

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: P638127

Luminaire Tested: **IFLD-L-SA8C-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638127
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35486 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

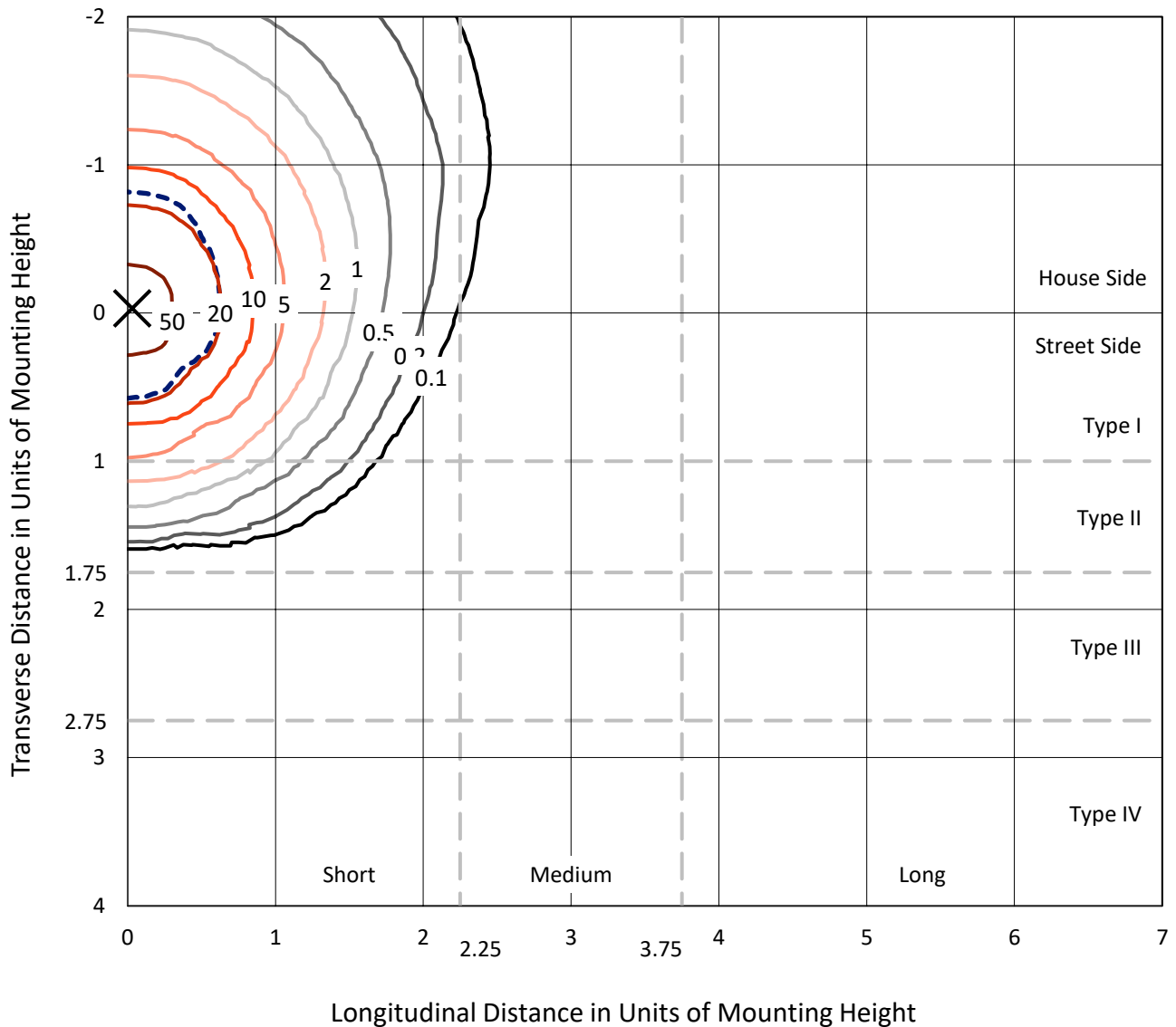
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

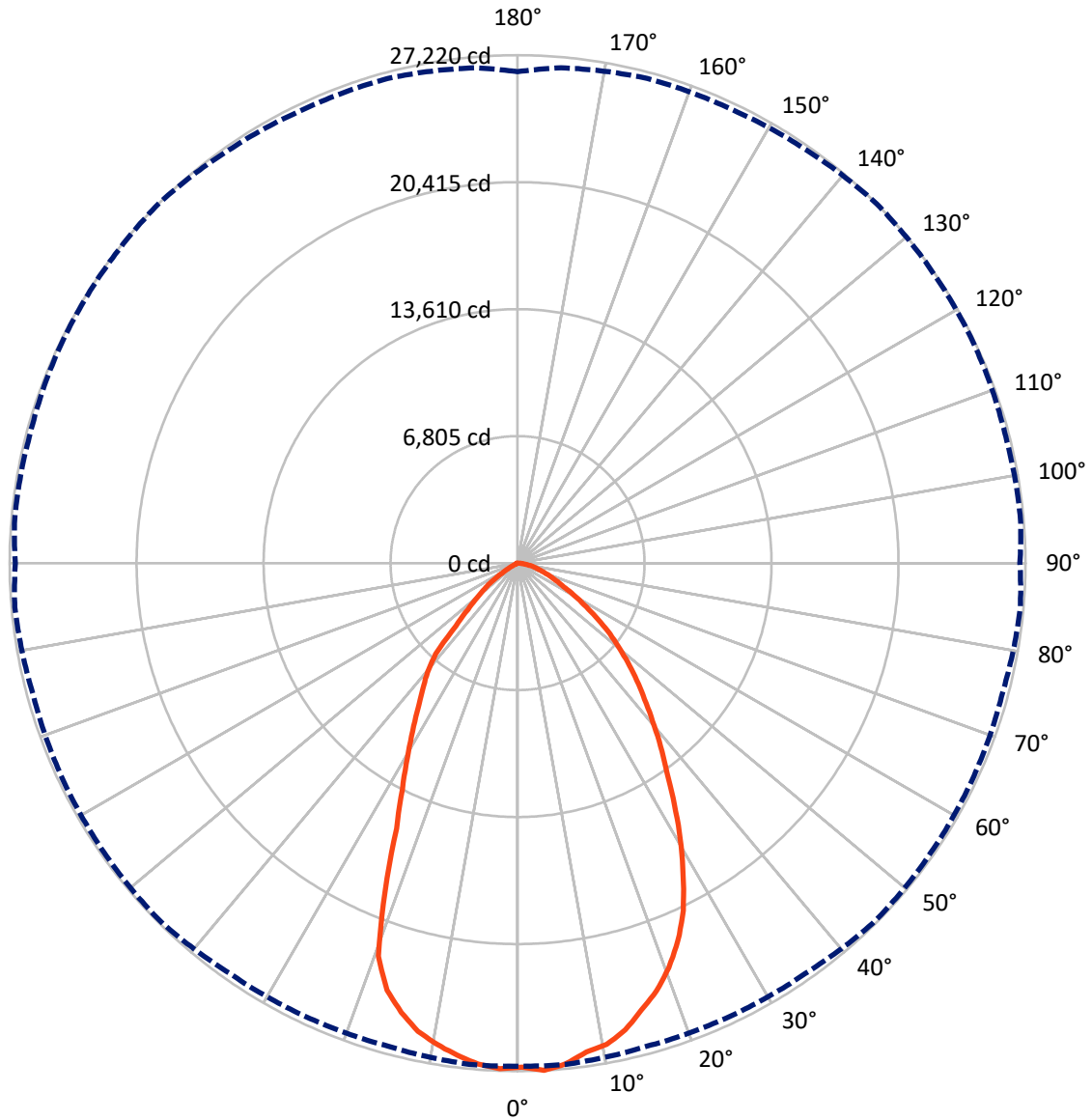
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21016.6	0.0	21016.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14469.4	0.0	14469.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	35486.0	0.0	35486.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2532.6	7.1
10°-20°	6791.4	19.1
20°-30°	8282.5	23.3
30°-40°	7561.8	21.3
40°-50°	5464.7	15.4
50°-60°	2983.8	8.4
60°-70°	1233.7	3.5
70°-80°	499.7	1.4
80°-90°	135.9	0.4
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°	35486.0	100.0
0°-180°	35486.0	100.0



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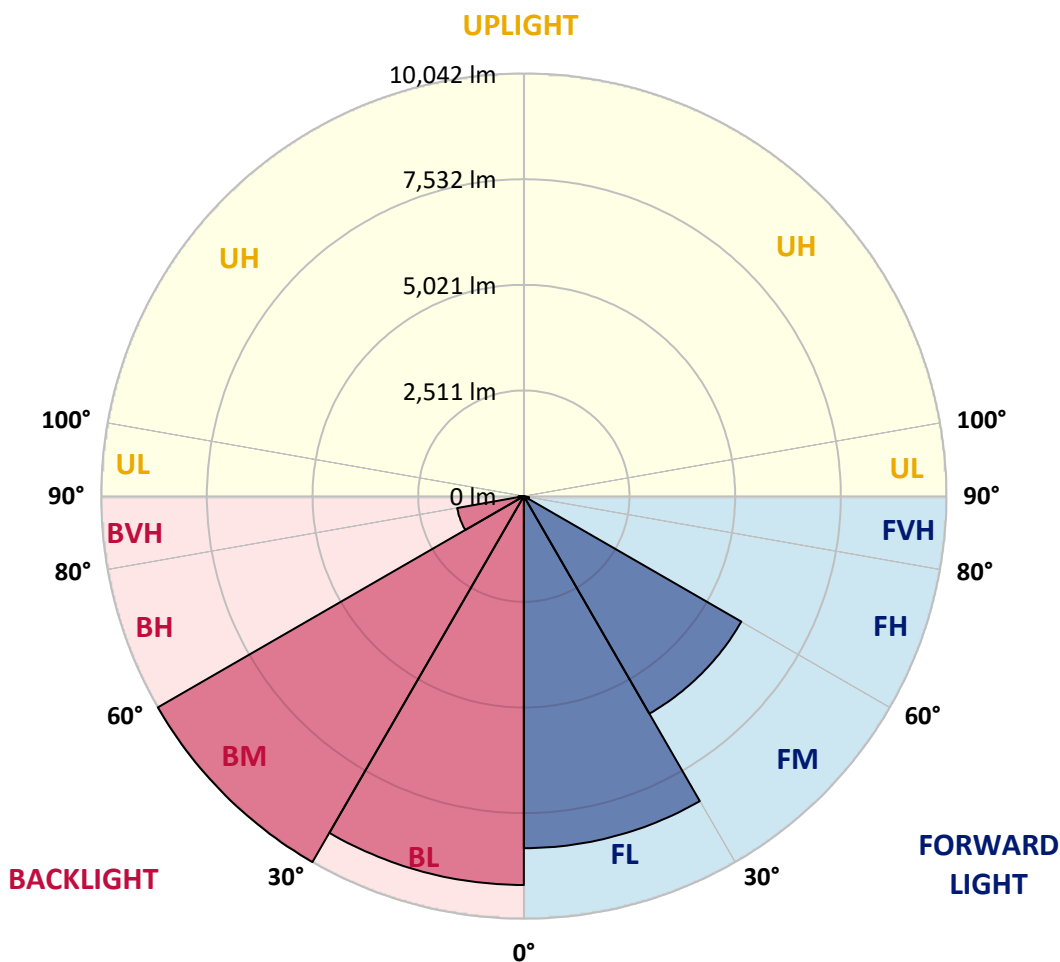
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8365.4	23.6			
FM (30°-60°)	5968.1	16.8			
FH (60°-80°)	125.1	0.4			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	9241.1	26.0	B5		
BM (30°-60°)	10042.2	28.3	B5		
BH (60°-80°)	1608.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	125.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8
