

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: P638035

Luminaire Tested: **IFLD-L-SA7C-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638035
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29702.4 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

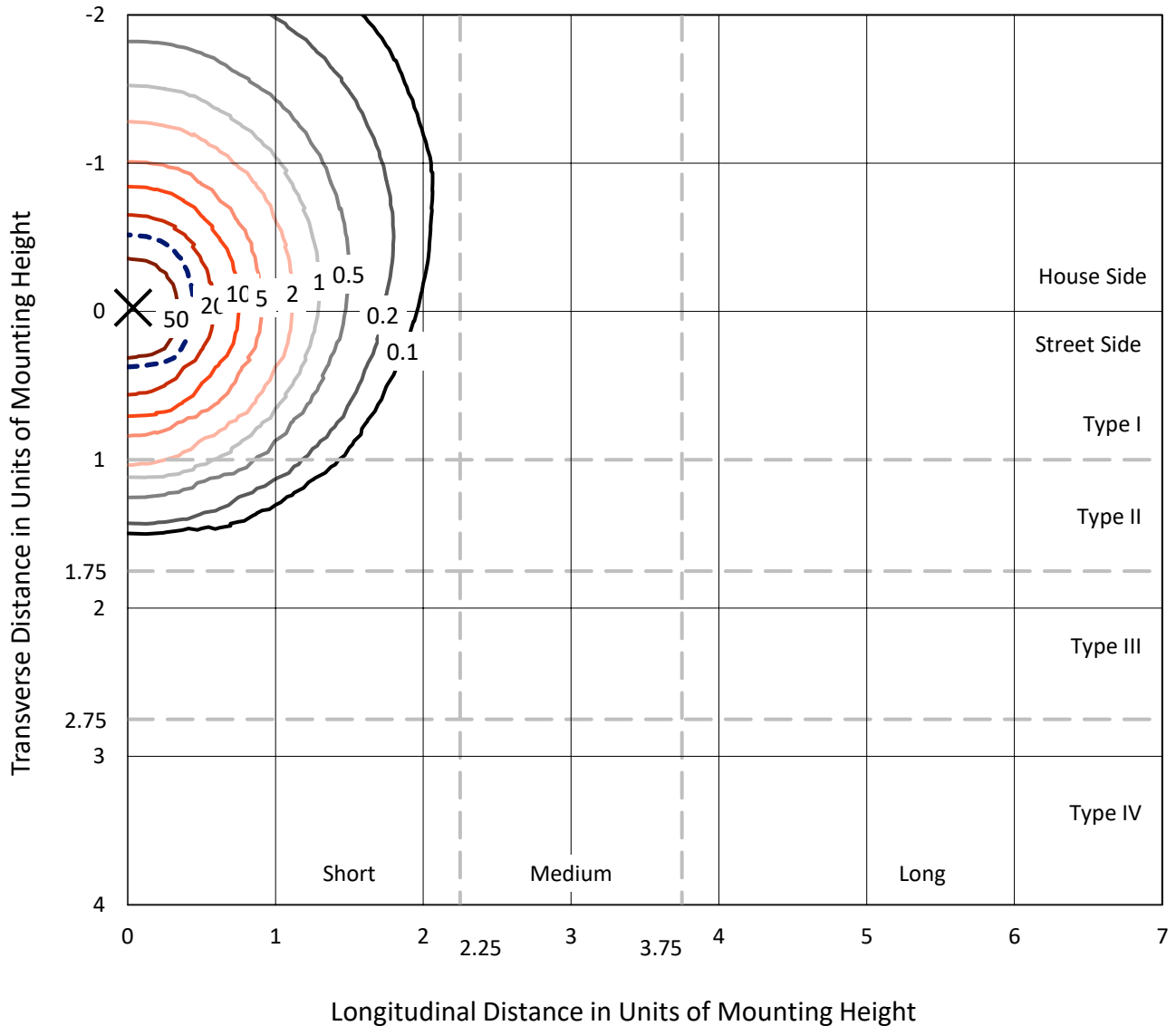
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

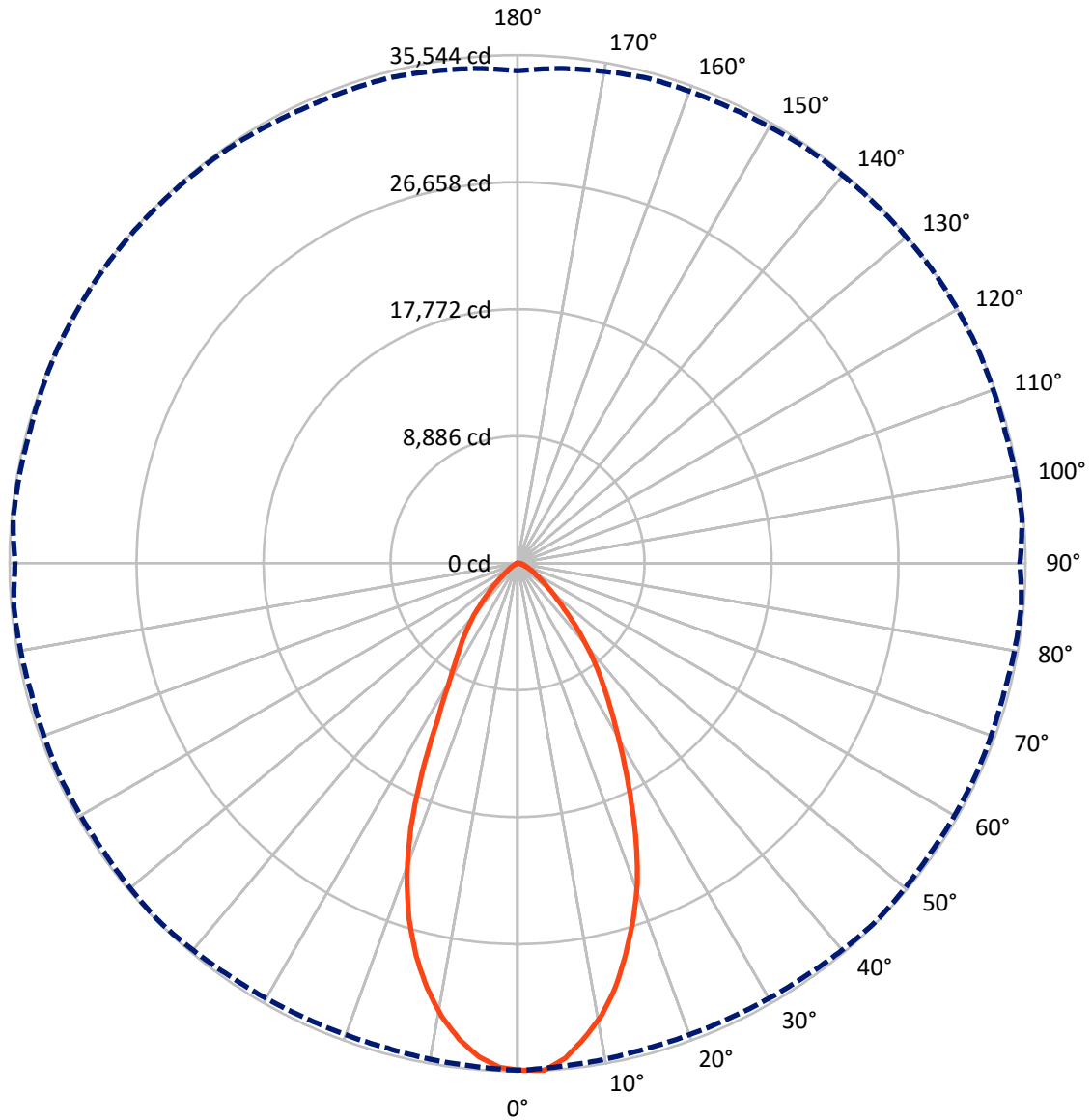
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16854.3	0.0	16854.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12848.1	0.0	12848.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	29702.4	0.0	29702.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3222.4	10.8
10°-20°	7681.4	25.9
20°-30°	7823.4	26.3
30°-40°	5833.9	19.6
40°-50°	3047.8	10.3
50°-60°	1281.9	4.3
60°-70°	523.5	1.8
70°-80°	220.3	0.7
80°-90°	67.9	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°	29702.4	100.0
0°-180°	29702.4	100.0

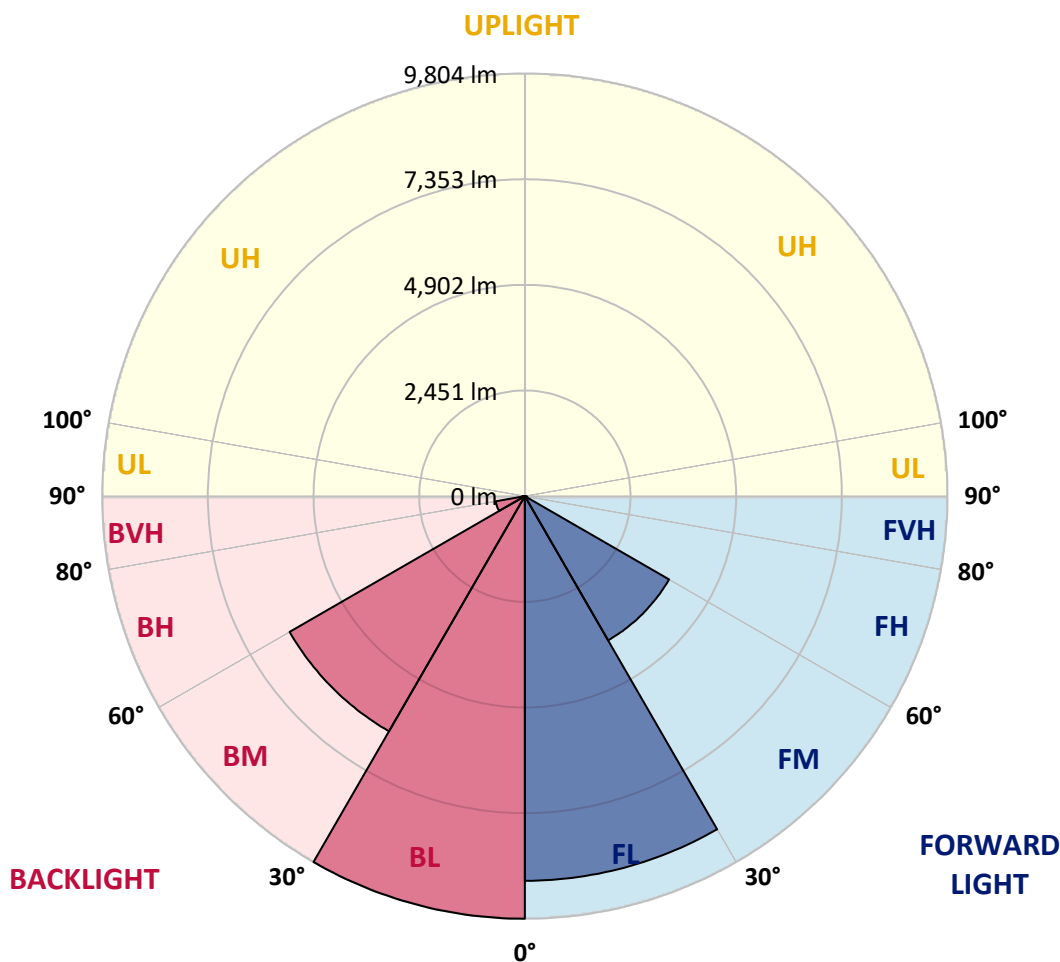


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8923.0	30.0			
FM (30°-60°)	3862.9	13.0			
FH (60°-80°)	55.9	0.2			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	9804.2	33.0	B5		
BM (30°-60°)	6300.6	21.2	B4/8500		
BH (60°-80°)	688.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	61.6	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2
