

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: P636530

Luminaire Tested: **IFLD-L-SA8A-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20483.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 247.8
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



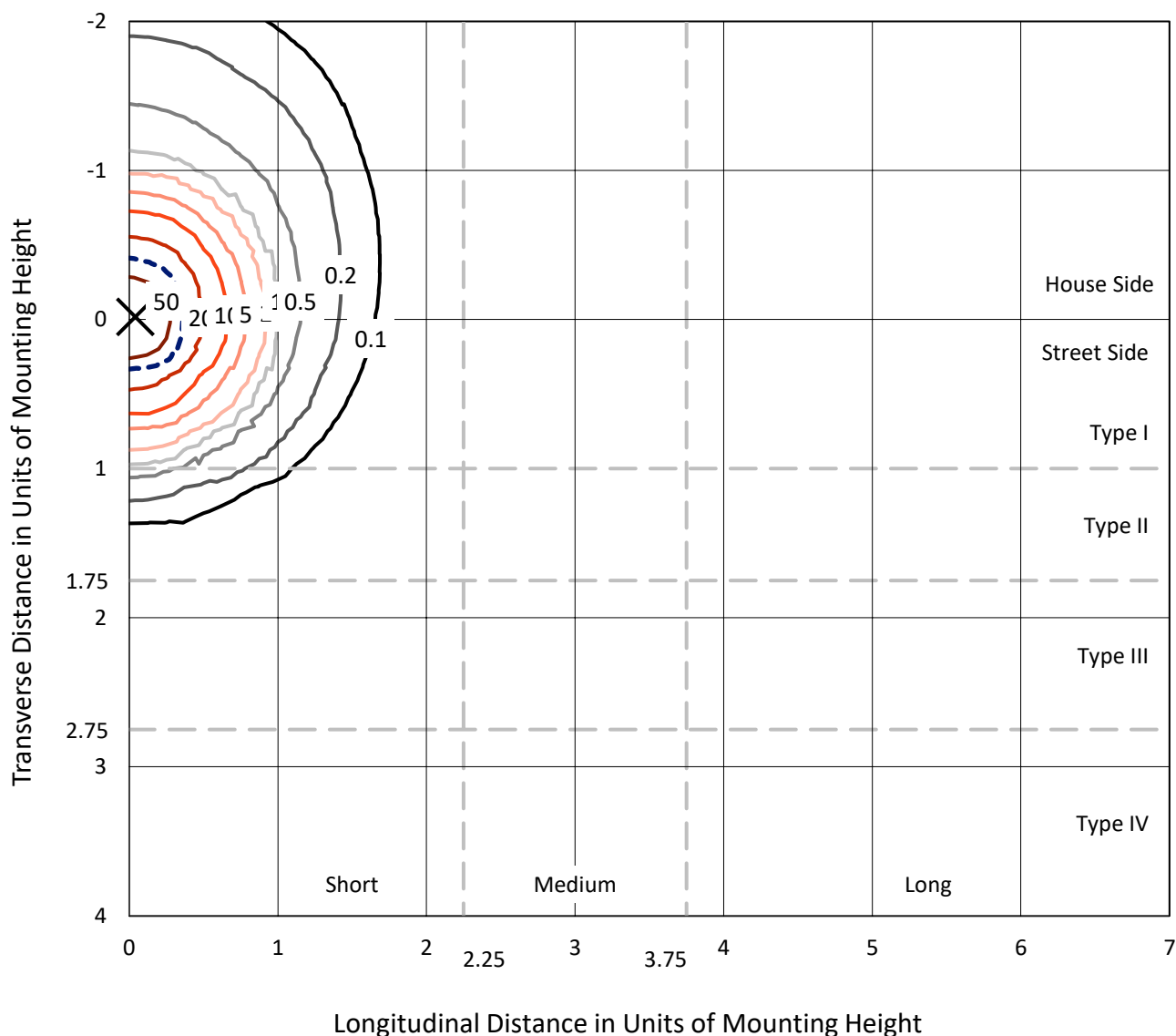
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

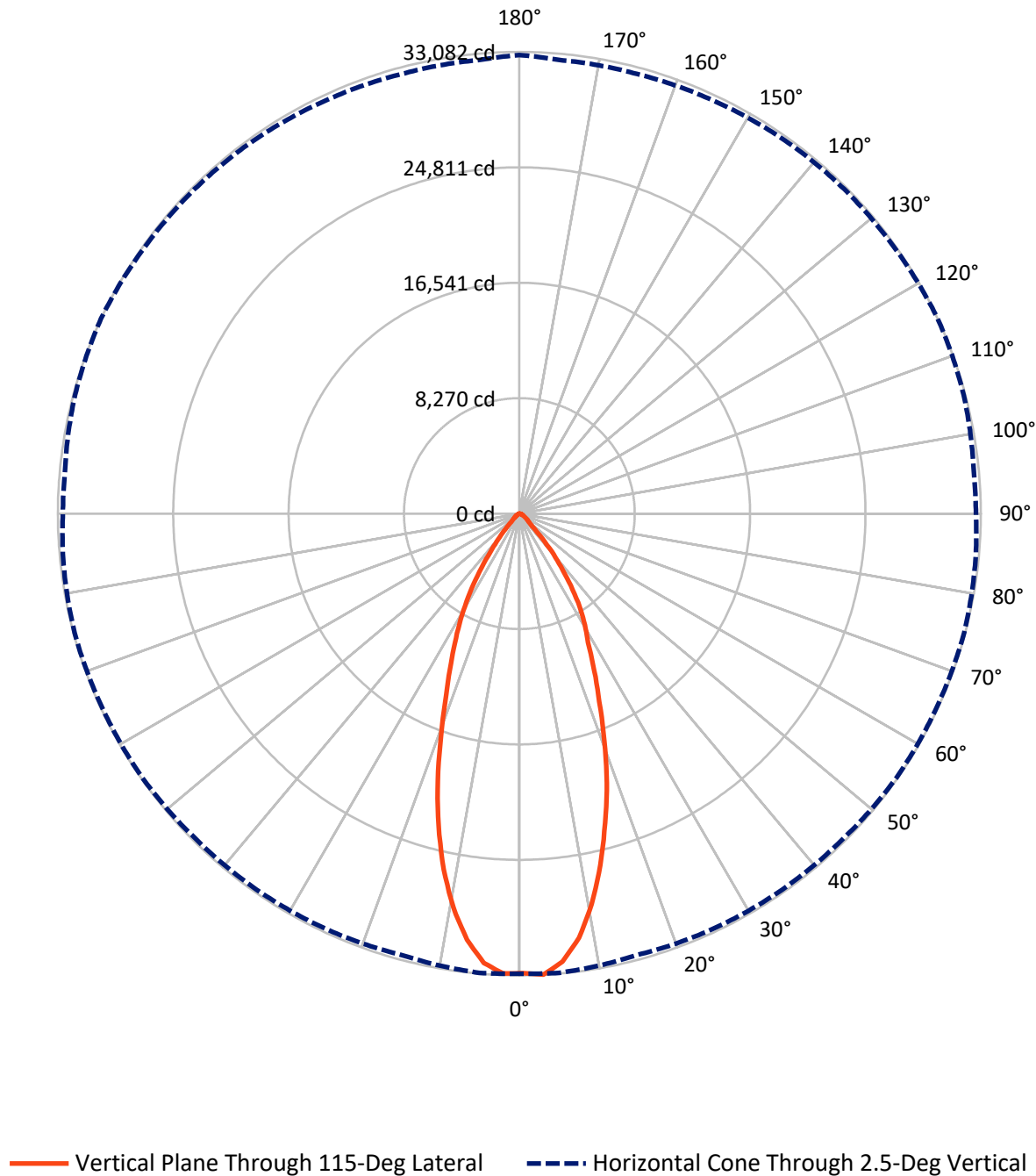


Based on 20 foot mounting height. Maximum calculated value = 82.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11304.3	0.0	11304.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9178.9	0.0	9178.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	20483.2	0.0	20483.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2953.3	14.4
10°-20°	6241.7	30.5
20°-30°	5633.5	27.5
30°-40°	3728.0	18.2
40°-50°	1116.8	5.5
50°-60°	448.0	2.2
60°-70°	232.0	1.1
70°-80°	100.7	0.5
80°-90°	29.3	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°	20483.2	100.0
0°-180°	20483.2	100.0

Coefficient of Utilization



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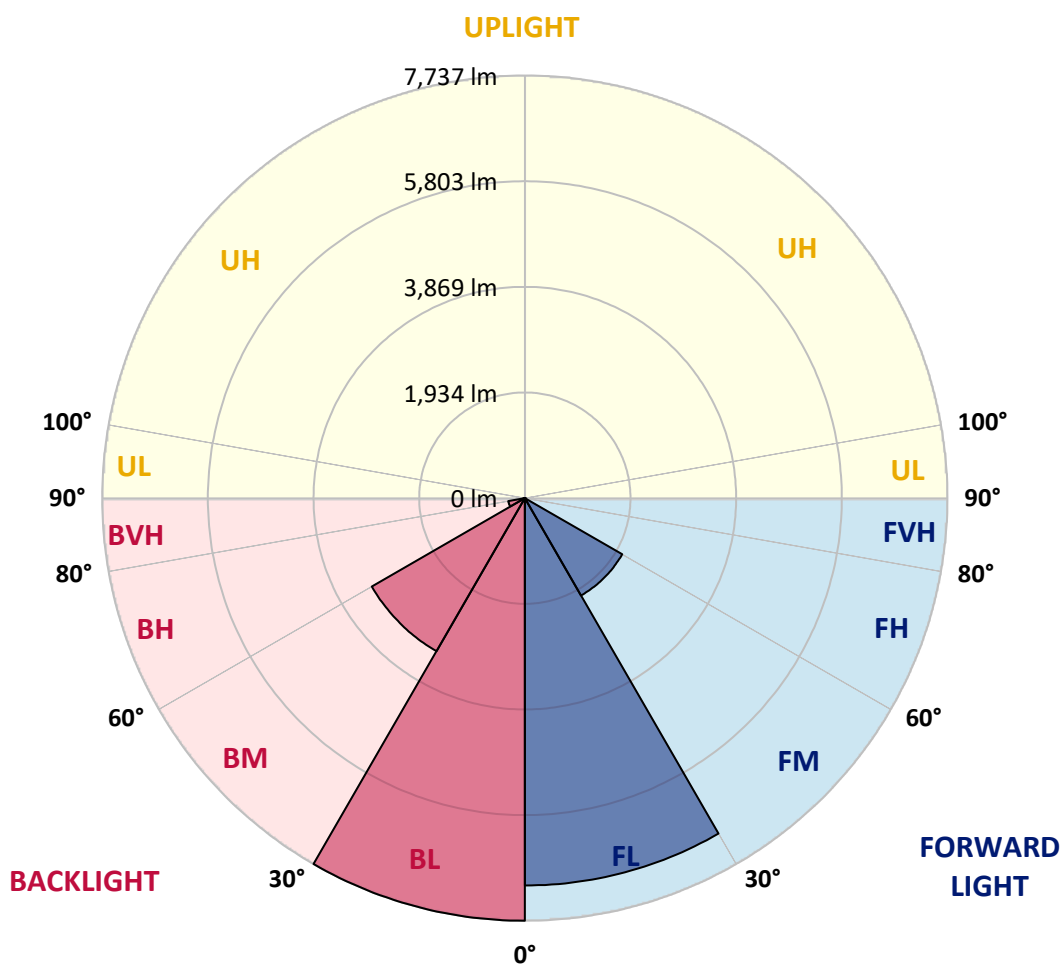
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7091.4	34.6			
FM	(30°-60°)	2057.7	10.0			
FH	(60°-80°)	25.5	0.1			G0/660
FVH	(80°-90°)	4.2	0.0			G0/10
BL	(0°-30°)	7737.0	37.8	B5		
BM	(30°-60°)	3235.0	15.8	B3/5000		
BH	(60°-80°)	307.2	1.5	B1/500		G1/500
