

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: P637118

Luminaire Tested: **IFLD-S-SA2E-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17999.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

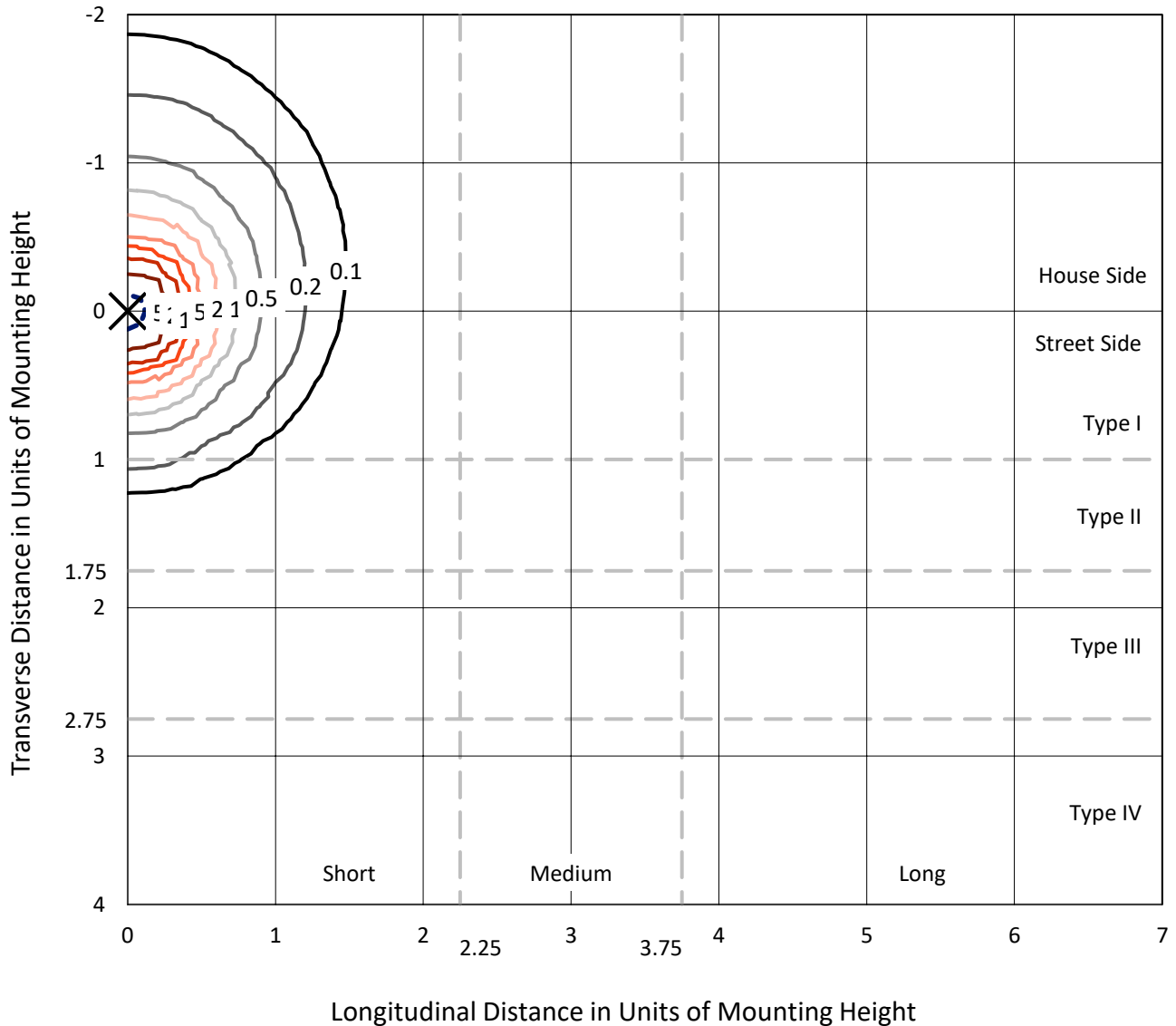
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

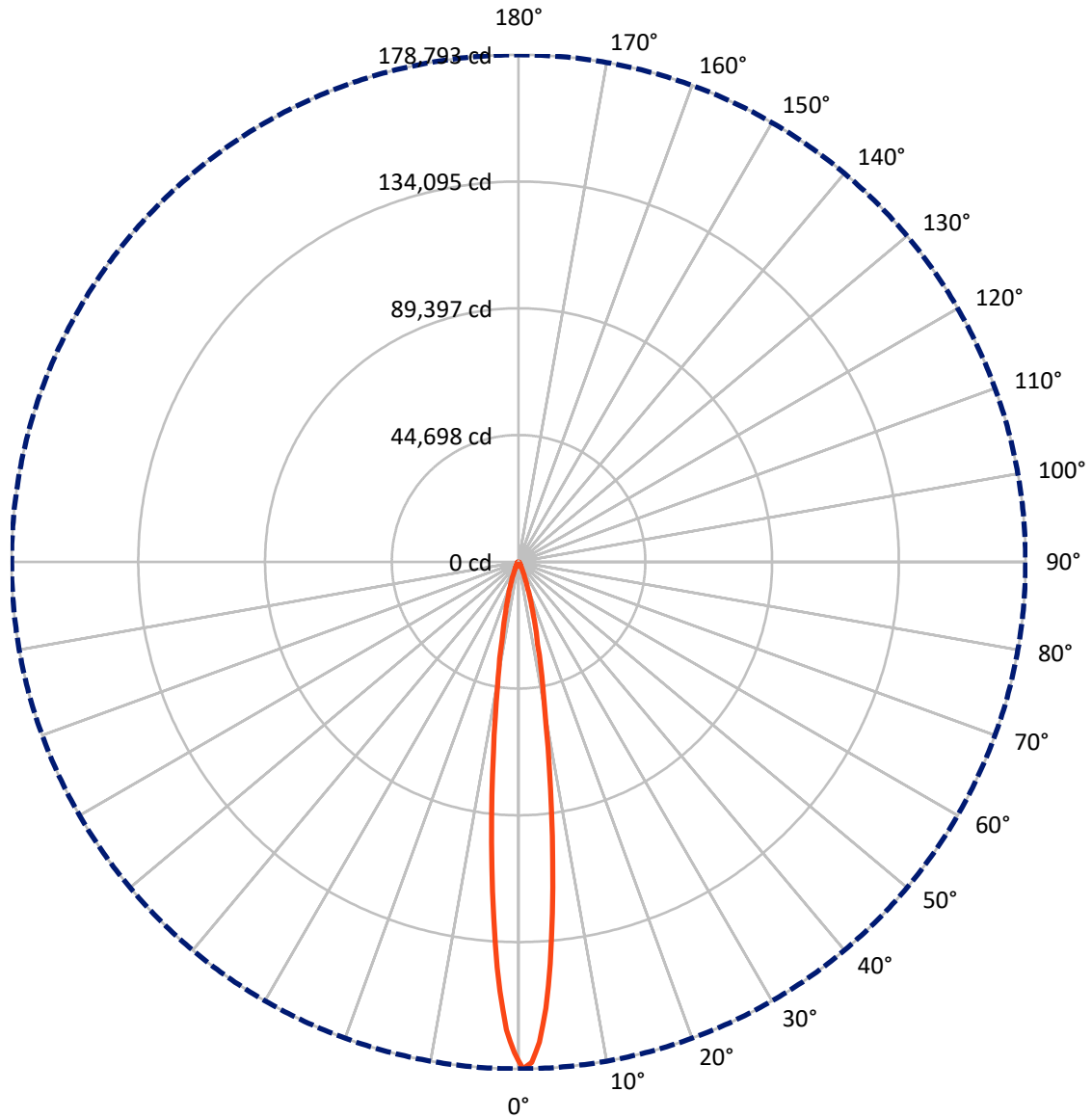
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 447 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	9219.0	0.0	9219.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8780.5	0.0	8780.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	17999.5	0.0	17999.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9086.7	50.5
10°-20°	5817.3	32.3
20°-30°	1748.6	9.7
30°-40°	569.3	3.2
40°-50°	331.3	1.8
50°-60°	220.0	1.2
60°-70°	132.4	0.7
70°-80°	68.1	0.4
80°-90°	25.9	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°	17999.5	100.0
0°-180°	17999.5	100.0

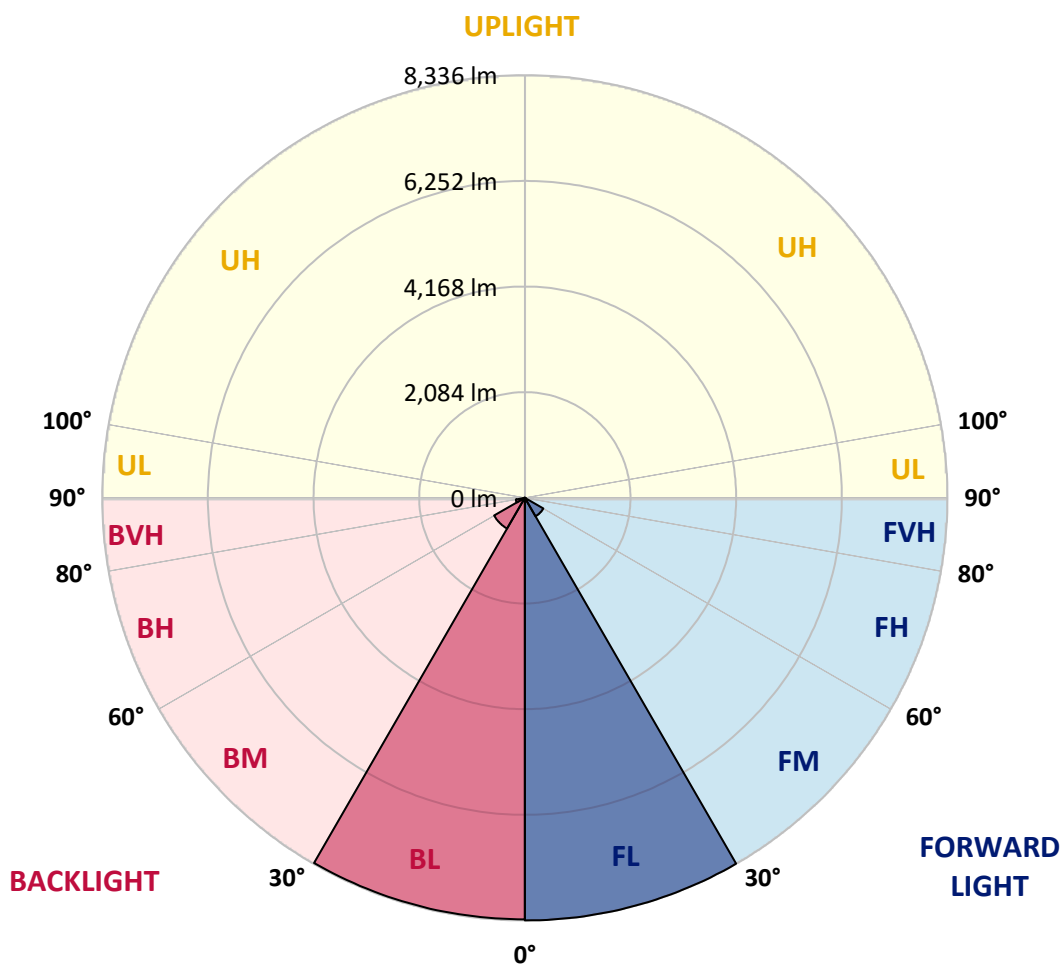


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8336.1	46.3			
FM (30°-60°)	420.7	2.3			
FH (60°-80°)	19.8	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8316.4	46.2	B5		
BM (30°-60°)	700.0	3.9	B1/1000		
BH (60°-80°)	180.7	1.0	B1/500		G0/660
BVH (80°-90°)	22.0	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°	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3
1°	176652.5	176113.4	174721.5	175711.5	176581.9	176329.0	176311.4	176217.3	176085.9	177117.1
2°	169591.0	169242.1	167183.6	168032.5	169269.5	168367.7	168932.3	168436.3	168446.1	169677.3
