

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: P637101

Luminaire Tested: **IFLD-M-SA4B-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637101
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22402.2 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

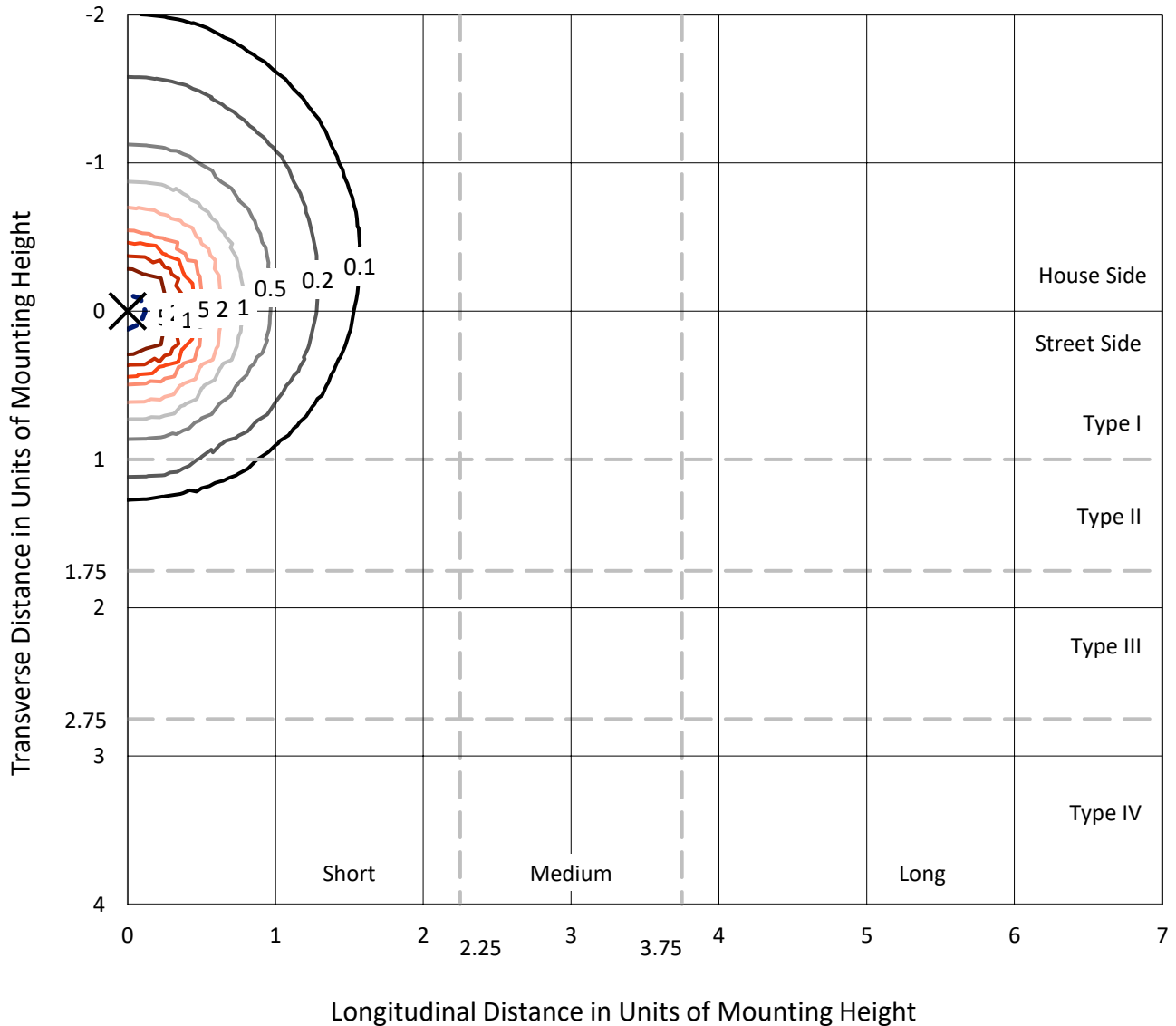
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

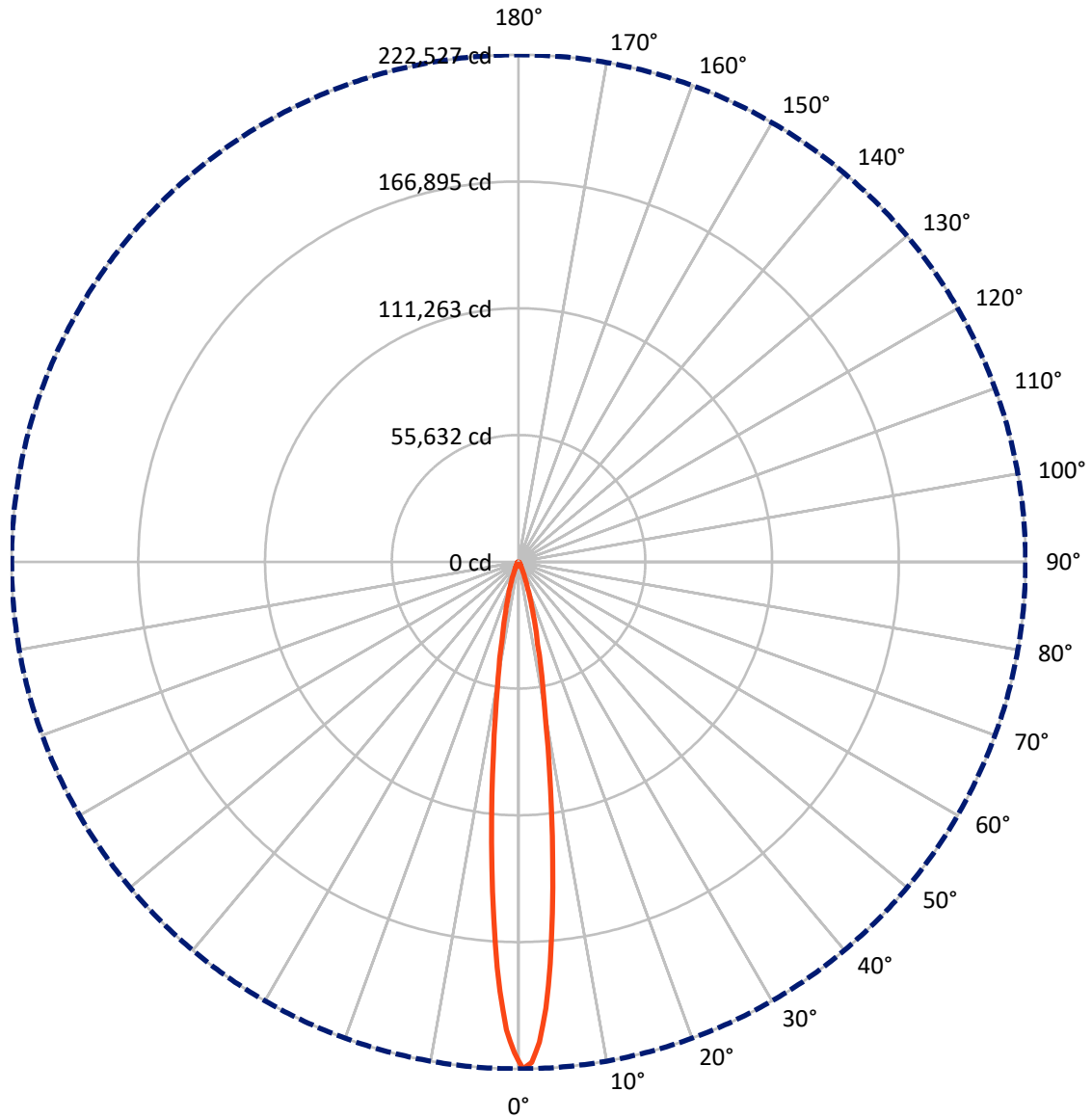
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 556.3 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	11474.0	0.0	11474.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10928.2	0.0	10928.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	22402.2	0.0	22402.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11309.3	50.5
10°-20°	7240.2	32.3
20°-30°	2176.3	9.7
30°-40°	708.6	3.2
40°-50°	412.3	1.8
50°-60°	273.9	1.2
60°-70°	164.8	0.7
70°-80°	84.7	0.4
80°-90°	32.2	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°	22402.2	100.0
0°-180°	22402.2	100.0

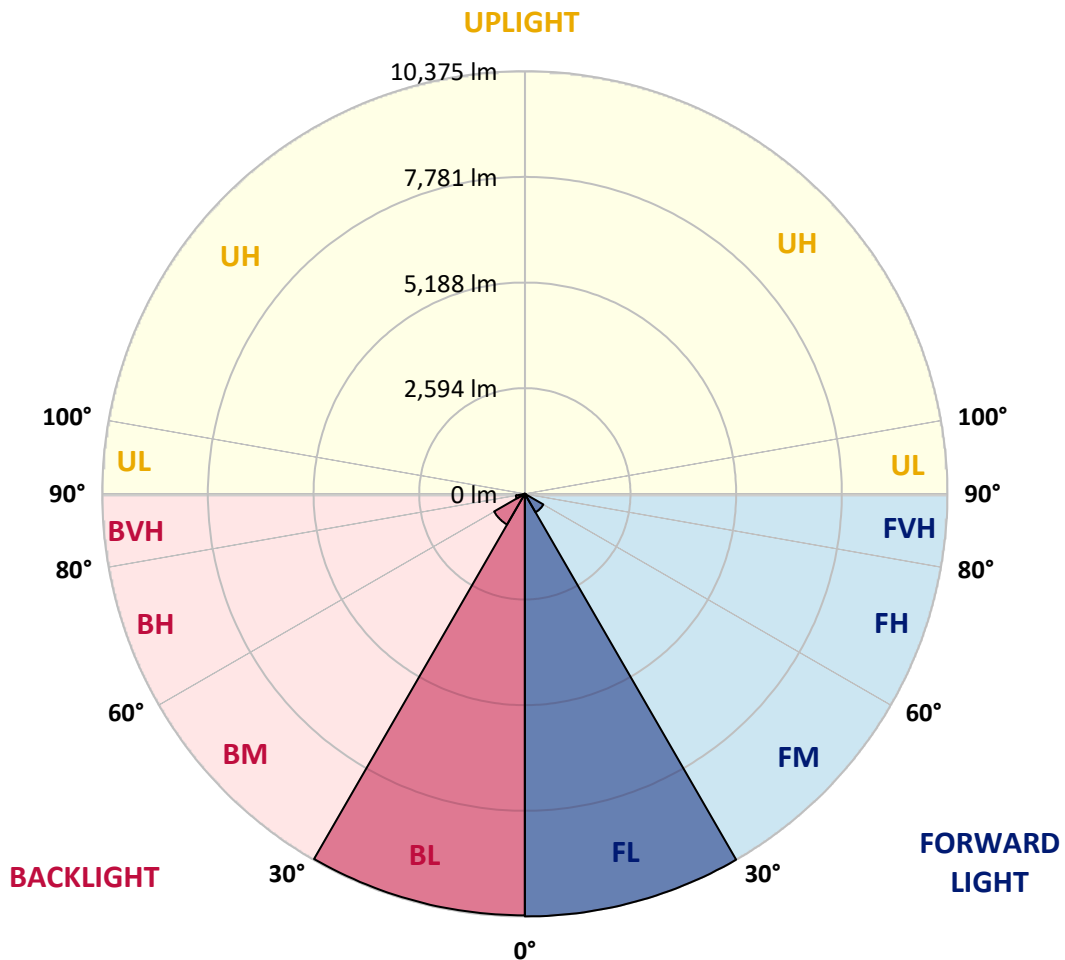


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10375.2	46.3			
FM (30°-60°)	523.6	2.3			
FH (60°-80°)	24.6	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10350.6	46.2	B5		
BM (30°-60°)	871.2	3.9	B1/1000		
BH (60°-80°)	224.9	1.0	B1/500		G0/660
BVH (80°-90°)	27.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8
1°	219862.4	219191.4	217459.0	218691.2	219774.6	219459.8	219437.9	219320.7	219157.3	220440.7
2°	211073.7	210639.4	208077.4	209133.9	210673.5	209551.1	210253.8	209636.5	209648.7	211181.0