BVH	(80°-90°)	25.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7
2.5°	32968.6	33027.3	32734.0	32834.6	32876.4	32889.0	32993.7	32977.0	33006.3	32851.3
5°	32532.9	32419.8	32202.0	32206.2	32193.6	32076.3	32315.1	32298.3	32248.1	32063.7
7.5°	31050.0	31213.3	30802.8	30794.4	30786.1	30643.6	30957.8	30765.1	30807.0	30543.1
10°	28880.0	28900.9	28536.5	28503.0	28532.3	28348.0	28712.4	28637.0	28716.6	28440.1
12.5°	26219.9	26337.2	25935.0	25876.4	25993.7	25733.9	26027.2	26064.9	25947.6	25909.9
15°	20564.5	20874.5	21637.0	22801.5	23103.2	22885.3	23119.9	23115.7	23166.0	22881.1
17.5°	15667.4	15696.7	15516.6	16073.8	19299.4	20346.7	20397.0	19999.0	19697.4	19592.7
20°	13677.6	13778.1	13614.7	13660.8	14176.1	17246.7	17364.0	16765.0	16249.7	16207.8
22.5°	12094.1	12156.9	12039.6	12077.3	12102.5	12462.7	14502.8	13975.0	13727.8	13539.3
25°	10753.5	10753.5	10690.7	10703.3	10678.1	10146.1	11193.4	11796.6	11654.2	11587.2
27.5°	9530.3	9547.1	9467.5	9513.6	9207.7	8349.0	8223.3	10003.7	9852.9	9731.4
30°	8369.9	8424.4	8349.0	8374.1	7708.0	7004.3	6644.0	8344.8	8533.3	8499.8
32.5°	6300.5	6547.6	7155.1	7180.2	6275.3	5734.9	5575.8	6698.4	7414.8	7352.0
35°	3904.3	3891.7	3916.9	5123.3	4813.3	4444.7	4503.3	5060.5	5869.0	5839.7
37.5°	2978.5	2974.3	3020.4	2898.9	3154.4	3372.3	3418.3	3418.3	4285.5	4289.7
40°	2258.0	2241.2	2237.0	2044.3	1713.4	2530.2	2454.8	2392.0	2978.5	3041.3
