

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: P637646

Luminaire Tested: **IFLD-S-SA6A-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25352.8 lumens
Efficiency: N/A
Efficacy: 133.7 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



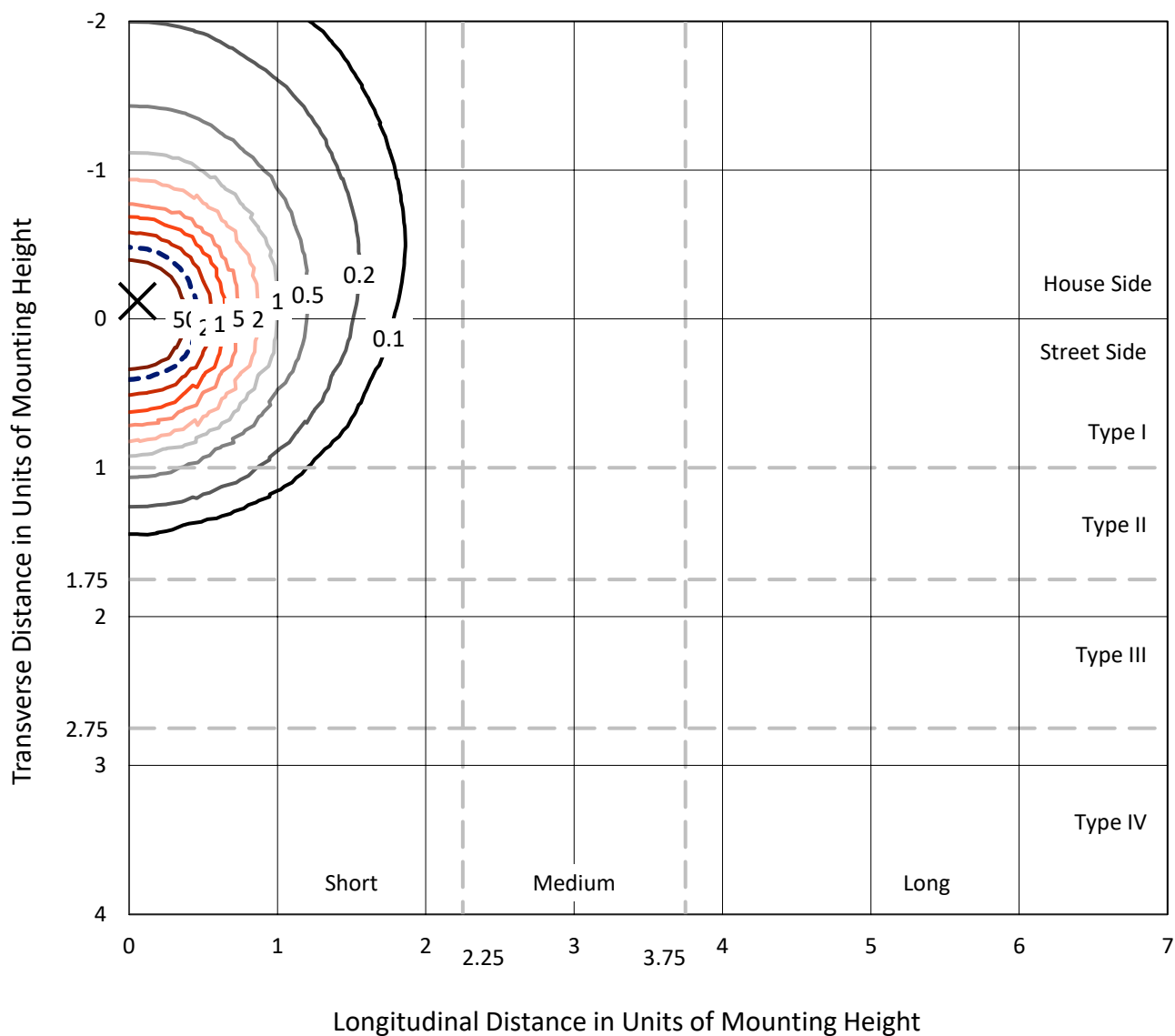
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

