

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: P637190

Luminaire Tested: **IFLD-M-SA4D-760-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31823.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

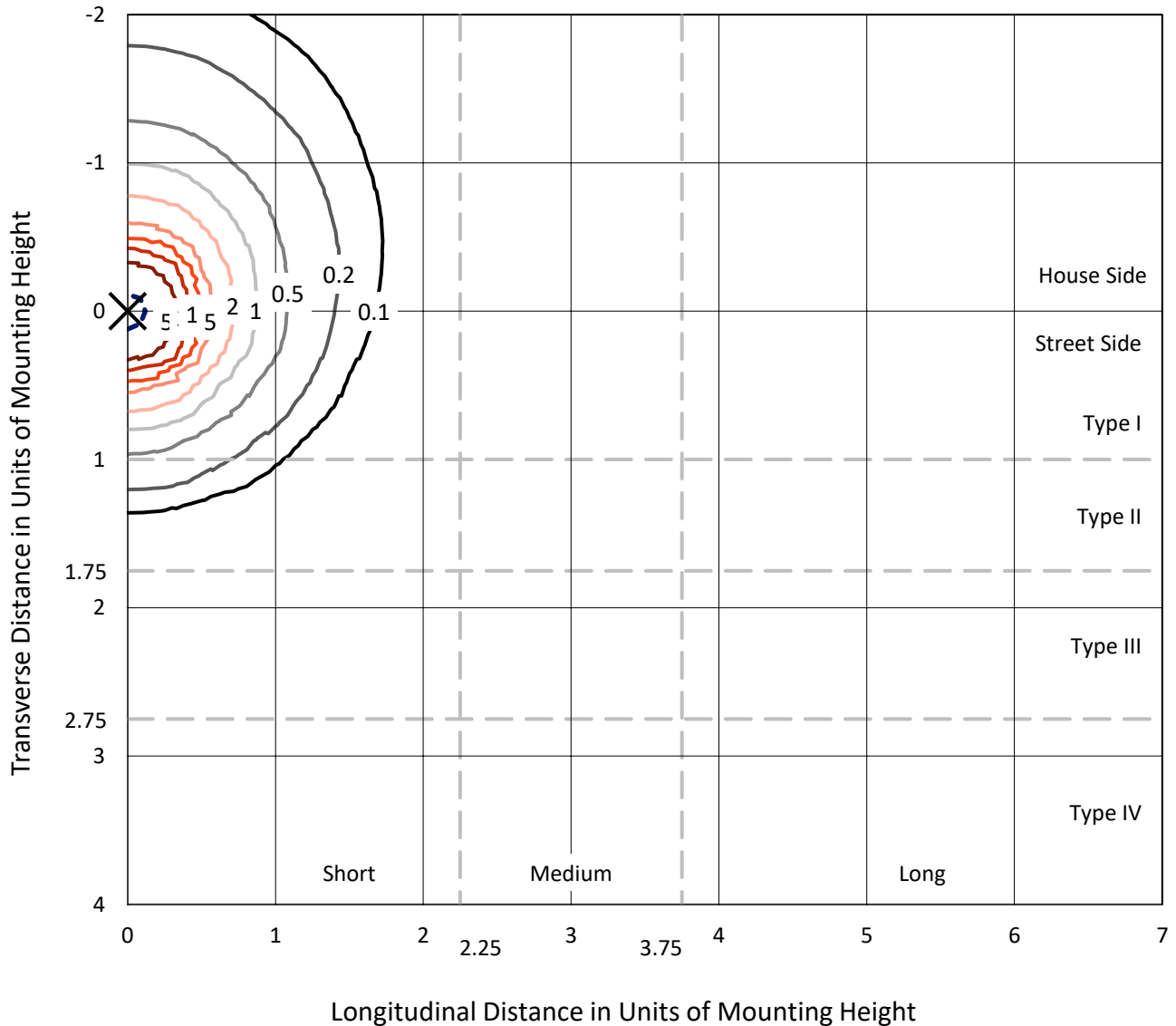
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

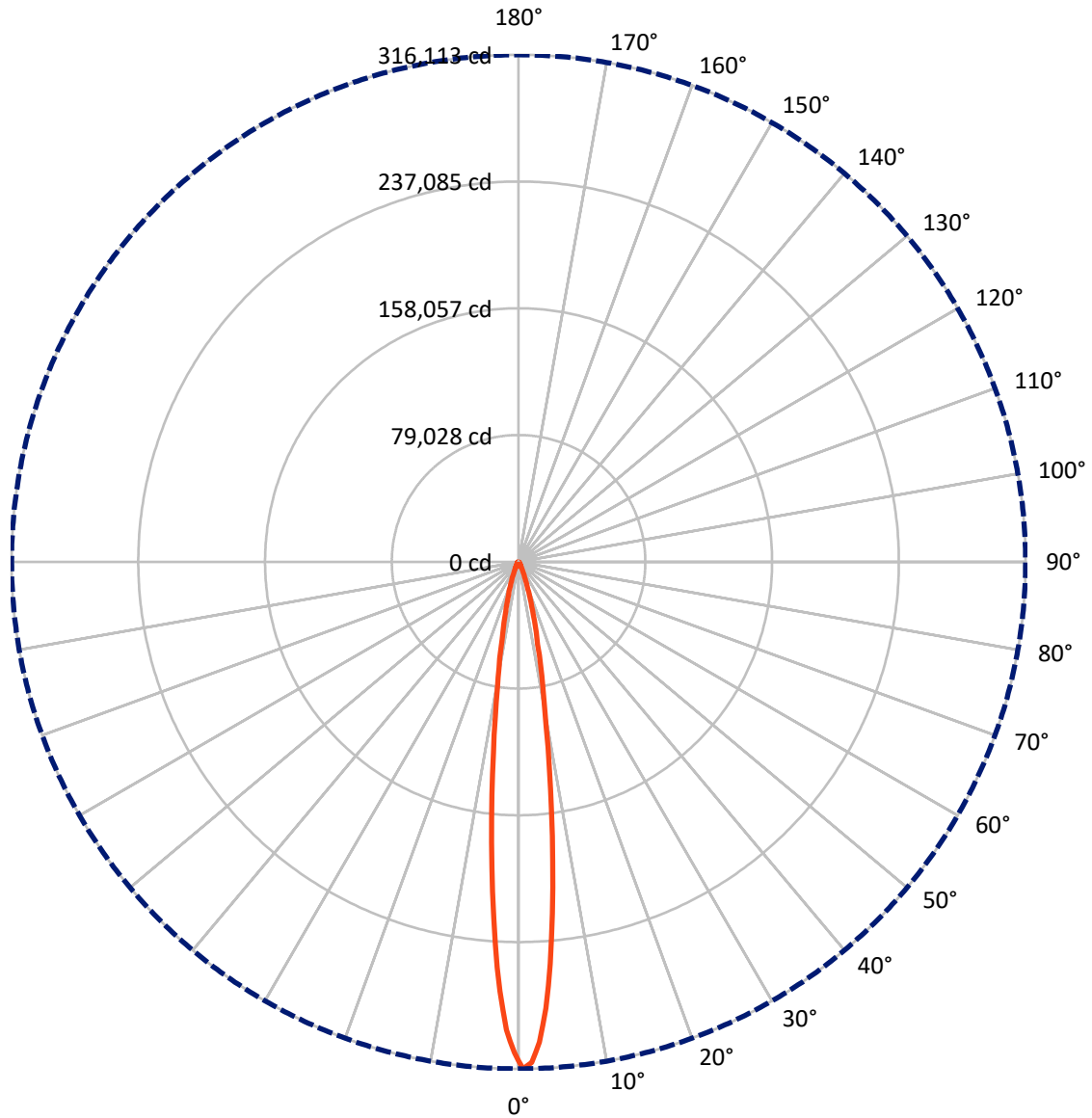
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 790.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16299.5	0.0	16299.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	15524.2	0.0	15524.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	31823.7	0.0	31823.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16065.6	50.5
10°-20°	10285.1	32.3
20°-30°	3091.5	9.7
30°-40°	1006.6	3.2
40°-50°	585.7	1.8
50°-60°	389.0	1.2
60°-70°	234.2	0.7
70°-80°	120.4	0.4
80°-90°	45.7	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°	31823.7	100.0
0°-180°	31823.7	100.0

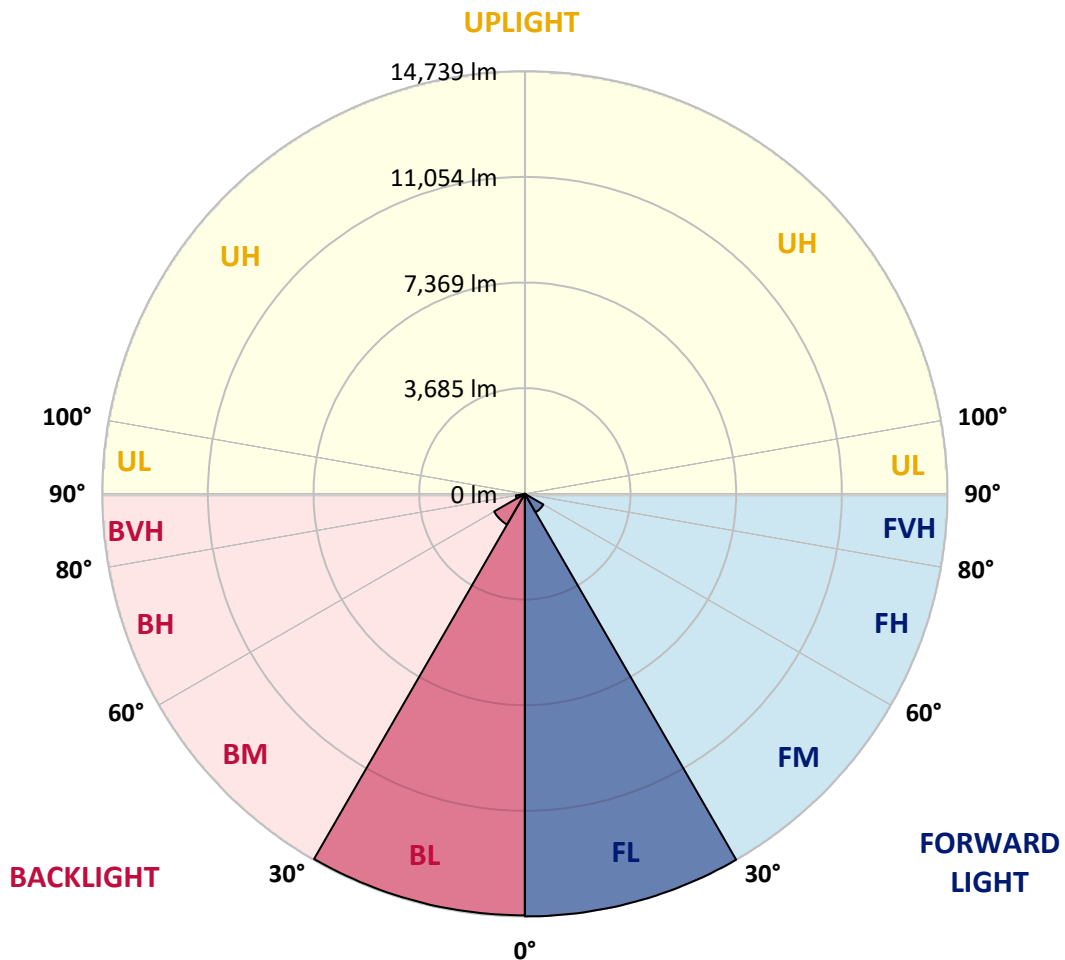


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14738.6	46.3			
FM (30°-60°)	743.7	2.3			
FH (60°-80°)	35.0	0.1			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	14703.6	46.2	B5		
BM (30°-60°)	1237.6	3.9	B2/2500		
BH (60°-80°)	319.5	1.0	B1/500		G0/660
BVH (80°-90°)	38.8	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0
1°	312328.0	311374.8	308913.8	310664.2	312203.2	311756.1	311724.9	311558.5	311326.3	313149.4
2°	299843.0	299226.1	295586.6	297087.5	299274.6	297680.2	298678.4	297801.5	297818.8	299995.5