3°	196258.2	196494.9	192408.0	194328.2	196468.1	193747.5	194591.7	196177.7	194516.1	194015.9
4°	177002.1	174947.6	172715.1	174667.0	175220.9	173637.4	175194.1	177136.3	174828.1	174930.5
5°	155018.0	153500.4	150857.9	152063.2	150689.5	151189.7	153522.3	154322.6	152712.3	150684.6
6°	132414.2	131335.8	128032.1	129769.3	129281.3	128998.3	131943.3	129503.3	130381.7	129154.4
7°	110142.3	108126.9	106504.3	108168.3	108275.7	107424.1	111247.6	110803.5	109205.3	108834.4
8°	91254.5	89244.0	87870.3	89109.8	89919.9	88582.8	90381.0	91562.0	90312.7	90424.9
9°	73601.4	73247.6	71337.1	72957.3	73838.1	72405.8	74396.8	74823.8	73655.1	74223.6
10°	60432.9	60020.6	58495.6	59152.0	60611.1	58903.1	60813.6	60952.7	60020.6	60286.5
12.5°	37346.0	37180.1	37138.6	37233.8	37214.3	37516.8	38004.8	37448.5	37375.3	36455.5
15°	24138.5	24385.0	24131.2	24619.2	24690.0	24975.4	24677.8	24228.8	23372.4	22947.8
17.5°	15064.3	15379.1	15813.4	16528.3	17243.2	17326.2	16930.9	16403.9	15989.1	15535.2
20°	8666.7	8820.5	8754.6	9611.0	11460.5	11963.1	11453.2	10899.3	10399.1	9940.4
22.5°	5385.0	5328.9	5431.4	5719.3	6321.9	7876.2	7459.0	6905.1	6541.5	6163.3
25°	3301.3	3362.3	3323.2	3481.8	3752.7	4411.4	4506.6	4267.5	4082.1	3886.9
27.5°	2125.2	2125.2	2142.3	2230.1	2415.6	2393.6	2901.1	2715.7	2615.6	2520.5
30°	1476.2	1481.1	1481.1	1532.3	1573.8	1500.6	1632.3	1871.4	1825.1	1751.9
32.5°	1095.5	1110.2	1122.4	1149.2	1115.1	1037.0	1068.7	1346.9	1320.0	1293.2
35°	834.5	846.7	875.9	890.6	841.8	793.0	763.7	990.6	1002.8	995.5
37.5°	607.6	614.9	668.5	724.7	668.5	624.6	607.6	761.3	819.8	812.5
