

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: P637091

Luminaire Tested: **IFLD-S-SA3B-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16690.1 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

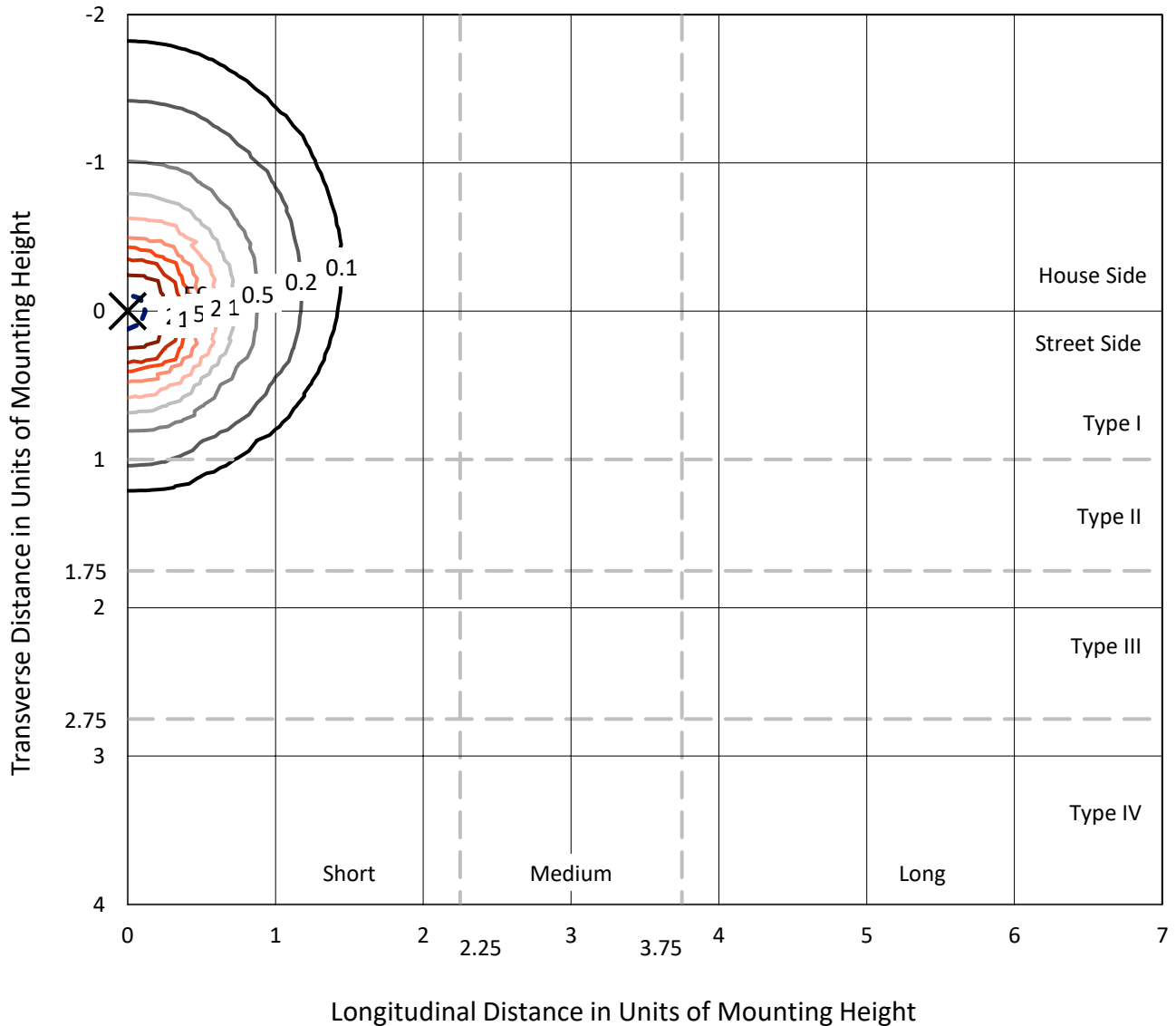
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

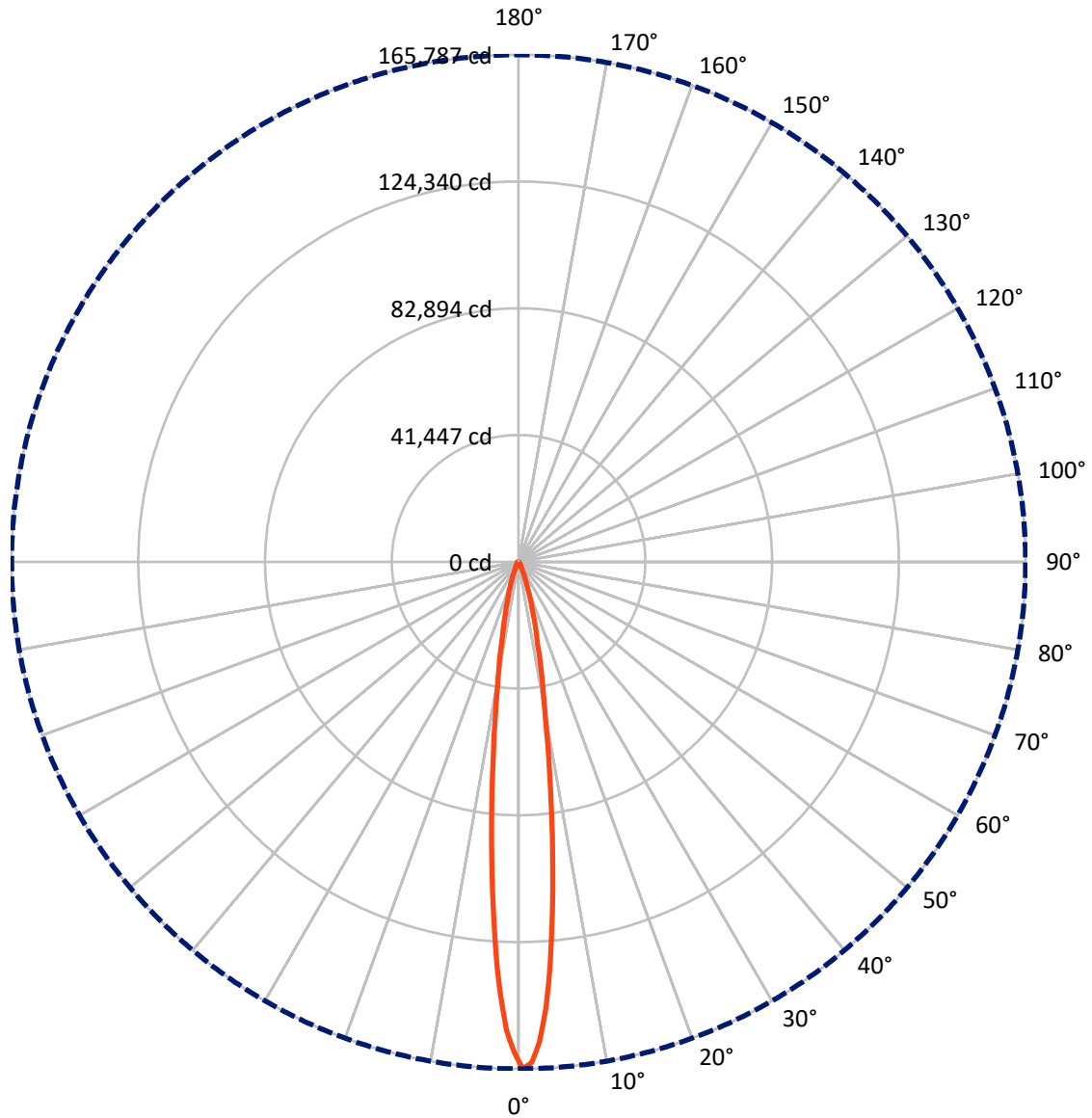
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 414.5 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	8548.4	0.0	8548.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8141.8	0.0	8141.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	16690.1	0.0	16690.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8425.7	50.5
10°-20°	5394.1	32.3
20°-30°	1621.4	9.7
30°-40°	527.9	3.2
40°-50°	307.2	1.8
50°-60°	204.0	1.2
60°-70°	122.8	0.7
70°-80°	63.1	0.4
80°-90°	24.0	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°	16690.1	100.0
0°-180°	16690.1	100.0

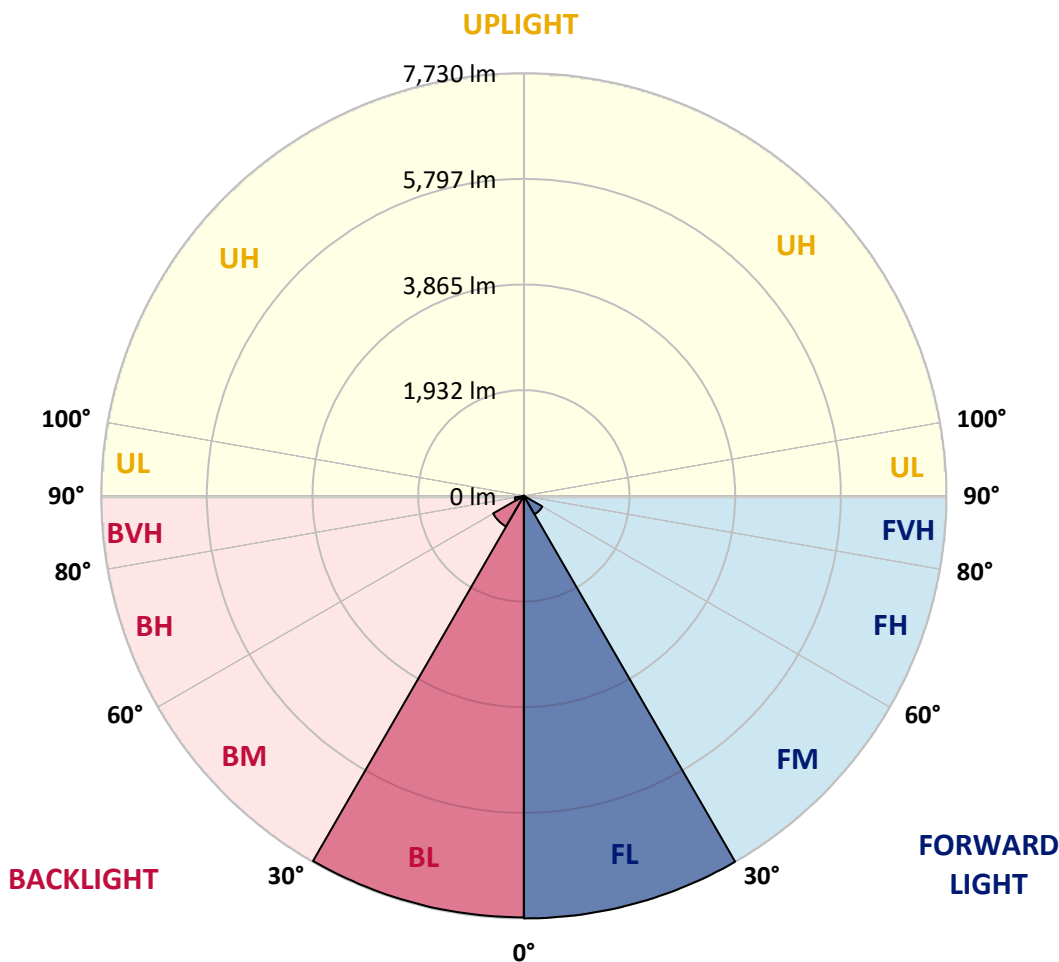


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7729.7	46.3			
FM (30°-60°)	390.1	2.3			
FH (60°-80°)	18.4	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7711.4	46.2	B5		
BM (30°-60°)	649.0	3.9	B1/1000		
BH (60°-80°)	167.6	1.0	B1/500		G0/660
BVH (80°-90°)	20.4	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°	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2
1°	163802.1	163302.2	162011.5	162929.5	163736.7	163502.2	163485.8	163398.5	163276.7	164232.9