3°	278796.8	279133.0	273327.3	276055.1	279094.9	275230.2	276429.4	278682.4	276322.0	275611.4
4°	251442.2	248523.8	245352.3	248125.2	248912.0	246662.5	248873.8	251632.9	248353.9	248499.5
5°	220212.6	218056.6	214302.8	216015.1	214063.7	214774.2	218087.8	219224.7	216937.1	214056.7
6°	188102.5	186570.5	181877.3	184345.2	183652.0	183249.9	187433.5	183967.4	185215.2	183471.8
7°	156463.8	153600.8	151295.8	153659.7	153812.2	152602.6	158034.0	157403.1	155132.8	154606.0
8°	129632.6	126776.5	124825.1	126585.9	127736.7	125837.2	128391.8	130069.4	128294.7	128454.1
9°	104555.3	104052.7	101338.7	103640.2	104891.5	102856.9	105685.2	106291.8	104631.5	105439.2
10°	85848.7	85262.9	83096.6	84029.0	86101.7	83675.4	86389.4	86587.0	85262.9	85640.7
12.5°	53052.3	52816.6	52757.7	52892.9	52865.2	53295.0	53988.2	53197.9	53093.9	51787.2
15°	34290.3	34640.3	34279.9	34973.1	35073.6	35479.1	35056.3	34418.5	33201.9	32598.8
17.5°	21399.8	21846.9	22463.9	23479.4	24495.0	24612.9	24051.4	23302.7	22713.4	22068.7
20°	12311.6	12530.0	12436.4	13653.0	16280.3	16994.4	16269.9	15483.1	14772.6	14120.9
22.5°	7649.7	7570.0	7715.6	8124.6	8980.7	11188.6	10595.9	9809.1	9292.6	8755.4
25°	4689.7	4776.3	4720.8	4946.1	5330.9	6266.7	6401.9	6062.2	5798.8	5521.5
27.5°	3019.0	3019.0	3043.2	3168.0	3431.5	3400.3	4121.2	3857.8	3715.7	3580.5
30°	2097.0	2103.9	2103.9	2176.7	2235.6	2131.7	2318.8	2658.5	2592.7	2488.7
32.5°	1556.3	1577.1	1594.4	1632.5	1584.0	1473.1	1518.2	1913.3	1875.2	1837.0
35°	1185.4	1202.7	1244.3	1265.1	1195.8	1126.5	1084.9	1407.2	1424.6	1414.2