40°	466.0	468.5	478.2	541.7	541.7	507.5	512.4	568.5	671.0	671.0
42.5°	400.2	400.2	409.9	400.2	402.6	439.2	451.4	458.7	568.5	568.5
45°	346.5	346.5	351.4	327.0	302.6	378.2	388.0	390.4	478.2	490.4
47.5°	290.4	290.4	300.1	268.4	256.2	300.1	327.0	334.3	412.4	422.1
50°	214.7	217.2	246.4	219.6	226.9	231.8	283.0	287.9	348.9	370.9
52.5°	144.0	144.0	148.8	170.8	197.6	190.3	229.4	246.4	278.2	307.4
55°	117.1	117.1	114.7	109.8	146.4	158.6	168.4	205.0	226.9	263.5
57.5°	80.5	85.4	78.1	90.3	95.2	119.6	126.9	161.0	173.2	222.0
60°	9.8	12.2	17.1	65.9	63.4	80.5	95.2	126.9	141.5	170.8
62.5°	2.4	2.4	4.9	12.2	43.9	53.7	75.6	87.8	102.5	131.8
65°	0.0	0.0	2.4	4.9	9.8	29.3	39.0	51.2	73.2	92.7
67.5°	0.0	0.0	2.4	4.9	4.9	12.2	19.5	31.7	39.0	68.3
70°	0.0	0.0	2.4	4.9	4.9	9.8	12.2	14.6	26.8	36.6
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	12.2	24.4
75°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	9.8	9.8
77.5°	0.0	0.0	2.4	4.9	9.8	12.2	14.6	12.2	7.3	7.3
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	14.6	7.3	4.9
82.5°	0.0	0.0	4.9	9.8	14.6	19.5	26.8	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.6	19.5	39.0	26.8	12.2	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	14.6	9.8	4.9	2.4
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°
222526.8	0°	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8	222526.8
218959.6	1°	220489.5	220643.2	220140.6	220918.9	220645.6	219045.0	218515.6	217888.5	216985.7
210280.7	2°	209636.5	210419.8	210458.8	211322.5	211310.3	209443.8	208865.5	209931.8	207850.5
195030.9	3°	194440.5	195353.0	194530.7	196065.5	195604.3	193340.0	192752.0	193962.2	192449.5
