

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: P637027

Luminaire Tested: **IFLD-S-SA2A-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7678.3 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

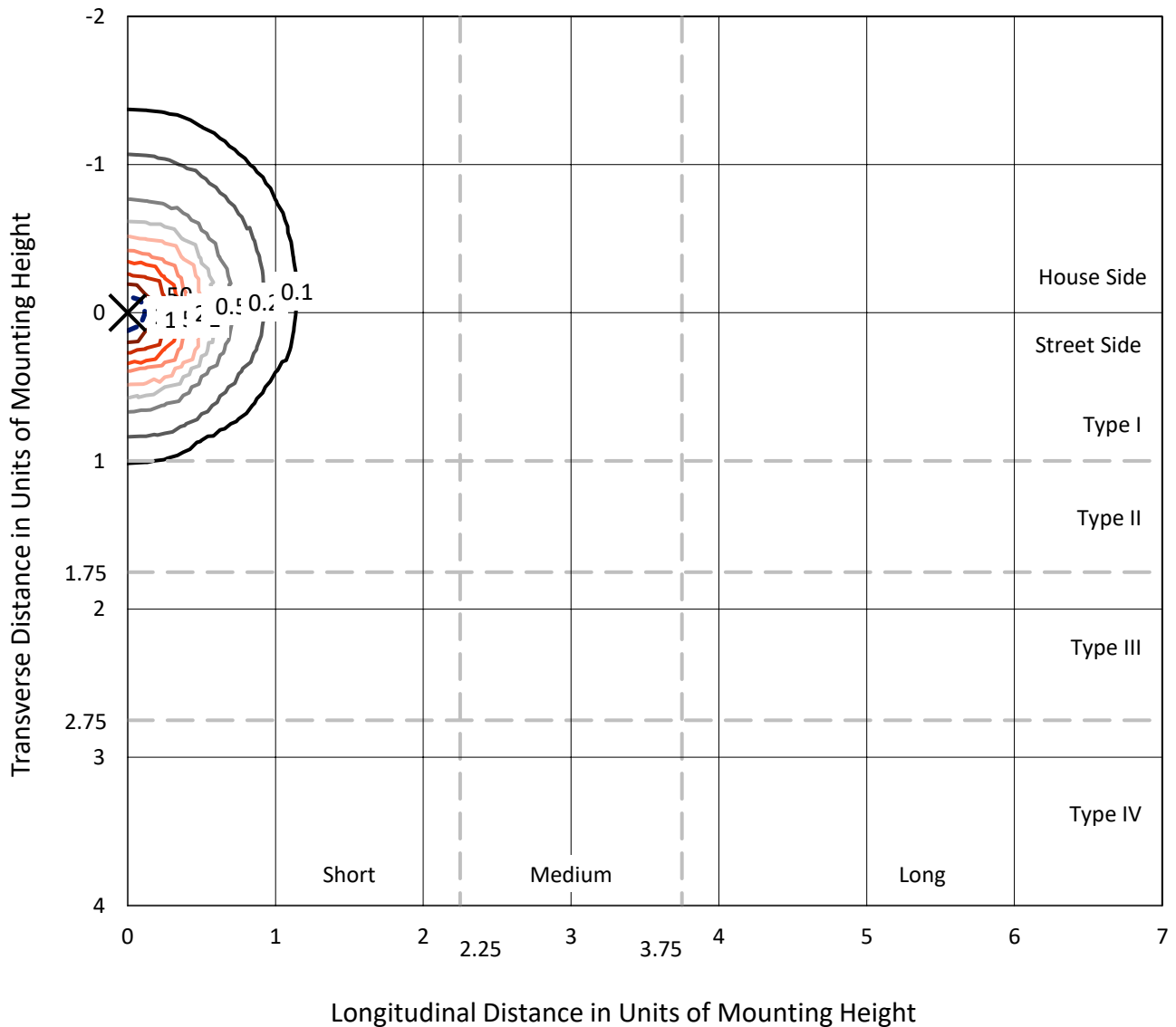
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637027
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Iso-Footcandle Lines of Horizontal Illumination

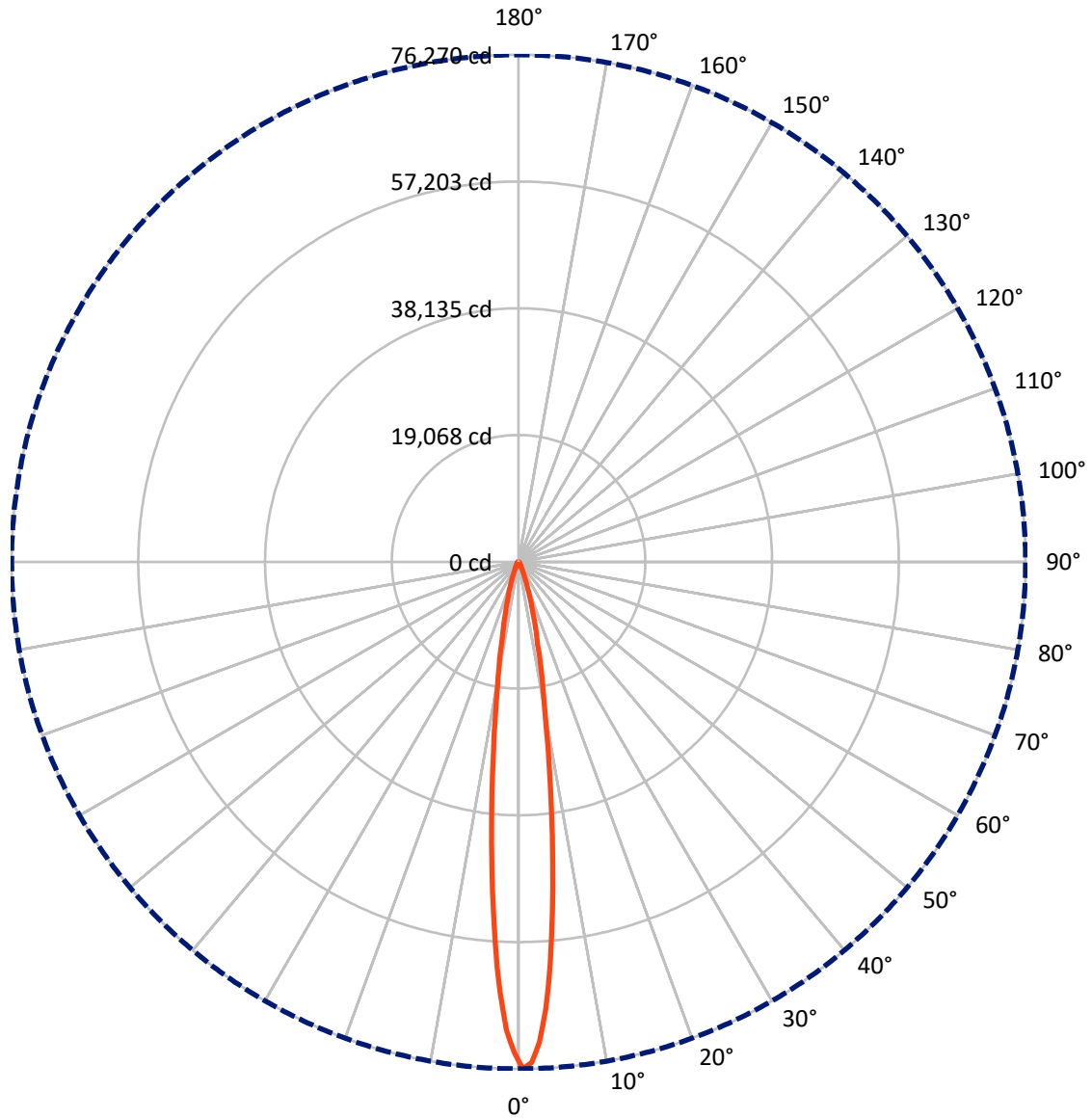
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 190.7 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	3932.7	0.0	3932.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	3745.6	0.0	3745.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	7678.3	0.0	7678.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3876.2	50.5
10°-20°	2481.6	32.3
20°-30°	745.9	9.7
30°-40°	242.9	3.2
40°-50°	141.3	1.8
50°-60°	93.9	1.2
60°-70°	56.5	0.7
70°-80°	29.0	0.4
80°-90°	11.0	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°	7678.3	100.0
0°-180°	7678.3	100.0

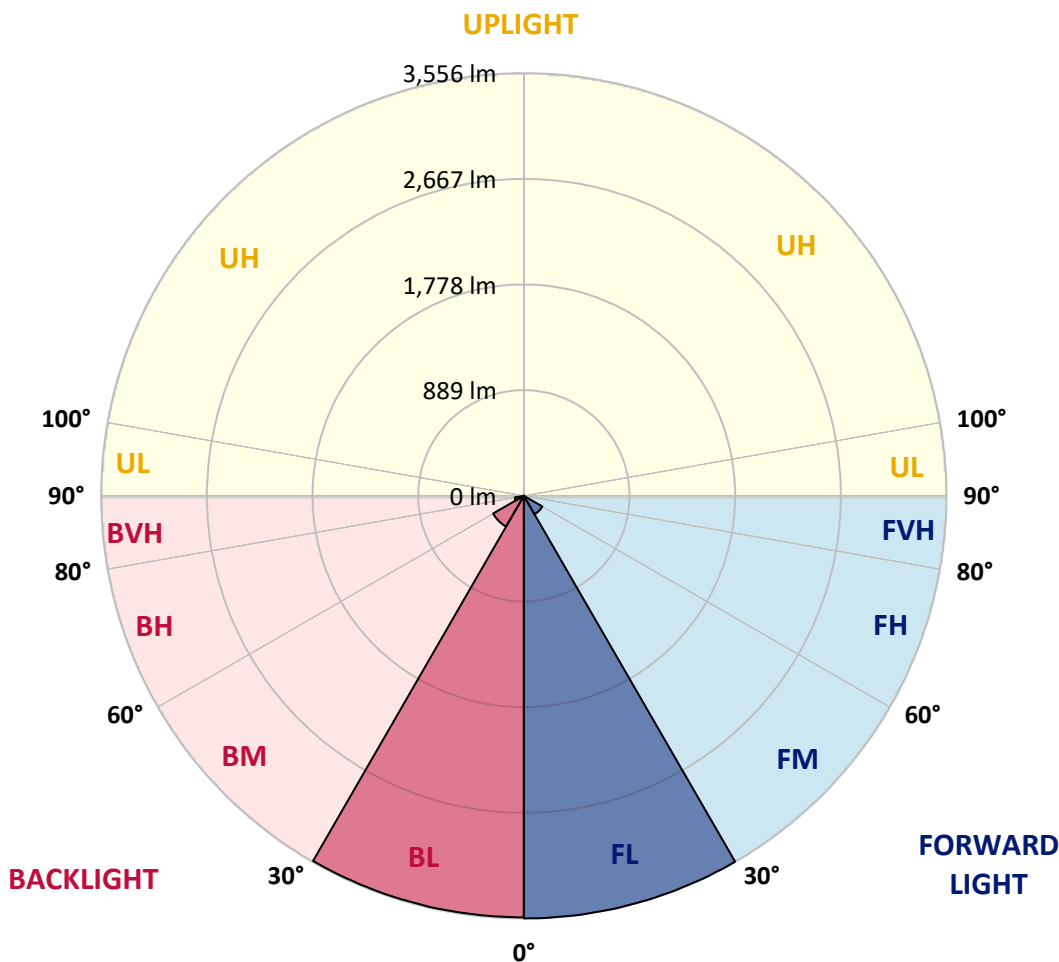


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3556.1	46.3			
FM (30°-60°)	179.4	2.3			
FH (60°-80°)	8.4	0.1			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	3547.6	46.2	B4/5000		
BM (30°-60°)	298.6	3.9	B1/1000		
BH (60°-80°)	77.1	1.0	B0/110		G0/660
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4
1°	75357.2	75127.2	74533.4	74955.8	75327.1	75219.2	75211.7	75171.5	75115.5	75555.4
