

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: P638006

Luminaire Tested: **IFLD-L-SA7C-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638006
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27478.3 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

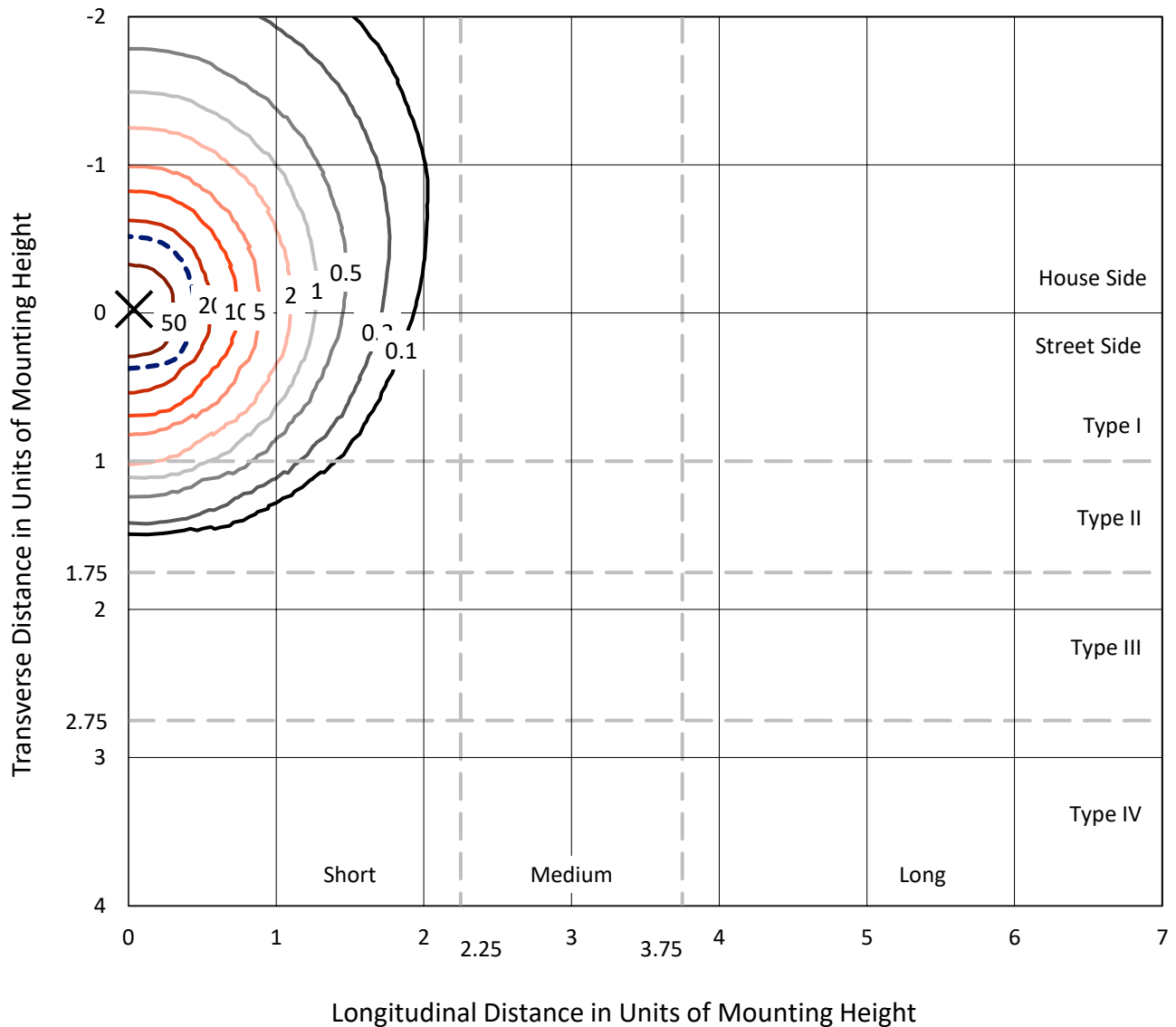
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

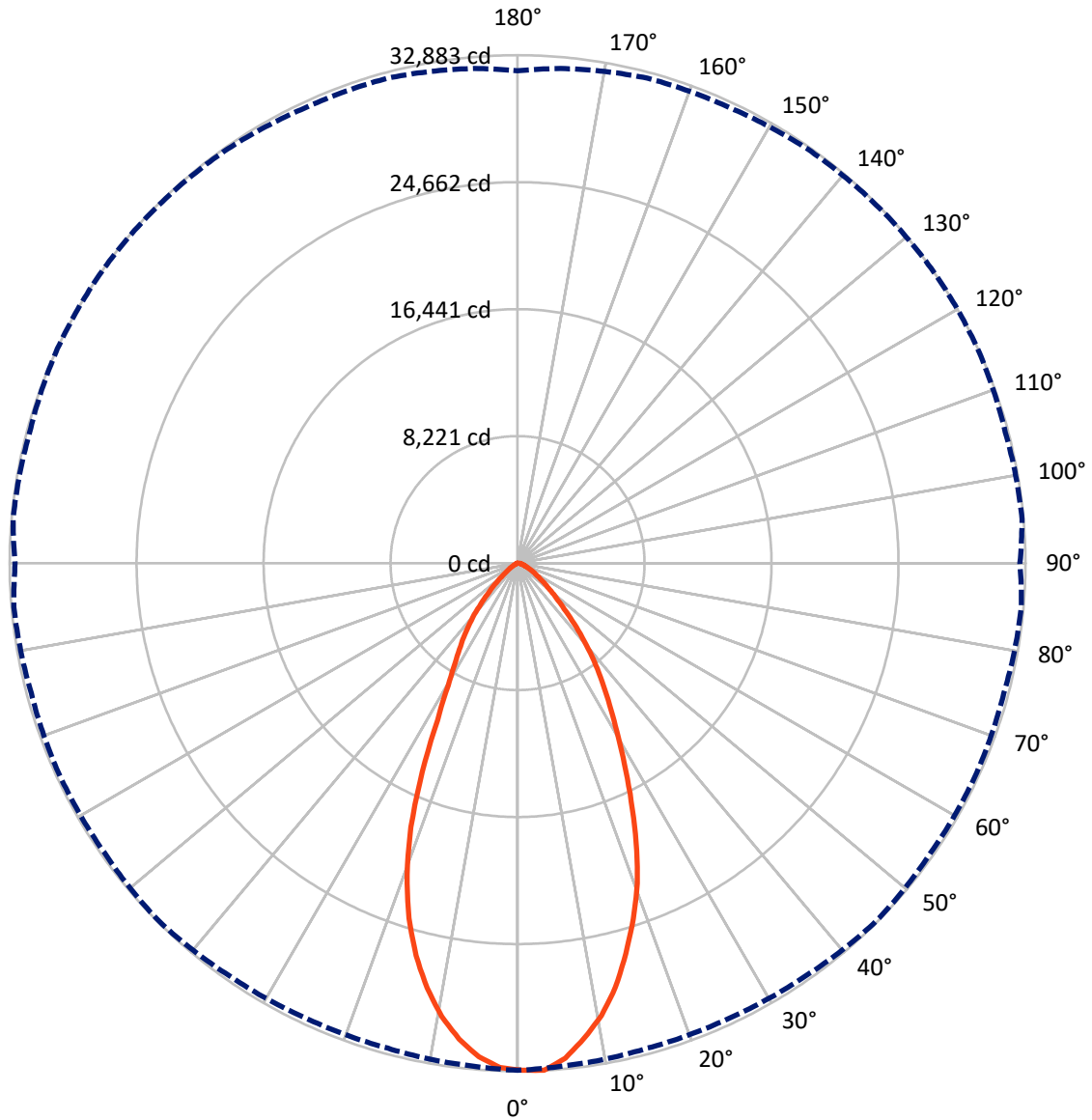
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 82.1 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	15592.3	0.0	15592.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11886.0	0.0	11886.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	27478.3	0.0	27478.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2981.1	10.8
10°-20°	7106.2	25.9
20°-30°	7237.6	26.3
30°-40°	5397.0	19.6
40°-50°	2819.5	10.3
50°-60°	1185.9	4.3
60°-70°	484.3	1.8
70°-80°	203.8	0.7
80°-90°	62.8	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°	27478.3	100.0
0°-180°	27478.3	100.0



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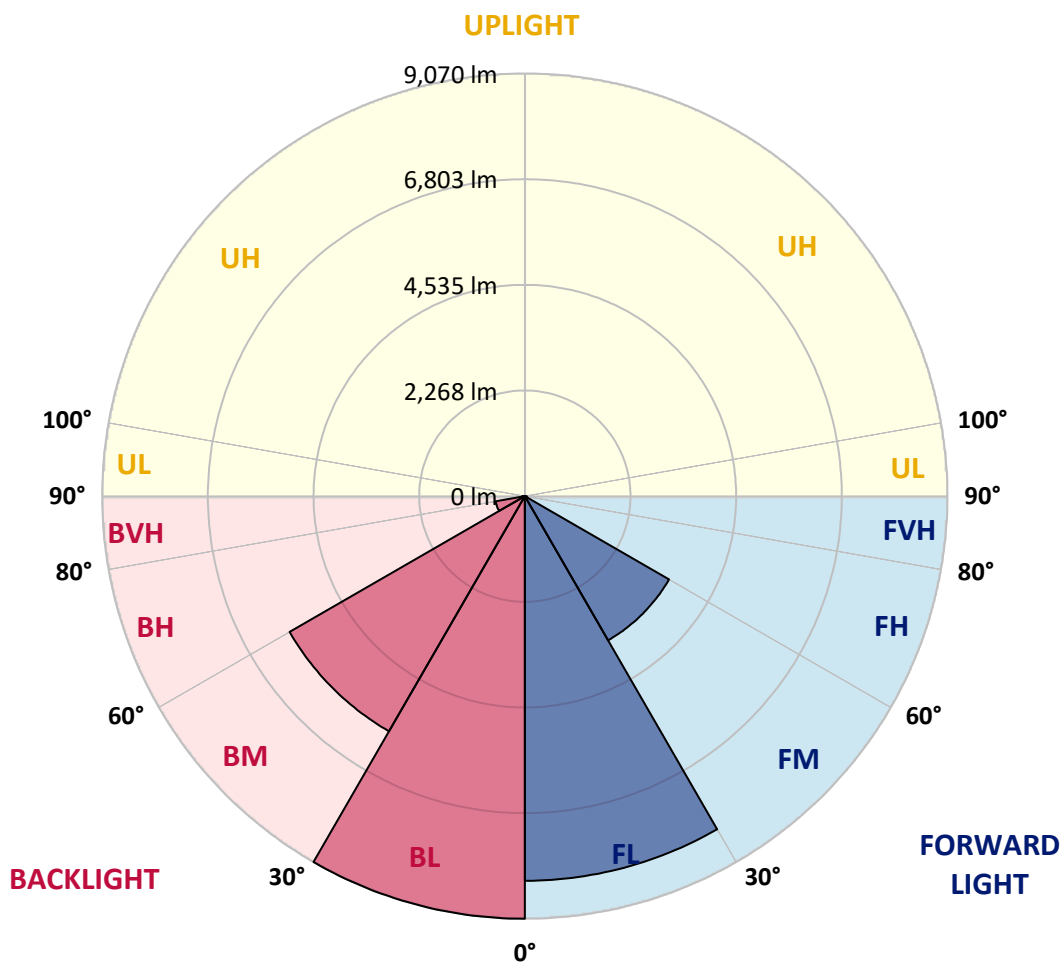
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8254.8	30.0			
FM (30°-60°)	3573.7	13.0			
FH (60°-80°)	51.7	0.2			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	9070.0	33.0	B5		
BM (30°-60°)	5828.8	21.2	B4/8500		
BH (60°-80°)	636.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	57.0	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9