42.5°	1441.1	1491.3	1453.6	1244.2	1118.5	1382.4	1541.6	1491.3	1839.0	1885.1
45°	804.3	804.3	770.8	653.5	649.3	699.6	879.7	821.1	942.6	1005.4
47.5°	389.6	381.2	418.9	515.3	536.2	519.5	628.4	653.5	712.2	770.8
50°	314.2	314.2	297.4	268.1	444.0	427.3	465.0	498.5	532.0	582.3
52.5°	263.9	263.9	243.0	226.2	255.5	326.8	330.9	393.8	389.6	460.8
55°	134.1	138.2	196.9	196.9	171.8	268.1	272.3	318.4	326.8	385.4
57.5°	12.6	16.8	25.1	121.5	134.1	146.6	205.3	234.6	272.3	297.4
60°	4.2	4.2	8.4	16.8	79.6	100.5	129.9	155.0	188.5	247.2
62.5°	0.0	0.0	4.2	8.4	16.8	62.8	71.2	79.6	113.1	155.0
65°	0.0	0.0	4.2	4.2	8.4	20.9	29.3	50.3	71.2	96.4
67.5°	0.0	0.0	4.2	4.2	8.4	12.6	16.8	25.1	33.5	62.8
70°	0.0	0.0	4.2	4.2	8.4	12.6	12.6	16.8	20.9	29.3
72.5°	0.0	0.0	4.2	4.2	8.4	16.8	12.6	12.6	16.8	20.9
75°	0.0	0.0	4.2	4.2	8.4	12.6	12.6	12.6	12.6	12.6
77.5°	0.0	0.0	4.2	4.2	8.4	12.6	12.6	12.6	8.4	8.4
80°	0.0	0.0	4.2	4.2	8.4	12.6	16.8	16.8	8.4	8.4
82.5°	0.0	0.0	4.2	8.4	8.4	20.9	25.1	20.9	8.4	4.2
85°	0.0	0.0	4.2	4.2	12.6	20.9	20.9	12.6	8.4	4.2
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	12.6	12.6	4.2	4.2
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°
32926.7	0°	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7	32926.7
32725.6	2.5°	32708.9	32964.4	33081.7	32960.2	32901.6	32817.8	32696.3	32612.5	32629.3
