

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: P637575

Luminaire Tested: **IFLD-L-SA8B-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637575
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31971.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 320
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



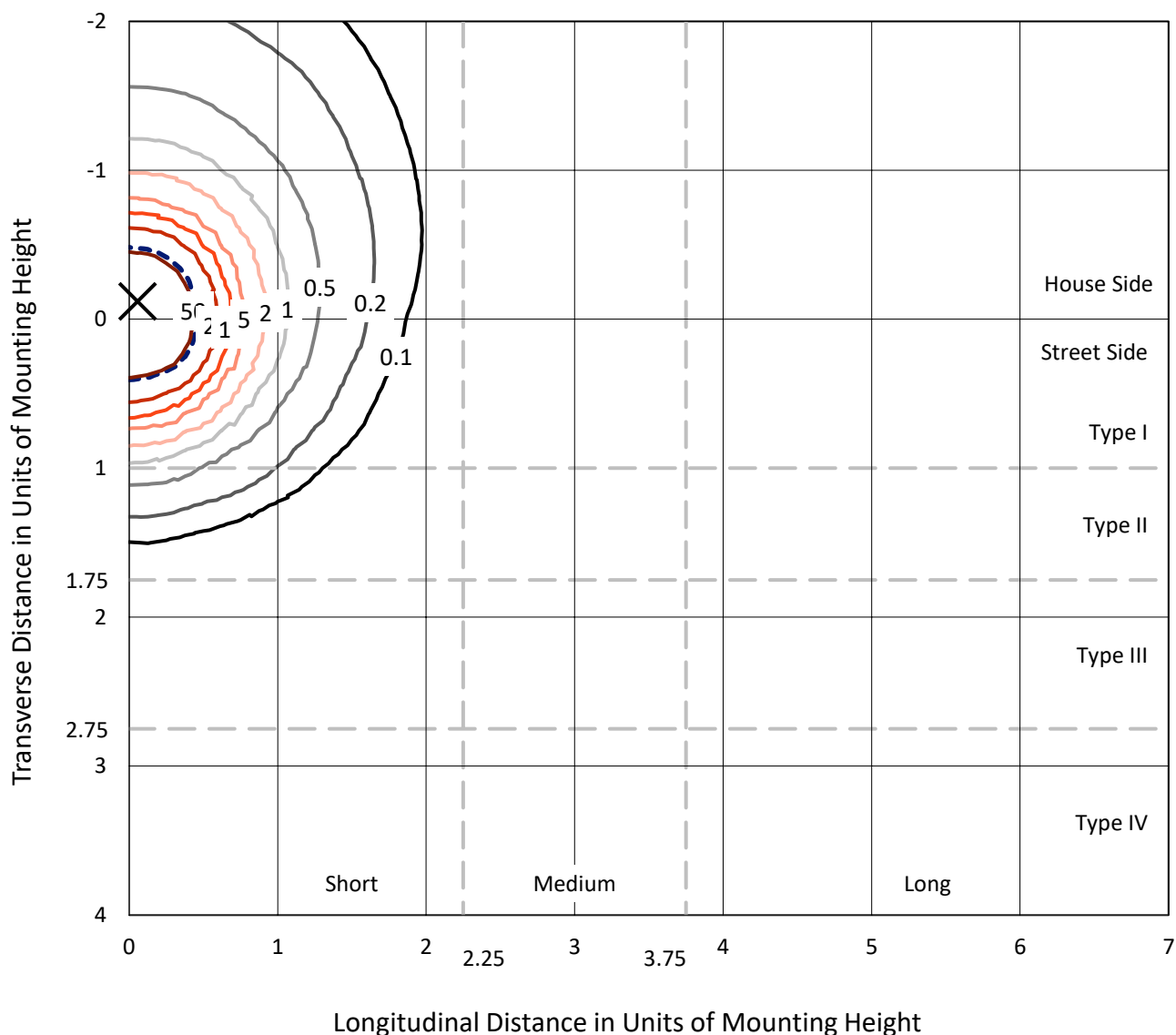
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



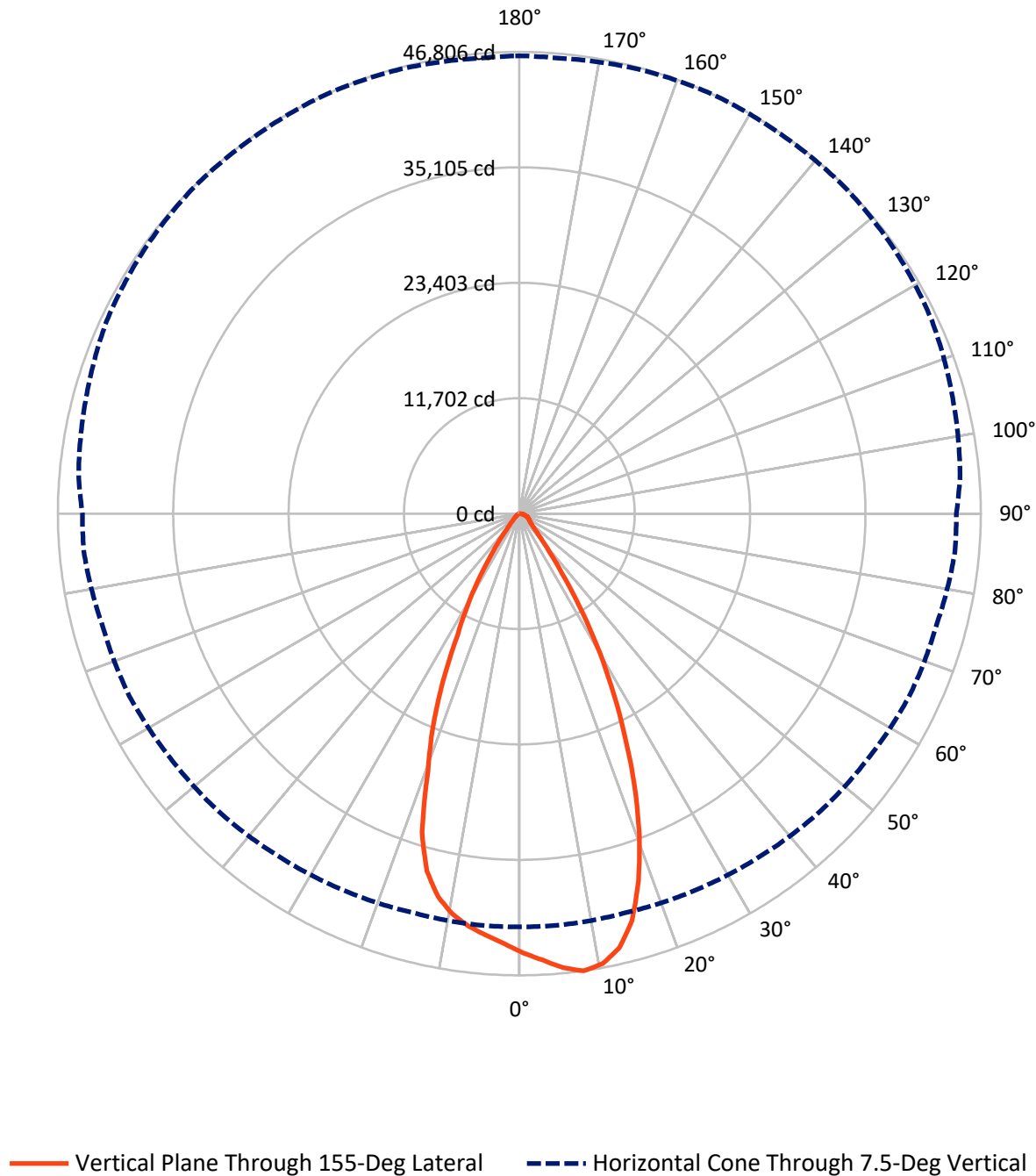
Based on 20 foot mounting height. Maximum calculated value = 113.2 fc

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	17649.6	0.0	17649.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14322.2	0.0	14322.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	31971.7	0.0	31971.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4247.1	13.3
10°-20°	11012.7	34.4
20°-30°	10090.7	31.6
30°-40°	4076.7	12.8
40°-50°	1195.9	3.7
50°-60°	668.7	2.1
60°-70°	406.1	1.3
70°-80°	206.3	0.6
80°-90°	67.5	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°	31971.7	100.0
0°-180°	31971.7	100.0

Coefficient of Utilization



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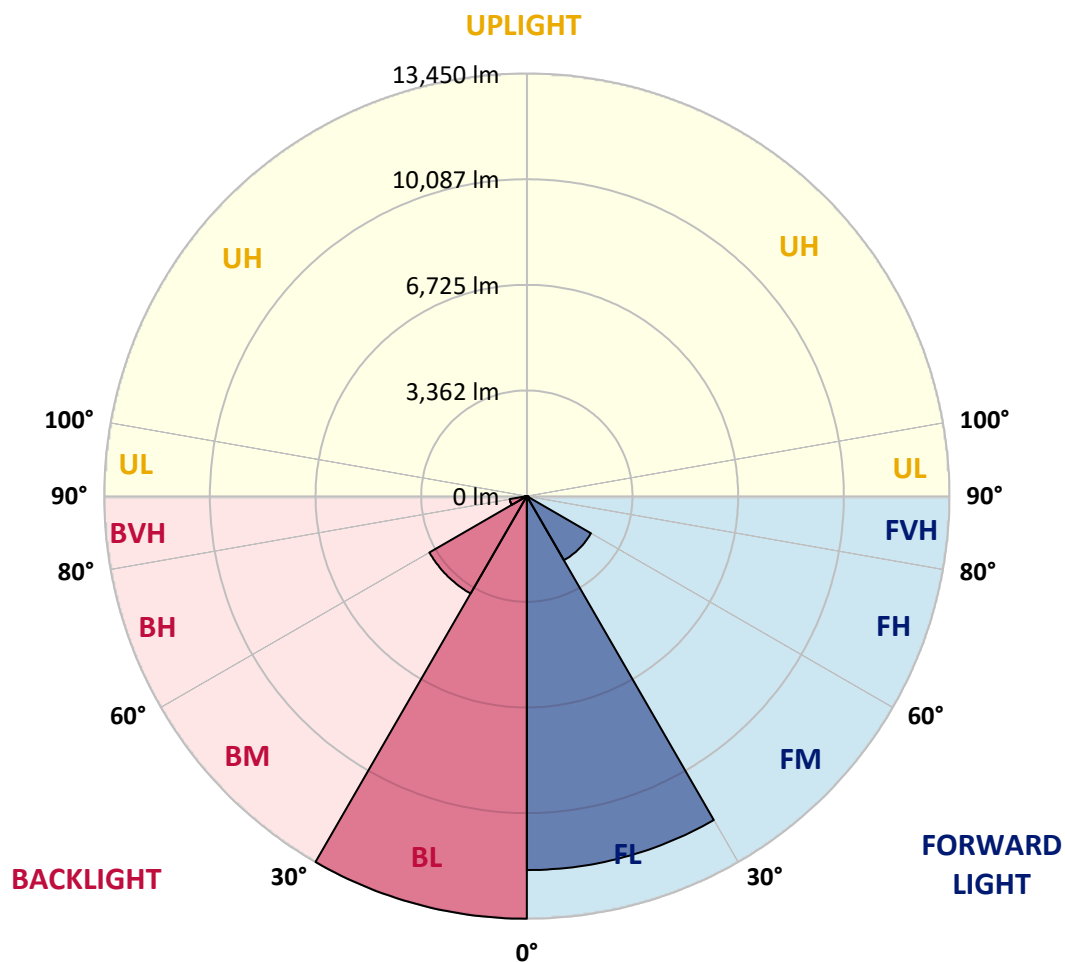
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11900.7	37.2			
FM	(30°-60°)	2358.5	7.4			
FH	(60°-80°)	57.1	0.2			G0/660
FVH	(80°-90°)	5.8	0.0			G0/10
BL	(0°-30°)	13449.9	42.1	B5		
BM	(30°-60°)	3582.7	11.2	B3/5000		
