

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: P637537

Luminaire Tested: **IFLD-M-SA4C-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19672.4 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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

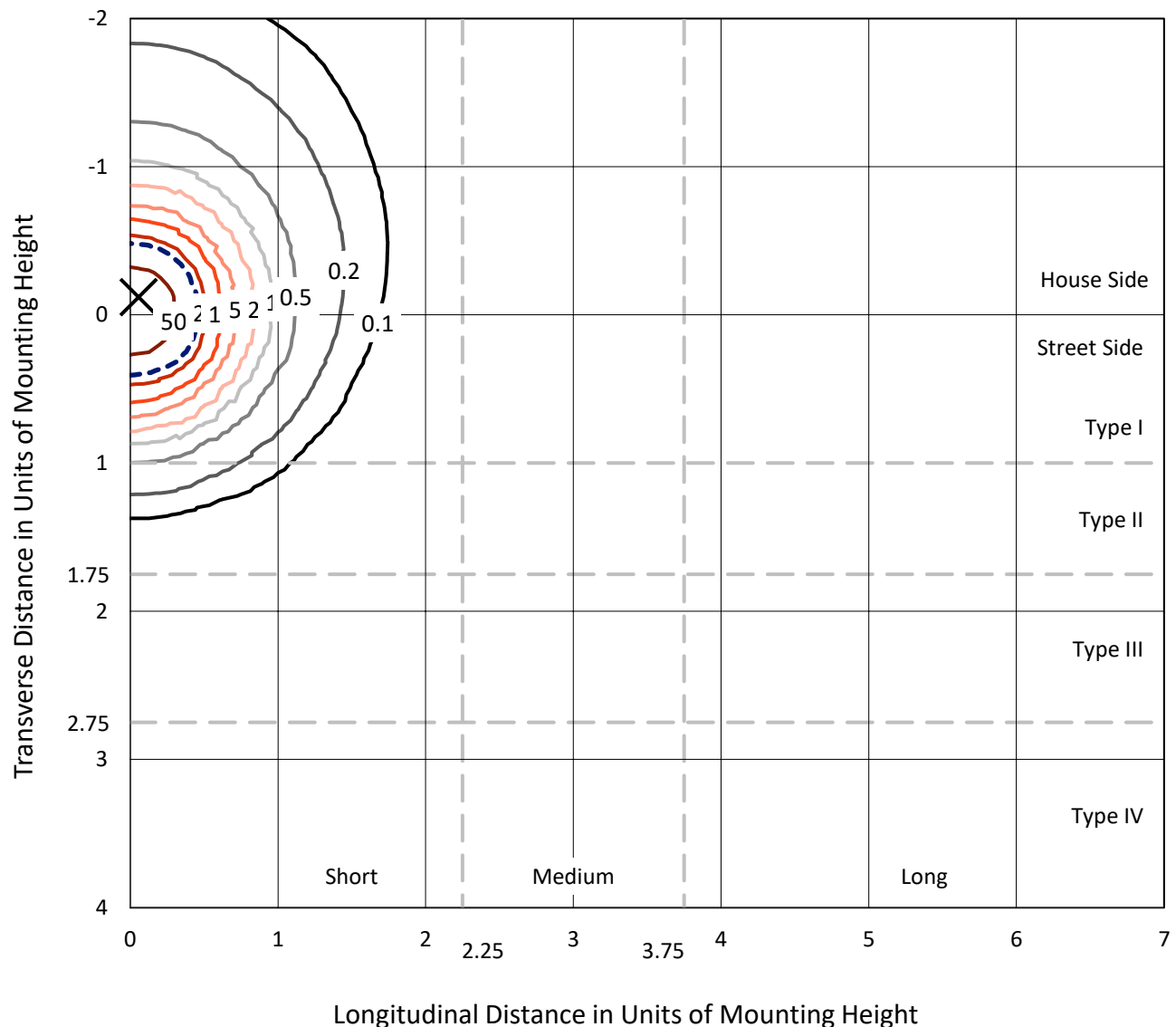


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Iso-Footcandle Lines of Horizontal Illumination

