

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: P637015

Luminaire Tested: **IFLD-M-SA4C-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20827.2 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

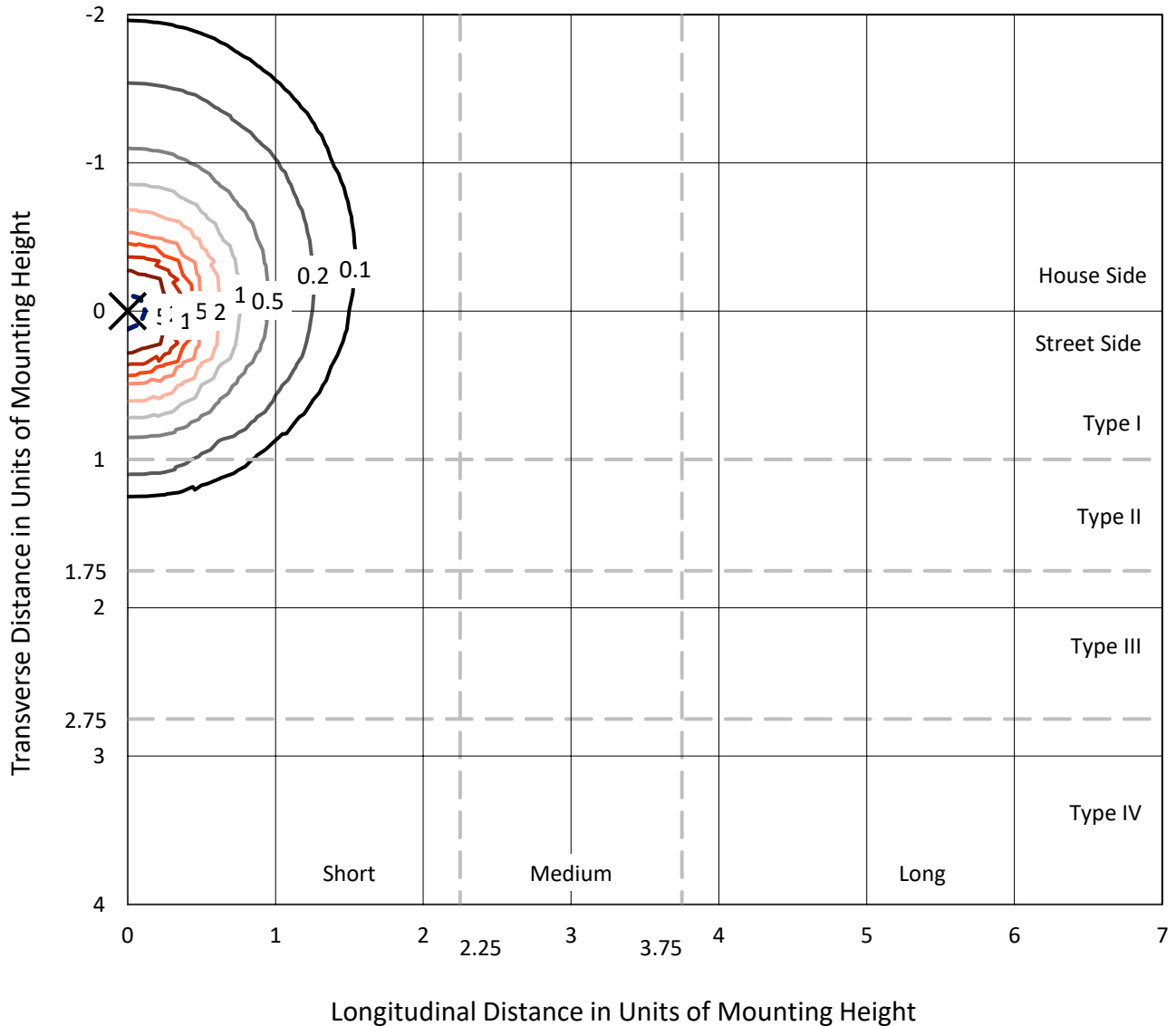
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

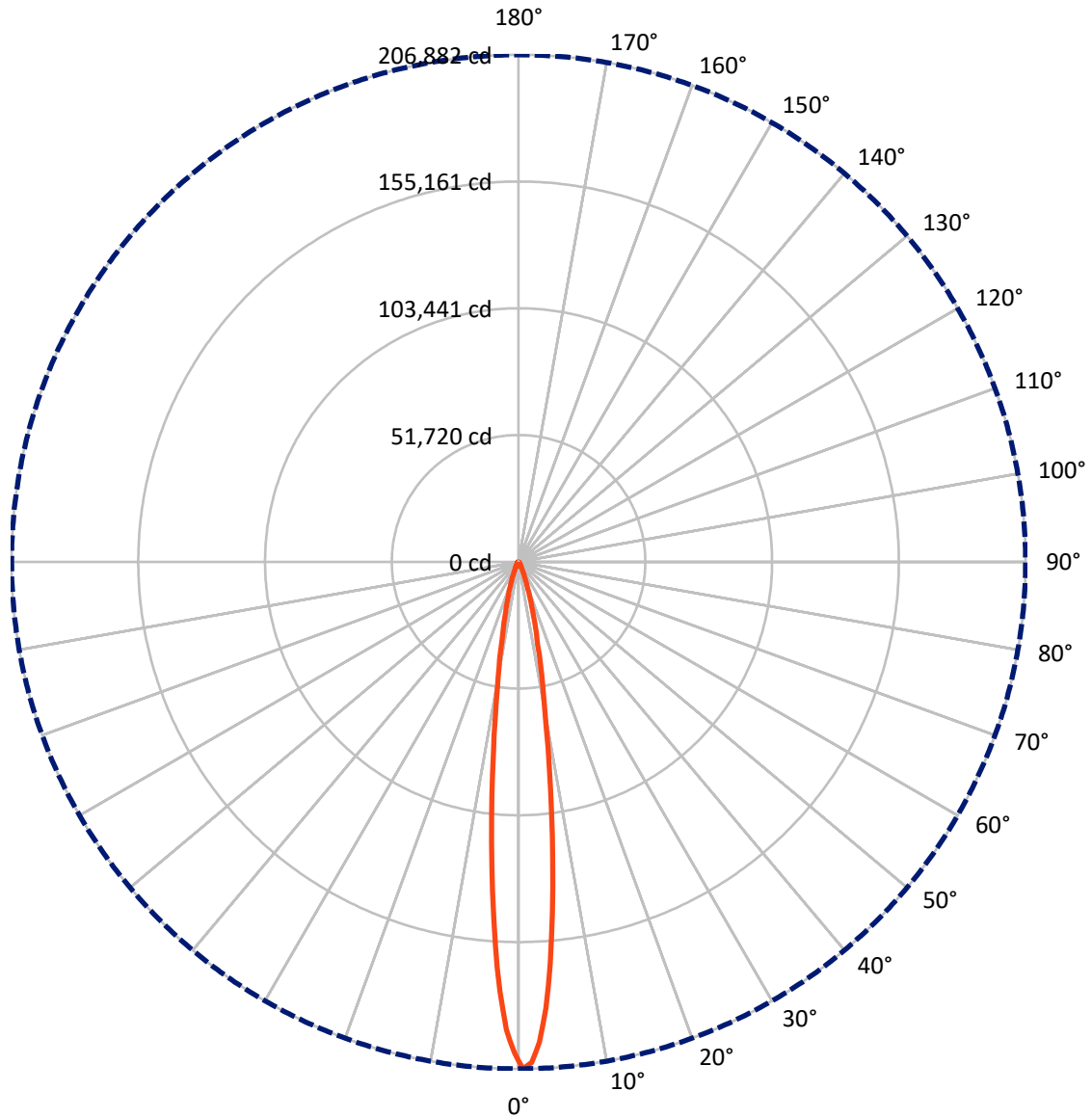
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 517.2 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	10667.3	0.0	10667.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10159.9	0.0	10159.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	20827.2	0.0	20827.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10514.2	50.5
10°-20°	6731.1	32.3
20°-30°	2023.2	9.7
30°-40°	658.8	3.2
40°-50°	383.3	1.8
50°-60°	254.6	1.2
60°-70°	153.2	0.7
70°-80°	78.8	0.4
80°-90°	29.9	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°	20827.2	100.0
0°-180°	20827.2	100.0

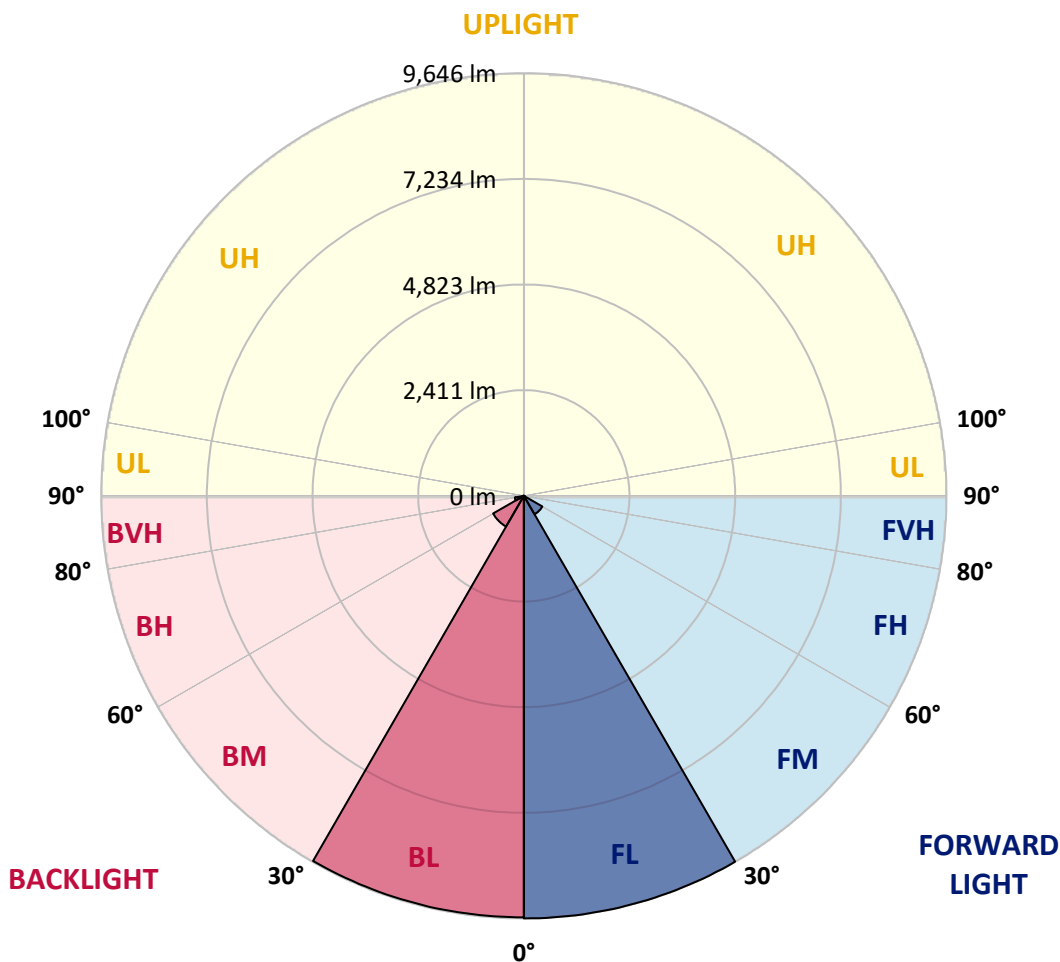


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9645.7	46.3			
FM (30°-60°)	486.7	2.3			
FH (60°-80°)	22.9	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9622.9	46.2	B5		
BM (30°-60°)	809.9	3.9	B1/1000		
BH (60°-80°)	209.1	1.0	B1/500		G0/660
BVH (80°-90°)	25.4	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°	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7
1°	204404.6	203780.8	202170.2	203315.8	204322.9	204030.3	204009.9	203901.0	203749.0	204942.2
2°	196233.8	195830.0	193448.2	194430.4	195861.8	194818.3	195471.6	194897.7	194909.0	196333.6
