

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: P637588

Luminaire Tested: **IFLD-S-SA6A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637588
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23086.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 189.6
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



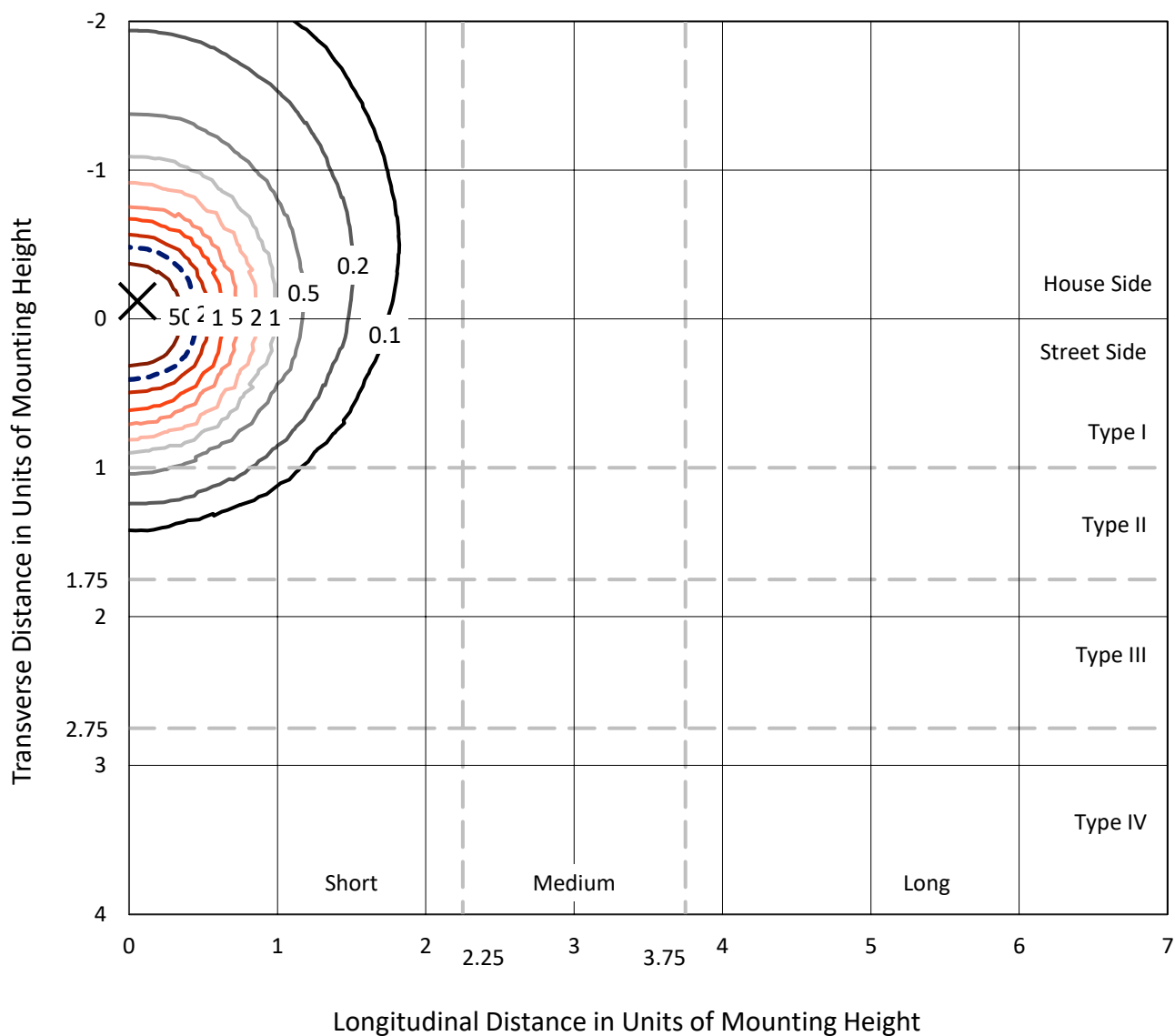
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



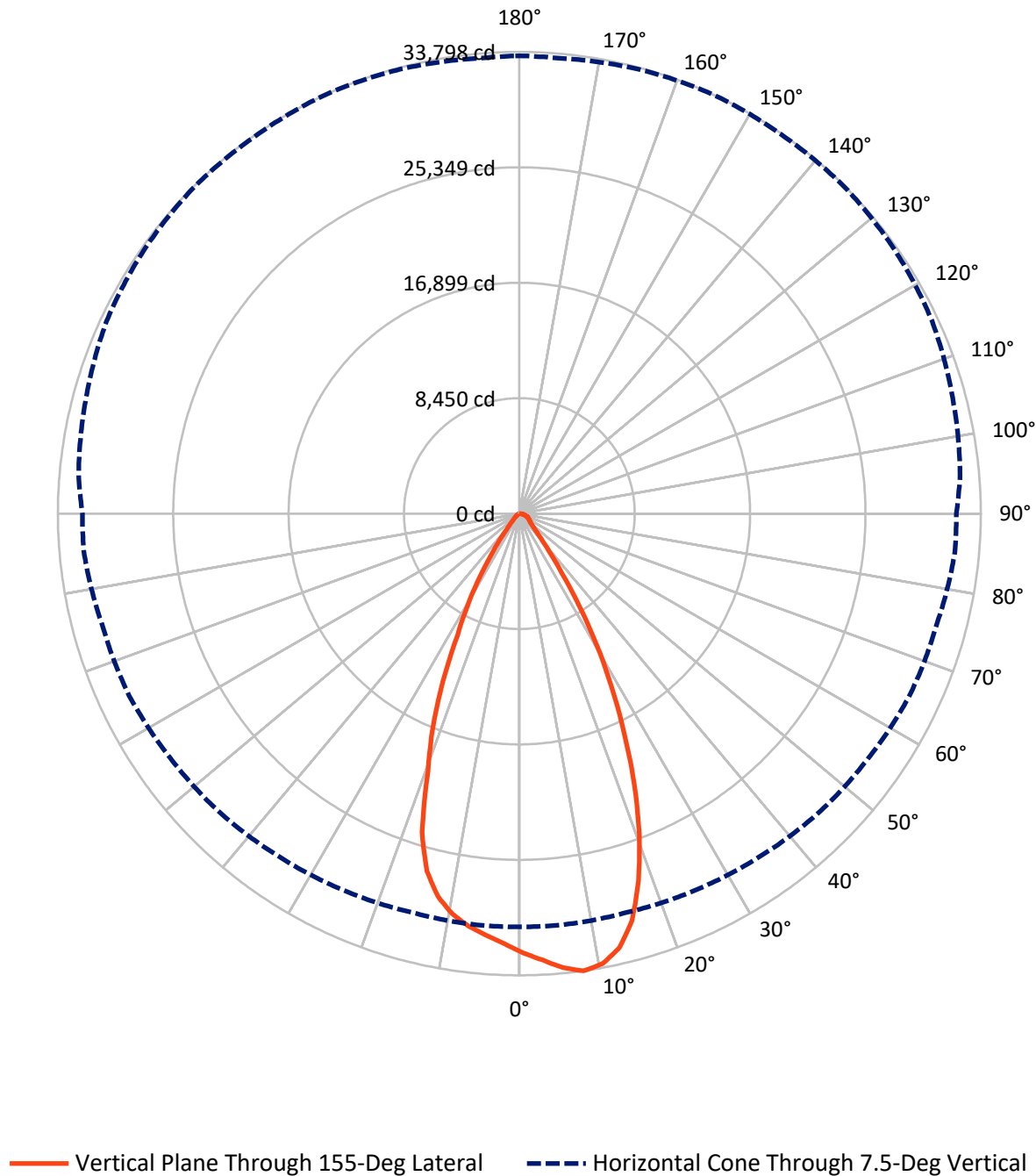
Based on 20 foot mounting height. Maximum calculated value = 81.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12744.4	0.0	12744.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10341.8	0.0	10341.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	23086.2	0.0	23086.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3066.8	13.3
10°-20°	7952.1	34.4
20°-30°	7286.3	31.6
30°-40°	2943.7	12.8
40°-50°	863.5	3.7
50°-60°	482.8	2.1
60°-70°	293.3	1.3
70°-80°	149.0	0.6
80°-90°	48.7	0.2
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°	23086.2	100.0
0°-180°	23086.2	100.0

Coefficient of Utilization



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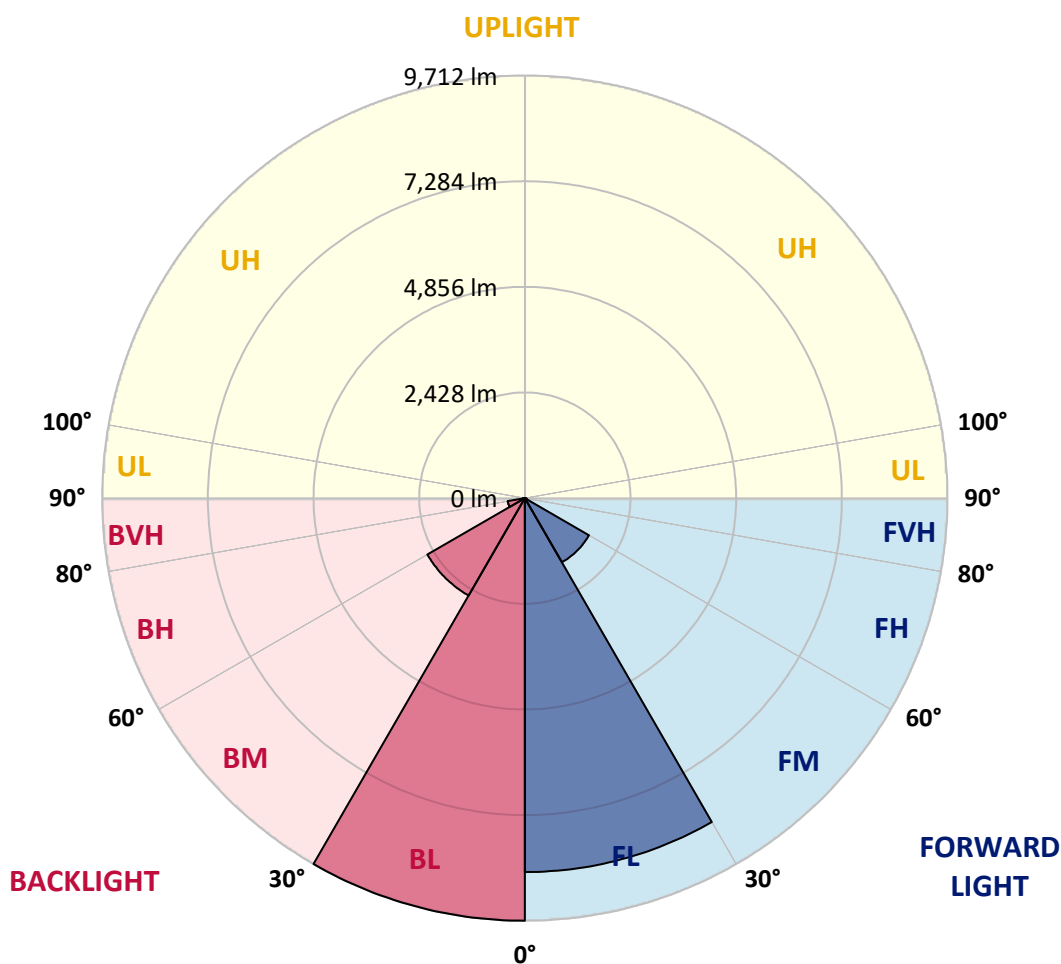
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8593.3	37.2			
FM	(30°-60°)	1703.0	7.4			
FH	(60°-80°)	41.3	0.2			G0/660
FVH	(80°-90°)	4.2	0.0			G0/10
BL	(0°-30°)	9711.9	42.1	B5		
BM	(30°-60°)	2587.0	11.2	B3/5000		
