

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: P637227

Luminaire Tested: **IFLD-L-SA8B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29752.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

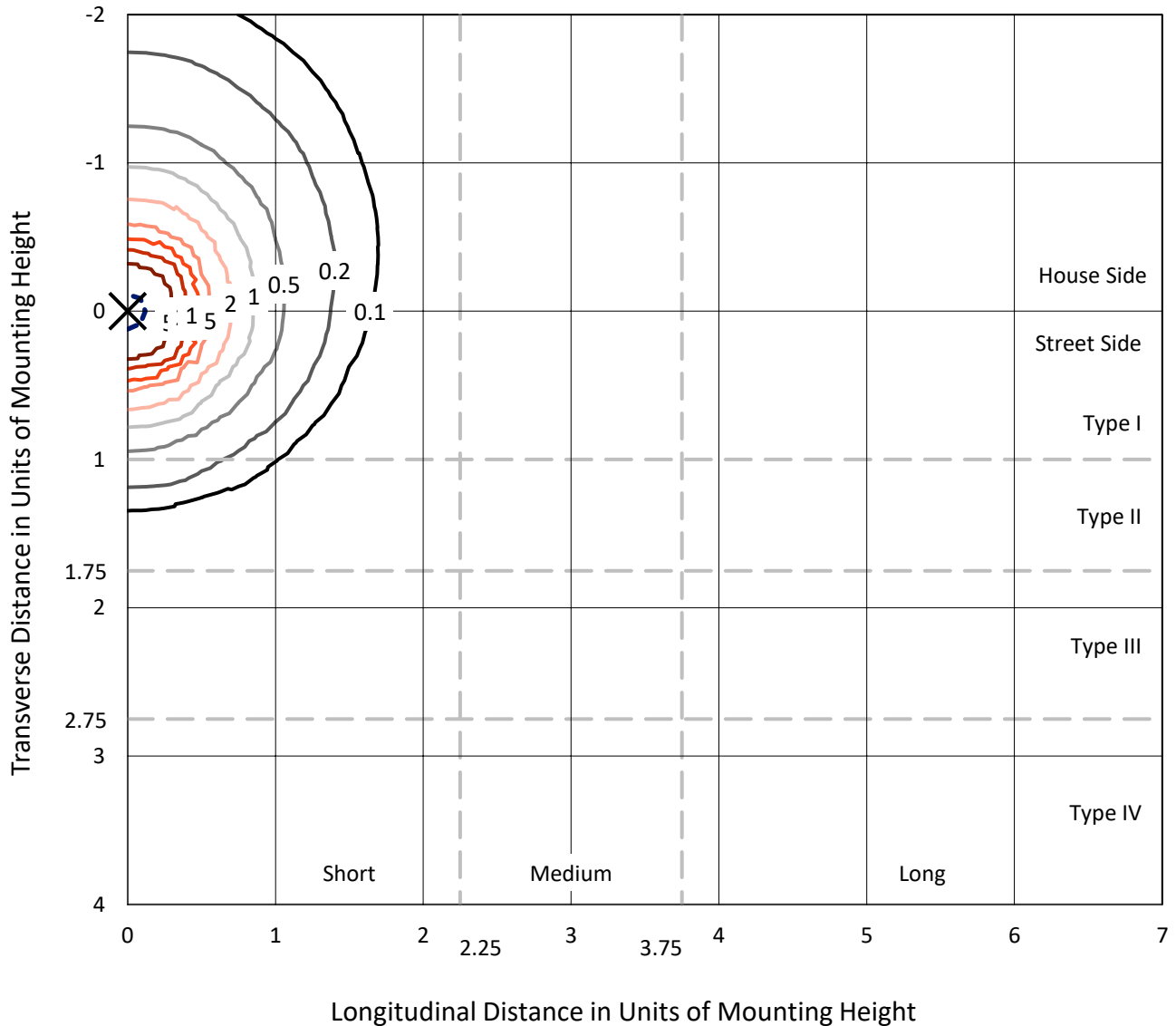
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

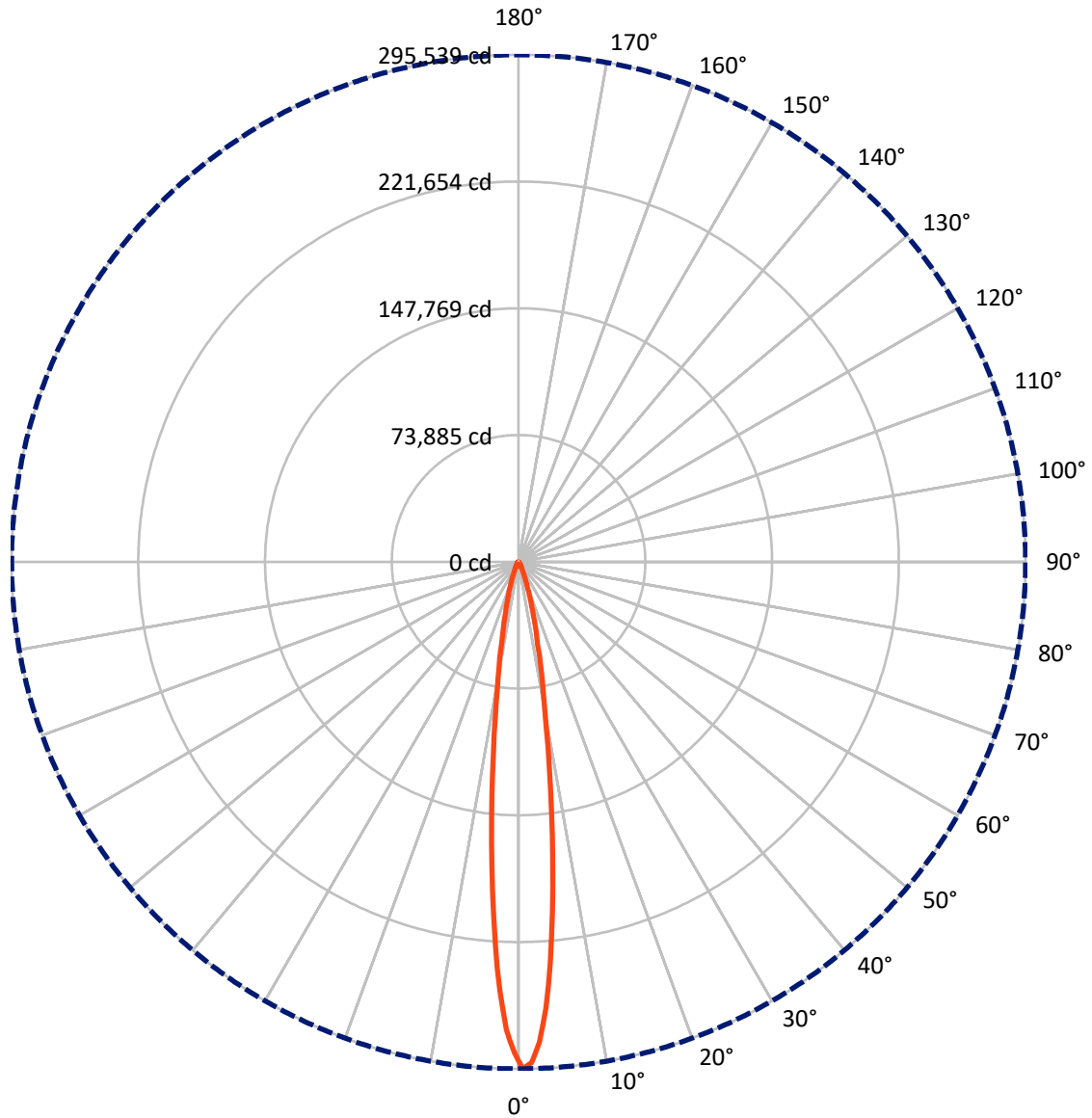
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 738.8 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	15238.7	0.0	15238.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14513.8	0.0	14513.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	29752.5	0.0	29752.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15020.0	50.5
10°-20°	9615.7	32.3
20°-30°	2890.3	9.7
30°-40°	941.1	3.2
40°-50°	547.5	1.8
50°-60°	363.7	1.2
60°-70°	218.9	0.7
70°-80°	112.5	0.4
80°-90°	42.7	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°	29752.5	100.0
0°-180°	29752.5	100.0



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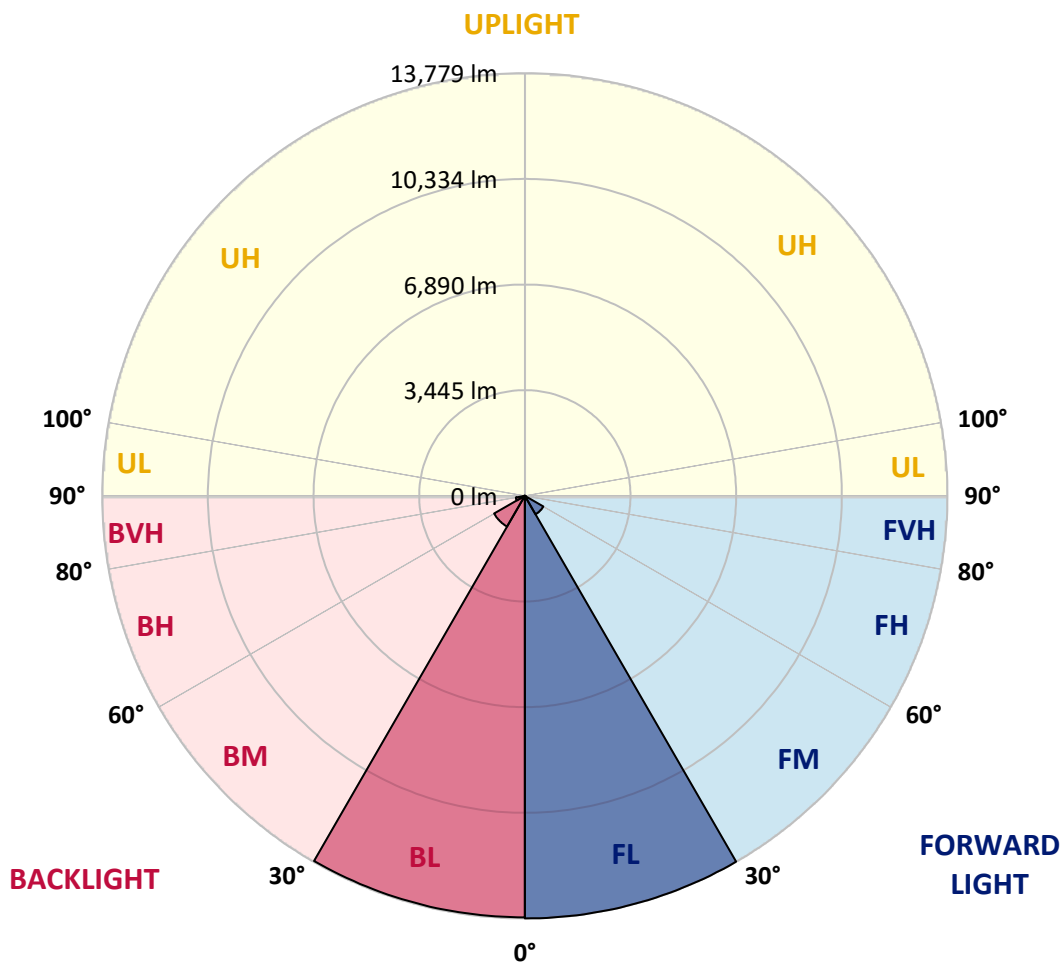
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13779.3	46.3			
FM (30°-60°)	695.3	2.3			
FH (60°-80°)	32.7	0.1			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	13746.7	46.2	B5		
BM (30°-60°)	1157.0	3.9	B2/2500		
BH (60°-80°)	298.7	1.0	B1/500		G0/660
BVH (80°-90°)	36.3	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°	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9
1°	292000.2	291109.1	288808.3	290444.8	291883.6	291465.5	291436.4	291280.8	291063.7	292768.2