3°	182460.0	182680.0	178880.4	180665.6	182655.0	180125.8	180910.6	182385.1	180840.3	180375.3
4°	164557.6	162647.6	160572.0	162386.8	162901.7	161429.5	162876.7	164682.4	162536.5	162631.7
5°	144119.2	142708.3	140251.6	141372.2	140095.0	140560.1	142728.7	143472.7	141975.6	140090.5
6°	123104.6	122102.0	119030.5	120645.7	120192.0	119928.8	122666.8	120398.4	121215.0	120074.0
7°	102398.5	100524.8	99016.3	100563.4	100663.2	99871.5	103426.1	103013.3	101527.5	101182.7
8°	84838.7	82969.5	81692.4	82844.8	83597.9	82354.8	84026.6	85124.5	83963.1	84067.5
9°	68426.7	68097.8	66321.6	67827.9	68646.8	67315.2	69166.2	69563.2	68476.6	69005.2
10°	56184.1	55800.7	54383.0	54993.2	56349.7	54761.8	56538.0	56667.3	55800.7	56048.0
12.5°	34720.4	34566.1	34527.5	34616.0	34597.9	34879.1	35332.8	34815.6	34747.6	33892.4
15°	22441.4	22670.5	22434.6	22888.3	22954.1	23219.5	22942.7	22525.4	21729.1	21334.4
17.5°	14005.2	14297.8	14701.6	15366.2	16030.9	16108.0	15740.5	15250.6	14864.9	14443.0
20°	8057.4	8200.3	8139.1	8935.3	10654.7	11122.0	10647.9	10133.0	9668.0	9241.5
22.5°	5006.4	4954.2	5049.5	5317.2	5877.5	7322.4	6934.5	6419.6	6081.6	5730.0
25°	3069.2	3125.9	3089.6	3237.0	3488.8	4101.3	4189.8	3967.5	3795.1	3613.6
27.5°	1975.8	1975.8	1991.7	2073.3	2245.7	2225.3	2697.1	2524.7	2431.7	2343.3
30°	1372.4	1376.9	1376.9	1424.6	1463.1	1395.1	1517.6	1739.9	1696.8	1628.7
32.5°	1018.5	1032.1	1043.5	1068.4	1036.7	964.1	993.6	1252.2	1227.2	1202.3