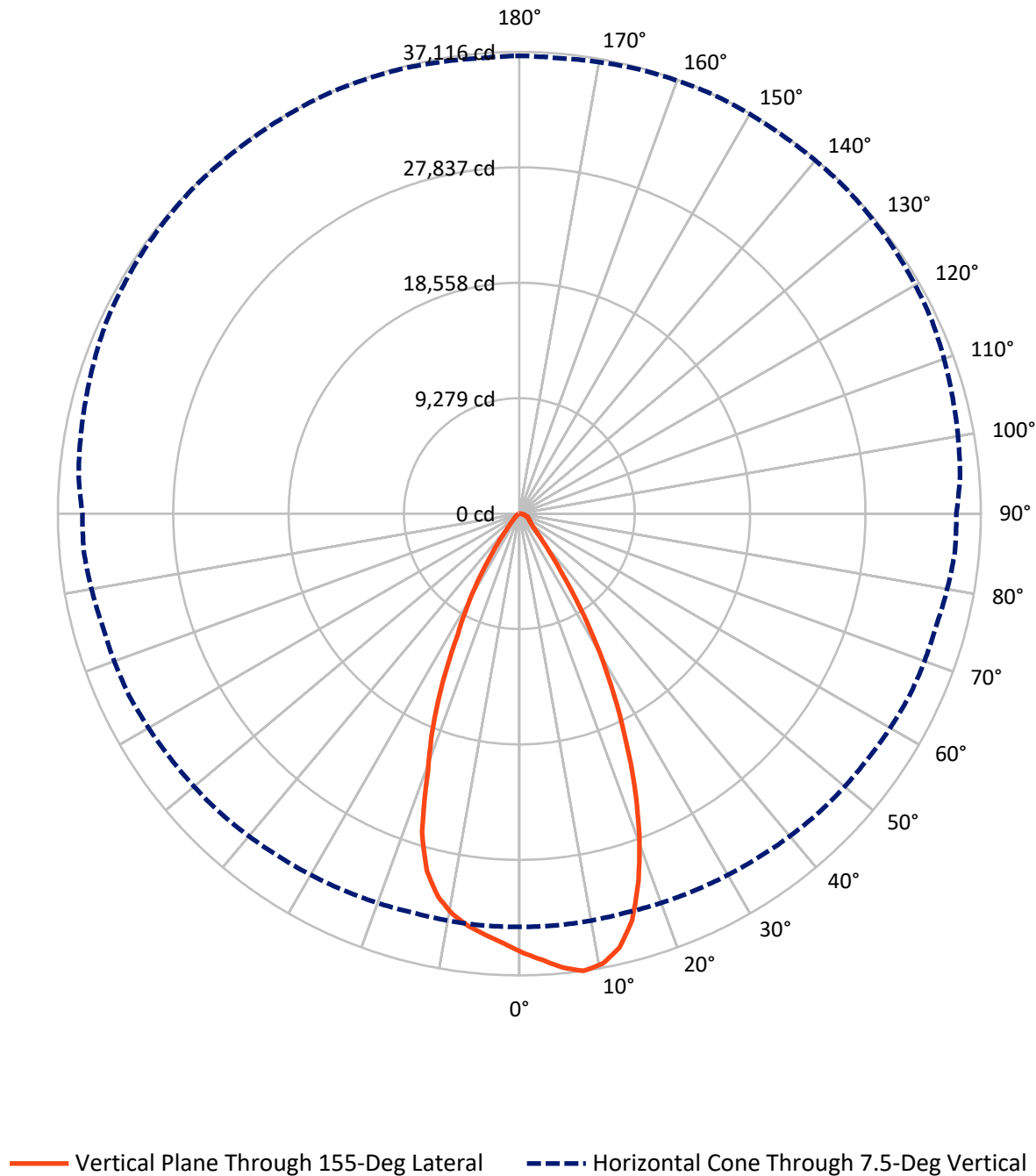


Based on 20 foot mounting height. Maximum calculated value = 89.8 fc

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	13995.7	0.0	13995.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11357.1	0.0	11357.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	25352.8	0.0	25352.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3367.8	13.3
10°-20°	8732.8	34.4
20°-30°	8001.7	31.6
30°-40°	3232.7	12.8
40°-50°	948.3	3.7
50°-60°	530.2	2.1
60°-70°	322.0	1.3
70°-80°	163.6	0.6
80°-90°	53.5	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°	25352.8	100.0
0°-180°	25352.8	100.0

