

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: P638036

Luminaire Tested: **IFLD-L-SA7D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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: 32682.8 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

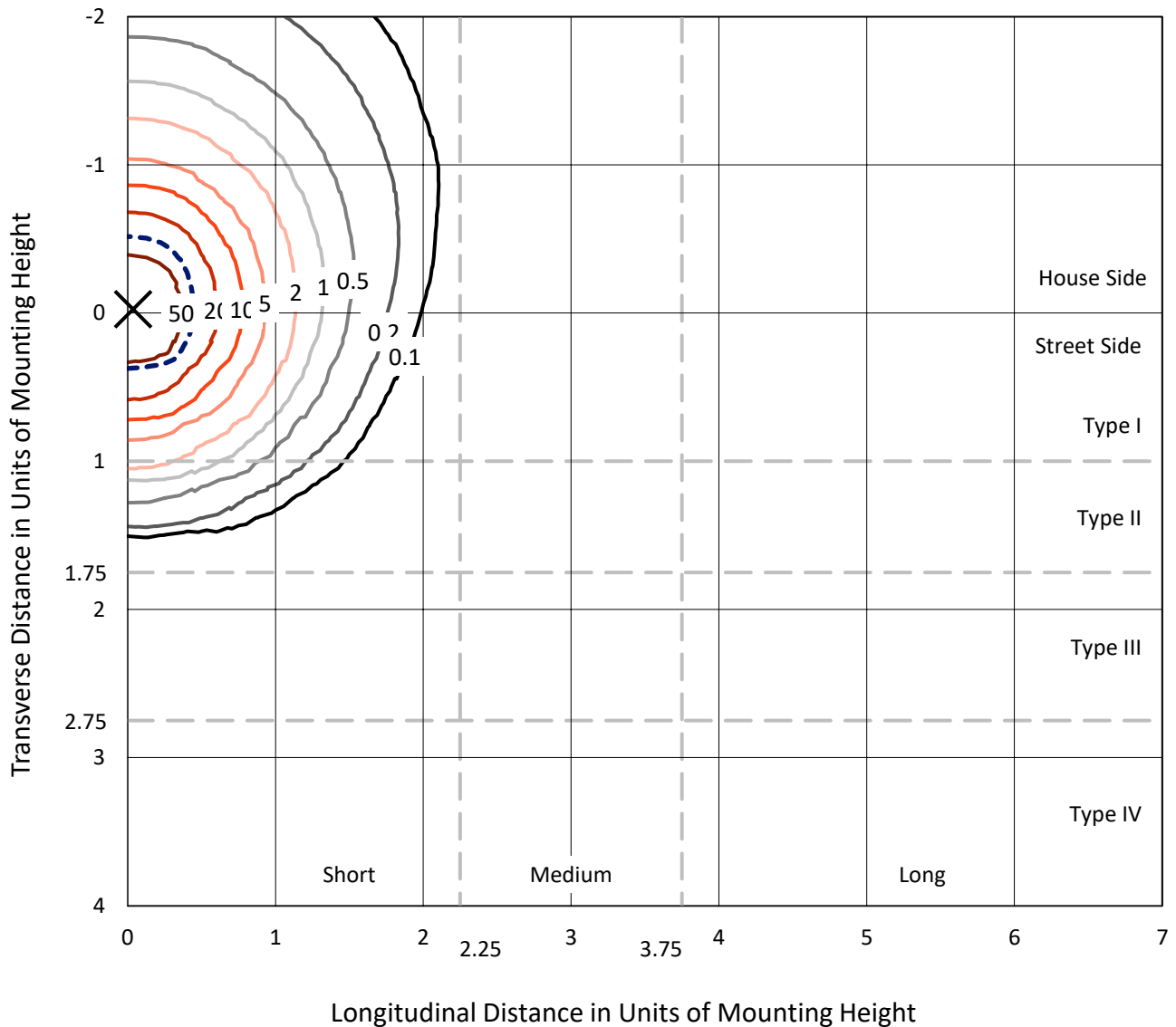
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

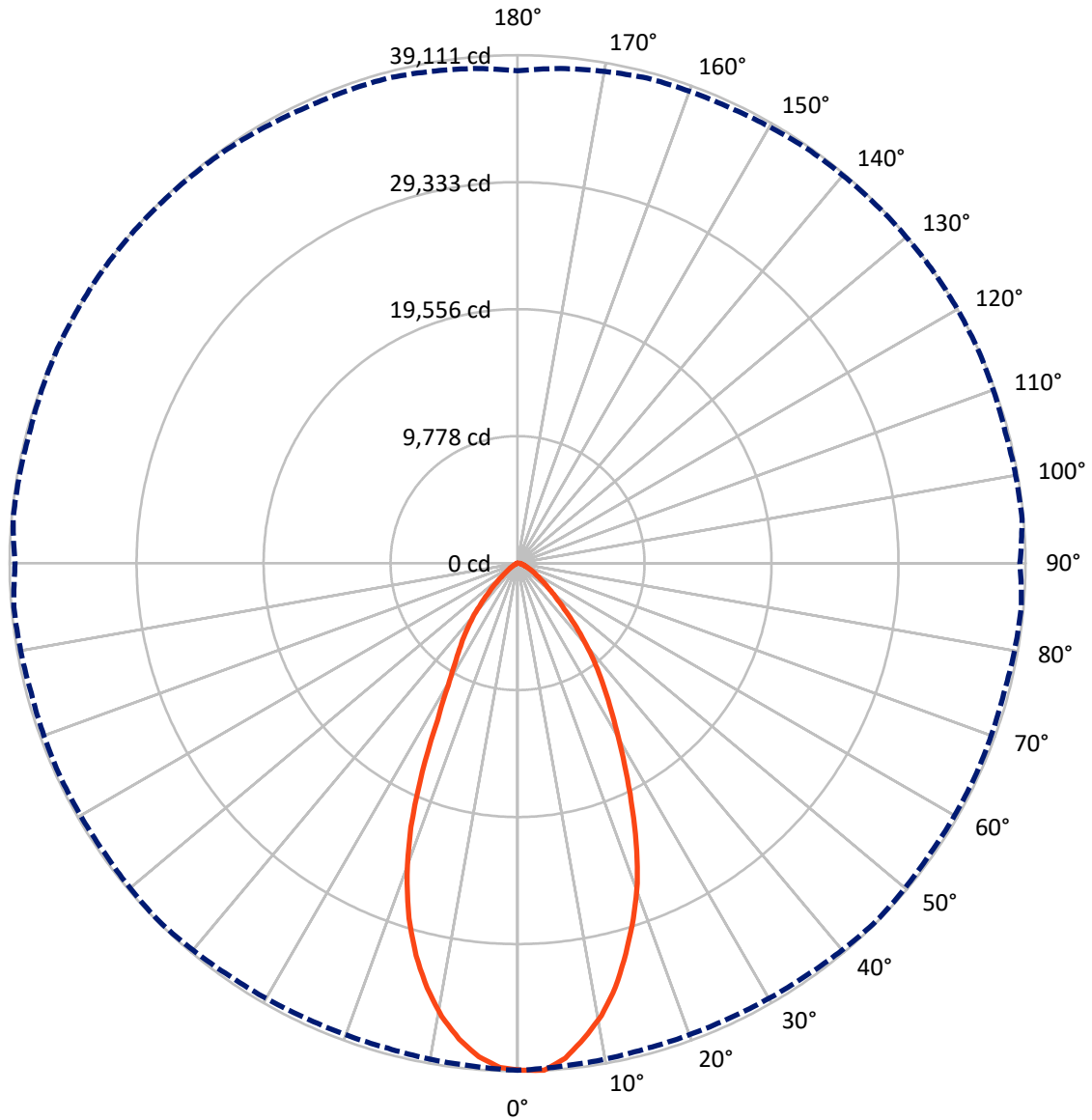
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 97.6 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	18545.5	0.0	18545.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14137.3	0.0	14137.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	32682.8	0.0	32682.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3545.7	10.8
10°-20°	8452.2	25.9
20°-30°	8608.4	26.3
30°-40°	6419.2	19.6
40°-50°	3353.6	10.3
50°-60°	1410.5	4.3
60°-70°	576.1	1.8
70°-80°	242.4	0.7
80°-90°	74.7	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°	32682.8	100.0
0°-180°	32682.8	100.0



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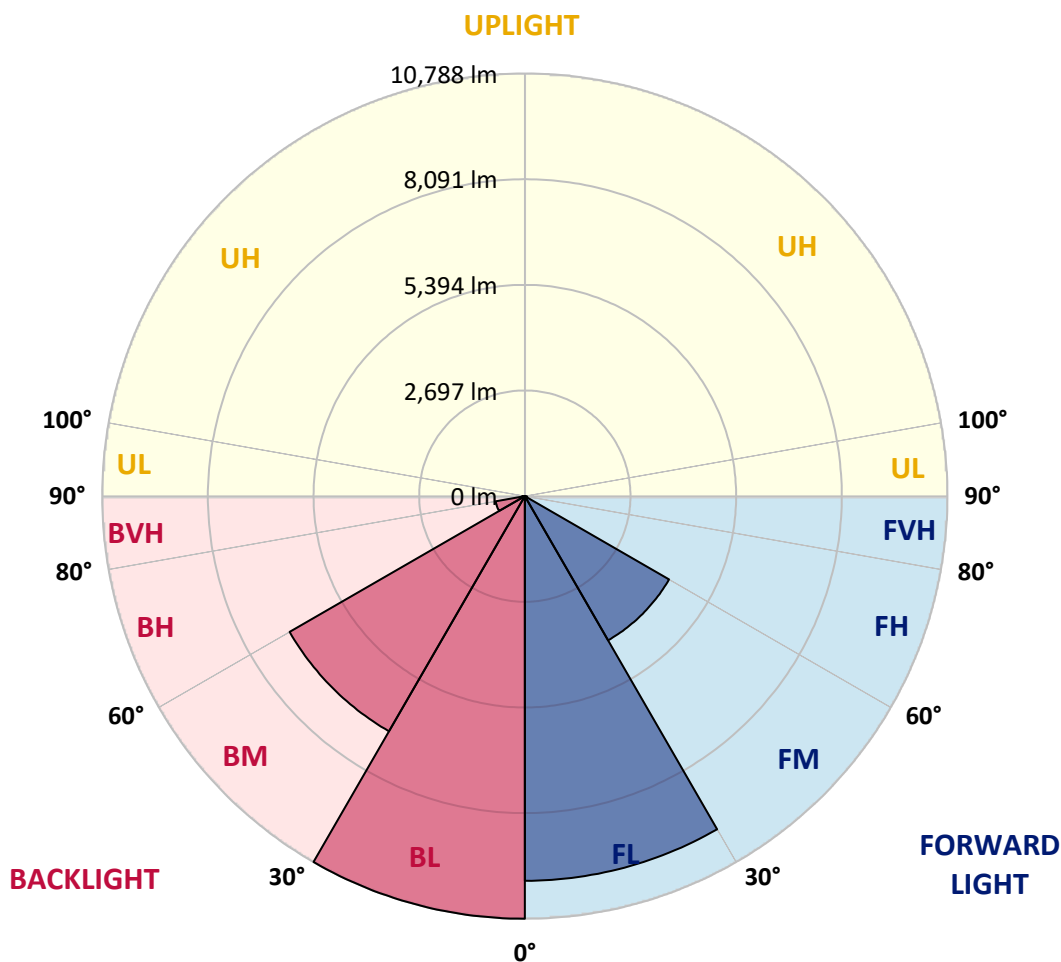
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9818.3	30.0			
FM (30°-60°)	4250.5	13.0			
FH (60°-80°)	61.5	0.2			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	10787.9	33.0	B5		
BM (30°-60°)	6932.8	21.2	B4/8500		
BH (60°-80°)	757.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	67.8	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°	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0