BH	(60°-80°)	555.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	61.6	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1
2.5°	43573.2	43720.6	43425.7	43621.1	43772.2	44133.5	44163.0	44288.4	44332.6	44660.7
5°	42747.3	42861.6	42622.0	42883.8	43097.6	43418.3	43665.3	44011.9	44203.6	44590.7
7.5°	41888.3	41914.1	41866.2	42142.7	42463.5	42905.9	43211.9	43665.3	43783.3	44336.3
10°	40848.7	40660.7	40752.8	41158.4	41637.6	42316.0	42526.1	42979.6	43189.7	43753.8
12.5°	39189.7	39285.5	39171.2	39687.4	40085.5	40856.1	41077.3	41534.4	41936.3	42434.0
15°	36852.3	36797.0	37029.3	37431.1	37862.5	38474.5	38832.1	39329.8	39635.8	40151.9
17.5°	31598.7	31786.8	32745.3	33751.8	34636.6	35351.8	35779.5	36192.4	36413.6	36974.0
20°	27289.0	27053.0	27182.1	27749.8	30267.8	31362.8	31812.6	31912.1	32004.3	32446.7
22.5°	22470.5	22393.0	22824.4	23462.2	24059.4	26584.8	27196.8	26964.6	27156.3	27572.9
25°	16686.0	17076.8	17460.2	18684.2	19458.4	20697.2	21858.5	21961.7	22031.7	22293.5
27.5°	13581.8	13445.4	13438.0	13780.9	14923.8	15956.1	16944.1	17172.7	17132.1	17382.8
30°	10676.7	10632.5	10477.6	10558.7	10444.4	11362.4	11826.9	12767.1	12715.4	12722.8
32.5°	7701.5	7535.6	7473.0	7594.6	7476.6	7391.8	7797.4	8859.2	8840.7	8914.5
35°	4660.0	4637.9	4689.5	4796.4	4560.5	4553.1	4637.9	5637.0	5758.6	5876.6
37.5°	2573.3	2551.2	2591.8	2986.2	2908.8	2838.8	2860.9	3388.1	3738.3	3826.8
40°	1695.9	1692.2	1721.7	1791.7	1924.5	1898.7	1909.7	2145.7	2477.5	2554.9