Coefficient of Utilization



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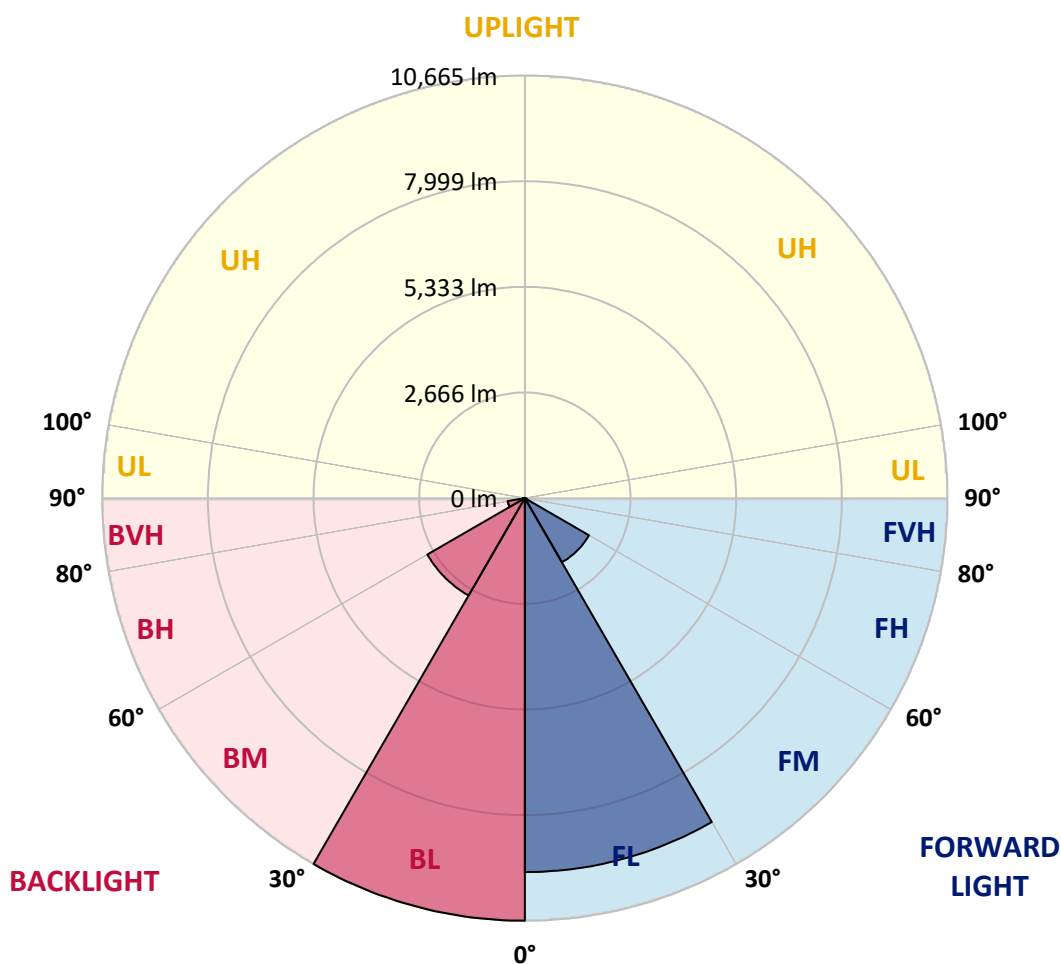
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9436.9	37.2			
FM	(30°-60°)	1870.2	7.4			
FH	(60°-80°)	45.3	0.2			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	10665.4	42.1	B5		
BM	(30°-60°)	2841.0	11.2	B3/5000		
BH	(60°-80°)	440.4	1.7	B1/500		G1/500
BVH	(80°-90°)	48.9	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4
2.5°	34552.4	34669.4	34435.5	34590.4	34710.3	34996.8	35020.2	35119.6	35154.7	35414.9
5°	33897.6	33988.2	33798.2	34005.7	34175.3	34429.6	34625.5	34900.3	35052.3	35359.3
7.5°	33216.4	33236.9	33198.9	33418.1	33672.5	34023.3	34265.9	34625.5	34719.1	35157.6
10°	32392.0	32242.9	32316.0	32637.6	33017.6	33555.5	33722.2	34081.8	34248.4	34695.7
12.5°	31076.4	31152.4	31061.8	31471.1	31786.8	32397.8	32573.2	32935.8	33254.4	33649.1
15°	29223.0	29179.1	29363.3	29681.9	30024.0	30509.3	30792.9	31187.5	31430.2	31839.5
17.5°	25057.0	25206.1	25966.2	26764.3	27465.9	28033.1	28372.2	28699.7	28875.1	29319.4
20°	21639.5	21452.4	21554.7	22004.9	24001.6	24869.9	25226.6	25305.5	25378.6	25729.4
22.5°	17818.5	17757.1	18099.2	18604.9	19078.5	21081.1	21566.4	21382.2	21534.2	21864.6
25°	13231.6	13541.5	13845.5	14816.1	15430.0	16412.3	17333.2	17415.1	17470.6	17678.2
27.5°	10770.0	10661.9	10656.0	10927.9	11834.2	12652.8	13436.2	13617.5	13585.3	13784.1
30°	8466.4	8431.3	8308.5	8372.8	8282.2	9010.1	9378.5	10124.0	10083.0	10088.9
32.5°	6107.1	5975.6	5925.9	6022.3	5928.8	5861.5	6183.1	7025.1	7010.5	7068.9
35°	3695.3	3677.7	3718.6	3803.4	3616.3	3610.5	3677.7	4470.0	4566.5	4660.0
37.5°	2040.6	2023.0	2055.2	2368.0	2306.6	2251.1	2268.6	2686.7	2964.4	3034.6
40°	1344.8	1341.9	1365.3	1420.8	1526.0	1505.6	1514.4	1701.5	1964.6	2026.0
42.5°	900.4	903.4	918.0	982.3	996.9	1102.1	1084.6	1128.5	1374.0	1426.7
45°	719.2	716.2	725.0	695.8	713.3	821.5	833.2	836.1	1046.6	1078.8
47.5°	567.2	567.2	575.9	537.9	529.1	596.4	657.8	666.5	836.1	880.0