35°	775.8	787.1	814.4	828.0	782.6	737.2	710.0	921.0	932.3	925.5
37.5°	564.8	571.6	621.5	673.7	621.5	580.7	564.8	707.7	762.2	755.4
40°	433.3	435.5	444.6	503.6	503.6	471.8	476.4	528.5	623.8	623.8
42.5°	372.0	372.0	381.1	372.0	374.3	408.3	419.7	426.5	528.5	528.5
45°	322.1	322.1	326.7	304.0	281.3	351.6	360.7	362.9	444.6	456.0
47.5°	269.9	269.9	279.0	249.5	238.2	279.0	304.0	310.8	383.4	392.4
50°	199.6	201.9	229.1	204.2	211.0	215.5	263.1	267.7	324.4	344.8
52.5°	133.8	133.8	138.4	158.8	183.7	176.9	213.2	229.1	258.6	285.8
55°	108.9	108.9	106.6	102.1	136.1	147.4	156.5	190.5	211.0	245.0
57.5°	74.9	79.4	72.6	83.9	88.5	111.2	118.0	149.7	161.1	206.4
60°	9.1	11.3	15.9	61.2	59.0	74.9	88.5	118.0	131.6	158.8
62.5°	2.3	2.3	4.5	11.3	40.8	49.9	70.3	81.7	95.3	122.5
65°	0.0	0.0	2.3	4.5	9.1	27.2	36.3	47.6	68.1	86.2
67.5°	0.0	0.0	2.3	4.5	4.5	11.3	18.1	29.5	36.3	63.5
70°	0.0	0.0	2.3	4.5	4.5	9.1	11.3	13.6	25.0	34.0
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	11.3	22.7
75°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	9.1	9.1
77.5°	0.0	0.0	2.3	4.5	9.1	11.3	13.6	11.3	6.8	6.8
80°	0.0	0.0	2.3	6.8	11.3	15.9	18.1	13.6	6.8	4.5
82.5°	0.0	0.0	4.5	9.1	13.6	18.1	25.0	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	36.3	25.0	11.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	13.6	9.1	4.5	2.3
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°
206881.7	0°	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7	206881.7
203565.3	1°	204987.6	205130.5	204663.2	205386.8	205132.8	203644.7	203152.4	202569.5