BH	(60°-80°)	401.0	1.7	B1/500		G1/500
BVH	(80°-90°)	44.5	0.2			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9
2.5°	31463.4	31569.9	31357.0	31498.0	31607.2	31868.1	31889.4	31979.9	32011.8	32248.8
5°	30867.1	30949.7	30776.6	30965.6	31120.0	31351.6	31530.0	31780.2	31918.7	32198.2
7.5°	30246.9	30265.5	30230.9	30430.5	30662.1	30981.6	31202.6	31530.0	31615.2	32014.5
10°	29496.1	29360.4	29426.9	29719.8	30065.8	30555.7	30707.4	31034.8	31186.6	31593.9
12.5°	28298.2	28367.4	28284.9	28657.6	28945.1	29501.5	29661.2	29991.3	30281.5	30640.8
15°	26610.4	26570.5	26738.2	27028.4	27339.8	27781.7	28040.0	28399.4	28620.3	28993.0
17.5°	22816.9	22952.7	23644.8	24371.6	25010.5	25526.9	25835.7	26133.9	26293.6	26698.3
20°	19704.9	19534.5	19627.7	20037.7	21855.9	22646.5	22971.3	23043.2	23109.7	23429.2
22.5°	16225.5	16169.6	16481.1	16941.6	17372.9	19196.5	19638.4	19470.6	19609.1	19909.9
25°	12048.7	12330.9	12607.7	13491.6	14050.6	14945.1	15783.6	15858.2	15908.8	16097.8
27.5°	9807.2	9708.7	9703.4	9951.0	10776.2	11521.6	12235.0	12400.1	12370.8	12551.8
30°	7709.5	7677.5	7565.7	7624.3	7541.7	8204.6	8540.0	9218.9	9181.6	9186.9
32.5°	5561.1	5441.3	5396.1	5483.9	5398.8	5337.5	5630.4	6397.0	6383.7	6437.0
35°	3364.9	3348.9	3386.2	3463.4	3293.0	3287.7	3348.9	4070.4	4158.2	4243.4
37.5°	1858.2	1842.2	1871.5	2156.3	2100.4	2049.8	2065.8	2446.5	2699.4	2763.3
40°	1224.6	1221.9	1243.2	1293.8	1389.6	1371.0	1379.0	1549.3	1788.9	1844.8