2.5°	32833.4	32699.3	32508.7	32491.0	32589.9	32805.2	32667.5	32674.6	32589.9	32734.6
5°	32318.1	32191.0	32060.4	31887.5	32032.2	32123.9	32053.3	31975.7	31866.3	32007.5
7.5°	31343.9	31273.3	31079.1	31001.5	31089.7	31192.1	31040.3	31019.1	30867.4	31050.9
10°	29854.3	29826.1	29635.5	29589.6	29667.3	29822.6	29755.5	29741.4	29646.1	29628.4
12.5°	28308.3	28198.9	27962.4	27948.3	28064.8	28297.7	28117.7	27944.8	27997.7	28043.6
15°	24326.8	24210.3	24796.3	25717.5	26201.1	26183.4	26236.4	26028.1	25964.6	25985.8
17.5°	19339.3	19141.6	19353.4	20779.4	23077.3	24411.5	24044.4	23596.1	23356.1	23197.3
20°	16692.0	16702.6	16663.8	17030.9	18463.9	21506.6	21418.3	20553.5	20239.4	20108.8
22.5°	15082.5	15022.5	14937.8	15054.2	15439.0	17225.0	18421.6	17627.4	17518.0	17373.3
25°	13504.7	13504.7	13402.3	13518.8	13628.2	13652.9	14853.0	15177.8	14966.0	14966.0
27.5°	12138.7	12068.1	12022.2	12075.2	11930.4	11235.1	11386.9	13049.4	12904.6	12816.4
30°	10783.3	10762.1	10684.4	10755.0	10218.5	9434.9	9117.3	11012.7	11164.5	11132.7
32.5°	8901.9	8986.7	9332.6	9442.0	8524.3	7892.4	7588.9	9142.0	9749.1	9724.4
35°	6049.9	6120.5	6515.9	7821.8	7066.5	6614.7	6526.4	7271.2	8270.1	8365.4
37.5°	4818.1	4807.5	4920.4	5153.4	5679.3	5569.9	5545.2	5739.3	6745.3	6787.6
40°	3970.9	3956.8	3953.3	3762.7	3632.1	4631.0	4563.9	4447.4	5319.3	5404.0
