1
9046.5	42.5°	9545.9	9973.3	10943.2	11418.6	12014.0	12691.1	14357.3	14395.7	14304.5
8571.2	45°	8796.9	9272.2	9954.1	10818.4	11629.9	11865.2	13517.0	13920.4	13843.5
7625.2	47.5°	8110.2	8494.3	9329.9	10203.8	11101.7	11068.1	12551.8	13310.5	13204.9
6900.2	50°	7135.4	7807.7	8201.4	9003.3	10343.0	10434.3	11524.3	12595.1	12508.6
5863.0	52.5°	6016.6	6861.7	7615.6	8350.3	9574.7	9790.8	10568.7	11865.2	11807.6
4480.1	55°	5257.9	5872.6	6722.5	7313.1	8643.2	9219.4	9853.2	11168.9	11140.1
3683.0	57.5°	3740.6	4926.6	5627.7	6453.6	7154.6	8196.6	8667.2	9752.4	9483.5
2040.8	60°	2535.3	3092.3	3947.1	4835.4	5306.0	6347.9	6784.9	7654.0	7582.0
1219.7	62.5°	1339.7	1853.5	2463.3	2909.9	3250.8	4264.0	4446.4	5382.8	5358.8
489.8	65°	590.6	782.7	1334.9	1565.4	1915.9	2386.5	2544.9	2881.1	2799.4
240.1	67.5°	307.3	465.8	753.9	926.7	1166.8	1344.5	1474.1	1579.8	1647.0
158.5	70°	187.3	340.9	465.8	643.4	801.9	946.0	1046.8	1190.8	1277.3
81.6	72.5°	139.3	216.1	321.7	494.6	581.0	749.1	849.9	955.6	1032.4
67.2	75°	76.8	144.1	259.3	388.9	465.8	609.8	701.1	773.1	797.1
38.4	77.5°	48.0	110.4	216.1	302.5	364.9	494.6	470.6	537.8	595.4
28.8	80°	33.6	81.6	168.1	249.7	254.5	316.9	374.5	432.2	470.6
19.2	82.5°	24.0	67.2	124.8	192.1	168.1	244.9	292.9	336.1	244.9
14.4	85°	19.2	48.0	62.4	115.2	96.0	172.9	148.9	144.1	96.0
9.6	87.5°	14.4	24.0	43.2	52.8	38.4	38.4	48.0	57.6	48.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14098.0
13747.5
13843.5
13925.2
14045.2
14290.1
14703.0
15245.6
15841.1
16340.4
16604.5
16302.0
15999.5
15716.2
15418.5
15072.8
14698.2
14294.9
13853.1
13281.7
12523.0
11846.0
11173.7
9454.7
7586.8
5363.6
2765.8
1647.0
1282.1
1046.8
782.7
605.0
475.4
177.7
96.0
48.0
0.0

(END OF REPORT)