

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: P637598

Luminaire Tested: **IFLD-L-SA7A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26773.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 217.6
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



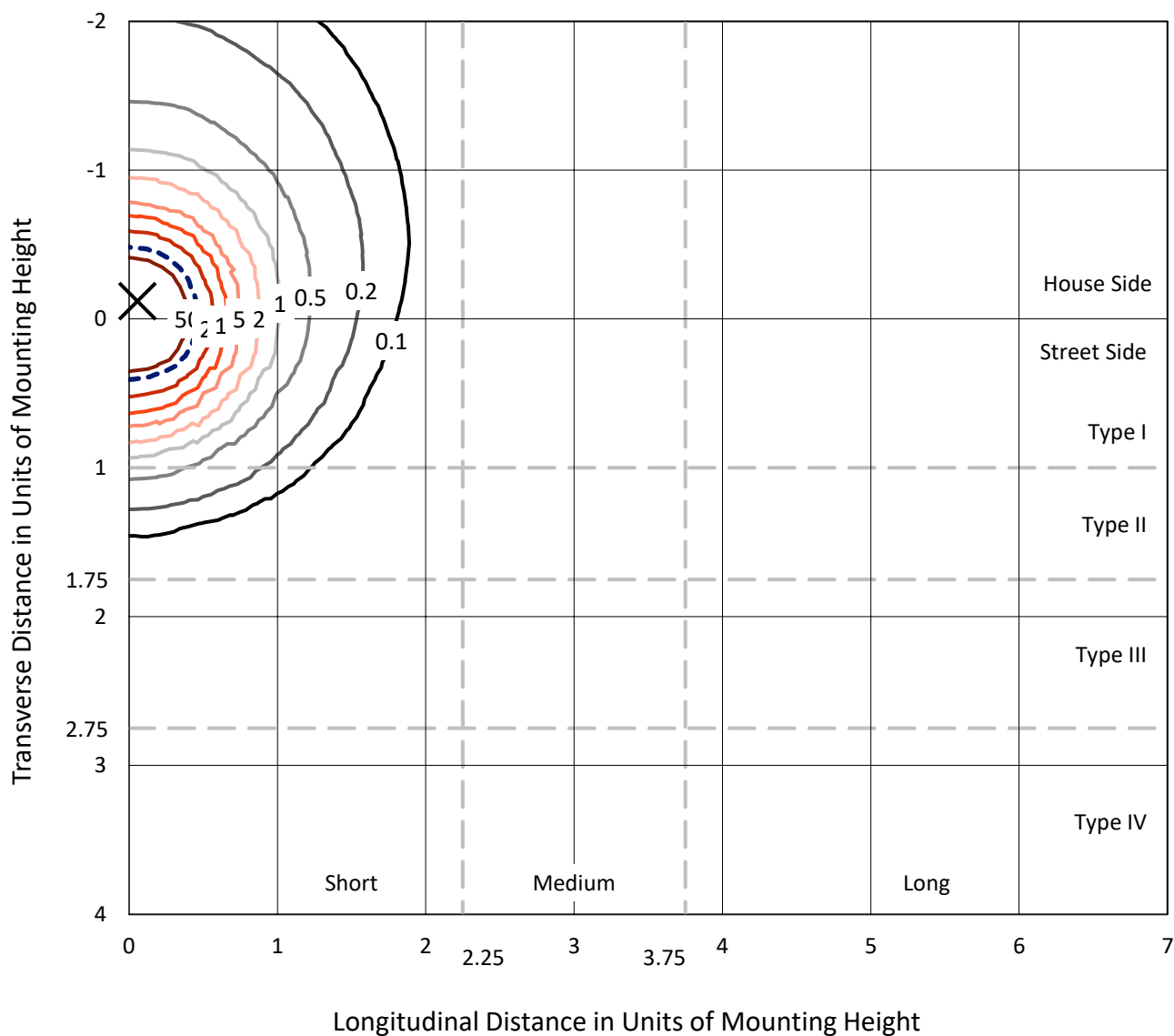
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

