

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: P637018

Luminaire Tested: **IFLD-L-SA7A-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22928.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

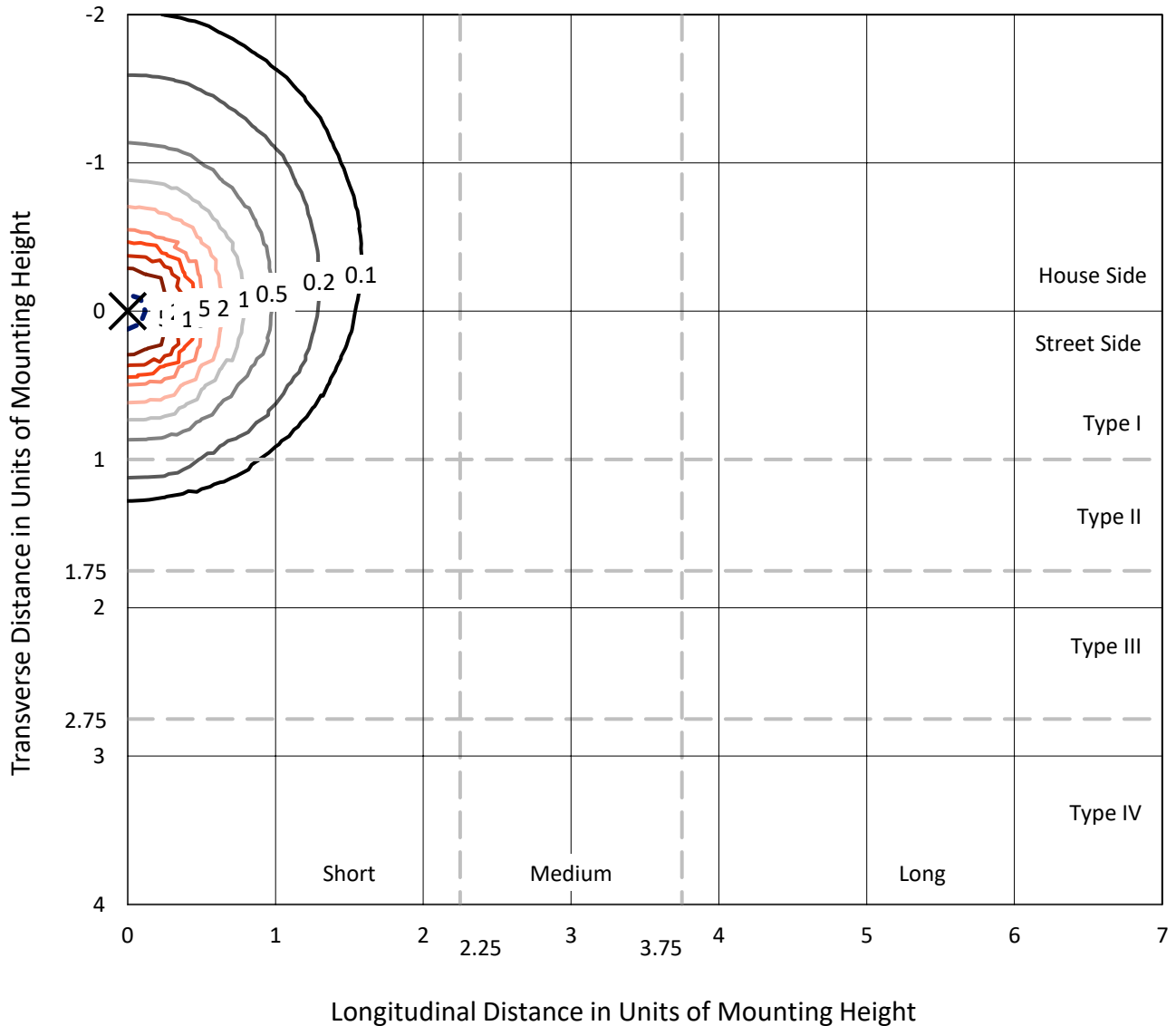
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

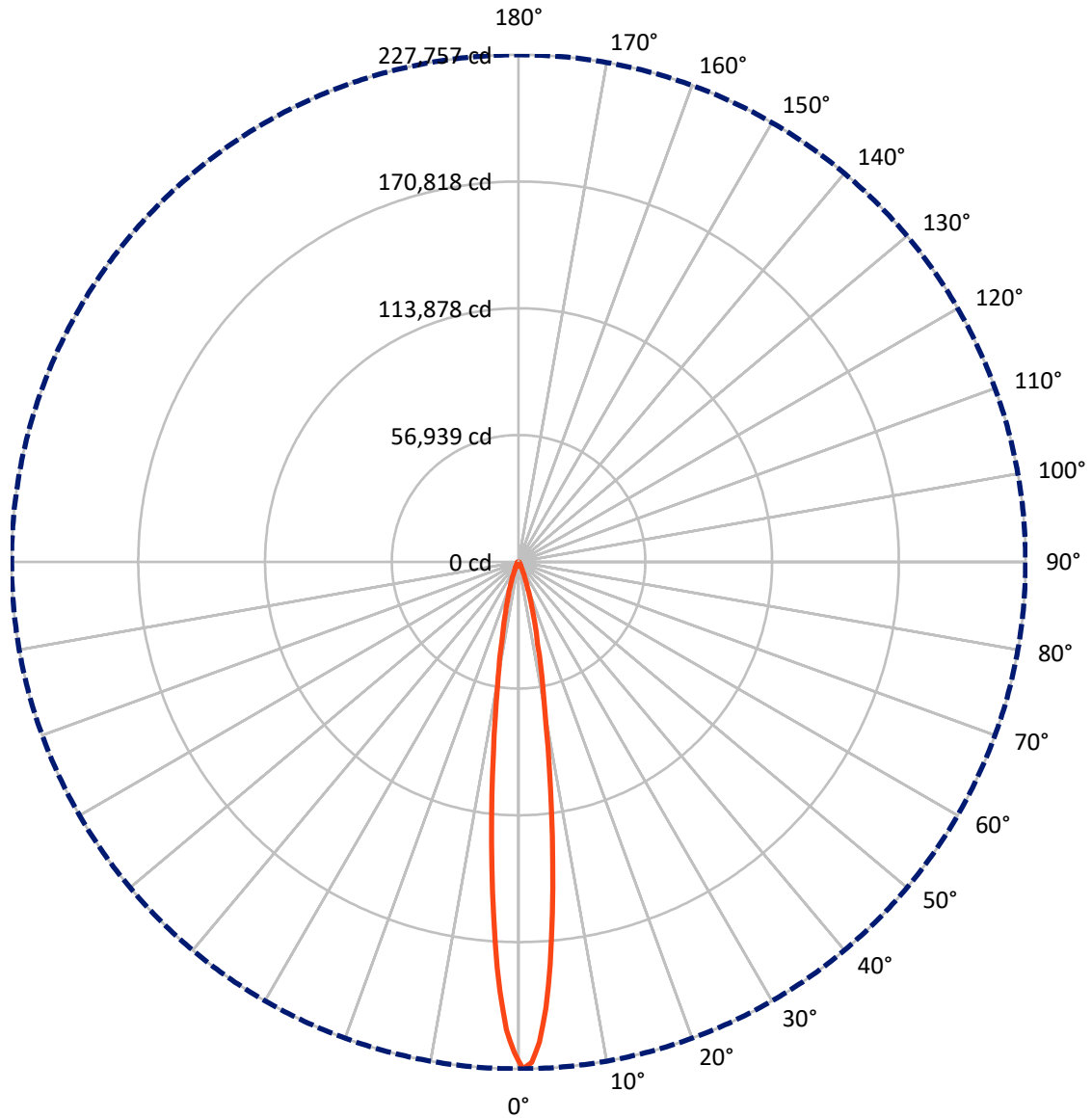
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 569.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11743.7	0.0	11743.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11185.1	0.0	11185.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	22928.7	0.0	22928.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11575.1	50.5
10°-20°	7410.3	32.3
20°-30°	2227.4	9.7
30°-40°	725.3	3.2
40°-50°	422.0	1.8
50°-60°	280.3	1.2
60°-70°	168.7	0.7
70°-80°	86.7	0.4
80°-90°	33.0	0.1
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°	22928.7	100.0
0°-180°	22928.7	100.0

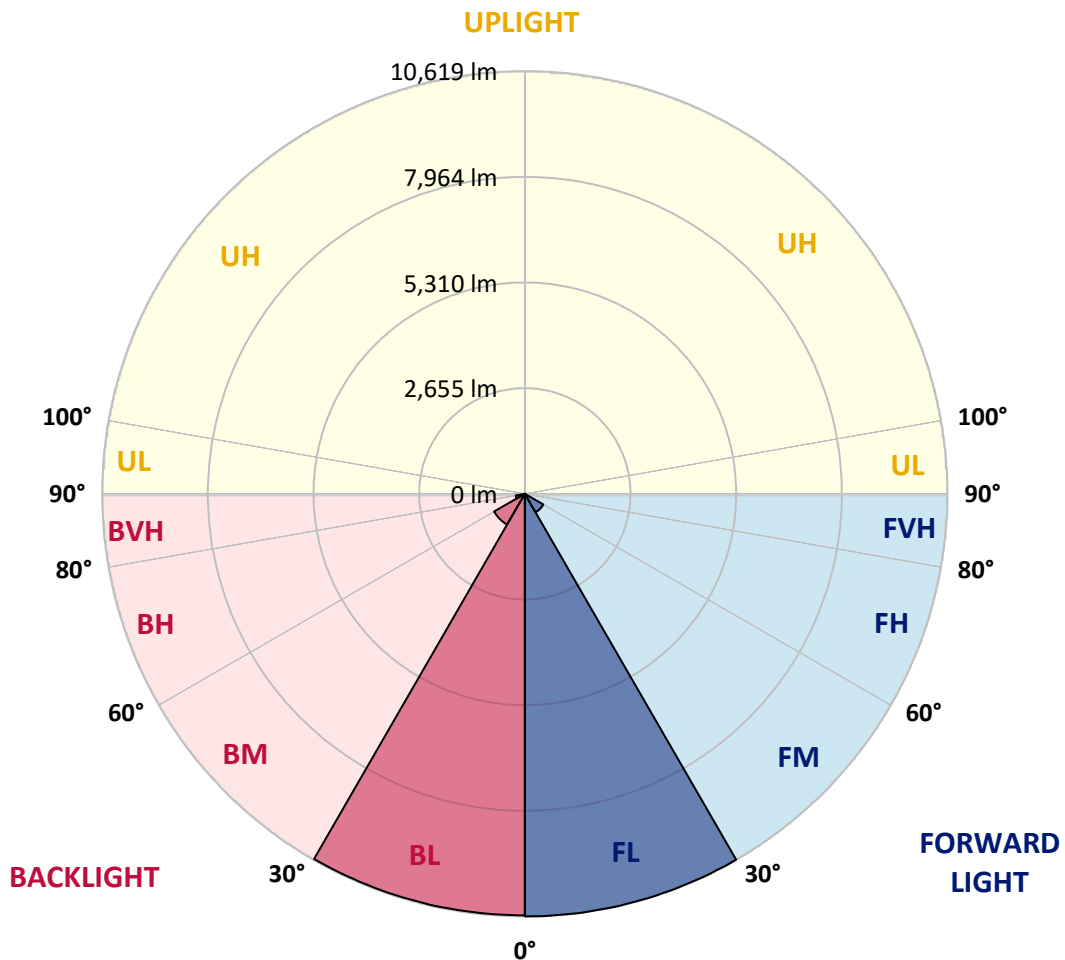


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10619.0	46.3			
FM (30°-60°)	535.9	2.3			
FH (60°-80°)	25.2	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10593.8	46.2	B5		
BM (30°-60°)	891.6	3.9	B1/1000		
BH (60°-80°)	230.2	1.0	B1/500		G0/660
BVH (80°-90°)	28.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7
1°	225029.6	224342.9	222569.8	223830.9	224939.7	224617.6	224595.1	224475.2	224307.9	225621.5
2°	216034.3	215589.8	212967.7	214049.0	215624.8	214476.0	215195.2	214563.4	214575.9	216144.2
3°	200870.7	201112.9	196930.0	198895.3	201085.5	198301.0	199165.0	200788.3	199087.6	198575.7
