

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: P637951

Luminaire Tested: **IFLD-L-SA8A-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637951
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29546.8 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

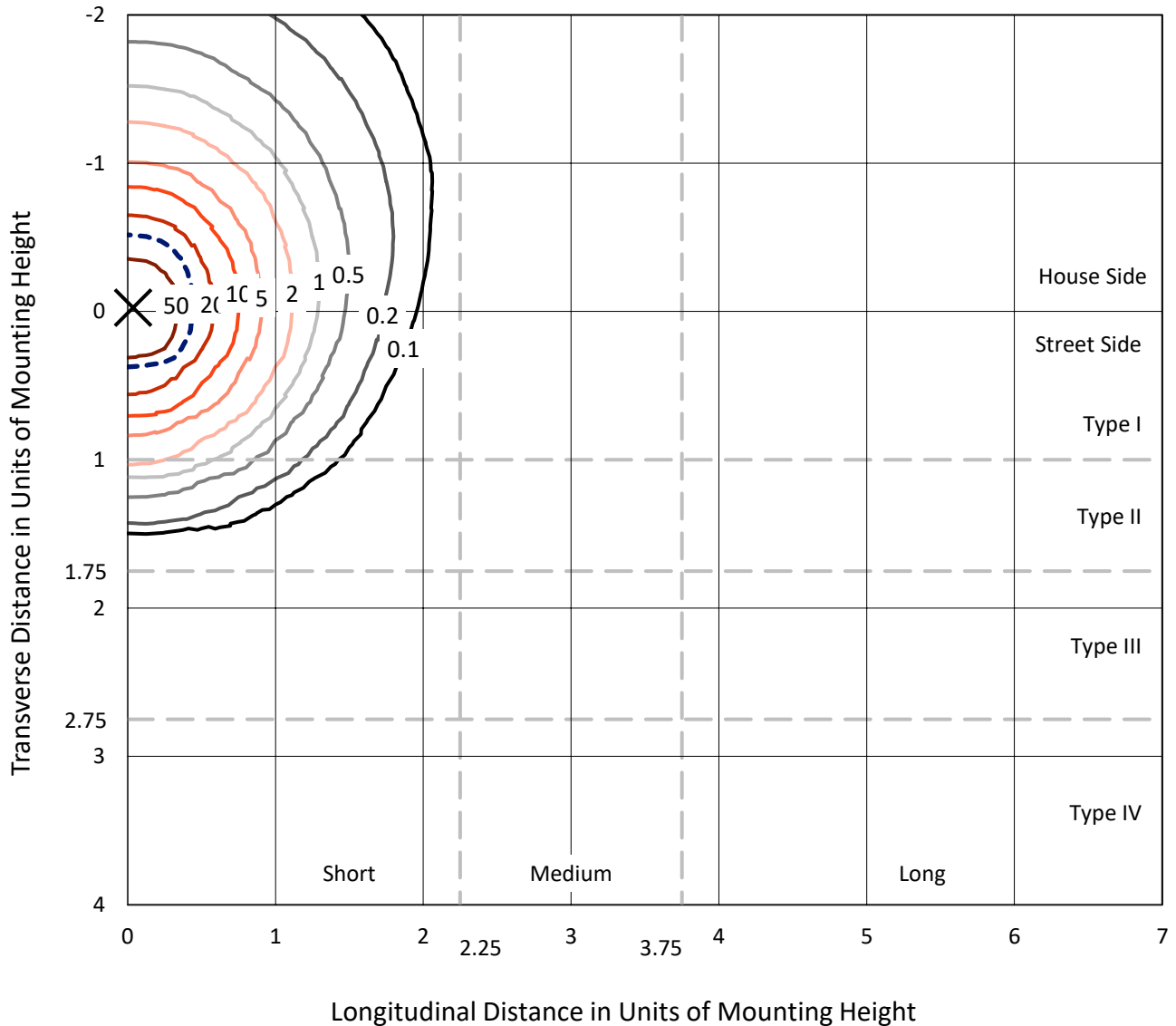
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637951
 CATALOG NUMBER: IFLD-L-SA8A-750-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