42.5°	819.9	822.6	835.9	894.5	907.8	1003.6	987.6	1027.6	1251.2	1299.1
45°	654.9	652.2	660.2	633.6	649.6	748.1	758.7	761.4	953.0	982.3
47.5°	516.4	516.4	524.4	489.8	481.8	543.1	599.0	607.0	761.4	801.3
50°	362.0	362.0	402.0	386.0	404.6	423.3	484.5	492.5	622.9	665.5
52.5°	266.2	271.5	276.9	279.5	340.7	338.1	391.3	428.6	471.2	545.7
55°	202.3	207.6	194.3	207.6	252.9	282.2	292.8	346.1	375.4	457.9
57.5°	133.1	146.4	135.8	159.7	170.4	218.3	234.3	284.8	303.5	375.4
60°	18.6	21.3	34.6	111.8	119.8	143.8	181.0	226.3	244.9	306.1
62.5°	2.7	2.7	8.0	18.6	79.9	95.8	135.8	157.1	181.0	228.9
65°	0.0	0.0	2.7	5.3	16.0	55.9	69.2	85.2	125.1	165.1
67.5°	0.0	0.0	2.7	5.3	8.0	18.6	29.3	55.9	71.9	114.5
70°	0.0	0.0	2.7	5.3	8.0	10.6	16.0	21.3	42.6	66.6
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	16.0	18.6	42.6
75°	0.0	0.0	2.7	5.3	8.0	13.3	16.0	16.0	16.0	18.6
77.5°	0.0	0.0	2.7	5.3	10.6	16.0	18.6	16.0	13.3	13.3
80°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	16.0	10.6	8.0
82.5°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	18.6	10.6	8.0
85°	0.0	0.0	2.7	8.0	10.6	13.3	21.3	18.6	10.6	5.3
87.5°	0.0	0.0	0.0	2.7	2.7	5.3	10.6	8.0	5.3	2.7
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°
32160.9	0°	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9	32160.9
32243.4	2.5°	32483.0	32602.8	32813.1	32871.7	33052.7	32845.1	32730.6	32741.3	32493.7