4°	181162.0	179059.2	176774.2	178772.1	179338.9	177718.2	179311.5	181299.3	178936.9	179041.8
5°	158661.3	157107.9	154403.4	155637.0	154231.0	154743.0	157130.4	157949.5	156301.3	154226.1
6°	135526.2	134422.4	131041.1	132819.2	132319.7	132030.0	135044.3	132546.9	133446.0	132189.8
7°	112730.8	110668.1	109007.4	110710.5	110820.4	109948.8	113862.1	113407.6	111771.9	111392.3
8°	93399.2	91341.4	89935.4	91204.1	92033.2	90664.6	92505.2	93713.9	92435.2	92550.1
9°	75331.2	74969.1	73013.7	74671.9	75573.4	74107.5	76145.3	76582.3	75386.1	75968.0
10°	61853.2	61431.2	59870.4	60542.2	62035.5	60287.4	62242.8	62385.2	61431.2	61703.4
12.5°	38223.7	38053.9	38011.5	38108.9	38088.9	38398.6	38898.0	38328.6	38253.7	37312.2
15°	24705.8	24958.1	24698.3	25197.8	25270.2	25562.4	25257.7	24798.2	23921.7	23487.2
17.5°	15418.4	15740.5	16185.0	16916.7	17648.5	17733.4	17328.8	16789.4	16364.8	15900.3
20°	8870.4	9027.8	8960.3	9836.9	11729.8	12244.3	11722.3	11155.5	10643.5	10174.0
22.5°	5511.6	5454.1	5559.0	5853.7	6470.5	8061.3	7634.3	7067.4	6695.3	6308.2
25°	3378.9	3441.3	3401.3	3563.7	3840.9	4515.1	4612.5	4367.8	4178.0	3978.2
27.5°	2175.2	2175.2	2192.6	2282.5	2472.3	2449.9	2969.3	2779.5	2677.1	2579.7
30°	1510.9	1515.9	1515.9	1568.3	1610.8	1535.8	1670.7	1915.4	1868.0	1793.1
32.5°	1121.3	1136.3	1148.8	1176.2	1141.3	1061.4	1093.8	1378.5	1351.0	1323.6
35°	854.1	866.6	896.5	911.5	861.6	811.6	781.7	1013.9	1026.4	1018.9
37.5°	621.8	629.3	684.3	741.7	684.3	639.3	621.8	779.2	839.1	831.6
40°	477.0	479.5	489.5	554.4	554.4	519.4	524.4	581.9	686.8	686.8