2°	157254.3	156930.7	155022.0	155809.1	156956.2	156120.0	156643.5	156183.6	156192.7	157334.3
3°	146216.5	146392.8	143348.0	144778.6	146372.8	144346.0	144974.9	146156.5	144918.6	144545.9
4°	131870.2	130339.6	128676.3	130130.6	130543.2	129363.5	130523.2	131970.2	130250.6	130326.9
5°	115491.7	114361.0	112392.3	113290.3	112266.9	112639.5	114377.3	114973.6	113773.8	112263.2
6°	98651.4	97847.9	95386.6	96680.8	96317.3	96106.4	98300.5	96482.7	97137.1	96222.8
7°	82058.3	80556.8	79347.9	80587.7	80667.7	80033.2	82881.8	82550.9	81360.2	81083.9
8°	67986.5	66488.6	65465.2	66388.7	66992.2	65996.0	67335.8	68215.6	67284.9	67368.5
9°	54834.6	54571.0	53147.7	54354.7	55010.9	53943.9	55427.2	55745.3	54874.6	55298.1
10°	45023.8	44716.6	43580.5	44069.5	45156.5	43884.0	45307.4	45411.0	44716.6	44914.7
12.5°	27823.6	27700.0	27669.1	27740.0	27725.4	27950.8	28314.4	27899.9	27845.4	27160.1
15°	17983.7	18167.3	17978.3	18341.8	18394.5	18607.2	18385.4	18051.0	17412.9	17096.6
17.5°	11223.2	11457.7	11781.3	12313.9	12846.5	12908.4	12613.9	12221.2	11912.2	11574.1
20°	6456.9	6571.4	6522.3	7160.4	8538.3	8912.8	8532.9	8120.2	7747.6	7405.8
22.5°	4011.9	3970.1	4046.5	4261.0	4710.0	5867.9	5557.1	5144.4	4873.6	4591.8
25°	2459.5	2505.0	2475.9	2594.0	2795.8	3286.6	3357.5	3179.4	3041.2	2895.8
27.5°	1583.3	1583.3	1596.0	1661.5	1799.6	1783.3	2161.4	2023.2	1948.7	1877.8
30°	1099.8	1103.4	1103.4	1141.6	1172.5	1118.0	1216.1	1394.3	1359.7	1305.2
32.5°	816.2	827.1	836.2	856.2	830.7	772.6	796.2	1003.4	983.4	963.4