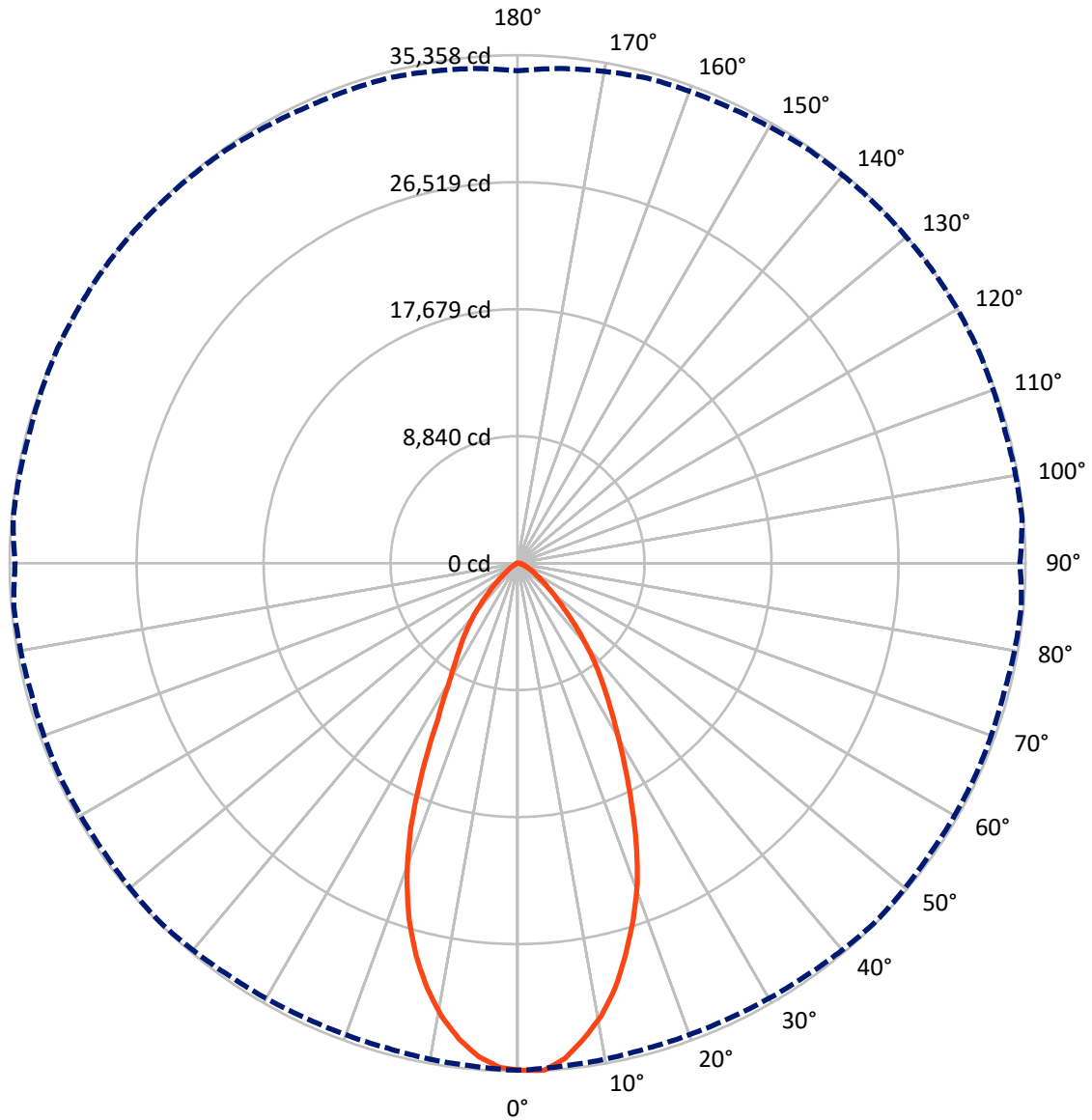
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.3 fc
 Type I - Short - N/A

REPORT NUMBER: P637951
CATALOG NUMBER: IFLD-L-SA8A-750-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637951

CATALOG NUMBER: IFLD-L-SA8A-750-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16766.0	0.0	16766.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12780.8	0.0	12780.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	29546.8	0.0	29546.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3205.5	10.8
10°-20°	7641.2	25.9
20°-30°	7782.4	26.3
30°-40°	5803.3	19.6
40°-50°	3031.8	10.3
50°-60°	1275.2	4.3
60°-70°	520.8	1.8
70°-80°	219.2	0.7
80°-90°	67.5	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°	29546.8	100.0
0°-180°	29546.8	100.0