2°	72344.9	72196.0	71317.9	71680.0	72207.7	71823.0	72063.9	71852.3	71856.5	72381.7
3°	67266.9	67348.0	65947.3	66605.4	67338.8	66406.4	66695.7	67239.3	66669.8	66498.4
4°	60666.9	59962.8	59197.6	59866.6	60056.4	59513.7	60047.2	60712.9	59921.8	59956.9
5°	53132.0	52611.8	51706.1	52119.2	51648.4	51819.8	52619.3	52893.6	52341.7	51646.7
6°	45384.6	45014.9	43882.6	44478.0	44310.8	44213.8	45223.2	44386.9	44687.9	44267.3
7°	37750.9	37060.2	36504.0	37074.4	37111.2	36819.3	38129.8	37977.6	37429.8	37302.7
8°	31277.2	30588.1	30117.3	30542.1	30819.8	30361.5	30977.8	31382.6	30954.4	30992.9
9°	25226.7	25105.4	24450.6	25005.9	25307.8	24816.9	25499.3	25645.6	25245.1	25439.9
10°	20713.2	20571.9	20049.2	20274.2	20774.3	20188.9	20843.7	20891.3	20571.9	20663.0
12.5°	12800.2	12743.4	12729.2	12761.8	12755.1	12858.8	13026.0	12835.4	12810.3	12495.0
15°	8273.4	8357.9	8270.9	8438.2	8462.4	8560.3	8458.2	8304.4	8010.8	7865.3
17.5°	5163.2	5271.1	5420.0	5665.0	5910.1	5938.5	5803.0	5622.4	5480.2	5324.7
20°	2970.5	3023.2	3000.6	3294.1	3928.1	4100.3	3925.5	3735.7	3564.3	3407.0
22.5°	1845.7	1826.5	1861.6	1960.3	2166.8	2699.5	2556.5	2366.7	2242.1	2112.5
25°	1131.5	1152.4	1139.0	1193.4	1286.2	1512.0	1544.6	1462.7	1399.1	1332.2
27.5°	728.4	728.4	734.3	764.4	827.9	820.4	994.3	930.8	896.5	863.9
30°	506.0	507.6	507.6	525.2	539.4	514.3	559.5	641.4	625.5	600.5
32.5°	375.5	380.5	384.7	393.9	382.2	355.4	366.3	461.6	452.4	443.2
35°	286.0	290.2	300.2	305.2	288.5	271.8	261.8	339.5	343.7	341.2
37.5°	208.2	210.7	229.1	248.4	229.1	214.1	208.2	260.9	281.0	278.5