175740.6	4°	175216.0	175042.8	174759.7	173886.2	174962.3	173417.8	172253.9	173896.0	170660.6
153373.5	5°	153066.0	152680.5	152129.1	151870.5	152670.8	151682.6	149289.0	151687.5	145917.0
131374.8	6°	131535.8	129876.7	129796.1	129652.2	129732.7	126965.8	127131.7	128917.8	124115.9
107558.3	7°	108695.4	109000.4	108378.2	109376.1	108614.8	106741.0	106018.7	107899.9	104506.0
90917.8	8°	90283.4	89897.9	89422.1	90912.9	89592.9	88363.2	87521.4	89007.3	86486.8
74316.3	9°	74177.2	73511.1	73028.0	72952.4	73157.3	70849.1	71317.6	72442.4	70924.8
60432.9	10°	60454.9	59361.8	59627.8	59698.5	59474.0	57961.3	57975.9	58363.9	56538.8
37065.4	12.5°	36933.7	36396.9	36531.1	36604.3	37060.6	36528.7	35777.1	35235.5	34962.2
23369.9	15°	23213.8	22828.3	23616.4	24145.9	24038.5	23565.1	23211.3	22720.9	22325.6
15535.2	17.5°	15391.3	15896.3	15898.8	16381.9	16430.7	15957.3	15684.1	15242.4	15262.0
10103.9	20°	10067.3	10277.1	10713.9	11055.5	11253.1	10892.0	10565.0	10262.5	10135.6
6300.0	22.5°	6300.0	6666.0	6939.2	7383.3	7563.9	7300.4	7068.6	6822.1	6670.9
3933.2	25°	3867.3	4128.4	4355.3	4740.8	4987.3	4860.4	4648.1	4474.9	4394.4
2540.0	27.5°	2579.0	2688.8	2801.1	3067.0	3323.2	3252.5	3167.1	3062.2	3025.6
1790.9	30°	1817.8	1827.5	1947.1	2095.9	2266.7	2310.6	2271.6	2217.9	2176.4
1315.1	32.5°	1339.5	1378.6	1434.7	1527.4	1642.1	1747.0	1727.5	1703.1	1683.6
1005.3	35°	1034.5	1093.1	1139.5	1210.2	1271.2	1371.3	1388.3	1381.0	1366.4
827.1	37.5°	844.2	895.5	941.8	983.3	1034.5	1102.9	1156.5	1159.0	1144.3
683.2	40°	700.3	746.6	807.6	839.3	875.9	927.2	993.1	997.9	993.1