42.5°	3201.5	3215.6	3226.2	2809.7	2619.0	3572.1	3533.2	3413.2	4172.1	4271.0
45°	2513.2	2509.6	2530.8	2093.1	2040.2	2283.7	2640.2	2544.9	3148.5	3254.4
47.5°	1302.5	1348.4	1634.3	1620.1	1644.8	1620.1	1997.8	1973.1	2368.4	2537.9
50°	875.4	889.5	914.2	917.7	1295.4	1193.0	1355.4	1535.4	1659.0	1920.2
52.5°	677.7	688.3	624.8	585.9	794.2	882.4	889.5	1062.4	1157.7	1422.5
55°	377.7	423.6	455.3	458.9	437.7	653.0	649.5	787.1	861.3	1037.7
57.5°	49.4	60.0	91.8	296.5	293.0	363.6	455.3	571.8	614.2	758.9
60°	3.5	7.1	10.6	45.9	194.1	211.8	310.6	356.5	427.1	533.0
62.5°	0.0	0.0	3.5	10.6	38.8	123.5	162.4	187.1	250.6	349.4
65°	0.0	0.0	3.5	7.1	14.1	45.9	63.5	102.4	148.2	215.3
67.5°	0.0	0.0	3.5	7.1	10.6	17.6	28.2	45.9	77.7	130.6
70°	0.0	0.0	3.5	7.1	10.6	14.1	21.2	28.2	42.4	70.6
72.5°	0.0	0.0	3.5	3.5	7.1	17.6	17.6	21.2	28.2	38.8
75°	0.0	0.0	3.5	7.1	10.6	17.6	17.6	17.6	21.2	24.7
77.5°	0.0	0.0	3.5	7.1	10.6	17.6	14.1	17.6	17.6	17.6
80°	0.0	0.0	3.5	7.1	10.6	17.6	21.2	17.6	14.1	14.1
82.5°	0.0	0.0	3.5	10.6	10.6	24.7	24.7	24.7	10.6	10.6
85°	0.0	0.0	7.1	10.6	17.6	28.2	28.2	21.2	10.6	7.1
87.5°	0.0	0.0	3.5	7.1	7.1	14.1	21.2	17.6	7.1	3.5
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°
32829.9	0°	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9	32829.9
32522.8	2.5°	32784.0	32695.8	32861.7	32882.8	32812.2	32724.0	32519.3	32501.6	32145.1
31802.7	5°	32162.8	32018.1	32123.9	32194.5	32169.8	32074.5	31989.8	31912.2	31591.0