42.5°	1135.5	1139.2	1157.6	1238.7	1257.2	1389.9	1367.8	1423.1	1732.8	1799.1
45°	906.9	903.2	914.3	877.4	899.6	1036.0	1050.7	1054.4	1319.8	1360.4
47.5°	715.2	715.2	726.3	678.4	667.3	752.1	829.5	840.6	1054.4	1109.7
50°	501.4	501.4	556.7	534.6	560.4	586.2	671.0	682.0	862.7	921.7
52.5°	368.7	376.0	383.4	387.1	471.9	468.2	541.9	593.6	652.5	755.8
55°	280.2	287.6	269.1	287.6	350.2	390.8	405.5	479.3	519.8	634.1
57.5°	184.3	202.8	188.0	221.2	235.9	302.3	324.4	394.5	420.3	519.8
60°	25.8	29.5	47.9	154.8	165.9	199.1	250.7	313.4	339.2	424.0
62.5°	3.7	3.7	11.1	25.8	110.6	132.7	188.0	217.5	250.7	317.1
65°	0.0	0.0	3.7	7.4	22.1	77.4	95.9	118.0	173.3	228.6
67.5°	0.0	0.0	3.7	7.4	11.1	25.8	40.6	77.4	99.5	158.5
70°	0.0	0.0	3.7	7.4	11.1	14.7	22.1	29.5	59.0	92.2
72.5°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	22.1	25.8	59.0
75°	0.0	0.0	3.7	7.4	11.1	18.4	22.1	22.1	22.1	25.8
77.5°	0.0	0.0	3.7	7.4	14.7	22.1	25.8	22.1	18.4	18.4
80°	0.0	0.0	3.7	11.1	18.4	25.8	29.5	22.1	14.7	11.1
82.5°	0.0	0.0	3.7	11.1	18.4	25.8	29.5	25.8	14.7	11.1
85°	0.0	0.0	3.7	11.1	14.7	18.4	29.5	25.8	14.7	7.4
87.5°	0.0	0.0	0.0	3.7	3.7	7.4	14.7	11.1	7.4	3.7
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°
44539.1	0°	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1	44539.1
44653.4	2.5°	44985.2	45151.1	45442.3	45523.4	45774.1	45486.6	45328.0	45342.8	44999.9
44542.8	5°	44985.2	45364.9	45873.7	46117.0	46301.3	46286.6	46246.0	46142.8	45892.1