578.3	42.5°	590.5	634.4	695.4	734.4	761.3	810.1	875.9	885.7	875.9
495.3	45°	507.5	534.4	597.8	644.1	671.0	702.7	773.5	783.2	780.8
427.0	47.5°	441.6	468.5	507.5	573.4	597.8	627.1	683.2	700.3	700.3
378.2	50°	388.0	414.8	449.0	507.5	544.1	568.5	614.9	639.3	639.3
329.4	52.5°	344.0	370.9	407.5	453.8	495.3	517.3	561.2	592.9	592.9
268.4	55°	287.9	334.3	361.1	402.6	458.7	478.2	512.4	553.9	553.9
234.2	57.5°	251.3	290.4	329.4	363.6	419.7	444.1	478.2	517.3	522.2
185.4	60°	212.3	248.9	295.2	324.5	378.2	409.9	446.5	483.1	492.9
141.5	62.5°	168.4	217.2	248.9	290.4	341.6	383.1	412.4	449.0	463.6
109.8	65°	124.4	178.1	214.7	258.6	307.4	351.4	375.8	414.8	424.6
78.1	67.5°	90.3	139.1	183.0	224.5	270.8	314.8	339.2	373.3	380.6
48.8	70°	70.8	102.5	151.3	187.9	236.7	273.3	300.1	322.1	329.4
31.7	72.5°	41.5	78.1	122.0	163.5	207.4	231.8	251.3	270.8	275.7
14.6	75°	26.8	61.0	100.0	136.6	168.4	190.3	207.4	224.5	226.9
7.3	77.5°	17.1	43.9	80.5	114.7	129.3	156.2	170.8	180.6	175.7
4.9	80°	9.8	34.2	70.8	92.7	104.9	122.0	136.6	148.8	136.6
4.9	82.5°	7.3	29.3	58.6	78.1	78.1	97.6	104.9	104.9	100.0
2.4	85°	4.9	24.4	46.4	73.2	58.6	73.2	68.3	68.3	68.3
2.4	87.5°	4.9	17.1	22.0	31.7	26.8	31.7	31.7	36.6	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
222526.8
215404.6
205415.4
188587.0
167952.2
145368.0
123740.2
102783.3
84764.2
68928.9
55723.8
34906.1
22469.6
15132.6
10157.6
6690.4
4374.8
3001.2
2181.3
1683.6
1356.6
1141.9
990.6
878.4
780.8
702.7
641.7
592.9
556.3
519.7
492.9
466.0
422.1
375.8
329.4
275.7
224.5
175.7
134.2
97.6
65.9
36.6
0.0

(END OF REPORT)