50°	397.6	397.6	441.4	423.9	444.4	464.8	532.1	540.8	684.1	730.9
52.5°	292.3	298.2	304.0	307.0	374.2	371.3	429.7	470.7	517.5	599.3
55°	222.2	228.0	213.4	228.0	277.7	309.9	321.6	380.1	412.2	502.8
57.5°	146.2	160.8	149.1	175.4	187.1	239.7	257.3	312.8	333.3	412.2
60°	20.5	23.4	38.0	122.8	131.6	157.9	198.8	248.5	269.0	336.2
62.5°	2.9	2.9	8.8	20.5	87.7	105.2	149.1	172.5	198.8	251.4
65°	0.0	0.0	2.9	5.8	17.5	61.4	76.0	93.6	137.4	181.3
67.5°	0.0	0.0	2.9	5.8	8.8	20.5	32.2	61.4	78.9	125.7
70°	0.0	0.0	2.9	5.8	8.8	11.7	17.5	23.4	46.8	73.1
72.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	17.5	20.5	46.8
75°	0.0	0.0	2.9	5.8	8.8	14.6	17.5	17.5	17.5	20.5
77.5°	0.0	0.0	2.9	5.8	11.7	17.5	20.5	17.5	14.6	14.6
80°	0.0	0.0	2.9	8.8	14.6	20.5	23.4	17.5	11.7	8.8
82.5°	0.0	0.0	2.9	8.8	14.6	20.5	23.4	20.5	11.7	8.8
85°	0.0	0.0	2.9	8.8	11.7	14.6	23.4	20.5	11.7	5.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.7	8.8	5.8	2.9
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°
35318.4	0°	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4	35318.4
35409.0	2.5°	35672.1	35803.7	36034.6	36098.9	36297.7	36069.7	35944.0	35955.7	35683.8
35321.3	5°	35672.1	35973.2	36376.7	36569.6	36715.8	36704.1	36671.9	36590.1	36391.3
35145.9	7.5°	35578.6	36069.7	36625.2	36882.4	37057.8	37043.2	37116.3	36984.8	36742.1
34833.1	10°	35277.4	35704.3	36388.4	36598.9	36882.4	36888.3	36797.6	36824.0	36391.3
33690.0	12.5°	34330.2	34663.5	35262.8	35502.6	35847.5	35903.1	35803.7	35765.7	35356.4
31816.1	15°	32497.2	32690.2	33292.4	33532.1	33874.2	33827.4	33926.8	33885.9	33526.3
29284.3	17.5°	29816.4	29877.8	30509.3	30711.0	31032.6	31158.3	31009.2	31199.2	30889.3
25790.8	20°	25972.1	26302.4	27012.8	27322.7	27509.8	27734.9	27539.0	27752.4	27389.9
21551.8	22.5°	22072.2	22268.0	22911.2	23358.5	23706.4	23750.2	23677.1	23826.2	23338.0
17815.6	25°	17812.7	18137.2	18645.9	19230.6	19572.6	19783.1	19593.1	19689.5	19610.6
13816.3	27.5°	14050.2	14339.6	14722.6	15158.2	15672.7	15947.5	15795.5	15959.2	15573.3