2°	280327.9	279751.1	276348.5	277751.7	279796.4	278305.8	279239.1	278419.2	278435.4	280470.5
3°	260651.4	260965.7	255537.9	258088.2	260930.1	257316.9	258438.1	260544.5	258337.7	257673.4
4°	235077.2	232348.7	229383.6	231976.0	232711.6	230608.5	232676.0	235255.4	232189.9	232326.0
5°	205880.1	203864.5	200355.0	201955.8	200131.4	200795.7	203893.7	204956.6	202817.8	200124.9
6°	175859.9	174427.6	170039.9	172347.2	171699.1	171323.2	175234.5	171994.0	173160.6	171530.6
7°	146280.4	143603.7	141448.8	143658.8	143801.4	142670.5	147748.4	147158.6	145036.1	144543.5
8°	121195.5	118525.3	116700.9	118347.1	119423.0	117647.2	120035.4	121603.8	119944.7	120093.8
9°	97750.4	97280.5	94743.2	96894.9	98064.7	96162.5	98806.8	99373.9	97821.6	98576.7
10°	80261.3	79713.6	77688.3	78560.0	80497.8	78229.5	80766.8	80951.5	79713.6	80066.8
12.5°	49599.4	49379.1	49324.0	49450.4	49424.4	49826.3	50474.4	49735.5	49638.3	48416.6
15°	32058.5	32385.8	32048.8	32696.9	32790.8	33170.0	32774.6	32178.4	31041.0	30477.1
17.5°	20007.0	20425.0	21001.8	21951.3	22900.8	23010.9	22486.0	21786.0	21235.1	20632.4
20°	11510.3	11714.5	11627.0	12764.4	15220.7	15888.3	15211.0	14475.4	13811.1	13201.9
22.5°	7151.8	7077.3	7213.4	7595.8	8396.2	10460.4	9906.3	9170.7	8687.8	8185.6
25°	4384.4	4465.4	4413.6	4624.2	4983.9	5858.9	5985.2	5667.7	5421.4	5162.2
27.5°	2822.5	2822.5	2845.2	2961.8	3208.1	3179.0	3853.0	3606.7	3473.8	3347.5
30°	1960.5	1967.0	1967.0	2035.0	2090.1	1992.9	2167.9	2485.5	2423.9	2326.7
32.5°	1455.0	1474.4	1490.6	1526.3	1480.9	1377.2	1419.3	1788.8	1753.1	1717.5