2.5°	26954.8	26989.8	26799.9	26819.9	26854.8	27109.7	27044.7	26984.8	26899.8	27044.7
5°	26919.8	26939.8	26739.9	26669.9	26699.9	26929.8	26719.9	26719.9	26699.9	26674.9
7.5°	26650.0	26659.9	26505.0	26380.1	26460.1	26565.0	26410.1	26485.0	26375.1	26460.1
10°	26245.2	26180.2	25995.3	25960.3	26050.3	26150.2	26045.3	26115.3	26015.3	26080.3
12.5°	25650.5	25550.6	25400.7	25355.7	25510.6	25645.5	25560.6	25520.6	25390.7	25550.6
15°	23356.8	23281.9	23621.7	24216.3	24751.0	24866.0	24776.0	24816.0	24546.1	24591.1
17.5°	19224.1	19084.2	19449.0	20858.2	22867.1	23926.5	23846.5	23586.7	23186.9	23276.9
20°	17470.1	17430.2	17390.2	17725.0	19129.2	22342.4	22452.3	21792.7	21223.0	21098.1
22.5°	16480.7	16465.7	16425.7	16500.7	16870.5	18934.3	20193.6	19583.9	19204.2	19169.2
25°	15576.2	15551.2	15431.3	15526.2	15526.2	15646.2	17260.3	17630.0	17295.2	17255.3
27.5°	14656.7	14611.7	14591.8	14636.7	14406.9	13597.3	14007.1	15811.1	15636.2	15646.2
30°	13662.3	13647.3	13592.3	13687.3	12977.7	11973.2	11713.4	14162.0	14197.0	14187.0
32.5°	12183.1	12248.1	12497.9	12602.9	11433.5	10604.0	10169.3	12253.1	12967.7	12952.7
35°	8850.0	8850.0	9664.5	11178.7	10019.3	9394.7	9159.8	10389.1	11753.4	11803.3
37.5°	7275.9	7300.9	7460.8	8150.4	8645.1	8425.2	8355.3	8745.1	10194.2	10274.2
40°	6546.3	6546.3	6546.3	6261.5	6246.5	7590.7	7550.7	7425.8	8805.0	8979.9
42.5°	5881.7	5896.7	5906.7	5187.1	4787.3	6561.3	6471.3	6281.5	7560.7	7765.6