2.5°	35491.0	35346.0	35140.0	35120.9	35227.7	35460.5	35311.7	35319.3	35227.7	35384.2
5°	34933.9	34796.6	34655.4	34468.5	34624.9	34724.1	34647.8	34563.9	34445.6	34598.2
7.5°	33880.9	33804.6	33594.7	33510.8	33606.2	33716.8	33552.8	33529.9	33365.8	33564.2
10°	32270.8	32240.3	32034.2	31984.6	32068.6	32236.4	32164.0	32148.7	32045.7	32026.6
12.5°	30599.6	30481.4	30225.7	30210.5	30336.4	30588.2	30393.6	30206.6	30263.9	30313.5
15°	26295.8	26169.9	26803.3	27799.1	28321.8	28302.8	28360.0	28134.9	28066.2	28089.1
17.5°	20904.7	20691.0	20919.9	22461.4	24945.2	26387.4	25990.6	25506.1	25246.6	25074.9
20°	18043.1	18054.5	18012.6	18409.4	19958.4	23247.3	23151.9	22217.2	21877.6	21736.4
22.5°	16303.3	16238.4	16146.8	16272.7	16688.6	18619.2	19912.7	19054.2	18935.9	18779.5
25°	14597.8	14597.8	14487.1	14613.0	14731.3	14758.0	16055.3	16406.3	16177.4	16177.4
27.5°	13121.2	13044.9	12995.3	13052.5	12896.1	12144.5	12308.5	14105.6	13949.2	13853.8
30°	11656.1	11633.2	11549.3	11625.6	11045.6	10198.6	9855.2	11904.1	12068.2	12033.8
32.5°	9622.5	9714.0	10088.0	10206.2	9214.2	8531.3	8203.1	9881.9	10538.2	10511.5
35°	6539.6	6615.9	7043.3	8455.0	7638.5	7150.1	7054.7	7859.8	8939.5	9042.5
37.5°	5208.0	5196.6	5318.7	5570.5	6139.0	6020.7	5994.0	6203.9	7291.3	7337.0
40°	4292.3	4277.1	4273.3	4067.2	3926.1	5005.8	4933.3	4807.4	5749.8	5841.4
42.5°	3460.6	3475.8	3487.3	3037.1	2831.0	3861.2	3819.2	3689.5	4509.8	4616.7