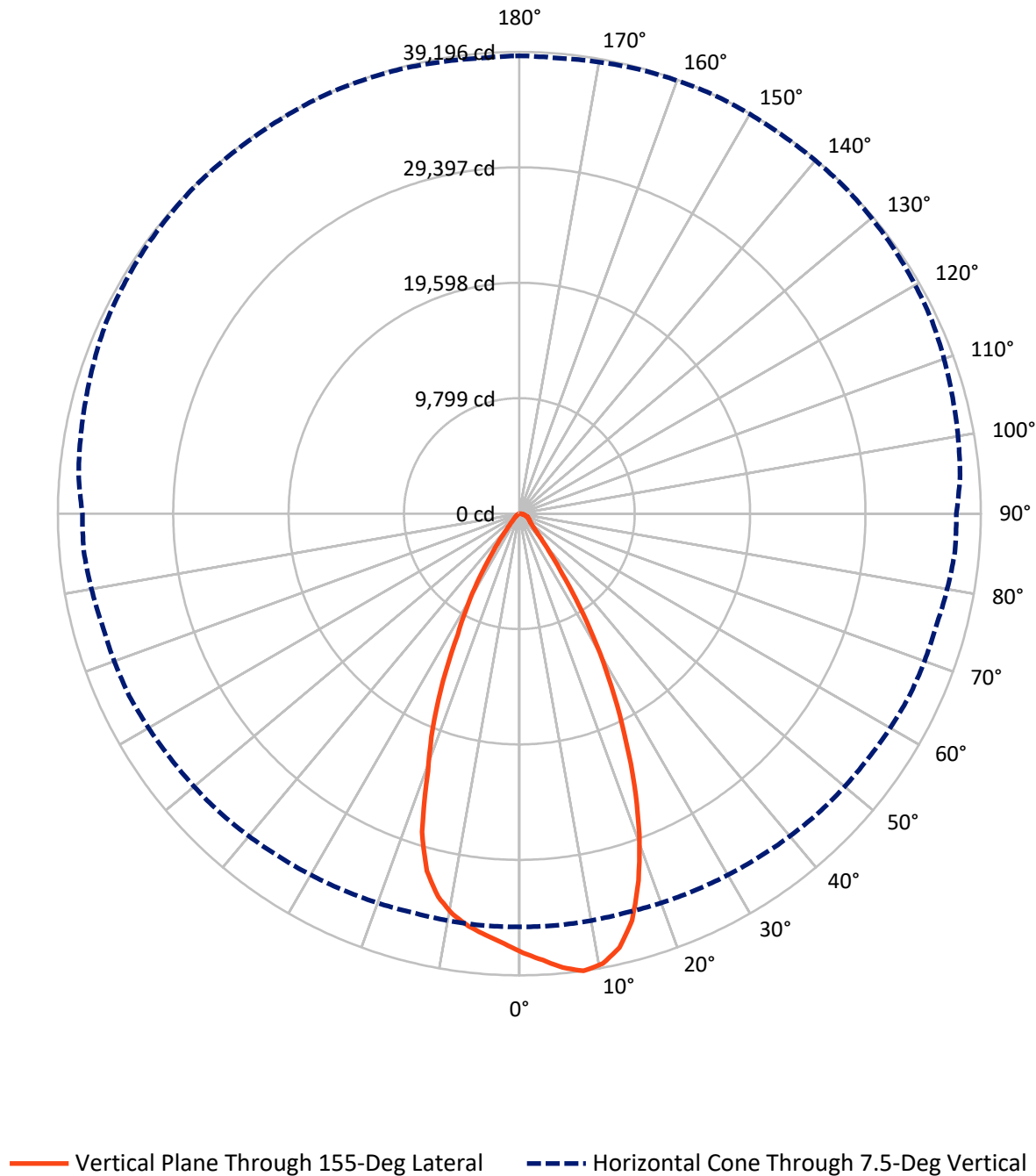


Based on 20 foot mounting height. Maximum calculated value = 94.8 fc

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	14779.9	0.0	14779.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11993.5	0.0	11993.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	26773.4	0.0	26773.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3556.5	13.3
10°-20°	9222.1	34.4
20°-30°	8450.0	31.6
30°-40°	3413.8	12.8
40°-50°	1001.5	3.7
50°-60°	559.9	2.1
60°-70°	340.1	1.3
70°-80°	172.8	0.6
80°-90°	56.5	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°	26773.4	100.0
0°-180°	26773.4	100.0

