

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: P637339

Luminaire Tested: **IFLD-L-SA7C-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38933.9 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

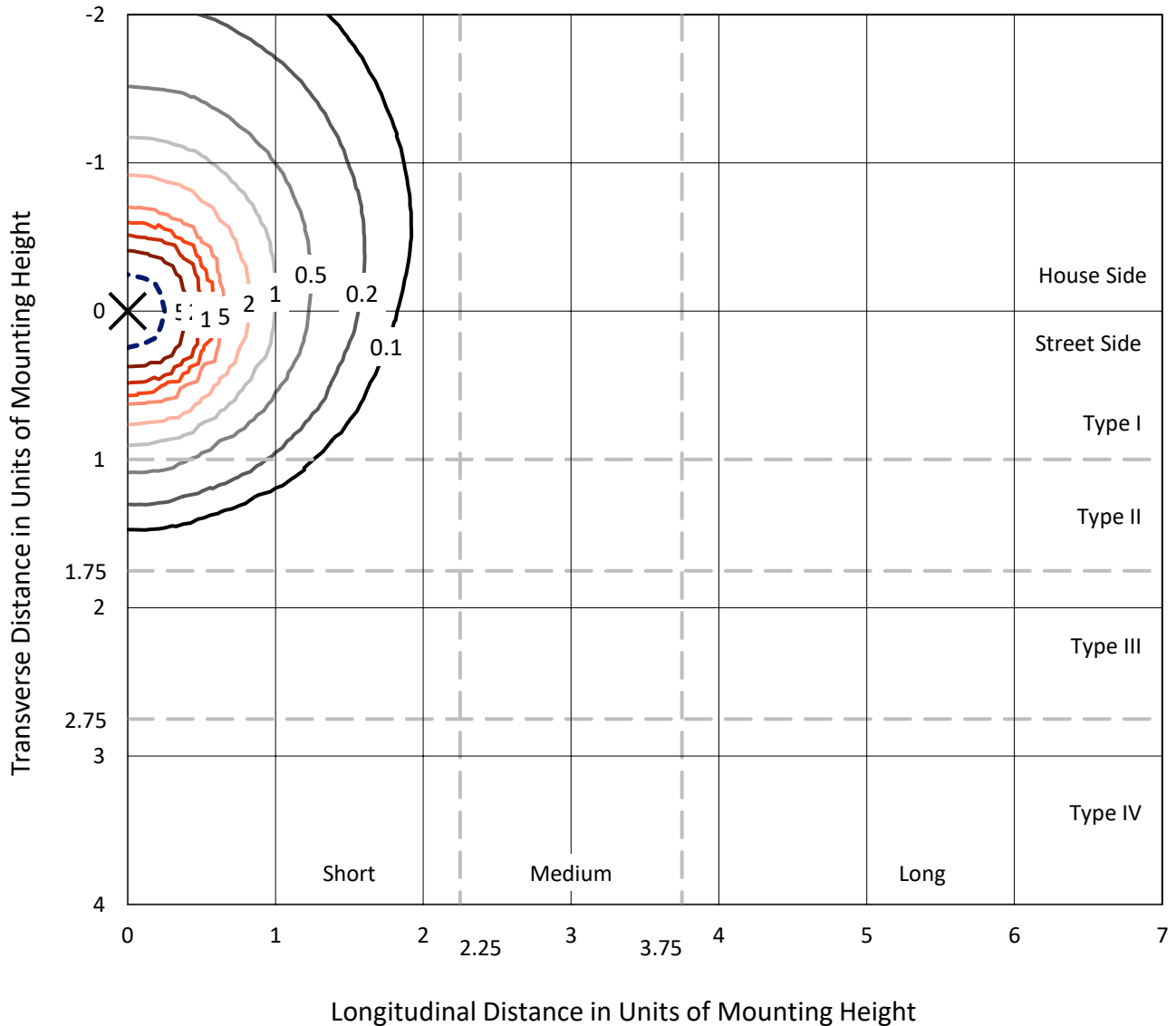
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

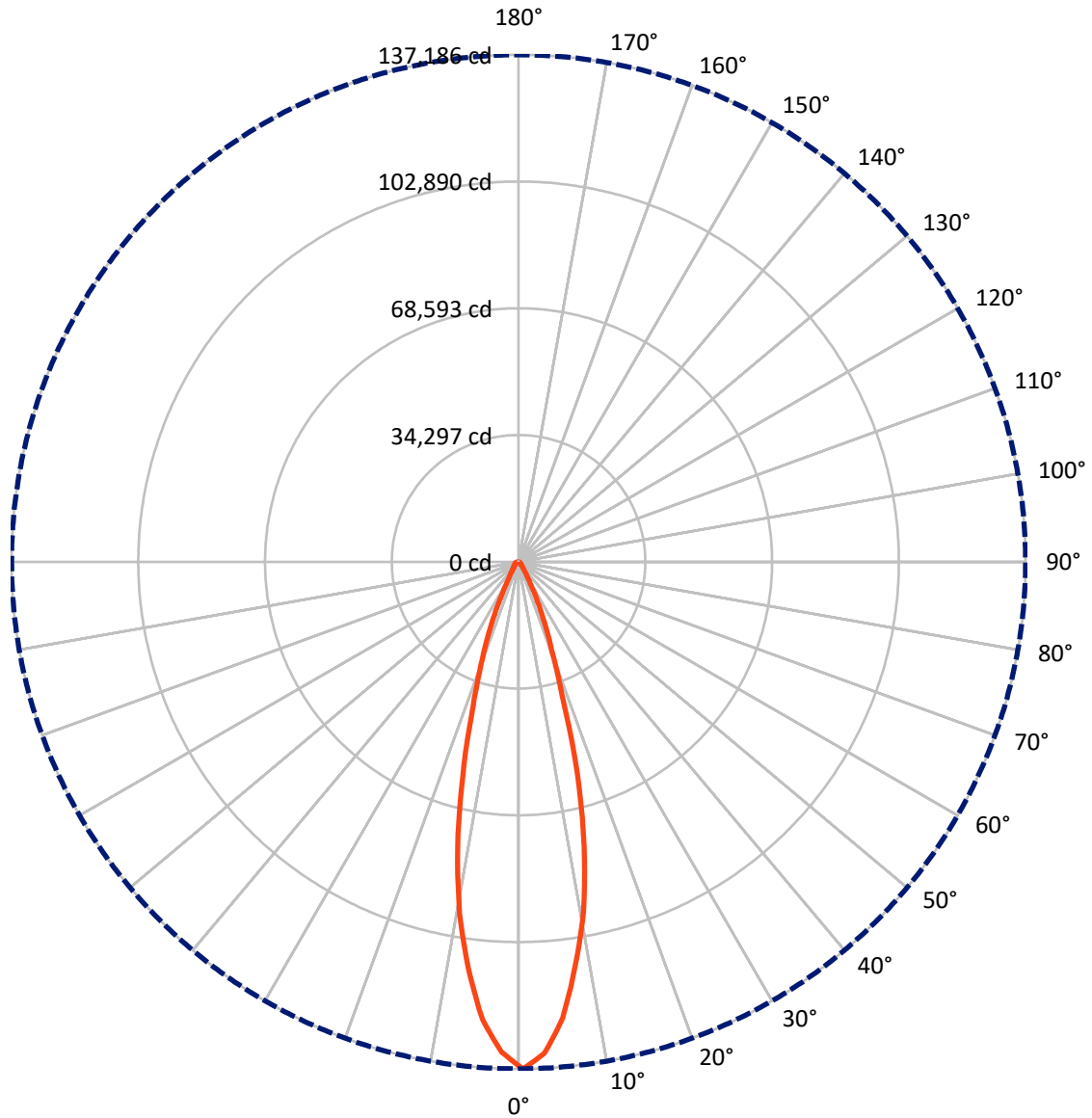
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 343 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	20528.6	0.0	20528.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18405.3	0.0	18405.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	38933.9	0.0	38933.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11072.2	28.4
10°-20°	16768.7	43.1
20°-30°	7076.5	18.2
30°-40°	1845.6	4.7
40°-50°	933.5	2.4
50°-60°	610.2	1.6
60°-70°	365.6	0.9
70°-80°	192.3	0.5
80°-90°	69.5	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°	38933.9	100.0
0°-180°	38933.9	100.0

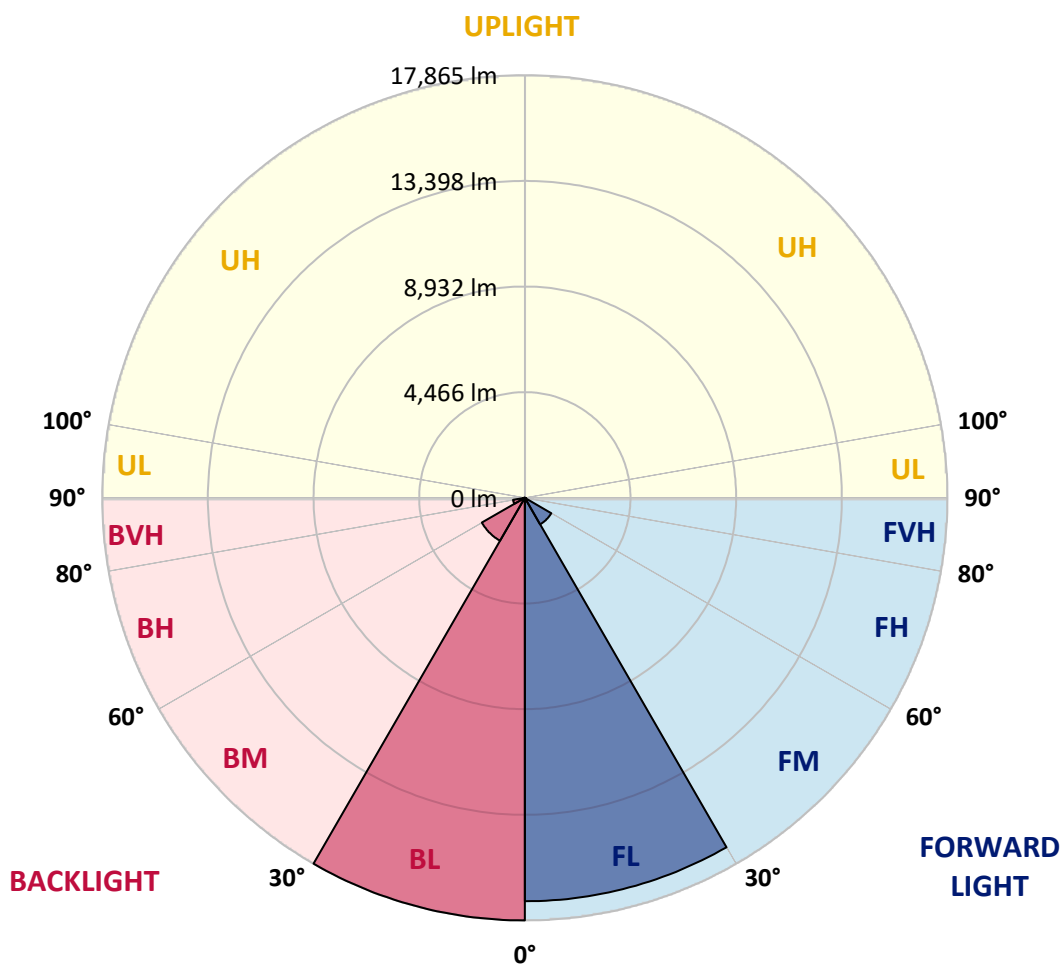


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17052.8	43.8			
FM (30°-60°)	1291.5	3.3			
FH (60°-80°)	52.6	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17864.5	45.9	B5		
BM (30°-60°)	2097.8	5.4	B2/2500		
BH (60°-80°)	505.2	1.3	B2/1000		G0/660
BVH (80°-90°)	61.0	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4
2.5°	133190.0	133264.4	132988.9	133583.6	133120.1	134361.8	133745.3	134707.2	134383.7	134921.5
