

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: P637736

Luminaire Tested: **IFLD-S-SA6D-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31571.4 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 368.2
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



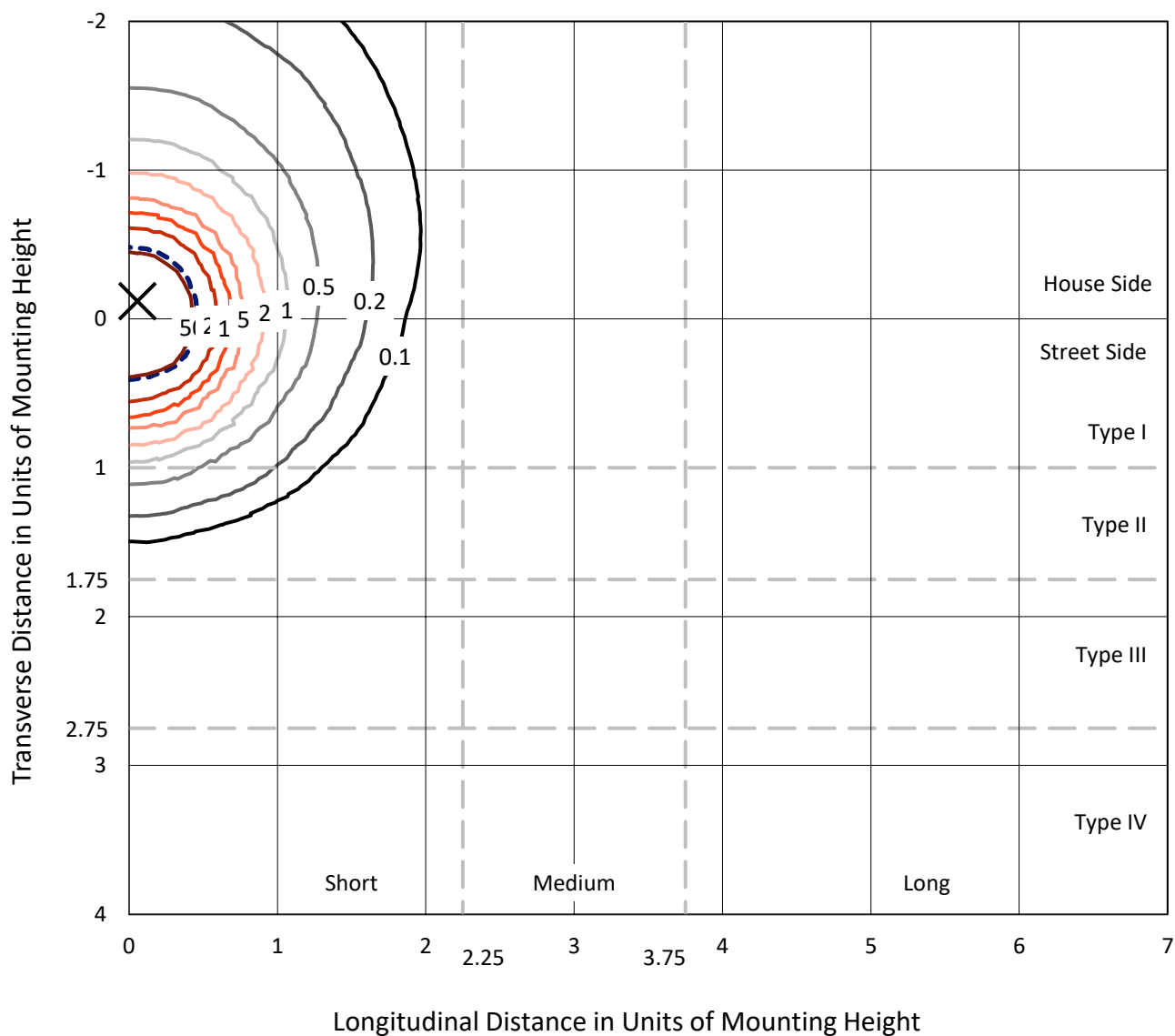
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