3°	157687.3	157877.5	154593.7	156136.6	157855.9	155670.0	156348.3	157622.6	156287.5	155885.7
4°	142215.6	140564.9	138771.1	140339.4	140784.5	139512.1	140762.9	142323.4	140468.8	140551.2
5°	124552.1	123332.7	121209.5	122178.0	121074.3	121476.2	123350.3	123993.4	122699.5	121070.4
6°	106390.6	105524.1	102869.7	104265.5	103873.5	103646.0	106012.3	104051.8	104757.6	103771.5
7°	88495.8	86876.5	85572.8	86909.8	86996.1	86311.9	89383.9	89027.1	87743.0	87445.0
8°	73320.1	71704.7	70601.0	71596.9	72247.8	71173.5	72618.3	73567.1	72563.4	72653.6
9°	59136.4	58852.1	57317.1	58618.9	59326.6	58175.8	59775.5	60118.6	59179.5	59636.3
10°	48556.0	48224.6	46999.4	47526.7	48699.1	47326.8	48861.8	48973.5	48224.6	48438.3
12.5°	30006.4	29873.1	29839.7	29916.2	29900.5	30143.6	30535.7	30088.7	30029.9	29290.8
15°	19394.5	19592.6	19388.7	19780.8	19837.6	20067.0	19827.8	19467.1	18779.0	18437.9
17.5°	12103.7	12356.6	12705.6	13280.0	13854.4	13921.0	13603.4	13180.0	12846.7	12482.1
20°	6963.5	7087.0	7034.0	7722.1	9208.1	9612.0	9202.3	8757.2	8355.4	7986.8
22.5°	4326.7	4281.6	4363.9	4595.3	5079.5	6328.3	5993.0	5548.0	5255.9	4952.0
25°	2652.5	2701.5	2670.1	2797.5	3015.1	3544.5	3620.9	3428.8	3279.8	3123.0
27.5°	1707.5	1707.5	1721.3	1791.8	1940.8	1923.2	2331.0	2182.0	2101.6	2025.1
30°	1186.1	1190.0	1190.0	1231.2	1264.5	1205.7	1311.5	1503.7	1466.4	1407.6
32.5°	880.2	892.0	901.8	923.4	895.9	833.2	858.7	1082.2	1060.6	1039.0
35°	670.5	680.3	703.8	715.6	676.3	637.1	613.6	795.9	805.7	799.9