5°	124095.6	123973.2	123894.5	124817.0	124550.3	125883.9	125031.3	124751.4	125617.2	125459.8
7.5°	110362.1	110685.6	110502.0	110742.5	110878.0	112399.6	112880.6	112504.5	112517.7	112736.3
10°	96283.2	95806.6	95128.9	95579.2	96532.4	97197.0	96930.3	97481.2	97358.8	97879.1
12.5°	78960.0	79336.0	78955.6	78553.4	80219.2	80035.6	80499.0	80800.7	80044.3	81727.7
15°	59476.9	59673.6	60137.1	60106.5	61387.6	61645.5	61584.3	61903.5	61313.2	61593.1
17.5°	38209.8	38874.4	40120.5	42228.0	44597.8	44873.3	44803.3	44541.0	44256.8	43942.0
20°	25665.6	25595.6	26046.0	26662.5	31568.3	32866.8	32827.5	32005.5	30816.2	30588.9
22.5°	17979.0	18110.2	18049.0	18661.1	19675.5	23256.4	22814.8	21979.7	21590.6	21337.0
25°	11827.2	11779.1	12085.1	12268.8	13138.9	13576.1	15123.9	14813.5	14214.5	14280.0
27.5°	7210.0	7271.2	7384.9	7542.3	8158.8	8018.9	8902.1	9020.1	8827.7	8622.2
30°	4424.8	4468.5	4560.3	4674.0	4888.3	4735.2	4980.1	5404.2	5334.2	5190.0
32.5°	3003.8	3008.2	3073.8	3117.5	3091.2	2947.0	3025.7	3427.9	3436.7	3423.5
35°	2159.9	2159.9	2221.1	2256.1	2181.8	2063.7	2076.9	2326.1	2435.4	2457.3
37.5°	1491.0	1495.3	1600.3	1705.2	1622.1	1591.5	1539.1	1705.2	1880.1	1906.3
40°	1132.4	1128.1	1180.5	1259.2	1268.0	1211.1	1228.6	1333.6	1512.8	1534.7
42.5°	918.2	922.6	948.8	940.1	944.4	1018.8	1045.0	1093.1	1259.2	1298.6
45°	773.9	778.3	791.4	747.7	730.2	843.9	878.8	905.1	1045.0	1093.1