40°	159.7	160.6	163.9	185.7	185.7	173.9	175.6	194.9	230.0	230.0
42.5°	137.2	137.2	140.5	137.2	138.0	150.5	154.7	157.2	194.9	194.9
45°	118.8	118.8	120.4	112.1	103.7	129.6	133.0	133.8	163.9	168.1
47.5°	99.5	99.5	102.9	92.0	87.8	102.9	112.1	114.6	141.3	144.7
50°	73.6	74.4	84.5	75.3	77.8	79.4	97.0	98.7	119.6	127.1
52.5°	49.3	49.3	51.0	58.5	67.7	65.2	78.6	84.5	95.3	105.4
55°	40.1	40.1	39.3	37.6	50.2	54.4	57.7	70.2	77.8	90.3
57.5°	27.6	29.3	26.8	30.9	32.6	41.0	43.5	55.2	59.4	76.1
60°	3.3	4.2	5.9	22.6	21.7	27.6	32.6	43.5	48.5	58.5
62.5°	0.8	0.8	1.7	4.2	15.1	18.4	25.9	30.1	35.1	45.2
65°	0.0	0.0	0.8	1.7	3.3	10.0	13.4	17.6	25.1	31.8
67.5°	0.0	0.0	0.8	1.7	1.7	4.2	6.7	10.9	13.4	23.4
70°	0.0	0.0	0.8	1.7	1.7	3.3	4.2	5.0	9.2	12.5
72.5°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	4.2	4.2	8.4
75°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	4.2	3.3	3.3
77.5°	0.0	0.0	0.8	1.7	3.3	4.2	5.0	4.2	2.5	2.5
80°	0.0	0.0	0.8	2.5	4.2	5.9	6.7	5.0	2.5	1.7
82.5°	0.0	0.0	1.7	3.3	5.0	6.7	9.2	7.5	3.3	1.7
85°	0.0	0.0	0.8	2.5	5.0	6.7	13.4	9.2	4.2	0.8
87.5°	0.0	0.0	0.0	0.8	0.8	1.7	5.0	3.3	1.7	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637027
 CATALOG NUMBER: IFLD-S-SA2A-727-U-33-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
76270.4	0°	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4	76270.4
75047.7	1°	75572.1	75624.8	75452.5	75719.3	75625.6	75077.0	74895.5	74680.6	74371.2
72073.1	2°	71852.3	72120.7	72134.1	72430.2	72426.0	71786.2	71588.0	71953.5	71240.1