195496.5	2°	194897.7	195625.8	195662.1	196465.2	196453.8	194718.5	194180.9	195172.2
181318.9	3°	180770.0	181618.4	180853.9	182280.8	181852.0	179746.9	179200.2	180325.4
163384.9	4°	162897.2	162736.1	162473.0	161660.9	162661.2	161225.3	160143.3	161669.9
142590.3	5°	142304.5	141946.1	141433.4	141193.0	141937.0	141018.3	138793.0	141022.8
122138.3	6°	122288.0	120745.5	120670.6	120536.8	120611.6	118039.2	118193.5	119854.0
99996.3	7°	101053.4	101336.9	100758.5	101686.2	100978.5	99236.4	98564.9	100313.8
84525.7	8°	83935.9	83577.5	83135.1	84521.1	83293.9	82150.6	81368.0	82749.5
69091.4	9°	68962.1	68342.8	67893.7	67823.3	68013.9	65868.0	66303.5	67349.2
56184.1	10°	56204.5	55188.3	55435.5	55501.3	55292.6	53886.2	53899.8	54260.5
34459.5	12.5°	34337.0	33837.9	33962.7	34030.8	34455.0	33960.4	33261.8	32758.2
21726.9	15°	21581.7	21223.3	21956.0	22448.2	22348.4	21908.4	21579.4	21123.5
14443.0	17.5°	14309.2	14778.7	14781.0	15230.1	15275.5	14835.4	14581.4	14170.8
9393.5	20°	9359.5	9554.6	9960.6	10278.2	10461.9	10126.2	9822.2	9541.0
5857.0	22.5°	5857.0	6197.3	6451.4	6864.2	7032.1	6787.1	6571.6	6342.5
3656.7	25°	3595.4	3838.2	4049.1	4407.5	4636.6	4518.7	4321.3	4160.3
2361.4	27.5°	2397.7	2499.8	2604.1	2851.4	3089.6	3023.8	2944.4	2846.9
1665.0	30°	1690.0	1699.0	1810.2	1948.6	2107.4	2148.2	2111.9	2062.0
1222.7	32.5°	1245.4	1281.7	1333.8	1420.0	1526.6	1624.2	1606.0	1583.4
934.6	35°	961.8	1016.2	1059.3	1125.1	1181.8	1274.8	1290.7	1283.9
769.0	37.5°	784.9	832.5	875.6	914.2	961.8	1025.3	1075.2	1077.5