32163.6	5°	32483.0	32757.2	33124.6	33300.3	33433.4	33422.8	33393.5	33318.9	33137.9
32003.8	7.5°	32397.8	32845.1	33350.9	33585.1	33744.9	33731.6	33798.1	33678.3	33457.4
31719.0	10°	32123.6	32512.3	33135.2	33326.9	33585.1	33590.5	33507.9	33531.9	33137.9
30678.1	12.5°	31261.1	31564.6	32110.3	32328.6	32642.8	32693.3	32602.8	32568.2	32195.5
28971.7	15°	29592.0	29767.7	30316.1	30534.4	30845.8	30803.2	30893.8	30856.5	30529.0
26666.3	17.5°	27150.8	27206.7	27781.7	27965.4	28258.3	28372.7	28237.0	28410.0	28127.8
23485.1	20°	23650.2	23951.0	24597.9	24880.1	25050.4	25255.4	25077.0	25271.4	24941.3
19625.1	22.5°	20098.9	20277.3	20862.9	21270.2	21587.0	21627.0	21560.4	21696.2	21251.6
16222.9	25°	16220.2	16515.7	16978.9	17511.3	17822.8	18014.5	17841.4	17929.3	17857.4
12581.1	27.5°	12794.1	13057.6	13406.4	13803.0	14271.6	14521.8	14383.4	14532.4	14181.0
9381.3	30°	9389.3	9522.4	9916.3	10337.0	10850.7	11154.2	11167.5	11319.3	11111.6
6572.7	32.5°	6620.7	6737.8	6980.0	7259.6	7749.4	8087.5	8034.2	8055.5	7927.8
4283.3	35°	4304.6	4461.7	4634.7	4767.8	5063.3	5436.0	5406.7	5380.1	5292.3
2816.5	37.5°	2877.7	2939.0	3034.8	3154.6	3346.3	3580.5	3657.7	3561.9	3524.6
1900.7	40°	1946.0	2052.5	2116.4	2206.9	2297.4	2494.4	2547.6	2529.0	2491.7
1331.1	42.5°	1381.6	1464.2	1544.0	1631.9	1679.8	1802.2	1906.1	1876.8	1860.8
1011.6	45°	1048.9	1123.4	1216.6	1283.1	1331.1	1402.9	1501.4	1512.1	1488.1
811.9	47.5°	841.2	907.8	982.3	1064.8	1120.7	1166.0	1251.2	1283.1	1267.2