37.5°	863.1	873.5	949.7	1029.4	949.7	887.3	863.1	1081.4	1164.6	1154.2
40°	662.0	665.5	679.4	769.5	769.5	721.0	727.9	807.6	953.2	953.2
42.5°	568.4	568.4	582.3	568.4	571.9	623.9	641.2	651.6	807.6	807.6
45°	492.2	492.2	499.1	464.5	429.8	537.2	551.1	554.6	679.4	696.7
47.5°	412.5	412.5	426.3	381.3	363.9	426.3	464.5	474.9	585.8	599.6
50°	305.0	308.5	350.1	312.0	322.3	329.3	402.1	409.0	495.7	526.8
52.5°	204.5	204.5	211.4	242.6	280.8	270.4	325.8	350.1	395.1	436.7
55°	166.4	166.4	162.9	156.0	208.0	225.3	239.2	291.2	322.3	374.3
57.5°	114.4	121.3	110.9	128.2	135.2	169.8	180.2	228.8	246.1	315.4
60°	13.9	17.3	24.3	93.6	90.1	114.4	135.2	180.2	201.0	242.6
62.5°	3.5	3.5	6.9	17.3	62.4	76.3	107.4	124.8	145.6	187.2
65°	0.0	0.0	3.5	6.9	13.9	41.6	55.5	72.8	104.0	131.7
67.5°	0.0	0.0	3.5	6.9	6.9	17.3	27.7	45.1	55.5	97.1
70°	0.0	0.0	3.5	6.9	6.9	13.9	17.3	20.8	38.1	52.0
72.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	17.3	17.3	34.7
75°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	17.3	13.9	13.9
77.5°	0.0	0.0	3.5	6.9	13.9	17.3	20.8	17.3	10.4	10.4
80°	0.0	0.0	3.5	10.4	17.3	24.3	27.7	20.8	10.4	6.9
82.5°	0.0	0.0	6.9	13.9	20.8	27.7	38.1	31.2	13.9	6.9
85°	0.0	0.0	3.5	10.4	20.8	27.7	55.5	38.1	17.3	3.5
87.5°	0.0	0.0	0.0	3.5	3.5	6.9	20.8	13.9	6.9	3.5
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°
316113.0	0°	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0	316113.0
311045.5	1°	313218.8	313437.1	312723.1	313828.8	313440.6	311166.8	310414.7	309523.9
298716.5	2°	297801.5	298914.1	298969.6	300196.6	300179.2	297527.7	296706.2	298220.9