30634.4	7.5°	31005.0	30952.1	31001.5	31054.4	31156.8	31054.4	31019.1	30938.0	30620.3
29483.7	10°	29720.2	29621.4	29808.4	29783.7	29755.5	29727.3	29579.0	29593.1	29219.0
27916.5	12.5°	28142.4	27976.5	28156.5	28177.7	28156.5	28057.7	27891.8	27962.4	27620.0
25798.7	15°	26021.1	26003.4	26134.0	26218.7	26278.7	26172.8	26116.4	26151.7	25946.9
23073.8	17.5°	23416.1	23645.6	24072.7	24217.4	24220.9	24330.3	24298.6	24256.2	24104.4
20055.8	20°	20352.3	20793.6	21450.1	22124.3	22318.4	22226.6	22184.3	22261.9	22036.0
17221.5	22.5°	17525.0	17902.7	18665.1	19649.9	20218.2	20274.7	20264.1	20197.0	20108.8
14951.9	25°	15124.8	15460.2	16190.8	17090.9	18181.6	18343.9	18351.0	18329.8	18252.2
12894.1	27.5°	13098.8	13504.7	13907.1	14711.9	15873.1	16543.8	16459.1	16434.4	16406.1
11157.4	30°	11263.3	11775.1	12152.8	12654.0	13695.3	14602.4	14690.7	14648.3	14581.3
9720.8	32.5°	9809.1	10112.6	10592.7	10931.5	11679.8	12707.0	13045.8	13014.1	12954.1
8425.4	35°	8545.4	8665.5	9043.1	9420.8	9918.5	10913.9	11415.1	11344.5	11333.9
6865.3	37.5°	7038.3	7440.6	7648.9	8030.1	8379.5	9152.6	9844.4	9812.6	9816.1
5520.5	40°	5682.8	5915.8	6328.8	6650.0	6971.2	7535.9	8305.4	8326.6	8319.5
4274.5	42.5°	4362.7	4588.6	5022.8	5372.2	5658.1	6007.6	6741.8	6766.5	6798.2
3328.5	45°	3406.2	3550.9	3868.6	4232.1	4535.7	4747.5	5305.2	5464.0	5467.5
2580.2	47.5°	2643.8	2809.7	3035.6	3385.0	3681.5	3833.3	4239.2	4454.5	4443.9