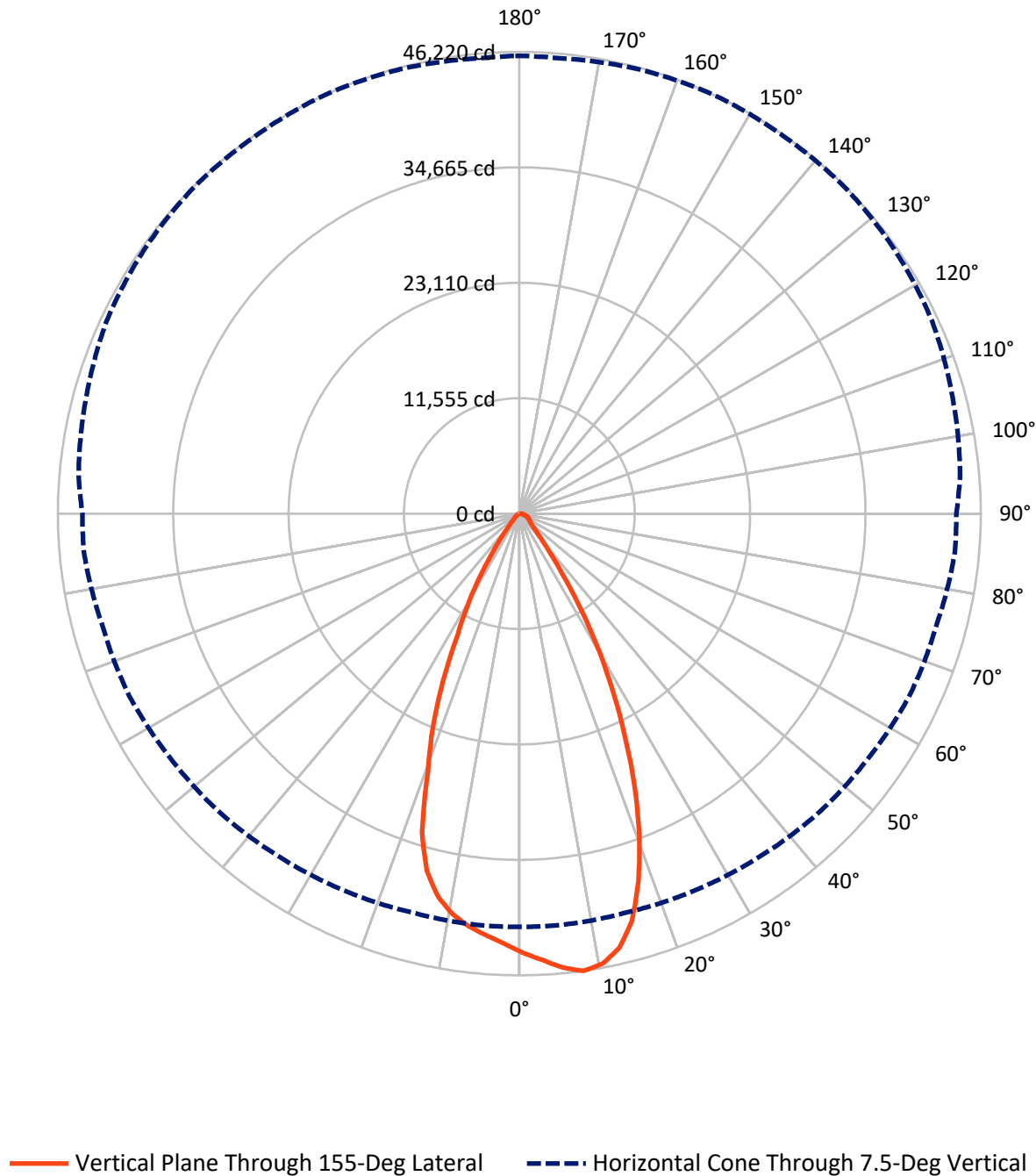


Based on 20 foot mounting height. Maximum calculated value = 111.8 fc

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	17428.6	0.0	17428.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14142.8	0.0	14142.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	31571.4	0.0	31571.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4193.9	13.3
10°-20°	10874.8	34.4
20°-30°	9964.4	31.6
30°-40°	4025.6	12.8
40°-50°	1180.9	3.7
50°-60°	660.3	2.1
60°-70°	401.0	1.3
70°-80°	203.8	0.6
80°-90°	66.6	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°	31571.4	100.0
0°-180°	31571.4	100.0