37.5°	488.1	494.0	537.2	582.2	537.2	501.9	488.1	611.7	658.7	652.8
40°	374.4	376.4	384.2	435.2	435.2	407.8	411.7	456.8	539.1	539.1
42.5°	321.5	321.5	329.4	321.5	323.5	352.9	362.7	368.6	456.8	456.8
45°	278.4	278.4	282.3	262.7	243.1	303.9	311.7	313.7	384.2	394.0
47.5°	233.3	233.3	241.1	215.6	205.8	241.1	262.7	268.6	331.3	339.2
50°	172.5	174.5	198.0	176.4	182.3	186.2	227.4	231.3	280.3	298.0
52.5°	115.7	115.7	119.6	137.2	158.8	152.9	184.3	198.0	223.5	247.0
55°	94.1	94.1	92.1	88.2	117.6	127.4	135.3	164.7	182.3	211.7
57.5°	64.7	68.6	62.7	72.5	76.5	96.1	101.9	129.4	139.2	178.4
60°	7.8	9.8	13.7	52.9	51.0	64.7	76.5	101.9	113.7	137.2
62.5°	2.0	2.0	3.9	9.8	35.3	43.1	60.8	70.6	82.3	105.9
65°	0.0	0.0	2.0	3.9	7.8	23.5	31.4	41.2	58.8	74.5
67.5°	0.0	0.0	2.0	3.9	3.9	9.8	15.7	25.5	31.4	54.9
70°	0.0	0.0	2.0	3.9	3.9	7.8	9.8	11.8	21.6	29.4
72.5°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	9.8	9.8	19.6
75°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	9.8	7.8	7.8
77.5°	0.0	0.0	2.0	3.9	7.8	9.8	11.8	9.8	5.9	5.9
80°	0.0	0.0	2.0	5.9	9.8	13.7	15.7	11.8	5.9	3.9
82.5°	0.0	0.0	3.9	7.8	11.8	15.7	21.6	17.6	7.8	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.7	31.4	21.6	9.8	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	11.8	7.8	3.9	2.0
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°
178793.3	0°	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3	178793.3
175927.1	1°	177156.3	177279.8	176876.0	177501.4	177281.8	175995.8	175570.3	175066.5