47.5°	638.4	647.1	660.2	612.1	603.4	677.7	738.9	765.2	887.6	940.1
50°	459.1	467.8	515.9	489.7	515.9	533.4	616.5	655.9	738.9	808.9
52.5°	332.3	341.0	354.2	358.5	424.1	432.9	494.1	555.3	594.6	673.3
55°	262.3	271.1	262.3	253.6	310.4	358.5	380.4	446.0	476.6	568.4
57.5°	148.7	157.4	170.5	196.8	205.5	275.5	297.3	354.2	380.4	467.8
60°	26.2	30.6	48.1	118.1	144.3	174.9	223.0	271.1	306.1	367.3
62.5°	4.4	4.4	8.7	26.2	83.1	122.4	161.8	192.4	223.0	279.8
65°	0.0	0.0	4.4	8.7	21.9	70.0	87.4	113.7	153.0	201.1
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	39.4	70.0	87.4	135.5
70°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	30.6	52.5	83.1
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	26.2	26.2	52.5
75°	0.0	0.0	4.4	8.7	13.1	21.9	26.2	26.2	21.9	21.9
77.5°	0.0	0.0	4.4	8.7	17.5	26.2	30.6	26.2	17.5	17.5
80°	0.0	0.0	8.7	13.1	21.9	30.6	39.4	30.6	17.5	8.7
82.5°	0.0	0.0	8.7	17.5	21.9	35.0	48.1	39.4	17.5	8.7
85°	0.0	0.0	4.4	13.1	26.2	35.0	48.1	35.0	17.5	4.4
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	26.2	21.9	8.7	4.4
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°
137186.4	0°	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4	137186.4
133902.7	2.5°	134672.3	135371.8	135516.1	135323.7	135603.6	135100.8	134716.0	133719.1	133120.1
125411.7	5°	126220.5	126115.6	126845.8	127086.3	127055.7	126670.9	126133.1	125529.7	124943.8