45°	5197.1	5222.1	5252.0	4337.6	4162.6	4722.3	5476.9	5267.0	6331.4	6596.3
47.5°	3173.2	3213.2	3892.8	3677.9	3697.9	3642.9	4467.5	4432.5	5192.1	5566.9
50°	2143.8	2158.8	2223.7	2333.7	3173.2	2863.4	3163.2	3667.9	3942.8	4512.5
52.5°	1799.0	1824.0	1664.1	1514.1	2083.8	2238.7	2208.8	2723.5	2833.4	3538.0
55°	1264.3	1344.2	1269.3	1254.3	1184.3	1739.0	1674.1	2093.8	2163.8	2688.5
57.5°	129.9	149.9	259.9	934.5	774.6	984.4	1194.3	1534.1	1604.1	1983.9
60°	10.0	10.0	25.0	129.9	564.7	589.7	824.5	944.5	1079.4	1384.2
62.5°	0.0	5.0	10.0	20.0	89.9	314.8	414.8	494.7	649.6	894.5
65°	0.0	0.0	5.0	15.0	20.0	119.9	159.9	259.9	354.8	554.7
67.5°	0.0	0.0	5.0	10.0	15.0	30.0	55.0	94.9	189.9	314.8
70°	0.0	0.0	5.0	10.0	15.0	25.0	40.0	60.0	85.0	169.9
72.5°	0.0	0.0	5.0	5.0	10.0	25.0	30.0	40.0	60.0	85.0
75°	0.0	0.0	5.0	5.0	15.0	30.0	25.0	30.0	40.0	55.0
77.5°	0.0	0.0	5.0	10.0	15.0	30.0	25.0	30.0	30.0	35.0
80°	0.0	0.0	5.0	10.0	20.0	35.0	30.0	30.0	25.0	25.0
82.5°	0.0	0.0	5.0	15.0	20.0	45.0	45.0	40.0	20.0	15.0
85°	0.0	0.0	10.0	20.0	30.0	50.0	50.0	40.0	15.0	10.0
87.5°	0.0	0.0	10.0	15.0	25.0	35.0	50.0	40.0	15.0	5.0
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°
27004.8	0°	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8	27004.8
26919.8	2.5°	27054.7	27024.7	27124.7	27164.7	27219.6	27009.7	26879.8	26884.8	26645.0
26615.0	5°	26774.9	26779.9	26909.8	26899.8	26954.8	26839.8	26789.9	26704.9	26495.0
26230.2	7.5°	26420.1	26375.1	26500.0	26595.0	26455.1	26535.0	26420.1	26460.1	26335.1