REPORT NUMBER: P637951

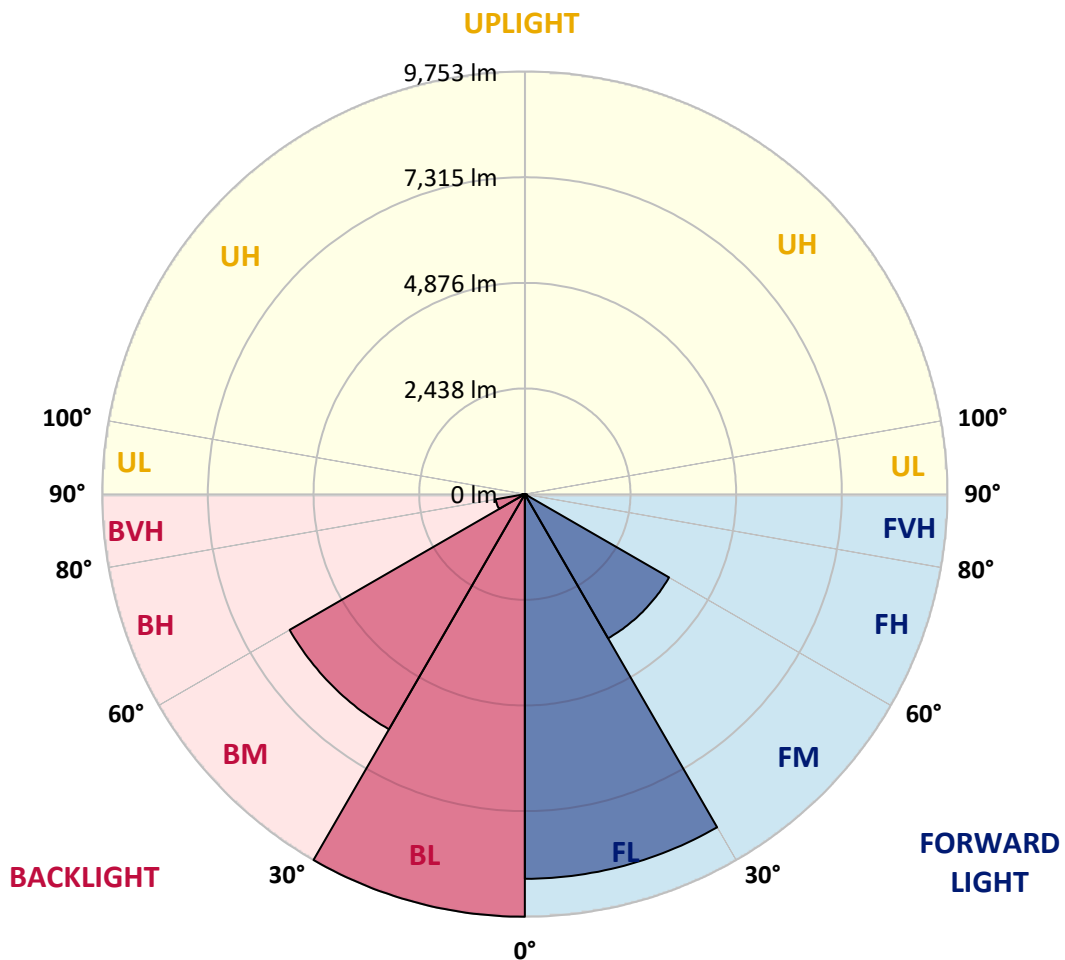
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8876.2	30.0			
FM (30°-60°)	3842.7	13.0			
FH (60°-80°)	55.6	0.2			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	9752.8	33.0	B5		
BM (30°-60°)	6267.6	21.2	B4/8500		
BH (60°-80°)	684.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	61.3	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