112312.2	7.5°	113011.7	113147.3	113811.9	114236.0	114021.7	113540.8	113169.1	112714.4	112320.9
98067.1	10°	98963.4	98032.1	98858.5	98858.5	99431.3	98071.5	98198.3	97052.7	97105.2
81697.1	12.5°	81976.9	82313.6	82449.1	82838.2	82169.3	81447.8	80564.6	80389.7	79843.2
61059.6	15°	61938.5	62900.4	62074.0	63486.3	62804.2	62052.2	61916.6	60561.2	60989.7
44287.4	17.5°	44068.8	45131.2	45463.5	46272.4	45651.5	45205.6	44641.5	44230.5	44199.9
31004.2	20°	31249.1	32315.9	32560.8	33531.4	33461.5	33321.6	32845.0	32324.7	31760.6
21105.3	22.5°	21424.4	22294.5	23107.8	24415.1	24393.3	23982.3	23934.2	23199.6	23212.7
14258.2	25°	14406.8	15040.8	15233.2	16571.1	16719.8	16676.1	16426.9	15744.8	16002.7
8709.7	27.5°	8718.4	9273.7	9925.2	10397.4	10843.4	10773.4	10524.2	10143.8	9977.7
5233.7	30°	5373.6	5622.8	5863.3	6431.7	6698.4	6838.3	6720.3	6366.1	6392.4
3445.4	32.5°	3519.7	3729.6	3904.5	4263.0	4402.9	4660.9	4612.8	4538.5	4451.0
2479.1	35°	2566.6	2719.6	2837.6	3003.8	3183.1	3401.7	3436.7	3406.0	3371.1
1915.1	37.5°	1958.8	2116.2	2251.8	2321.7	2461.6	2632.1	2728.3	2724.0	2697.7
1560.9	40°	1591.5	1709.6	1832.0	1923.8	2020.0	2146.8	2264.9	2278.0	2278.0
1311.7	42.5°	1329.2	1429.8	1552.2	1648.4	1718.3	1836.4	1958.8	1967.6	1958.8
1110.6	45°	1136.8	1224.3	1342.3	1456.0	1512.8	1600.3	1718.3	1744.6	1727.1
953.2	47.5°	988.1	1066.8	1167.4	1289.8	1351.1	1429.8	1539.1	1569.7	1565.3