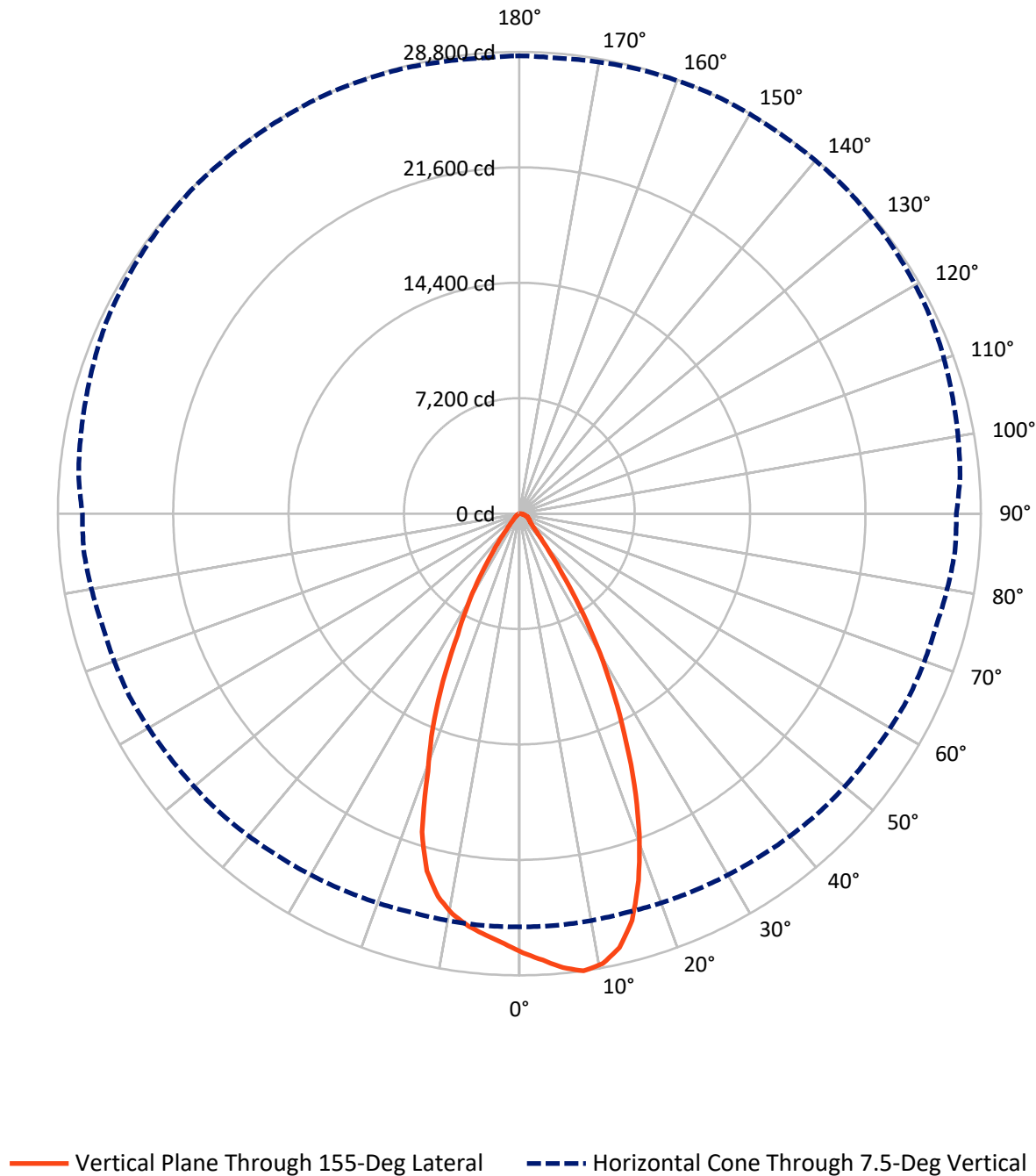
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 69.6 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	10859.9	0.0	10859.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8812.5	0.0	8812.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	19672.4	0.0	19672.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2613.3	13.3
10°-20°	6776.2	34.4
20°-30°	6208.9	31.6
30°-40°	2508.4	12.8
40°-50°	735.9	3.7
50°-60°	411.4	2.1
60°-70°	249.9	1.3
70°-80°	127.0	0.6
80°-90°	41.5	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°	19672.4	100.0
0°-180°	19672.4	100.0