REPORT NUMBER: P637951
 CATALOG NUMBER: IFLD-L-SA8A-750-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2
2.5°	35305.0	35160.8	34955.8	34936.9	35043.1	35274.6	35126.6	35134.2	35043.1	35198.7
5°	34750.9	34614.2	34473.8	34287.8	34443.5	34542.1	34466.2	34382.7	34265.1	34416.9
7.5°	33703.3	33627.4	33418.7	33335.2	33430.1	33540.1	33376.9	33354.2	33191.0	33388.3
10°	32101.7	32071.3	31866.4	31817.0	31900.5	32067.5	31995.4	31980.2	31877.7	31858.8
12.5°	30439.3	30321.6	30067.3	30052.1	30177.4	30427.9	30234.3	30048.4	30105.3	30154.6
15°	26158.0	26032.8	26662.8	27653.4	28173.4	28154.4	28211.4	27987.4	27919.1	27941.9
17.5°	20795.1	20582.6	20810.3	22343.6	24814.5	26249.1	25854.4	25372.4	25114.3	24943.5
20°	17948.5	17959.9	17918.2	18312.9	19853.9	23125.5	23030.6	22100.7	21762.9	21622.5
22.5°	16217.8	16153.3	16062.2	16187.5	16601.2	18521.7	19808.3	18954.3	18836.7	18681.1
25°	14521.3	14521.3	14411.2	14536.5	14654.1	14680.7	15971.1	16320.3	16092.6	16092.6
27.5°	13052.5	12976.5	12927.2	12984.1	12828.5	12080.8	12244.0	14031.7	13876.1	13781.2
30°	11595.0	11572.2	11488.7	11564.6	10987.7	10145.2	9803.6	11841.7	12004.9	11970.8
32.5°	9572.1	9663.1	10035.1	10152.8	9165.9	8486.6	8160.2	9830.1	10483.0	10456.4
35°	6505.4	6581.3	7006.3	8410.7	7598.4	7112.6	7017.7	7818.6	8892.7	8995.1
37.5°	5180.8	5169.4	5290.8	5541.3	6106.8	5989.2	5962.6	6171.4	7253.1	7298.6
40°	4269.8	4254.7	4250.9	4045.9	3905.5	4979.6	4907.5	4782.2	5719.7	5810.8
42.5°	3442.4	3457.6	3469.0	3021.2	2816.2	3841.0	3799.2	3670.2	4486.2	4592.5
45°	2702.3	2698.5	2721.3	2250.7	2193.8	2455.6	2839.0	2736.5	3385.5	3499.4
47.5°	1400.5	1449.9	1757.3	1742.1	1768.7	1742.1	2148.2	2121.6	2546.7	2728.9
50°	941.3	956.4	983.0	986.8	1392.9	1282.9	1457.4	1651.0	1783.8	2064.7
52.5°	728.7	740.1	671.8	630.0	854.0	948.9	956.4	1142.4	1244.9	1529.6
55°	406.1	455.5	489.6	493.4	470.6	702.2	698.4	846.4	926.1	1115.9
57.5°	53.1	64.5	98.7	318.8	315.0	390.9	489.6	614.9	660.4	816.0
60°	3.8	7.6	11.4	49.3	208.7	227.7	334.0	383.3	459.2	573.1
62.5°	0.0	0.0	3.8	11.4	41.7	132.8	174.6	201.2	269.5	375.7
65°	0.0	0.0	3.8	7.6	15.2	49.3	68.3	110.1	159.4	231.5
67.5°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	49.3	83.5	140.4
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.8	30.4	45.5	75.9
72.5°	0.0	0.0	3.8	3.8	7.6	19.0	19.0	22.8	30.4	41.7
75°	0.0	0.0	3.8	7.6	11.4	19.0	19.0	19.0	22.8	26.6
77.5°	0.0	0.0	3.8	7.6	11.4	19.0	15.2	19.0	19.0	19.0
80°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	19.0	15.2	15.2
82.5°	0.0	0.0	3.8	11.4	11.4	26.6	26.6	26.6	11.4	11.4
85°	0.0	0.0	7.6	11.4	19.0	30.4	30.4	22.8	11.4	7.6
87.5°	0.0	0.0	3.8	7.6	7.6	15.2	22.8	19.0	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