45°	2716.6	2712.8	2735.7	2262.5	2205.3	2468.6	2853.9	2750.9	3403.4	3517.8
47.5°	1407.9	1457.5	1766.5	1751.3	1778.0	1751.3	2159.5	2132.8	2560.1	2743.3
50°	946.2	961.5	988.2	992.0	1400.3	1289.6	1465.1	1659.7	1793.2	2075.6
52.5°	732.6	744.0	675.3	633.4	858.5	953.9	961.5	1148.4	1251.5	1537.6
55°	408.2	457.8	492.2	496.0	473.1	705.9	702.0	850.8	931.0	1121.7
57.5°	53.4	64.9	99.2	320.5	316.7	393.0	492.2	618.1	663.9	820.3
60°	3.8	7.6	11.4	49.6	209.8	228.9	335.8	385.4	461.7	576.1
62.5°	0.0	0.0	3.8	11.4	42.0	133.5	175.5	202.2	270.9	377.7
65°	0.0	0.0	3.8	7.6	15.3	49.6	68.7	110.6	160.2	232.7
67.5°	0.0	0.0	3.8	7.6	11.4	19.1	30.5	49.6	83.9	141.2
70°	0.0	0.0	3.8	7.6	11.4	15.3	22.9	30.5	45.8	76.3
72.5°	0.0	0.0	3.8	3.8	7.6	19.1	19.1	22.9	30.5	42.0
75°	0.0	0.0	3.8	7.6	11.4	19.1	19.1	19.1	22.9	26.7
77.5°	0.0	0.0	3.8	7.6	11.4	19.1	15.3	19.1	19.1	19.1
80°	0.0	0.0	3.8	7.6	11.4	19.1	22.9	19.1	15.3	15.3
82.5°	0.0	0.0	3.8	11.4	11.4	26.7	26.7	26.7	11.4	11.4
85°	0.0	0.0	7.6	11.4	19.1	30.5	30.5	22.9	11.4	7.6
87.5°	0.0	0.0	3.8	7.6	7.6	15.3	22.9	19.1	7.6	3.8
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°
35487.2	0°	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2	35487.2
35155.2	2.5°	35437.6	35342.2	35521.5	35544.4	35468.1	35372.7	35151.4	35132.3	34747.0
34376.9	5°	34766.1	34609.6	34724.1	34800.4	34773.7	34670.7	34579.1	34495.2	34148.0
33114.0	7.5°	33514.6	33457.4	33510.8	33568.0	33678.7	33568.0	33529.9	33442.1	33098.7