42.5°	409.6	409.6	419.5	409.6	412.1	449.5	462.0	469.5	581.9	581.9
45°	354.6	354.6	359.6	334.6	309.7	387.1	397.1	399.6	489.5	502.0
47.5°	297.2	297.2	307.2	274.7	262.2	307.2	334.6	342.1	422.0	432.0
50°	219.8	222.3	252.2	224.8	232.2	237.2	289.7	294.7	357.1	379.6
52.5°	147.3	147.3	152.3	174.8	202.3	194.8	234.7	252.2	284.7	314.7
55°	119.9	119.9	117.4	112.4	149.8	162.3	172.3	209.8	232.2	269.7
57.5°	82.4	87.4	79.9	92.4	97.4	122.4	129.9	164.8	177.3	227.3
60°	10.0	12.5	17.5	67.4	64.9	82.4	97.4	129.9	144.8	174.8
62.5°	2.5	2.5	5.0	12.5	45.0	54.9	77.4	89.9	104.9	134.9
65°	0.0	0.0	2.5	5.0	10.0	30.0	40.0	52.4	74.9	94.9
67.5°	0.0	0.0	2.5	5.0	5.0	12.5	20.0	32.5	40.0	69.9
70°	0.0	0.0	2.5	5.0	5.0	10.0	12.5	15.0	27.5	37.5
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	12.5	25.0
75°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	10.0	10.0
77.5°	0.0	0.0	2.5	5.0	10.0	12.5	15.0	12.5	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.5	17.5	20.0	15.0	7.5	5.0
82.5°	0.0	0.0	5.0	10.0	15.0	20.0	27.5	22.5	10.0	5.0
85°	0.0	0.0	2.5	7.5	15.0	20.0	40.0	27.5	12.5	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	15.0	10.0	5.0	2.5
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°
227756.7	0°	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7	227756.7
224105.6	1°	225671.4	225828.8	225314.3	226111.0	225831.3	224193.0	223651.1	223009.3	222085.3
215222.7	2°	214563.4	215365.1	215405.0	216289.1	216276.6	214366.1	213774.3	214865.6	212735.4
199614.6	3°	199010.2	199944.2	199102.6	200673.4	200201.4	197883.9	197282.1	198520.7	196972.4