44321.6	7.5°	44867.2	45486.6	46187.0	46511.5	46732.7	46714.2	46806.4	46640.5	46334.5
43927.1	10°	44487.5	45025.7	45888.4	46153.9	46511.5	46518.8	46404.6	46437.7	45892.1
42485.6	12.5°	43293.0	43713.3	44469.0	44771.3	45206.4	45276.4	45151.1	45103.1	44587.0
40122.4	15°	40981.4	41224.7	41984.2	42286.5	42717.8	42658.9	42784.2	42732.6	42279.1
36929.7	17.5°	37600.7	37678.1	38474.5	38728.8	39134.4	39292.9	39104.9	39344.5	38953.7
32524.1	20°	32752.7	33169.3	34065.2	34455.9	34691.9	34975.8	34728.8	34997.9	34540.7
27178.4	22.5°	27834.6	28081.6	28892.7	29456.8	29895.5	29950.8	29858.6	30046.6	29431.0
22466.8	25°	22463.1	22872.3	23513.8	24251.1	24682.5	24947.9	24708.3	24830.0	24730.4
17423.4	27.5°	17718.3	18083.3	18566.2	19115.6	19764.4	20111.0	19919.3	20125.7	19639.1
12991.9	30°	13003.0	13187.3	13733.0	14315.5	15027.0	15447.3	15465.7	15675.9	15388.3
9102.5	32.5°	9168.8	9331.0	9666.5	10053.6	10732.0	11200.2	11126.5	11156.0	10979.0
5931.9	35°	5961.4	6178.9	6418.6	6602.9	7012.1	7528.3	7487.7	7450.8	7329.2
3900.5	37.5°	3985.3	4070.1	4202.8	4368.7	4634.2	4958.6	5065.5	4932.8	4881.2
2632.3	40°	2695.0	2842.4	2930.9	3056.3	3181.6	3454.4	3528.2	3502.4	3450.8
1843.4	42.5°	1913.4	2027.7	2138.3	2260.0	2326.3	2495.9	2639.7	2599.1	2577.0
1400.9	45°	1452.6	1555.8	1684.8	1777.0	1843.4	1942.9	2079.3	2094.0	2060.9
1124.4	47.5°	1165.0	1257.2	1360.4	1474.7	1552.1	1614.8	1732.8	1777.0	1754.9