35°	1108.3	1124.5	1163.3	1182.8	1118.0	1053.2	1014.3	1315.7	1331.9	1322.1
37.5°	806.9	816.6	887.9	962.4	887.9	829.6	806.9	1011.0	1088.8	1079.1
40°	618.9	622.2	635.1	719.4	719.4	674.0	680.5	755.0	891.1	891.1
42.5°	531.4	531.4	544.4	531.4	534.7	583.3	599.5	609.2	755.0	755.0
45°	460.2	460.2	466.6	434.2	401.8	502.3	515.2	518.5	635.1	651.3
47.5°	385.6	385.6	398.6	356.5	340.3	398.6	434.2	444.0	547.6	560.6
50°	285.2	288.4	327.3	291.6	301.4	307.8	375.9	382.4	463.4	492.6
52.5°	191.2	191.2	197.7	226.8	262.5	252.8	304.6	327.3	369.4	408.3
55°	155.5	155.5	152.3	145.8	194.4	210.6	223.6	272.2	301.4	350.0
57.5°	106.9	113.4	103.7	119.9	126.4	158.8	168.5	213.9	230.1	294.9
60°	13.0	16.2	22.7	87.5	84.3	106.9	126.4	168.5	188.0	226.8
62.5°	3.2	3.2	6.5	16.2	58.3	71.3	100.5	116.7	136.1	175.0
65°	0.0	0.0	3.2	6.5	13.0	38.9	51.8	68.1	97.2	123.1
67.5°	0.0	0.0	3.2	6.5	6.5	16.2	25.9	42.1	51.8	90.7
70°	0.0	0.0	3.2	6.5	6.5	13.0	16.2	19.4	35.6	48.6
72.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	16.2	16.2	32.4
75°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	16.2	13.0	13.0
77.5°	0.0	0.0	3.2	6.5	13.0	16.2	19.4	16.2	9.7	9.7
80°	0.0	0.0	3.2	9.7	16.2	22.7	25.9	19.4	9.7	6.5
82.5°	0.0	0.0	6.5	13.0	19.4	25.9	35.6	29.2	13.0	6.5
85°	0.0	0.0	3.2	9.7	19.4	25.9	51.8	35.6	16.2	3.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.5	19.4	13.0	6.5	3.2
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°
295538.9	0°	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9	295538.9
290801.2	1°	292833.0	293037.2	292369.7	293403.4	293040.4	290914.7	290211.5	289378.6