179870.9	4°	179334.0	179156.6	178867.0	177972.9	179074.2	177493.4	176302.2	177982.9	174671.5
156978.1	5°	156663.4	156268.8	155704.5	155439.7	156258.9	155247.4	152797.6	155252.4	149346.3
134462.4	6°	134627.2	132929.0	132846.6	132699.3	132781.7	129949.8	130119.6	131947.6	127032.9
110086.2	7°	111249.9	111562.1	110925.3	111946.7	111167.5	109249.6	108510.4	110435.8	106962.1
93054.6	8°	92405.3	92010.7	91523.7	93049.6	91698.5	90439.9	89578.3	91099.2	88519.5
76062.9	9°	75920.6	75238.8	74744.3	74666.9	74876.7	72514.2	72993.7	74145.0	72591.7
61853.2	10°	61875.7	60756.9	61029.1	61101.6	60871.8	59323.5	59338.5	59735.5	57867.5
37936.6	12.5°	37801.7	37252.3	37389.6	37464.6	37931.6	37387.1	36618.0	36063.6	35783.9
23919.2	15°	23759.4	23364.8	24171.4	24713.3	24603.4	24119.0	23756.9	23254.9	22850.3
15900.3	17.5°	15753.0	16269.9	16272.4	16766.9	16816.9	16332.4	16052.7	15600.7	15620.6
10341.3	20°	10303.9	10518.6	10965.7	11315.3	11517.6	11148.0	10813.3	10503.7	10373.8
6448.0	22.5°	6448.0	6822.6	7102.3	7556.8	7741.6	7471.9	7234.7	6982.5	6827.6
4025.7	25°	3958.2	4225.4	4457.7	4852.3	5104.5	4974.6	4757.4	4580.1	4497.6
2599.7	27.5°	2639.7	2752.0	2866.9	3139.1	3401.3	3328.9	3241.5	3134.1	3096.7
1833.0	30°	1860.5	1870.5	1992.8	2145.2	2320.0	2364.9	2325.0	2270.1	2227.6
1346.0	32.5°	1371.0	1411.0	1468.4	1563.3	1680.7	1788.1	1768.1	1743.1	1723.1
1028.9	35°	1058.9	1118.8	1166.2	1238.7	1301.1	1403.5	1421.0	1413.5	1398.5
846.6	37.5°	864.1	916.5	964.0	1006.4	1058.9	1128.8	1183.7	1186.2	1171.2
699.2	40°	716.7	764.2	826.6	859.1	896.5	949.0	1016.4	1021.4	1016.4