35°	621.7	630.8	652.6	663.5	627.1	590.8	569.0	738.0	747.1	741.7
37.5°	452.6	458.1	498.1	539.9	498.1	465.4	452.6	567.2	610.8	605.3
40°	347.2	349.0	356.3	403.6	403.6	378.1	381.7	423.6	499.9	499.9
42.5°	298.1	298.1	305.4	298.1	299.9	327.2	336.3	341.8	423.6	423.6
45°	258.1	258.1	261.8	243.6	225.4	281.8	289.0	290.9	356.3	365.4
47.5°	216.3	216.3	223.6	200.0	190.9	223.6	243.6	249.0	307.2	314.5
50°	160.0	161.8	183.6	163.6	169.1	172.7	210.9	214.5	259.9	276.3
52.5°	107.3	107.3	110.9	127.2	147.2	141.8	170.9	183.6	207.2	229.0
55°	87.3	87.3	85.4	81.8	109.1	118.2	125.4	152.7	169.1	196.3
57.5°	60.0	63.6	58.2	67.3	70.9	89.1	94.5	120.0	129.1	165.4
60°	7.3	9.1	12.7	49.1	47.3	60.0	70.9	94.5	105.4	127.2
62.5°	1.8	1.8	3.6	9.1	32.7	40.0	56.4	65.4	76.3	98.2
65°	0.0	0.0	1.8	3.6	7.3	21.8	29.1	38.2	54.5	69.1
67.5°	0.0	0.0	1.8	3.6	3.6	9.1	14.5	23.6	29.1	50.9
70°	0.0	0.0	1.8	3.6	3.6	7.3	9.1	10.9	20.0	27.3
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	9.1	18.2
75°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	7.3	7.3
77.5°	0.0	0.0	1.8	3.6	7.3	9.1	10.9	9.1	5.5	5.5
80°	0.0	0.0	1.8	5.5	9.1	12.7	14.5	10.9	5.5	3.6
82.5°	0.0	0.0	3.6	7.3	10.9	14.5	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.5	29.1	20.0	9.1	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	10.9	7.3	3.6	1.8
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°
165787.2	0°	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2	165787.2
163129.5	1°	164269.3	164383.8	164009.3	164589.2	164385.6	163193.1	162798.7	162331.5