279274.7	2°	278419.2	279459.4	279511.3	280658.4	280642.2	278163.2	277395.2	278811.3
259021.4	3°	258237.2	259449.2	258357.1	260395.4	259783.0	256775.8	255994.8	257602.1
233401.9	4°	232705.2	232475.1	232099.2	230939.1	232368.1	230316.9	228771.2	230952.0
203696.0	5°	203287.7	202775.7	202043.3	201699.8	202762.7	201450.3	198271.4	201456.8
174479.4	6°	174693.3	172489.8	172382.8	172191.6	172298.6	168623.8	168844.2	171216.2
142848.7	7°	144358.8	144763.9	143937.5	145262.9	144251.9	141763.1	140803.9	143302.4
120748.3	8°	119905.8	119393.8	118761.9	120741.9	118988.7	117355.5	116237.5	118211.0
98699.8	9°	98515.1	97630.5	96988.8	96888.4	97160.6	94095.0	94717.2	96211.1
80261.3	10°	80290.4	78838.7	79191.9	79285.9	78987.7	76978.6	76998.1	77513.3
49226.8	12.5°	49051.8	48338.9	48517.1	48614.3	49220.3	48513.9	47515.8	46796.4
31037.7	15°	30830.3	30318.3	31365.0	32068.2	31925.6	31297.0	30827.1	30175.7
20632.4	17.5°	20441.2	21112.0	21115.2	21756.9	21821.7	21193.0	20830.1	20243.5
13419.0	20°	13370.4	13649.1	14229.1	14682.8	14945.3	14465.7	14031.5	13629.6
8367.0	22.5°	8367.0	8853.1	9216.0	9805.8	10045.6	9695.6	9387.8	9060.5
5223.7	25°	5136.2	5483.0	5784.3	6296.3	6623.6	6455.1	6173.2	5943.1
3373.4	27.5°	3425.2	3571.1	3720.1	4073.3	4413.6	4319.6	4206.2	4066.9
2378.5	30°	2414.2	2427.2	2585.9	2783.6	3010.4	3068.8	3016.9	2945.6
1746.6	32.5°	1779.0	1830.9	1905.4	2028.6	2180.9	2320.2	2294.3	2261.9
1335.1	35°	1374.0	1451.8	1513.3	1607.3	1688.3	1821.2	1843.9	1834.1
1098.5	37.5°	1121.2	1189.3	1250.8	1305.9	1374.0	1464.7	1536.0	1539.2