Coefficient of Utilization



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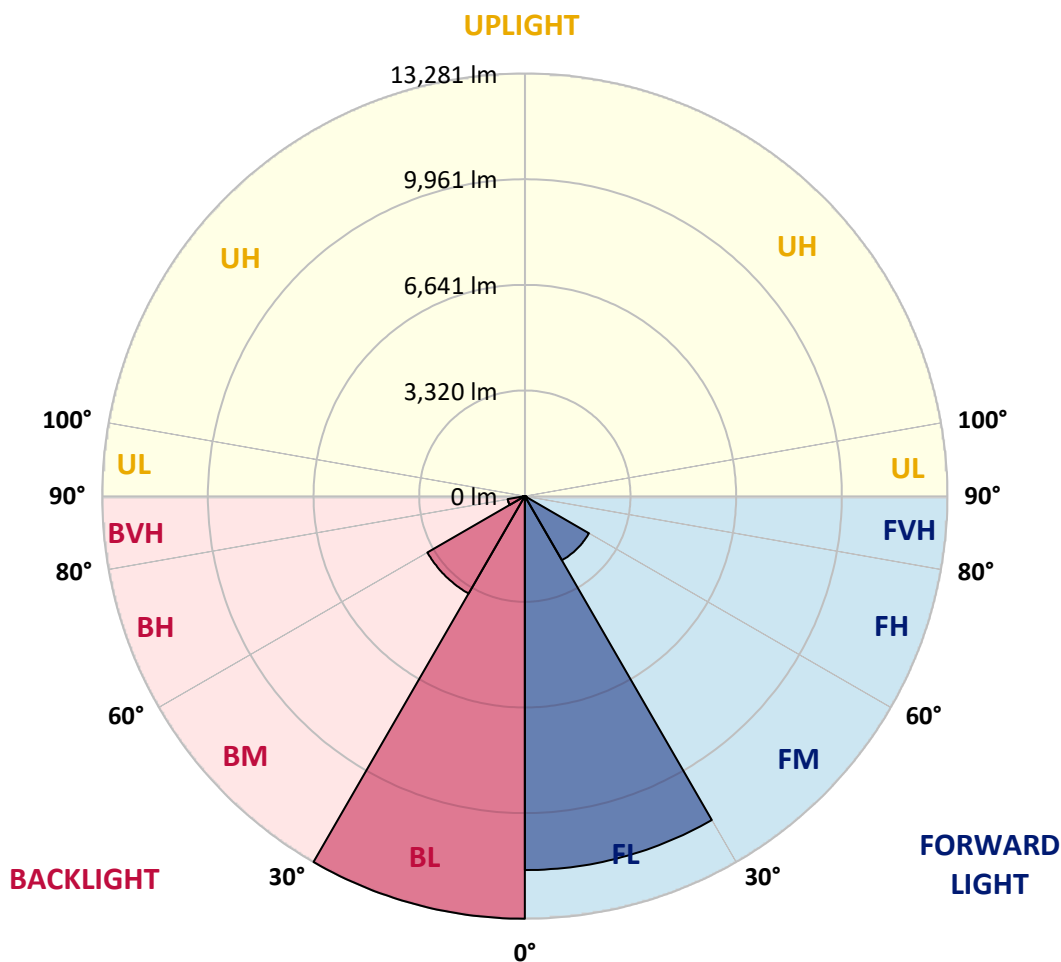
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11751.7	37.2			
FM	(30°-60°)	2329.0	7.4			
FH	(60°-80°)	56.4	0.2			G0/660
FVH	(80°-90°)	5.8	0.0			G0/10
BL	(0°-30°)	13281.5	42.1	B5		
BM	(30°-60°)	3537.8	11.2	B3/5000		
BH	(60°-80°)	548.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	60.9	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°	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4
2.5°	43027.6	43173.2	42881.9	43074.9	43224.2	43580.9	43610.0	43733.8	43777.5	44101.5
5°	42212.1	42324.9	42088.3	42346.8	42557.9	42874.7	43118.6	43460.8	43650.1	44032.4
7.5°	41363.8	41389.3	41342.0	41615.0	41931.8	42368.6	42670.8	43118.6	43235.1	43781.2
10°	40337.2	40151.5	40242.5	40643.0	41116.3	41786.1	41993.6	42441.4	42648.9	43205.9
12.5°	38699.0	38793.6	38680.8	39190.4	39583.6	40344.5	40562.9	41014.3	41411.2	41902.6
15°	36390.9	36336.2	36565.6	36962.4	37388.4	37992.7	38345.8	38837.3	39139.5	39649.1
17.5°	31203.1	31388.8	32335.3	33329.2	34202.9	34909.2	35331.5	35739.2	35957.6	36511.0
20°	26947.3	26714.3	26841.7	27402.4	29888.8	30970.1	31414.2	31512.5	31603.5	32040.4
22.5°	22189.1	22112.7	22538.6	23168.4	23758.2	26251.9	26856.3	26626.9	26816.2	27227.6
25°	16477.1	16863.0	17241.6	18450.3	19214.8	20438.0	21584.8	21686.7	21755.9	22014.4
27.5°	13411.8	13277.1	13269.8	13608.3	14736.9	15756.3	16731.9	16957.6	16917.6	17165.2
30°	10543.0	10499.3	10346.4	10426.5	10313.7	11220.1	11678.9	12607.2	12556.2	12563.5
32.5°	7605.1	7441.3	7379.4	7499.5	7383.0	7299.3	7699.7	8748.2	8730.0	8802.8
35°	4601.6	4579.8	4630.8	4736.3	4503.4	4496.1	4579.8	5566.4	5686.5	5803.0
37.5°	2541.1	2519.3	2559.3	2948.8	2872.4	2803.2	2825.1	3345.7	3691.5	3778.9
40°	1674.6	1671.0	1700.1	1769.3	1900.4	1874.9	1885.8	2118.8	2446.4	2522.9
42.5°	1121.3	1124.9	1143.1	1223.2	1241.4	1372.5	1350.6	1405.2	1711.1	1776.6
45°	895.6	891.9	902.9	866.4	888.3	1023.0	1037.6	1041.2	1303.3	1343.4