2.5°	39052.2	38892.7	38666.0	38645.0	38762.5	39018.6	38854.9	38863.3	38762.5	38934.7
5°	38439.3	38288.1	38132.8	37927.1	38099.2	38208.4	38124.4	38032.0	37901.9	38069.8
7.5°	37280.5	37196.6	36965.7	36873.3	36978.3	37100.0	36919.5	36894.3	36713.8	36932.1
10°	35508.9	35475.3	35248.6	35194.0	35286.4	35471.1	35391.3	35374.5	35261.2	35240.2
12.5°	33670.0	33539.9	33258.6	33241.8	33380.4	33657.4	33443.3	33237.6	33300.6	33355.2
15°	28934.4	28795.9	29492.8	30588.5	31163.7	31142.7	31205.7	30958.0	30882.4	30907.6
17.5°	23002.3	22767.2	23019.1	24715.2	27448.2	29035.2	28598.5	28065.4	27779.9	27591.0
20°	19853.6	19866.2	19820.0	20256.6	21961.1	25580.0	25475.0	24446.5	24072.8	23917.5
22.5°	17939.2	17867.8	17767.0	17905.6	18363.2	20487.5	21910.7	20966.1	20836.0	20663.8
25°	16062.5	16062.5	15940.8	16079.3	16209.5	16238.9	17666.3	18052.5	17800.6	17800.6
27.5°	14437.8	14353.8	14299.3	14362.2	14190.1	13363.1	13543.6	15521.0	15348.8	15243.9
30°	12825.7	12800.5	12708.1	12792.1	12154.0	11221.9	10844.1	13098.6	13279.1	13241.3
32.5°	10588.0	10688.8	11100.2	11230.3	10138.8	9387.3	9026.3	10873.5	11595.6	11566.2
35°	7195.8	7279.8	7750.0	9303.3	8404.9	7867.5	7762.6	8648.4	9836.5	9949.9
37.5°	5730.6	5718.0	5852.4	6129.5	6755.0	6624.9	6595.5	6826.4	8022.9	8073.3
40°	4723.0	4706.2	4702.1	4475.3	4320.0	5508.1	5428.3	5289.8	6326.8	6427.5