156663.5	2°	156183.6	156767.1	156796.2	157439.7	157430.6	156040.0	155609.2	156403.6
145302.1	3°	144862.2	145542.1	144929.5	146072.9	145729.3	144042.4	143604.3	144505.9
130930.4	4°	130539.6	130410.5	130199.7	129548.9	130350.5	129199.9	128332.8	129556.2
114266.5	5°	114037.4	113750.2	113339.4	113146.7	113742.9	113006.7	111223.4	113010.3
97877.0	6°	97997.0	96760.8	96700.8	96593.6	96653.6	94592.2	94715.8	96046.4
80133.2	7°	80980.3	81207.6	80744.0	81487.5	80920.3	79524.2	78986.2	80387.7
67735.7	8°	67263.0	66975.8	66621.3	67732.0	66748.6	65832.4	65205.3	66312.3
55367.2	9°	55263.6	54767.3	54407.4	54351.1	54503.7	52784.1	53133.1	53971.1
45023.8	10°	45040.2	44225.8	44423.9	44476.6	44309.4	43182.4	43193.3	43482.3
27614.5	12.5°	27516.4	27116.4	27216.4	27271.0	27610.9	27214.6	26654.7	26251.2
17411.1	15°	17294.8	17007.5	17594.7	17989.2	17909.2	17556.5	17292.9	16927.6
11574.1	17.5°	11466.8	11843.1	11844.9	12204.9	12241.2	11888.6	11685.0	11355.9
7527.6	20°	7500.3	7656.7	7982.1	8236.6	8383.8	8114.8	7871.2	7645.8
4693.6	22.5°	4693.6	4966.3	5169.9	5500.7	5635.2	5438.9	5266.2	5082.6
2930.3	25°	2881.2	3075.8	3244.8	3532.0	3715.6	3621.1	3463.0	3333.9
1892.4	27.5°	1921.4	2003.2	2086.9	2285.0	2475.9	2423.2	2359.5	2281.4
1334.3	30°	1354.3	1361.5	1450.6	1561.5	1688.8	1721.5	1692.4	1652.4
979.8	32.5°	998.0	1027.1	1068.9	1138.0	1223.4	1301.6	1287.0	1268.8
748.9	35°	770.8	814.4	848.9	901.6	947.1	1021.6	1034.3	1028.9
616.2	37.5°	629.0	667.1	701.7	732.6	770.8	821.7	861.6	863.5