31870.2	10°	32125.8	32019.0	32221.2	32194.5	32164.0	32133.4	31973.2	31988.4	31584.0
30176.1	12.5°	30420.3	30241.0	30435.6	30458.5	30435.6	30328.7	30149.4	30225.7	29855.6
27886.9	15°	28127.2	28108.2	28249.3	28340.9	28405.8	28291.3	28230.3	28268.4	28047.1
24941.4	17.5°	25311.5	25559.5	26021.1	26177.6	26181.4	26299.7	26265.3	26219.5	26055.5
21679.2	20°	21999.7	22476.6	23186.3	23915.0	24124.9	24025.7	23979.9	24063.8	23819.6
18615.4	22.5°	18943.5	19351.8	20175.9	21240.4	21854.7	21915.7	21904.3	21831.8	21736.4
16162.1	25°	16349.1	16711.5	17501.3	18474.2	19653.2	19828.7	19836.3	19813.5	19729.5
13937.7	27.5°	14159.0	14597.8	15032.7	15902.7	17157.9	17882.9	17791.3	17764.6	17734.1
12060.5	30°	12175.0	12728.2	13136.5	13678.3	14803.8	15784.4	15879.8	15834.0	15761.5
10507.7	32.5°	10603.0	10931.2	11450.1	11816.3	12625.2	13735.5	14101.8	14067.4	14002.6
9107.4	35°	9237.1	9366.8	9775.1	10183.3	10721.3	11797.3	12339.1	12262.7	12251.3
7421.0	37.5°	7607.9	8042.9	8268.0	8680.1	9057.8	9893.4	10641.2	10606.9	10610.7
5967.3	40°	6142.8	6394.6	6841.0	7188.2	7535.4	8145.9	8977.7	9000.6	8992.9
4620.5	42.5°	4715.9	4960.0	5429.3	5807.1	6116.1	6493.8	7287.4	7314.2	7348.5
3597.9	45°	3681.9	3838.3	4181.7	4574.7	4902.8	5131.7	5734.6	5906.3	5910.1
2789.1	47.5°	2857.7	3037.1	3281.3	3659.0	3979.5	4143.5	4582.3	4815.1	4803.6