635.2	40°	651.0	694.1	750.8	780.3	814.4	862.0	923.2	927.8
537.6	42.5°	549.0	589.8	646.5	682.8	707.7	753.1	814.4	823.4
460.5	45°	471.8	496.8	555.8	598.9	623.8	653.3	719.1	728.2
397.0	47.5°	410.6	435.5	471.8	533.1	555.8	583.0	635.2	651.0
351.6	50°	360.7	385.6	417.4	471.8	505.9	528.5	571.6	594.3
306.2	52.5°	319.8	344.8	378.8	421.9	460.5	480.9	521.7	551.2
249.5	55°	267.7	310.8	335.7	374.3	426.5	444.6	476.4	514.9
217.8	57.5°	233.6	269.9	306.2	338.0	390.2	412.9	444.6	480.9
172.4	60°	197.4	231.4	274.5	301.7	351.6	381.1	415.1	449.1
131.6	62.5°	156.5	201.9	231.4	269.9	317.6	356.1	383.4	417.4
102.1	65°	115.7	165.6	199.6	240.5	285.8	326.7	349.3	385.6
72.6	67.5°	83.9	129.3	170.1	208.7	251.8	292.6	315.3	347.1
45.4	70°	65.8	95.3	140.6	174.7	220.0	254.1	279.0	299.4
29.5	72.5°	38.6	72.6	113.4	152.0	192.8	215.5	233.6	251.8
13.6	75°	25.0	56.7	93.0	127.0	156.5	176.9	192.8	208.7
6.8	77.5°	15.9	40.8	74.9	106.6	120.2	145.2	158.8	167.9
4.5	80°	9.1	31.8	65.8	86.2	97.5	113.4	127.0	138.4
4.5	82.5°	6.8	27.2	54.4	72.6	72.6	90.7	97.5	97.5
2.3	85°	4.5	22.7	43.1	68.1	54.4	68.1	63.5	63.5
2.3	87.5°	4.5	15.9	20.4	29.5	25.0	29.5	29.5	34.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
206881.7
200260.2
190973.3
175328.1
156144.1
135147.6
115040.4
95557.0
78804.7
64082.7
51806.1
32451.9
20889.8
14068.7
9443.4
6220.0
4067.3
2790.2
2028.0
1565.2
1261.2
1061.6
921.0
816.6
725.9
653.3
596.6
551.2
517.2
483.2
458.2
433.3
392.4
349.3
306.2
256.3
208.7
163.3
124.8
90.7
61.2
34.0
0.0

(END OF REPORT)