947.5	50°	988.0	1058.1	1157.6	1271.9	1356.7	1412.0	1515.2	1563.2	1548.4
792.6	52.5°	840.6	925.4	1017.5	1113.4	1216.6	1271.9	1367.8	1437.8	1426.8
656.2	55°	696.8	807.4	903.2	999.1	1117.1	1172.4	1257.2	1349.3	1330.9
556.7	57.5°	608.3	700.5	800.0	892.2	1017.5	1091.3	1168.7	1264.5	1260.9
457.2	60°	508.8	600.9	711.5	789.0	921.7	1024.9	1095.0	1194.5	1201.9
346.6	62.5°	405.5	519.8	604.6	711.5	833.2	954.9	1021.2	1120.8	1157.6
265.4	65°	302.3	427.7	523.5	630.4	744.7	881.1	940.1	1039.7	1076.5
191.7	67.5°	224.9	320.7	442.4	534.6	663.6	781.6	851.6	943.8	969.6
114.3	70°	169.6	247.0	368.7	449.8	582.5	678.4	748.4	818.4	851.6
77.4	72.5°	99.5	184.3	291.2	387.1	501.4	582.5	634.1	689.4	711.5
36.9	75°	70.0	140.1	228.6	320.7	405.5	471.9	519.8	567.8	589.9
18.4	77.5°	36.9	103.2	180.6	258.1	317.1	372.4	420.3	457.2	471.9
14.7	80°	22.1	73.7	147.5	202.8	243.3	291.2	339.2	365.0	361.3
11.1	82.5°	14.7	59.0	106.9	147.5	177.0	213.8	247.0	265.4	265.4
7.4	85°	11.1	40.6	73.7	114.3	118.0	147.5	154.8	173.3	177.0
7.4	87.5°	7.4	25.8	40.6	66.4	62.7	77.4	81.1	92.2	99.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
44539.1
44723.4
45973.2
46404.6
45733.6
44469.0
42422.9
38857.9
34503.9
29346.2
24667.7
19764.4
15439.9
11078.5
7222.3
4870.1
3458.1
2558.6
2057.2
1743.8
1544.7
1419.4
1330.9
1257.2
1201.9
1153.9
1072.8
969.6
844.3
704.2
582.5
468.2
357.6
261.8
173.3
95.9
0.0

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