168953.9	2°	168436.3	169065.6	169097.0	169791.0	169781.2	168281.5	167816.8	168673.5
156701.2	3°	156226.8	156960.0	156299.3	157532.4	157161.9	155342.6	154870.1	155842.5
141202.0	4°	140780.5	140641.3	140413.9	139712.1	140576.6	139335.7	138400.6	139719.9
123230.7	5°	122983.7	122674.0	122230.9	122023.1	122666.1	121872.2	119949.0	121876.1
105555.5	6°	105684.9	104351.8	104287.1	104171.4	104236.1	102013.0	102146.3	103581.3
86419.7	7°	87333.3	87578.3	87078.4	87880.3	87268.6	85763.0	85182.7	86694.2
73049.6	8°	72539.9	72230.1	71847.8	73045.7	71985.1	70997.0	70320.7	71514.6
59710.8	9°	59599.1	59063.9	58675.7	58614.9	58779.6	56925.0	57301.4	58205.2
48556.0	10°	48573.6	47695.3	47909.0	47965.9	47785.5	46570.0	46581.8	46893.5
29780.9	12.5°	29675.0	29243.8	29351.6	29410.4	29777.0	29349.6	28745.8	28310.6
18777.0	15°	18651.5	18341.8	18975.0	19400.4	19314.2	18933.8	18649.6	18255.5
12482.1	17.5°	12366.4	12772.2	12774.2	13162.3	13201.5	12821.2	12601.7	12246.8
8118.1	20°	8088.7	8257.3	8608.3	8882.7	9041.5	8751.4	8488.7	8245.6
5061.8	22.5°	5061.8	5355.9	5575.5	5932.3	6077.3	5865.6	5679.4	5481.4
3160.2	25°	3107.3	3317.0	3499.4	3809.1	4007.1	3905.2	3734.6	3595.4
2040.8	27.5°	2072.2	2160.4	2250.6	2464.3	2670.1	2613.3	2544.6	2460.3
1439.0	30°	1460.5	1468.4	1564.4	1684.0	1821.2	1856.5	1825.2	1782.0
1056.7	32.5°	1076.3	1107.6	1152.7	1227.2	1319.4	1403.7	1388.0	1368.4
807.7	35°	831.2	878.3	915.5	972.4	1021.4	1101.8	1115.5	1109.6
664.6	37.5°	678.3	719.5	756.7	790.1	831.2	886.1	929.2	931.2