591.9	42.5°	604.3	649.3	711.7	751.7	779.2	829.1	896.5	906.5	896.5
507.0	45°	519.4	546.9	611.8	659.3	686.8	719.2	791.6	801.6	799.1
437.0	47.5°	452.0	479.5	519.4	586.9	611.8	641.8	699.2	716.7	716.7
387.1	50°	397.1	424.5	459.5	519.4	556.9	581.9	629.3	654.3	654.3
337.1	52.5°	352.1	379.6	417.0	464.5	507.0	529.4	574.4	606.8	606.8
274.7	55°	294.7	342.1	369.6	412.1	469.5	489.5	524.4	566.9	566.9
239.7	57.5°	257.2	297.2	337.1	372.1	429.5	454.5	489.5	529.4	534.4
189.8	60°	217.3	254.7	302.2	332.1	387.1	419.5	457.0	494.5	504.5
144.8	62.5°	172.3	222.3	254.7	297.2	349.6	392.1	422.0	459.5	474.5
112.4	65°	127.4	182.3	219.8	264.7	314.7	359.6	384.6	424.5	434.5
79.9	67.5°	92.4	142.3	187.3	229.8	277.2	322.2	347.1	382.1	389.6
49.9	70°	72.4	104.9	154.8	192.3	242.2	279.7	307.2	329.6	337.1
32.5	72.5°	42.5	79.9	124.9	167.3	212.3	237.2	257.2	277.2	282.2
15.0	75°	27.5	62.4	102.4	139.8	172.3	194.8	212.3	229.8	232.2
7.5	77.5°	17.5	45.0	82.4	117.4	132.4	159.8	174.8	184.8	179.8
5.0	80°	10.0	35.0	72.4	94.9	107.4	124.9	139.8	152.3	139.8
5.0	82.5°	7.5	30.0	59.9	79.9	79.9	99.9	107.4	107.4	102.4
2.5	85°	5.0	25.0	47.4	74.9	59.9	74.9	69.9	69.9	69.9
2.5	87.5°	5.0	17.5	22.5	32.5	27.5	32.5	32.5	37.5	37.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
227756.7
220467.1
210243.1
193019.2
171899.5
148784.4
126648.3
105199.0
86756.4
70548.9
57033.4
35726.4
22997.7
15488.3
10396.3
6847.6
4477.7
3071.7
2232.6
1723.1
1388.5
1168.7
1013.9
899.0
799.1
719.2
656.8
606.8
569.4
531.9
504.5
477.0
432.0
384.6
337.1
282.2
229.8
179.8
137.4
99.9
67.4
37.5
0.0

(END OF REPORT)