42.5°	3807.8	3824.6	3837.2	3341.8	3115.1	4248.6	4202.5	4059.7	4962.3	5079.9
45°	2989.2	2985.0	3010.2	2489.6	2426.6	2716.3	3140.3	3026.9	3744.8	3870.8
47.5°	1549.2	1603.7	1943.8	1927.0	1956.4	1927.0	2376.2	2346.8	2817.0	3018.5
50°	1041.2	1058.0	1087.3	1091.5	1540.8	1419.0	1612.1	1826.2	1973.2	2283.9
52.5°	806.1	818.7	743.1	696.9	944.6	1049.6	1058.0	1263.7	1377.0	1691.9
55°	449.2	503.8	541.6	545.8	520.6	776.7	772.5	936.2	1024.4	1234.3
57.5°	58.8	71.4	109.2	352.7	348.5	432.4	541.6	680.1	730.5	902.6
60°	4.2	8.4	12.6	54.6	230.9	251.9	369.4	424.0	508.0	633.9
62.5°	0.0	0.0	4.2	12.6	46.2	146.9	193.1	222.5	298.1	415.6
65°	0.0	0.0	4.2	8.4	16.8	54.6	75.6	121.7	176.3	256.1
67.5°	0.0	0.0	4.2	8.4	12.6	21.0	33.6	54.6	92.4	155.3
70°	0.0	0.0	4.2	8.4	12.6	16.8	25.2	33.6	50.4	84.0
72.5°	0.0	0.0	4.2	4.2	8.4	21.0	21.0	25.2	33.6	46.2
75°	0.0	0.0	4.2	8.4	12.6	21.0	21.0	21.0	25.2	29.4
77.5°	0.0	0.0	4.2	8.4	12.6	21.0	16.8	21.0	21.0	21.0
80°	0.0	0.0	4.2	8.4	12.6	21.0	25.2	21.0	16.8	16.8
82.5°	0.0	0.0	4.2	12.6	12.6	29.4	29.4	29.4	12.6	12.6
85°	0.0	0.0	8.4	12.6	21.0	33.6	33.6	25.2	12.6	8.4
87.5°	0.0	0.0	4.2	8.4	8.4	16.8	25.2	21.0	8.4	4.2
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°
39048.0	0°	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0	39048.0
38682.8	2.5°	38993.4	38888.5	39085.8	39111.0	39027.0	38922.1	38678.6	38657.6	38233.5
37826.3	5°	38254.5	38082.4	38208.4	38292.3	38262.9	38149.6	38048.8	37956.5	37574.4