31963.2	5°	31892.0	32160.1	32252.3	32147.5	32059.6	32013.5	31992.5	32034.4	32143.3
30430.0	7.5°	30421.6	30593.4	30693.9	30643.6	30522.1	30660.4	30698.1	30672.9	30832.1
28356.4	10°	28364.7	28553.2	28461.1	28482.0	28339.6	28410.8	28389.9	28482.0	28641.2
25880.6	12.5°	25713.0	25893.1	25821.9	25809.3	25658.5	25792.6	25708.8	25809.3	26018.8
22763.8	15°	22927.2	23040.3	22994.2	22923.0	22789.0	22835.1	23094.8	23078.0	23170.2
19529.8	17.5°	19446.0	19990.6	20288.0	20350.9	20242.0	20334.1	20518.5	20472.4	20681.8
16119.8	20°	16090.5	16639.3	17372.4	17967.3	17979.8	17992.4	18109.7	18139.0	18319.1
13543.5	22.5°	13484.9	13874.5	14662.0	15449.6	15994.2	16107.3	16094.7	16136.6	16186.9
11495.0	25°	11465.7	11750.6	12471.1	13015.7	13970.8	14289.2	14381.3	14289.2	14318.5
9689.5	27.5°	9798.4	10234.1	10472.9	11055.2	11989.3	12726.6	12697.3	12642.9	12651.2
8432.8	30°	8428.6	8897.8	9249.6	9425.6	10129.4	11193.4	11302.3	11147.3	11151.5
7322.6	32.5°	7276.6	7423.2	7942.6	8085.1	8537.5	9505.2	9878.0	9760.7	9739.8
5856.4	35°	6028.2	6107.8	6346.6	6627.2	6895.3	7628.4	8244.2	8135.3	8189.8
4306.4	37.5°	4289.7	4616.4	4846.8	5077.2	5269.9	5730.8	6472.2	6371.7	6426.2
3049.7	40°	3024.6	3171.2	3569.2	3669.7	3954.6	4168.2	4796.6	4763.1	4830.1
1893.5	42.5°	1860.0	1964.7	2165.8	2262.1	2454.8	2576.3	2945.0	2986.9	3074.8
1047.3	45°	1055.7	1101.7	1240.0	1344.7	1487.1	1537.4	1667.3	1725.9	1776.2