66846.3	3°	66643.9	66956.7	66674.8	67200.8	67042.8	66266.7	66065.2	66480.0	65961.5
60234.6	4°	60054.8	59995.4	59898.4	59599.0	59967.8	59438.4	59039.5	59602.3	58493.4
52568.3	5°	52462.9	52330.8	52141.8	52053.1	52327.4	51988.7	51168.4	51990.4	50012.6
45028.3	6°	45083.5	44514.8	44487.2	44437.9	44465.5	43517.1	43574.0	44186.2	42540.4
36865.3	7°	37255.0	37359.5	37146.3	37488.3	37227.4	36585.1	36337.6	36982.4	35819.1
31161.8	8°	30944.4	30812.2	30649.2	31160.1	30707.7	30286.2	29997.7	30507.0	29643.1
25471.7	9°	25424.0	25195.7	25030.1	25004.2	25074.5	24283.3	24443.9	24829.4	24309.3
20713.2	10°	20720.7	20346.1	20437.2	20461.5	20384.5	19866.0	19871.1	20004.0	19378.5
12704.1	12.5°	12658.9	12474.9	12520.9	12546.0	12702.4	12520.1	12262.5	12076.9	11983.2
8010.0	15°	7956.5	7824.3	8094.4	8275.9	8239.1	8076.9	7955.6	7787.5	7652.0
5324.7	17.5°	5275.3	5448.4	5449.3	5614.8	5631.6	5469.3	5375.7	5224.3	5231.0
3463.1	20°	3450.5	3522.4	3672.1	3789.2	3857.0	3733.2	3621.1	3517.4	3473.9
2159.3	22.5°	2159.3	2284.7	2378.4	2530.6	2592.5	2502.2	2422.7	2338.3	2286.4
1348.1	25°	1325.5	1415.0	1492.8	1624.9	1709.4	1665.9	1593.1	1533.8	1506.2
870.6	27.5°	884.0	921.6	960.1	1051.2	1139.0	1114.8	1085.5	1049.5	1037.0
613.8	30°	623.0	626.4	667.4	718.4	776.9	792.0	778.6	760.2	746.0
450.8	32.5°	459.1	472.5	491.7	523.5	562.8	598.8	592.1	583.7	577.0
344.6	35°	354.6	374.7	390.5	414.8	435.7	470.0	475.8	473.3	468.3
283.5	37.5°	289.4	306.9	322.8	337.0	354.6	378.0	396.4	397.2	392.2
234.2	40°	240.0	255.9	276.8	287.7	300.2	317.8	340.4	342.0	340.4