36436.7	7.5°	36877.5	36814.5	36873.3	36936.3	37058.0	36936.3	36894.3	36797.7	36419.9
35068.1	10°	35349.3	35231.8	35454.3	35424.9	35391.3	35357.7	35181.4	35198.2	34753.2
33204.0	12.5°	33472.7	33275.4	33489.5	33514.7	33489.5	33372.0	33174.6	33258.6	32851.4
30685.1	15°	30949.6	30928.6	31083.9	31184.7	31256.0	31130.1	31062.9	31104.9	30861.4
27444.0	17.5°	27851.3	28124.1	28632.1	28804.3	28808.5	28938.6	28900.8	28850.4	28669.9
23854.5	20°	24207.2	24731.9	25512.8	26314.7	26545.6	26436.4	26386.1	26478.4	26209.7
20483.3	22.5°	20844.4	21293.6	22200.4	23371.7	24047.6	24114.8	24102.2	24022.4	23917.5
17783.8	25°	17989.5	18388.4	19257.4	20328.0	21625.2	21818.4	21826.8	21801.6	21709.2
15336.2	27.5°	15579.7	16062.5	16541.1	17498.3	18879.6	19677.2	19576.5	19547.1	19513.5
13270.7	30°	13396.6	14005.4	14454.6	15050.8	16289.2	17368.2	17473.2	17422.8	17343.0
11562.0	32.5°	11667.0	12028.0	12599.0	13002.0	13892.0	15113.7	15516.8	15479.0	15407.6
10021.2	35°	10164.0	10306.7	10755.9	11205.2	11797.1	12981.0	13577.2	13493.2	13480.6
8165.6	37.5°	8371.3	8849.9	9097.6	9551.0	9966.7	10886.1	11708.9	11671.2	11675.4
6566.1	40°	6759.2	7036.3	7527.5	7909.5	8291.6	8963.3	9878.5	9903.7	9895.3
5084.1	42.5°	5189.0	5457.7	5974.1	6389.8	6729.8	7145.4	8018.7	8048.1	8085.8
3959.0	45°	4051.3	4223.4	4601.3	5033.7	5394.8	5646.7	6310.0	6498.9	6503.1
3068.9	47.5°	3144.5	3341.8	3610.5	4026.1	4378.8	4559.3	5042.1	5298.2	5285.6