277053.3	3°	276214.5	277510.9	276342.8	278523.0	277867.9	274651.3	273816.0	275535.2
249650.2	4°	248905.0	248658.9	248256.9	247016.0	248544.6	246350.5	244697.2	247029.9
217876.4	5°	217439.7	216892.0	216108.7	215741.3	216878.1	215474.4	212074.1	215481.3
186625.9	6°	186854.7	184497.7	184383.3	184178.8	184293.2	180362.7	180598.3	183135.5
152793.2	7°	154408.4	154841.7	153957.8	155375.4	154294.0	151632.0	150606.1	153278.4
129154.3	8°	128253.1	127705.5	127029.6	129147.4	127272.2	125525.3	124329.5	126440.3
105570.9	9°	105373.3	104427.0	103740.8	103633.3	103924.5	100645.5	101311.0	102908.9
85848.7	10°	85879.9	84327.1	84704.9	84805.4	84486.5	82337.5	82358.3	82909.4
52653.7	12.5°	52466.6	51704.0	51894.6	51998.6	52646.8	51891.2	50823.6	50054.1
33198.4	15°	32976.6	32429.0	33548.5	34300.7	34148.1	33475.7	32973.1	32276.4
22068.7	17.5°	21864.2	22581.7	22585.2	23271.5	23340.8	22668.4	22280.2	21652.8
14353.2	20°	14301.2	14599.3	15219.7	15705.0	15985.7	15472.7	15008.3	14578.5
8949.5	22.5°	8949.5	9469.4	9857.6	10488.5	10744.9	10370.6	10041.3	9691.3
5587.4	25°	5493.8	5864.7	6187.0	6734.7	7084.7	6904.5	6602.9	6356.9
3608.2	27.5°	3663.7	3819.7	3979.1	4356.9	4720.8	4620.3	4499.0	4350.0
2544.1	30°	2582.3	2596.1	2766.0	2977.4	3220.0	3282.4	3227.0	3150.7
1868.2	32.5°	1902.9	1958.4	2038.1	2169.8	2332.7	2481.7	2454.0	2419.3
1428.0	35°	1469.6	1552.8	1618.7	1719.2	1805.8	1948.0	1972.2	1961.8
1175.0	37.5°	1199.3	1272.1	1337.9	1396.8	1469.6	1566.7	1642.9	1646.4