1980.2	50°	2075.5	2227.3	2410.8	2686.1	3007.3	3127.3	3427.4	3639.1	3628.5
1493.1	52.5°	1588.4	1782.5	1944.9	2156.7	2470.8	2573.2	2788.5	3032.0	2996.7
1094.2	55°	1203.6	1401.3	1553.1	1729.6	2015.5	2146.1	2294.3	2488.4	2495.5
847.1	57.5°	907.1	1111.9	1249.5	1429.5	1644.8	1789.6	1902.5	2110.8	2107.2
578.9	60°	649.5	826.0	991.9	1178.9	1344.8	1510.7	1588.4	1786.0	1793.1
409.4	62.5°	469.5	635.3	794.2	956.6	1104.8	1267.2	1337.8	1493.1	1514.2
268.3	65°	328.3	444.7	628.3	751.8	917.7	1037.7	1129.5	1263.6	1288.3
158.8	67.5°	211.8	321.2	497.7	607.1	758.9	861.3	956.6	1062.4	1094.2
102.4	70°	127.1	243.6	370.6	487.1	624.8	716.5	808.3	900.1	917.7
49.4	72.5°	81.2	169.4	268.3	395.3	501.2	600.1	681.2	748.3	695.4
31.8	75°	45.9	116.5	211.8	310.6	405.9	501.2	568.3	603.6	483.6
21.2	77.5°	28.2	84.7	173.0	250.6	314.1	402.4	444.7	465.9	345.9
14.1	80°	17.6	63.5	144.7	204.7	204.7	296.5	345.9	363.6	250.6
10.6	82.5°	14.1	45.9	113.0	155.3	137.7	222.4	271.8	275.3	176.5
7.1	85°	10.6	35.3	70.6	102.4	95.3	155.3	158.8	176.5	116.5
7.1	87.5°	7.1	21.2	42.4	60.0	52.9	74.1	84.7	95.3	63.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32829.9
31866.3
31333.3
30553.2
29091.9
27521.2
25699.9
23878.5
21873.6
19939.4
17991.0
16240.2
14496.5
12795.2
11217.4
9703.2
8196.0
6692.3
5375.8
4405.1
3628.5
3000.3
2495.5
2100.2
1775.4
1507.2
1281.3
1090.7
903.6
645.9
458.9
324.7
233.0
162.4
105.9
56.5
0.0

(END OF REPORT)