Coefficient of Utilization



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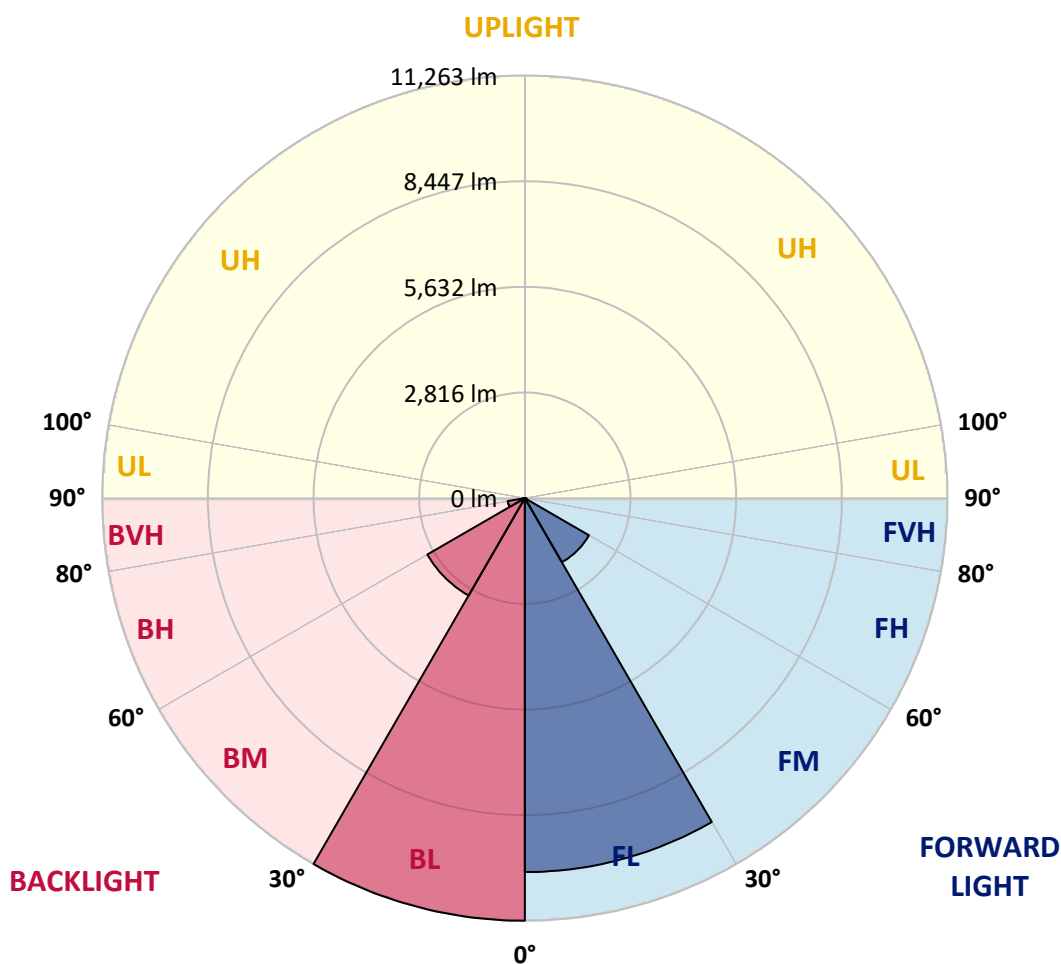
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9965.7	37.2			
FM	(30°-60°)	1975.0	7.4			
FH	(60°-80°)	47.8	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11263.0	42.1	B5		
BM	(30°-60°)	3000.2	11.2	B3/5000		
BH	(60°-80°)	465.0	1.7	B1/500		G1/500
BVH	(80°-90°)	51.6	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°	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4
2.5°	36488.5	36612.0	36365.0	36528.6	36655.2	36957.8	36982.5	37087.4	37124.5	37399.2
5°	35796.9	35892.6	35692.0	35911.2	36090.2	36358.8	36565.7	36855.9	37016.4	37340.6
7.5°	35077.6	35099.2	35059.1	35290.6	35559.2	35929.7	36185.9	36565.7	36664.5	37127.6
10°	34207.0	34049.5	34126.7	34466.3	34867.7	35435.7	35611.7	35991.4	36167.4	36639.8
12.5°	32817.7	32898.0	32802.3	33234.5	33567.9	34213.2	34398.4	34781.2	35117.7	35534.5
15°	30860.4	30814.1	31008.6	31345.1	31706.3	32218.8	32518.3	32935.0	33191.3	33623.5
17.5°	26461.0	26618.5	27421.2	28264.0	29004.9	29603.9	29962.0	30307.8	30493.0	30962.3
20°	22852.0	22654.4	22762.5	23237.9	25346.5	26263.4	26640.1	26723.4	26800.6	27171.1
22.5°	18816.9	18752.1	19113.3	19647.4	20147.5	22262.3	22774.8	22580.3	22740.9	23089.7
25°	13973.0	14300.3	14621.3	15646.3	16294.6	17332.0	18304.4	18390.9	18449.5	18668.7
27.5°	11373.5	11259.3	11253.1	11540.2	12497.3	13361.7	14189.1	14380.5	14346.6	14556.5
30°	8940.7	8903.7	8774.0	8842.0	8746.2	9515.0	9904.0	10691.2	10648.0	10654.2
32.5°	6449.3	6310.4	6257.9	6359.8	6261.0	6190.0	6529.6	7418.7	7403.3	7465.0
35°	3902.3	3883.8	3927.0	4016.5	3819.0	3812.8	3883.8	4720.4	4822.3	4921.1
37.5°	2154.9	2136.4	2170.4	2500.7	2435.9	2377.2	2395.7	2837.2	3130.5	3204.6
40°	1420.1	1417.1	1441.8	1500.4	1611.6	1589.9	1599.2	1796.8	2074.6	2139.5
42.5°	950.9	954.0	969.4	1037.3	1052.8	1163.9	1145.4	1191.7	1451.0	1506.6
45°	759.5	756.4	765.6	734.8	753.3	867.5	879.9	883.0	1105.2	1139.2
47.5°	598.9	598.9	608.2	568.1	558.8	629.8	694.6	703.9	883.0	929.3