684.2	50°	713.4	764.0	835.9	918.4	979.7	1019.6	1094.1	1128.7	1118.1
572.4	52.5°	607.0	668.2	734.7	804.0	878.5	918.4	987.6	1038.2	1030.2
473.9	55°	503.1	583.0	652.2	721.4	806.6	846.5	907.8	974.3	961.0
402.0	57.5°	439.2	505.8	577.7	644.2	734.7	788.0	843.9	913.1	910.4
330.1	60°	367.4	433.9	513.8	569.7	665.5	740.1	790.6	862.5	867.8
250.2	62.5°	292.8	375.4	436.6	513.8	601.6	689.5	737.4	809.3	835.9
191.7	65°	218.3	308.8	378.0	455.2	537.7	636.2	678.8	750.7	777.3
138.4	67.5°	162.4	231.6	319.5	386.0	479.2	564.4	614.9	681.5	700.1
82.5	70°	122.5	178.4	266.2	324.8	420.6	489.8	540.4	591.0	614.9
55.9	72.5°	71.9	133.1	210.3	279.5	362.0	420.6	457.9	497.8	513.8
26.6	75°	50.6	101.2	165.1	231.6	292.8	340.7	375.4	410.0	425.9
13.3	77.5°	26.6	74.5	130.4	186.3	228.9	268.9	303.5	330.1	340.7
10.6	80°	16.0	53.2	106.5	146.4	175.7	210.3	244.9	263.5	260.9
8.0	82.5°	10.6	42.6	77.2	106.5	127.8	154.4	178.4	191.7	191.7
5.3	85°	8.0	29.3	53.2	82.5	85.2	106.5	111.8	125.1	127.8
5.3	87.5°	5.3	18.6	29.3	47.9	45.3	55.9	58.6	66.6	71.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
32160.9
32294.0
33196.5
33507.9
33023.4
32110.3
30632.9
28058.6
24914.7
21190.4
17812.2
14271.6
11148.9
7999.6
5215.1
3516.6
2497.1
1847.5
1485.5
1259.2
1115.4
1024.9
961.0
907.8
867.8
833.2
774.7
700.1
609.6
508.5
420.6
338.1
258.2
189.0
125.1
69.2
0.0

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