25890.4	10°	26145.2	26040.3	26155.2	26220.2	26225.2	26145.2	26035.3	25930.4	25885.4
25360.7	12.5°	25535.6	25400.7	25595.5	25685.5	25670.5	25515.6	25390.7	25415.6	25270.7
24431.2	15°	24696.1	24701.1	24841.0	24925.9	24846.0	24811.0	24821.0	24761.0	24636.1
23146.9	17.5°	23411.8	23486.7	23856.5	24061.4	24106.4	24036.4	24001.4	23931.5	23806.6
21098.1	20°	21273.0	21722.7	22382.4	23017.0	23141.9	23121.9	22997.0	22967.0	22897.1
19069.2	22.5°	19394.0	19728.9	20493.4	21482.9	21992.6	22042.6	21892.6	21847.7	21772.7
17255.3	25°	17450.1	17809.9	18499.6	19573.9	20628.4	20843.2	20818.2	20683.3	20603.4
15646.2	27.5°	15811.1	16170.9	16795.5	17765.0	18894.3	19583.9	19648.9	19434.0	19429.0
14212.0	30°	14331.9	14826.6	15301.4	16090.9	17185.3	18219.7	18329.7	18179.7	18194.7
12897.7	32.5°	13172.6	13582.3	13987.1	14516.8	15426.3	16630.6	17060.4	16920.4	16865.5
11803.3	35°	11988.2	12268.1	12682.8	13167.6	13787.2	14981.5	15726.1	15621.2	15566.2
10324.2	37.5°	10639.0	11118.7	11418.6	11963.2	12448.0	13397.4	14446.8	14431.9	14316.9
9064.9	40°	9254.8	9759.5	10214.2	10763.9	11138.7	11893.3	13057.6	13052.6	13067.6
7760.6	42.5°	8000.5	8465.2	9014.9	9614.6	9974.4	10524.1	11773.4	11843.3	11928.3
6686.2	45°	6866.1	7285.9	7795.6	8525.2	8959.9	9274.8	10384.1	10704.0	10699.0
5726.8	47.5°	5846.7	6241.5	6671.2	7380.8	7935.5	8220.4	9139.8	9594.6	9564.6
4697.3	50°	4907.2	5257.0	5706.8	6221.5	6966.1	7215.9	7900.5	8500.2	8455.2