47.5°	706.3	706.3	717.2	669.9	658.9	742.7	819.1	830.0	1041.2	1095.8
50°	495.1	495.1	549.7	527.9	553.4	578.8	662.6	673.5	851.9	910.1
52.5°	364.1	371.3	378.6	382.3	466.0	462.3	535.2	586.1	644.4	746.3
55°	276.7	284.0	265.8	284.0	345.9	385.9	400.5	473.3	513.3	626.2
57.5°	182.0	200.2	185.7	218.4	233.0	298.5	320.4	389.5	415.0	513.3
60°	25.5	29.1	47.3	152.9	163.8	196.6	247.6	309.4	334.9	418.7
62.5°	3.6	3.6	10.9	25.5	109.2	131.1	185.7	214.8	247.6	313.1
65°	0.0	0.0	3.6	7.3	21.8	76.5	94.7	116.5	171.1	225.7
67.5°	0.0	0.0	3.6	7.3	10.9	25.5	40.0	76.5	98.3	156.5
70°	0.0	0.0	3.6	7.3	10.9	14.6	21.8	29.1	58.2	91.0
72.5°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	21.8	25.5	58.2
75°	0.0	0.0	3.6	7.3	10.9	18.2	21.8	21.8	21.8	25.5
77.5°	0.0	0.0	3.6	7.3	14.6	21.8	25.5	21.8	18.2	18.2
80°	0.0	0.0	3.6	10.9	18.2	25.5	29.1	21.8	14.6	10.9
82.5°	0.0	0.0	3.6	10.9	18.2	25.5	29.1	25.5	14.6	10.9
85°	0.0	0.0	3.6	10.9	14.6	18.2	29.1	25.5	14.6	7.3
87.5°	0.0	0.0	0.0	3.6	3.6	7.3	14.6	10.9	7.3	3.6
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°
43981.4	0°	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4	43981.4
44094.2	2.5°	44421.9	44585.7	44873.3	44953.4	45201.0	44917.0	44760.5	44775.0	44436.5
43985.0	5°	44421.9	44796.9	45299.3	45539.5	45721.6	45707.0	45667.0	45565.0	45317.5
43766.6	7.5°	44305.4	44917.0	45608.7	45929.1	46147.5	46129.3	46220.3	46056.5	45754.3
43377.1	10°	43930.4	44461.9	45313.8	45575.9	45929.1	45936.4	45823.5	45856.3	45317.5
41953.6	12.5°	42750.9	43165.9	43912.2	44210.7	44640.3	44709.5	44585.7	44538.4	44028.7
39620.0	15°	40468.3	40708.5	41458.5	41757.0	42183.0	42124.7	42248.5	42197.5	41749.7
36467.3	17.5°	37129.9	37206.3	37992.7	38243.9	38644.4	38800.9	38615.2	38851.9	38466.0
32116.9	20°	32342.6	32754.0	33638.6	34024.5	34257.5	34537.8	34293.9	34559.7	34108.2
26838.1	22.5°	27486.1	27730.0	28530.9	29087.9	29521.2	29575.8	29484.7	29670.4	29062.4
22185.5	25°	22181.8	22585.9	23219.4	23947.5	24373.4	24635.5	24398.9	24519.0	24420.8
17205.2	27.5°	17496.4	17856.9	18333.8	18876.2	19516.9	19859.2	19669.8	19873.7	19393.2