907.3	40°	930.0	991.6	1072.6	1114.7	1163.3	1231.4	1318.9	1325.4
768.0	42.5°	784.2	842.5	923.5	975.4	1011.0	1075.9	1163.3	1176.3
657.8	45°	674.0	709.7	793.9	855.5	891.1	933.3	1027.2	1040.2
567.1	47.5°	586.5	622.2	674.0	761.5	793.9	832.8	907.3	930.0
502.3	50°	515.2	550.9	596.3	674.0	722.6	755.0	816.6	849.0
437.5	52.5°	456.9	492.6	541.2	602.7	657.8	687.0	745.3	787.4
356.5	55°	382.4	444.0	479.6	534.7	609.2	635.1	680.5	735.6
311.1	57.5°	333.8	385.6	437.5	482.8	557.4	589.8	635.1	687.0
246.3	60°	281.9	330.5	392.1	431.0	502.3	544.4	593.0	641.6
188.0	62.5°	223.6	288.4	330.5	385.6	453.7	508.8	547.6	596.3
145.8	65°	165.3	236.6	285.2	343.5	408.3	466.6	499.0	550.9
103.7	67.5°	119.9	184.7	243.0	298.1	359.7	418.0	450.4	495.8
64.8	70°	94.0	136.1	200.9	249.5	314.3	362.9	398.6	427.7
42.1	72.5°	55.1	103.7	162.0	217.1	275.4	307.8	333.8	359.7
19.4	75°	35.6	81.0	132.9	181.5	223.6	252.8	275.4	298.1
9.7	77.5°	22.7	58.3	106.9	152.3	171.7	207.4	226.8	239.8
6.5	80°	13.0	45.4	94.0	123.1	139.3	162.0	181.5	197.7
6.5	82.5°	9.7	38.9	77.8	103.7	103.7	129.6	139.3	139.3
3.2	85°	6.5	32.4	61.6	97.2	77.8	97.2	90.7	90.7
3.2	87.5°	6.5	22.7	29.2	42.1	35.6	42.1	42.1	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
295538.9
286079.8
272813.1
250463.2
223058.1
193063.8
164339.9
136507.0
112575.7
91544.8
74007.1
46358.9
29842.0
20097.7
13490.3
8885.5
5810.3
3985.8
2897.0
2236.0
1801.7
1516.6
1315.7
1166.6
1037.0
933.3
852.3
787.4
738.8
690.2
654.6
618.9
560.6
499.0
437.5
366.2
298.1
233.3
178.2
129.6
87.5
48.6
0.0

(END OF REPORT)