548.9	40°	562.6	599.9	648.9	674.4	703.8	745.0	797.9	801.8
464.6	42.5°	474.4	509.7	558.7	590.1	611.7	650.9	703.8	711.6
398.0	45°	407.8	429.3	480.3	517.6	539.1	564.6	621.5	629.3
343.1	47.5°	354.8	376.4	407.8	460.7	480.3	503.8	548.9	562.6
303.9	50°	311.7	333.3	360.7	407.8	437.2	456.8	494.0	513.6
264.7	52.5°	276.4	298.0	327.4	364.6	398.0	415.6	450.9	476.4
215.6	55°	231.3	268.6	290.1	323.5	368.6	384.2	411.7	445.0
188.2	57.5°	201.9	233.3	264.7	292.1	337.2	356.8	384.2	415.6
149.0	60°	170.6	200.0	237.2	260.7	303.9	329.4	358.8	388.2
113.7	62.5°	135.3	174.5	200.0	233.3	274.5	307.8	331.3	360.7
88.2	65°	100.0	143.1	172.5	207.8	247.0	282.3	301.9	333.3
62.7	67.5°	72.5	111.7	147.0	180.4	217.6	252.9	272.5	299.9
39.2	70°	56.9	82.3	121.5	151.0	190.2	219.6	241.1	258.8
25.5	72.5°	33.3	62.7	98.0	131.3	166.6	186.2	201.9	217.6
11.8	75°	21.6	49.0	80.4	109.8	135.3	152.9	166.6	180.4
5.9	77.5°	13.7	35.3	64.7	92.1	103.9	125.5	137.2	145.1
3.9	80°	7.8	27.4	56.9	74.5	84.3	98.0	109.8	119.6
3.9	82.5°	5.9	23.5	47.1	62.7	62.7	78.4	84.3	84.3
2.0	85°	3.9	19.6	37.2	58.8	47.1	58.8	54.9	54.9
2.0	87.5°	3.9	13.7	17.6	25.5	21.6	25.5	25.5	29.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
178793.3
173070.8
165044.8
151523.7
134944.3
116798.6
99421.3
82583.2
68105.4
55382.2
44772.3
28045.9
18053.6
12158.6
8161.3
5375.5
3515.1
2411.3
1752.6
1352.7
1090.0
917.5
795.9
705.8
627.3
564.6
515.6
476.4
447.0
417.6
396.0
374.4
339.2
301.9
264.7
221.5
180.4
141.2
107.8
78.4
52.9
29.4
0.0

(END OF REPORT)