10302.3	30°	10311.1	10457.2	10889.9	11351.8	11916.0	12249.3	12263.9	12430.6	12202.5
7218.0	32.5°	7270.7	7399.3	7665.3	7972.3	8510.2	8881.5	8823.0	8846.4	8706.1
4703.9	35°	4727.2	4899.7	5089.8	5235.9	5560.4	5969.7	5937.6	5908.3	5811.8
3093.0	37.5°	3160.3	3227.5	3332.7	3464.3	3674.8	3932.1	4016.8	3911.6	3870.7
2087.4	40°	2137.1	2254.0	2324.2	2423.6	2522.9	2739.3	2797.8	2777.3	2736.4
1461.7	42.5°	1517.3	1607.9	1695.6	1792.1	1844.7	1979.2	2093.2	2061.0	2043.5
1110.9	45°	1151.8	1233.7	1336.0	1409.1	1461.7	1540.7	1648.8	1660.5	1634.2
891.7	47.5°	923.8	996.9	1078.8	1169.4	1230.8	1280.5	1374.0	1409.1	1391.6
751.3	50°	783.5	839.0	918.0	1008.6	1075.8	1119.7	1201.5	1239.5	1227.9
628.5	52.5°	666.5	733.8	806.9	882.9	964.7	1008.6	1084.6	1140.2	1131.4
520.4	55°	552.5	640.2	716.2	792.3	885.8	929.7	996.9	1070.0	1055.4
441.4	57.5°	482.4	555.5	634.4	707.5	806.9	865.3	926.7	1002.7	999.8
362.5	60°	403.4	476.5	564.2	625.6	730.9	812.7	868.3	947.2	953.0
274.8	62.5°	321.6	412.2	479.4	564.2	660.7	757.2	809.8	888.7	918.0
210.5	65°	239.7	339.1	415.1	499.9	590.5	698.7	745.5	824.4	853.7
152.0	67.5°	178.3	254.3	350.8	423.9	526.2	619.8	675.3	748.4	768.9
90.6	70°	134.5	195.9	292.3	356.7	461.9	537.9	593.5	649.0	675.3
61.4	72.5°	78.9	146.2	231.0	307.0	397.6	461.9	502.8	546.7	564.2
29.2	75°	55.5	111.1	181.3	254.3	321.6	374.2	412.2	450.2	467.8
14.6	77.5°	29.2	81.9	143.2	204.6	251.4	295.3	333.3	362.5	374.2
11.7	80°	17.5	58.5	116.9	160.8	192.9	231.0	269.0	289.4	286.5
8.8	82.5°	11.7	46.8	84.8	116.9	140.3	169.6	195.9	210.5	210.5
5.8	85°	8.8	32.2	58.5	90.6	93.6	116.9	122.8	137.4	140.3
5.8	87.5°	5.8	20.5	32.2	52.6	49.7	61.4	64.3	73.1	78.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
35318.4
35464.5
36455.6
36797.6
36265.6
35262.8
33640.3
30813.3
27360.7
23270.8
19560.9
15672.7
12243.5
8785.0
5727.1
3861.9
2742.2
2028.9
1631.3
1382.8
1224.9
1125.5
1055.4
996.9
953.0
915.0
850.7
768.9
669.5
558.4
461.9
371.3
283.6
207.6
137.4
76.0
0.0

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