REPORT NUMBER: P637951

CATALOG NUMBER: IFLD-L-SA8A-750-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35301.2	0°	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2	35301.2
34971.0	2.5°	35251.9	35157.0	35335.4	35358.1	35282.2	35187.4	34967.2	34948.2	34564.9
34196.7	5°	34583.9	34428.3	34542.1	34618.0	34591.5	34489.0	34397.9	34314.4	33969.0
32940.5	7.5°	33339.0	33282.1	33335.2	33392.1	33502.2	33392.1	33354.2	33266.9	32925.3
31703.2	10°	31957.5	31851.2	32052.3	32025.8	31995.4	31965.0	31805.6	31820.8	31418.5
30018.0	12.5°	30260.9	30082.5	30276.1	30298.9	30276.1	30169.8	29991.4	30067.3	29699.2
27740.7	15°	27979.8	27960.9	28101.3	28192.4	28256.9	28143.1	28082.3	28120.3	27900.1
24810.7	17.5°	25178.8	25425.5	25884.8	26040.4	26044.2	26161.8	26127.7	26082.1	25918.9
21565.6	20°	21884.4	22358.8	23064.8	23789.7	23998.5	23899.8	23854.2	23937.7	23694.8
18517.9	22.5°	18844.3	19250.4	20070.2	21129.1	21740.2	21800.9	21789.5	21717.4	21622.5
16077.4	25°	16263.4	16623.9	17409.6	18377.4	19550.2	19724.8	19732.4	19709.6	19626.1
13864.7	27.5°	14084.8	14521.3	14954.0	15819.3	17068.0	17789.1	17698.1	17671.5	17641.1
11997.3	30°	12111.2	12661.5	13067.6	13606.6	14726.2	15701.7	15796.5	15751.0	15678.9
10452.6	32.5°	10547.5	10873.9	11390.1	11754.4	12559.1	13663.5	14027.9	13993.7	13929.2
9059.7	35°	9188.7	9317.8	9723.9	10130.0	10665.1	11735.4	12274.4	12198.5	12187.1
7382.1	37.5°	7568.1	8000.7	8224.7	8634.6	9010.3	9841.5	10585.4	10551.3	10555.1
5936.0	40°	6110.6	6361.1	6805.2	7150.6	7496.0	8103.2	8930.6	8953.4	8945.8
4596.3	42.5°	4691.1	4934.0	5400.9	5776.6	6084.1	6459.8	7249.3	7275.8	7310.0
3579.1	45°	3662.6	3818.2	4159.8	4550.7	4877.1	5104.8	5704.5	5875.3	5879.1
2774.5	47.5°	2842.8	3021.2	3264.1	3639.8	3958.6	4121.8	4558.3	4789.8	4778.4
2129.2	50°	2231.7	2394.9	2592.3	2888.3	3233.7	3362.7	3685.4	3913.1	3901.7
1605.5	52.5°	1707.9	1916.7	2091.3	2319.0	2656.8	2766.9	2998.4	3260.3	3222.3
1176.6	55°	1294.2	1506.8	1670.0	1859.8	2167.2	2307.6	2467.0	2675.8	2683.4
910.9	57.5°	975.4	1195.6	1343.6	1537.1	1768.7	1924.3	2045.7	2269.7	2265.9
622.4	60°	698.4	888.1	1066.5	1267.7	1446.1	1624.4	1707.9	1920.5	1928.1
440.3	62.5°	504.8	683.2	854.0	1028.6	1188.0	1362.6	1438.5	1605.5	1628.2
288.5	65°	353.0	478.2	675.6	808.4	986.8	1115.9	1214.5	1358.8	1385.3
170.8	67.5°	227.7	345.4	535.2	652.8	816.0	926.1	1028.6	1142.4	1176.6
110.1	70°	136.6	261.9	398.5	523.8	671.8	770.5	869.2	967.8	986.8
53.1	72.5°	87.3	182.2	288.5	425.1	538.9	645.2	732.5	804.6	747.7
34.2	75°	49.3	125.2	227.7	334.0	436.5	538.9	611.1	649.0	520.0
22.8	77.5°	30.4	91.1	186.0	269.5	337.8	432.7	478.2	501.0	372.0
15.2	80°	19.0	68.3	155.6	220.1	220.1	318.8	372.0	390.9	269.5
11.4	82.5°	15.2	49.3	121.5	167.0	148.0	239.1	292.2	296.0	189.8
7.6	85°	11.4	38.0	75.9	110.1	102.5	167.0	170.8	189.8	125.2
7.6	87.5°	7.6	22.8	45.5	64.5	56.9	79.7	91.1	102.5	68.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35301.2
34265.1
33692.0
32853.2
31281.9
29592.9
27634.5
25676.0
23520.2
21440.3
19345.3
17462.7
15587.8
13758.4
12061.9
10433.6
8813.0
7196.1
5780.4
4736.7
3901.7
3226.1
2683.4
2258.3
1909.1
1620.6
1377.7
1172.8
971.6
694.6
493.4
349.2
250.5
174.6
113.9
60.7
0.0

(END OF REPORT)