970.5	40°	994.8	1060.6	1147.3	1192.3	1244.3	1317.1	1410.7	1417.6
821.5	42.5°	838.8	901.2	987.8	1043.3	1081.4	1150.7	1244.3	1258.2
703.6	45°	721.0	759.1	849.2	915.1	953.2	998.2	1098.8	1112.6
606.6	47.5°	627.4	665.5	721.0	814.5	849.2	890.8	970.5	994.8
537.2	50°	551.1	589.2	637.8	721.0	772.9	807.6	873.5	908.1
467.9	52.5°	488.7	526.8	578.8	644.7	703.6	734.8	797.2	842.3
381.3	55°	409.0	474.9	513.0	571.9	651.6	679.4	727.9	786.8
332.7	57.5°	357.0	412.5	467.9	516.5	596.2	630.8	679.4	734.8
263.4	60°	301.6	353.5	419.4	461.0	537.2	582.3	634.3	686.3
201.0	62.5°	239.2	308.5	353.5	412.5	485.3	544.2	585.8	637.8
156.0	65°	176.8	253.0	305.0	367.4	436.7	499.1	533.8	589.2
110.9	67.5°	128.2	197.6	260.0	318.9	384.7	447.1	481.8	530.3
69.3	70°	100.5	145.6	214.9	266.9	336.2	388.2	426.3	457.5
45.1	72.5°	58.9	110.9	173.3	232.2	294.6	329.3	357.0	384.7
20.8	75°	38.1	86.7	142.1	194.1	239.2	270.4	294.6	318.9
10.4	77.5°	24.3	62.4	114.4	162.9	183.7	221.8	242.6	256.5
6.9	80°	13.9	48.5	100.5	131.7	149.0	173.3	194.1	211.4
6.9	82.5°	10.4	41.6	83.2	110.9	110.9	138.6	149.0	149.0
3.5	85°	6.9	34.7	65.9	104.0	83.2	104.0	97.1	97.1
3.5	87.5°	6.9	24.3	31.2	45.1	38.1	45.1	45.1	52.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
316113.0
305995.4
291805.1
267899.3
238586.4
206504.1
175780.4
146010.0
120412.8
97917.7
79159.1
49586.2
31919.4
21496.8
14429.4
9504.1
6214.7
4263.3
3098.7
2391.6
1927.2
1622.1
1407.2
1247.8
1109.2
998.2
911.6
842.3
790.3
738.3
700.2
662.0
599.6
533.8
467.9
391.7
318.9
249.6
190.6
138.6
93.6
52.0
0.0

(END OF REPORT)