50°	419.9	419.9	466.2	447.7	469.3	490.9	561.9	571.1	722.4	771.8
52.5°	308.7	314.9	321.1	324.2	395.2	392.1	453.8	497.1	546.4	632.9
55°	234.6	240.8	225.4	240.8	293.3	327.3	339.6	401.3	435.3	531.0
57.5°	154.4	169.8	157.5	185.2	197.6	253.2	271.7	330.3	351.9	435.3
60°	21.6	24.7	40.1	129.7	138.9	166.7	209.9	262.4	284.0	355.0
62.5°	3.1	3.1	9.3	21.6	92.6	111.1	157.5	182.1	209.9	265.5
65°	0.0	0.0	3.1	6.2	18.5	64.8	80.3	98.8	145.1	191.4
67.5°	0.0	0.0	3.1	6.2	9.3	21.6	34.0	64.8	83.4	132.8
70°	0.0	0.0	3.1	6.2	9.3	12.3	18.5	24.7	49.4	77.2
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	18.5	21.6	49.4
75°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	18.5	18.5	21.6
77.5°	0.0	0.0	3.1	6.2	12.3	18.5	21.6	18.5	15.4	15.4
80°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	18.5	12.3	9.3
82.5°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	21.6	12.3	9.3
85°	0.0	0.0	3.1	9.3	12.3	15.4	24.7	21.6	12.3	6.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	12.3	9.3	6.2	3.1
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°
37297.4	0°	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4	37297.4
37393.1	2.5°	37670.9	37809.8	38053.7	38121.7	38331.6	38090.8	37958.0	37970.4	37683.3
37300.4	5°	37670.9	37988.9	38414.9	38618.7	38773.1	38760.7	38726.8	38640.3	38430.4
37115.2	7.5°	37572.1	38090.8	38677.4	38949.0	39134.3	39118.8	39196.0	39057.1	38800.9
36784.9	10°	37254.1	37704.9	38427.3	38649.6	38949.0	38955.2	38859.5	38887.3	38430.4
35577.7	12.5°	36253.9	36605.8	37238.7	37491.9	37856.2	37914.8	37809.8	37769.7	37337.5
33598.8	15°	34318.1	34521.9	35157.9	35411.0	35772.2	35722.8	35827.8	35784.6	35404.9
30925.2	17.5°	31487.1	31551.9	32218.8	32431.8	32771.4	32904.2	32746.7	32947.4	32620.1
27235.9	20°	27427.3	27776.2	28526.4	28853.7	29051.2	29289.0	29082.1	29307.5	28924.7
22759.4	22.5°	23308.9	23515.8	24195.0	24667.3	25034.7	25081.0	25003.8	25161.3	24645.7
18813.8	25°	18810.8	19153.4	19690.6	20308.1	20669.3	20891.6	20690.9	20792.8	20709.4
14590.5	27.5°	14837.4	15143.1	15547.5	16007.5	16550.9	16841.1	16680.5	16853.4	16445.9