2140.4	50°	2243.5	2407.5	2605.9	2903.5	3250.7	3380.5	3704.8	3933.7	3922.2
1613.9	52.5°	1716.9	1926.8	2102.3	2331.2	2670.8	2781.4	3014.2	3277.4	3239.3
1182.8	55°	1301.1	1514.7	1678.8	1869.6	2178.6	2319.8	2480.0	2689.9	2697.5
915.7	57.5°	980.6	1201.9	1350.7	1545.2	1778.0	1934.4	2056.5	2281.6	2277.8
625.7	60°	702.0	892.8	1072.1	1274.3	1453.7	1633.0	1716.9	1930.6	1938.2
442.6	62.5°	507.5	686.8	858.5	1034.0	1194.2	1369.7	1446.0	1613.9	1636.8
290.0	65°	354.8	480.7	679.1	812.7	992.0	1121.7	1220.9	1365.9	1392.6
171.7	67.5°	228.9	347.2	538.0	656.3	820.3	931.0	1034.0	1148.4	1182.8
110.6	70°	137.4	263.3	400.6	526.5	675.3	774.5	873.7	972.9	992.0
53.4	72.5°	87.8	183.1	290.0	427.3	541.8	648.6	736.4	808.9	751.6
34.3	75°	49.6	125.9	228.9	335.8	438.8	541.8	614.3	652.4	522.7
22.9	77.5°	30.5	91.6	187.0	270.9	339.6	435.0	480.7	503.6	373.9
15.3	80°	19.1	68.7	156.4	221.3	221.3	320.5	373.9	393.0	270.9
11.4	82.5°	15.3	49.6	122.1	167.9	148.8	240.4	293.8	297.6	190.8
7.6	85°	11.4	38.2	76.3	110.6	103.0	167.9	171.7	190.8	125.9
7.6	87.5°	7.6	22.9	45.8	64.9	57.2	80.1	91.6	103.0	68.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35487.2
34445.6
33869.4
33026.2
31446.7
29748.8
27780.0
25811.3
23644.1
21553.3
19447.2
17554.7
15669.9
13830.9
12125.4
10488.6
8859.4
7234.0
5810.9
4761.6
3922.2
3243.1
2697.5
2270.2
1919.2
1629.2
1385.0
1179.0
976.7
698.2
496.0
351.0
251.8
175.5
114.5
61.0
0.0

(END OF REPORT)