3742.9	52.5°	3947.8	4432.5	4812.3	5282.0	6066.6	6311.4	6841.1	7425.8	7390.8
2808.4	55°	3078.3	3548.0	4007.7	4412.5	5072.1	5436.9	5816.7	6416.4	6406.4
2198.8	57.5°	2328.7	2843.4	3278.1	3662.9	4187.6	4637.4	4942.2	5486.9	5556.9
1504.2	60°	1724.0	2118.8	2588.5	3018.3	3433.1	3897.8	4102.7	4637.4	4667.4
1029.4	62.5°	1174.3	1609.1	2068.8	2458.6	2768.4	3248.2	3433.1	3872.8	3927.8
659.6	65°	814.5	1094.4	1619.1	1898.9	2278.7	2688.5	2873.4	3223.2	3333.1
379.8	67.5°	539.7	779.6	1264.3	1519.1	1893.9	2173.8	2408.6	2693.5	2813.4
239.9	70°	294.8	574.7	904.5	1199.3	1524.1	1794.0	2023.9	2253.7	2358.7
109.9	72.5°	199.9	384.8	629.6	949.5	1229.3	1494.2	1699.0	1868.9	1873.9
65.0	75°	99.9	259.9	479.7	734.6	959.5	1219.3	1404.2	1504.2	1384.2
40.0	77.5°	60.0	189.9	389.8	589.7	779.6	984.4	1089.4	1144.4	949.5
30.0	80°	35.0	134.9	304.8	469.7	539.7	724.6	824.5	839.5	634.6
20.0	82.5°	25.0	99.9	239.9	344.8	329.8	509.7	619.7	599.7	404.8
15.0	85°	15.0	70.0	149.9	214.9	199.9	334.8	359.8	369.8	234.9
10.0	87.5°	10.0	40.0	80.0	114.9	94.9	144.9	144.9	174.9	114.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27004.8
26335.1
26445.1
26125.2
25685.5
25145.8
24511.2
23751.6
22737.2
21752.7
20518.4
19419.0
18119.8
16870.5
15491.3
14411.9
13067.6
11883.3
10709.0
9574.6
8495.2
7465.8
6431.4
5526.9
4712.3
3937.8
3308.1
2798.4
2318.7
1829.0
1294.3
914.5
594.7
374.8
214.9
99.9
0.0

(END OF REPORT)