812.7	47.5°	804.3	854.6	946.7	1038.9	1156.2	1198.1	1290.3	1378.2	1424.3
628.4	50°	657.7	703.8	800.1	875.5	992.8	1030.5	1105.9	1202.3	1260.9
477.6	52.5°	498.5	565.5	682.8	762.4	883.9	930.0	1001.2	1097.6	1152.0
393.8	55°	410.5	460.8	565.5	674.5	787.6	850.4	896.5	1013.8	1072.4
322.6	57.5°	351.9	389.6	456.6	586.5	682.8	775.0	812.7	921.6	980.3
255.5	60°	268.1	326.8	385.4	485.9	594.9	691.2	733.1	829.5	875.5
184.3	62.5°	222.0	259.7	335.1	389.6	511.1	611.6	653.5	741.5	775.0
121.5	65°	155.0	209.5	280.7	314.2	427.3	523.6	582.3	649.3	682.8
71.2	67.5°	92.2	155.0	222.0	268.1	347.7	444.0	506.9	569.7	599.0
41.9	70°	58.6	121.5	175.9	226.2	272.3	364.5	439.9	494.3	481.8
25.1	72.5°	33.5	75.4	129.9	184.3	226.2	305.8	377.0	418.9	297.4
16.8	75°	20.9	54.5	108.9	150.8	184.3	243.0	310.0	318.4	184.3
8.4	77.5°	16.8	41.9	83.8	121.5	125.7	180.1	217.8	247.2	138.2
8.4	80°	8.4	33.5	71.2	100.5	79.6	125.7	167.6	192.7	108.9
4.2	82.5°	8.4	20.9	54.5	71.2	58.6	96.4	121.5	138.2	92.2
4.2	85°	4.2	16.8	29.3	41.9	41.9	62.8	54.5	67.0	58.6
4.2	87.5°	4.2	8.4	16.8	20.9	16.8	25.1	29.3	29.3	25.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
32926.7
32855.5
32369.6
30991.3
28704.0
26056.5
23191.1
20648.3
18281.4
16094.7
14272.4
12663.8
11155.7
9790.0
8240.1
6472.2
4855.2
3175.4
1772.0
1445.3
1286.1
1189.7
1089.2
1005.4
883.9
779.2
682.8
594.9
444.0
263.9
171.8
138.2
113.1
100.5
58.6
20.9
0.0

(END OF REPORT)