198.2	42.5°	202.4	217.4	238.3	251.7	260.9	277.6	300.2	303.6	300.2
169.8	45°	173.9	183.1	204.9	220.8	230.0	240.9	265.1	268.4	267.6
146.4	47.5°	151.4	160.6	173.9	196.5	204.9	214.9	234.2	240.0	240.0
129.6	50°	133.0	142.2	153.9	173.9	186.5	194.9	210.7	219.1	219.1
112.9	52.5°	117.9	127.1	139.7	155.5	169.8	177.3	192.3	203.2	203.2
92.0	55°	98.7	114.6	123.8	138.0	157.2	163.9	175.6	189.8	189.8
80.3	57.5°	86.1	99.5	112.9	124.6	143.8	152.2	163.9	177.3	179.0
63.6	60°	72.8	85.3	101.2	111.2	129.6	140.5	153.0	165.6	168.9
48.5	62.5°	57.7	74.4	85.3	99.5	117.1	131.3	141.3	153.9	158.9
37.6	65°	42.7	61.0	73.6	88.6	105.4	120.4	128.8	142.2	145.5
26.8	67.5°	30.9	47.7	62.7	76.9	92.8	107.9	116.2	128.0	130.5
16.7	70°	24.3	35.1	51.8	64.4	81.1	93.7	102.9	110.4	112.9
10.9	72.5°	14.2	26.8	41.8	56.0	71.1	79.4	86.1	92.8	94.5
5.0	75°	9.2	20.9	34.3	46.8	57.7	65.2	71.1	76.9	77.8
2.5	77.5°	5.9	15.1	27.6	39.3	44.3	53.5	58.5	61.9	60.2
1.7	80°	3.3	11.7	24.3	31.8	36.0	41.8	46.8	51.0	46.8
1.7	82.5°	2.5	10.0	20.1	26.8	26.8	33.5	36.0	36.0	34.3
0.8	85°	1.7	8.4	15.9	25.1	20.1	25.1	23.4	23.4	23.4
0.8	87.5°	1.7	5.9	7.5	10.9	9.2	10.9	10.9	12.5	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
76270.4
73829.3
70405.5
64637.6
57565.1
49824.4
42411.6
35228.7
29052.7
23625.2
19099.2
11964.0
7701.4
5186.7
3481.5
2293.1
1499.5
1028.6
747.6
577.0
465.0
391.4
339.5
301.1
267.6
240.9
219.9
203.2
190.7
178.1
168.9
159.7
144.7
128.8
112.9
94.5
76.9
60.2
46.0
33.5
22.6
12.5
0.0

(END OF REPORT)