822.0	50°	848.2	940.1	1040.6	1141.2	1219.9	1294.2	1399.1	1434.1	1421.0
699.6	52.5°	747.7	830.7	918.2	1027.5	1119.3	1184.9	1268.0	1329.2	1311.7
590.3	55°	625.2	725.8	817.6	909.4	1023.1	1093.1	1171.8	1246.1	1228.6
498.4	57.5°	542.2	625.2	730.2	813.3	926.9	1010.0	1088.7	1167.4	1163.0
406.6	60°	454.7	542.2	642.7	730.2	835.1	926.9	1005.6	1093.1	1101.8
306.1	62.5°	358.5	463.5	550.9	651.5	756.4	857.0	926.9	1014.4	1027.5
231.7	65°	271.1	380.4	476.6	572.8	677.7	787.0	848.2	922.6	935.7
170.5	67.5°	201.1	292.9	406.6	494.1	603.4	708.3	765.2	826.4	848.2
104.9	70°	153.0	223.0	341.0	424.1	537.8	620.9	682.1	734.6	752.0
70.0	72.5°	96.2	174.9	275.5	362.9	463.5	537.8	581.5	612.1	638.4
39.4	75°	65.6	135.5	223.0	310.4	384.8	441.6	481.0	507.2	529.1
17.5	77.5°	39.4	104.9	183.6	258.0	306.1	349.8	389.1	406.6	419.7
13.1	80°	21.9	78.7	153.0	209.9	240.5	271.1	301.7	323.6	332.3
8.7	82.5°	13.1	61.2	122.4	161.8	174.9	205.5	236.1	249.2	249.2
4.4	85°	8.7	43.7	83.1	118.1	126.8	148.7	157.4	166.1	174.9
4.4	87.5°	8.7	26.2	52.5	65.6	70.0	78.7	83.1	91.8	100.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
137186.4
132678.5
124288.0
110987.3
96593.6
79344.8
60561.2
43386.7
31515.8
22959.1
15596.1
9833.4
6278.7
4420.4
3358.0
2684.6
2251.8
1950.1
1727.1
1556.6
1412.3
1307.3
1237.4
1167.4
1106.2
1036.2
948.8
857.0
760.8
634.0
524.7
415.4
323.6
244.9
170.5
96.2
0.0

(END OF REPORT)