509.0	40°	521.7	556.3	601.7	625.3	652.6	690.8	739.9	743.5
430.8	42.5°	439.9	472.6	518.1	547.2	567.2	603.5	652.6	659.9
369.0	45°	378.1	398.1	445.4	479.9	499.9	523.5	576.2	583.5
318.1	47.5°	329.0	349.0	378.1	427.2	445.4	467.2	509.0	521.7
281.8	50°	289.0	309.0	334.5	378.1	405.4	423.6	458.1	476.3
245.4	52.5°	256.3	276.3	303.6	338.1	369.0	385.4	418.1	441.7
200.0	55°	214.5	249.0	269.0	299.9	341.8	356.3	381.7	412.6
174.5	57.5°	187.2	216.3	245.4	270.9	312.7	330.8	356.3	385.4
138.2	60°	158.2	185.4	220.0	241.8	281.8	305.4	332.7	359.9
105.4	62.5°	125.4	161.8	185.4	216.3	254.5	285.4	307.2	334.5
81.8	65°	92.7	132.7	160.0	192.7	229.0	261.8	279.9	309.0
58.2	67.5°	67.3	103.6	136.3	167.2	201.8	234.5	252.7	278.1
36.4	70°	52.7	76.3	112.7	140.0	176.3	203.6	223.6	240.0
23.6	72.5°	30.9	58.2	90.9	121.8	154.5	172.7	187.2	201.8
10.9	75°	20.0	45.4	74.5	101.8	125.4	141.8	154.5	167.2
5.5	77.5°	12.7	32.7	60.0	85.4	96.3	116.3	127.2	134.5
3.6	80°	7.3	25.4	52.7	69.1	78.2	90.9	101.8	110.9
3.6	82.5°	5.5	21.8	43.6	58.2	58.2	72.7	78.2	78.2
1.8	85°	3.6	18.2	34.5	54.5	43.6	54.5	50.9	50.9
1.8	87.5°	3.6	12.7	16.4	23.6	20.0	23.6	23.6	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
165787.2
160480.9
153038.8
140501.3
125127.9
108302.2
92189.0
76575.7
63151.1
51353.5
41515.4
26005.8
16740.3
11274.1
7567.6
4984.5
3259.4
2235.9
1625.1
1254.3
1010.7
850.7
738.0
654.4
581.7
523.5
478.1
441.7
414.5
387.2
367.2
347.2
314.5
279.9
245.4
205.4
167.2
130.9
100.0
72.7
49.1
27.3
0.0

(END OF REPORT)