12829.3	30°	12840.2	13022.2	13561.0	14136.2	14838.8	15253.9	15272.1	15479.6	15195.6
8988.5	32.5°	9054.0	9214.2	9545.5	9927.8	10597.6	11060.0	10987.2	11016.3	10841.5
5857.6	35°	5886.8	6101.5	6338.2	6520.2	6924.3	7434.0	7393.9	7357.5	7237.4
3851.7	37.5°	3935.4	4019.2	4150.2	4314.0	4576.2	4896.5	5002.1	4871.0	4820.1
2599.3	40°	2661.2	2806.9	2894.2	3018.0	3141.8	3411.2	3484.0	3458.5	3407.5
1820.3	42.5°	1889.4	2002.3	2111.5	2231.7	2297.2	2464.6	2606.6	2566.6	2544.7
1383.4	45°	1434.4	1536.3	1663.7	1754.7	1820.3	1918.6	2053.3	2067.8	2035.1
1110.4	47.5°	1150.4	1241.4	1343.4	1456.2	1532.7	1594.6	1711.1	1754.7	1732.9
935.6	50°	975.7	1044.8	1143.1	1256.0	1339.7	1394.3	1496.3	1543.6	1529.0
782.7	52.5°	830.0	913.8	1004.8	1099.4	1201.4	1256.0	1350.6	1419.8	1408.9
648.0	55°	688.1	797.3	891.9	986.6	1103.1	1157.7	1241.4	1332.4	1314.2
549.7	57.5°	600.7	691.7	790.0	881.0	1004.8	1077.6	1154.1	1248.7	1245.1
451.4	60°	502.4	593.4	702.6	779.1	910.1	1012.1	1081.2	1179.5	1186.8
342.2	62.5°	400.5	513.3	597.0	702.6	822.8	942.9	1008.4	1106.7	1143.1
262.1	65°	298.5	422.3	517.0	622.5	735.4	870.1	928.3	1026.6	1063.0
189.3	67.5°	222.1	316.7	436.9	527.9	655.3	771.8	841.0	932.0	957.5
112.9	70°	167.5	243.9	364.1	444.1	575.2	669.9	739.0	808.2	841.0
76.5	72.5°	98.3	182.0	287.6	382.3	495.1	575.2	626.2	680.8	702.6
36.4	75°	69.2	138.3	225.7	316.7	400.5	466.0	513.3	560.6	582.5
18.2	77.5°	36.4	101.9	178.4	254.8	313.1	367.7	415.0	451.4	466.0
14.6	80°	21.8	72.8	145.6	200.2	240.3	287.6	334.9	360.4	356.8
10.9	82.5°	14.6	58.2	105.6	145.6	174.7	211.2	243.9	262.1	262.1
7.3	85°	10.9	40.0	72.8	112.9	116.5	145.6	152.9	171.1	174.7
7.3	87.5°	7.3	25.5	40.0	65.5	61.9	76.5	80.1	91.0	98.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
43981.4
44163.4
45397.6
45823.5
45160.9
43912.2
41891.7
38371.3
34071.8
28978.7
24358.9
19516.9
15246.6
10939.8
7131.8
4809.2
3414.8
2526.5
2031.4
1722.0
1525.4
1401.6
1314.2
1241.4
1186.8
1139.5
1059.4
957.5
833.7
695.3
575.2
462.3
353.1
258.5
171.1
94.7
0.0

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