2355.2	50°	2468.6	2649.1	2867.4	3194.9	3576.9	3719.7	4076.5	4328.4	4315.8
1775.9	52.5°	1889.2	2120.1	2313.2	2565.1	2938.8	3060.5	3316.6	3606.3	3564.3
1301.5	55°	1431.6	1666.7	1847.2	2057.1	2397.2	2552.5	2728.9	2959.8	2968.2
1007.6	57.5°	1079.0	1322.5	1486.2	1700.3	1956.4	2128.5	2262.9	2510.6	2506.4
688.5	60°	772.5	982.4	1179.7	1402.2	1599.5	1796.9	1889.2	2124.3	2132.7
487.0	62.5°	558.4	755.7	944.6	1137.7	1314.1	1507.2	1591.1	1775.9	1801.1
319.1	65°	390.4	529.0	747.3	894.2	1091.5	1234.3	1343.4	1503.0	1532.4
188.9	67.5°	251.9	382.0	592.0	722.1	902.6	1024.4	1137.7	1263.7	1301.5
121.7	70°	151.1	289.7	440.8	579.4	743.1	852.2	961.4	1070.6	1091.5
58.8	72.5°	96.6	201.5	319.1	470.2	596.2	713.7	810.3	890.0	827.1
37.8	75°	54.6	138.5	251.9	369.4	482.8	596.2	675.9	717.9	575.2
25.2	77.5°	33.6	100.8	205.7	298.1	373.6	478.6	529.0	554.2	411.4
16.8	80°	21.0	75.6	172.1	243.5	243.5	352.7	411.4	432.4	298.1
12.6	82.5°	16.8	54.6	134.3	184.7	163.7	264.5	323.3	327.5	209.9
8.4	85°	12.6	42.0	84.0	121.7	113.4	184.7	188.9	209.9	138.5
8.4	87.5°	8.4	25.2	50.4	71.4	63.0	88.2	100.8	113.4	75.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
39048.0
37901.9
37267.9
36340.1
34602.1
32733.8
30567.5
28401.2
26016.6
23716.0
21398.5
19316.2
17242.3
15218.7
13342.1
11541.0
9748.4
7959.9
6393.9
5239.4
4315.8
3568.5
2968.2
2498.0
2111.7
1792.7
1524.0
1297.3
1074.8
768.3
545.8
386.2
277.1
193.1
125.9
67.2
0.0

(END OF REPORT)