10879.6	30°	10888.8	11043.2	11500.1	11987.9	12583.7	12935.7	12951.1	13127.1	12886.3
7622.5	32.5°	7678.0	7813.9	8094.8	8419.0	8987.1	9379.1	9317.4	9342.1	9193.9
4967.4	35°	4992.1	5174.3	5374.9	5529.3	5872.0	6304.2	6270.3	6239.4	6137.5
3266.3	37.5°	3337.3	3408.4	3519.5	3658.4	3880.7	4152.4	4241.9	4130.8	4087.6
2204.3	40°	2256.8	2380.3	2454.4	2559.3	2664.3	2892.8	2954.5	2932.9	2889.7
1543.6	42.5°	1602.3	1698.0	1790.6	1892.5	1948.1	2090.1	2210.5	2176.5	2158.0
1173.2	45°	1216.4	1302.8	1410.9	1488.1	1543.6	1627.0	1741.2	1753.6	1725.8
941.6	47.5°	975.6	1052.8	1139.2	1234.9	1299.7	1352.2	1451.0	1488.1	1469.5
793.4	50°	827.4	886.0	969.4	1065.1	1136.1	1182.4	1268.9	1309.0	1296.7
663.8	52.5°	703.9	774.9	852.1	932.4	1018.8	1065.1	1145.4	1204.0	1194.8
549.5	55°	583.5	676.1	756.4	836.7	935.4	981.8	1052.8	1129.9	1114.5
466.2	57.5°	509.4	586.6	669.9	747.1	852.1	913.8	978.7	1058.9	1055.8
382.8	60°	426.0	503.2	595.8	660.7	771.8	858.3	916.9	1000.3	1006.5
290.2	62.5°	339.6	435.3	506.3	595.8	697.7	799.6	855.2	938.5	969.4
222.3	65°	253.2	358.1	438.4	527.9	623.6	737.9	787.3	870.6	901.5
160.5	67.5°	188.3	268.6	370.5	447.7	555.7	654.5	713.2	790.3	812.0
95.7	70°	142.0	206.8	308.7	376.6	487.8	568.1	626.7	685.4	713.2
64.8	72.5°	83.4	154.4	243.9	324.2	419.9	487.8	531.0	577.3	595.8
30.9	75°	58.7	117.3	191.4	268.6	339.6	395.2	435.3	475.4	494.0
15.4	77.5°	30.9	86.4	151.3	216.1	265.5	311.8	351.9	382.8	395.2
12.3	80°	18.5	61.7	123.5	169.8	203.8	243.9	284.0	305.6	302.6
9.3	82.5°	12.3	49.4	89.5	123.5	148.2	179.1	206.8	222.3	222.3
6.2	85°	9.3	34.0	61.7	95.7	98.8	123.5	129.7	145.1	148.2
6.2	87.5°	6.2	21.6	34.0	55.6	52.5	64.8	67.9	77.2	83.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37297.4
37451.7
38498.3
38859.5
38297.6
37238.7
35525.3
32539.9
28893.8
24574.7
20656.9
16550.9
12929.5
9277.3
6048.0
4078.3
2895.9
2142.6
1722.7
1460.3
1293.6
1188.6
1114.5
1052.8
1006.5
966.3
898.4
812.0
707.0
589.7
487.8
392.1
299.5
219.2
145.1
80.3
0.0

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