Coefficient of Utilization



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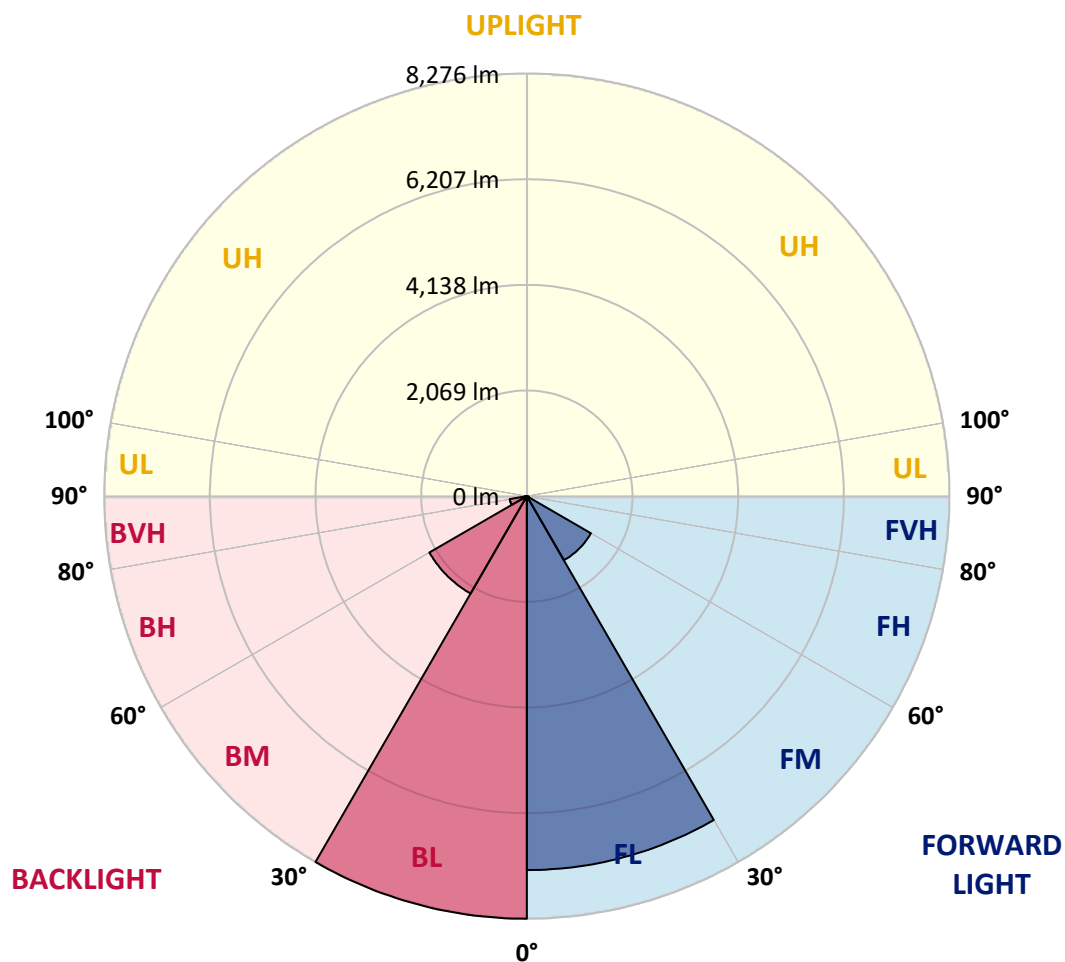
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7322.6	37.2			
FM	(30°-60°)	1451.2	7.4			
FH	(60°-80°)	35.1	0.2			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	8275.8	42.1	B5		
BM	(30°-60°)	2204.5	11.2	B2/2500		
BH	(60°-80°)	341.7	1.7	B1/500		G1/500
BVH	(80°-90°)	37.9	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°	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2
2.5°	26810.9	26901.6	26720.1	26840.4	26933.4	27155.7	27173.8	27251.0	27278.2	27480.1
5°	26302.7	26373.1	26225.6	26386.7	26518.2	26715.6	26867.6	27080.8	27198.8	27437.0
7.5°	25774.2	25790.1	25760.6	25930.7	26128.1	26400.3	26588.6	26867.6	26940.2	27280.4
10°	25134.5	25018.8	25075.5	25325.0	25619.9	26037.3	26166.6	26445.6	26575.0	26922.0
12.5°	24113.7	24172.7	24102.3	24419.9	24664.9	25139.0	25275.1	25556.4	25803.7	26109.9
15°	22675.5	22641.4	22784.4	23031.6	23297.0	23673.6	23893.6	24199.9	24388.2	24705.7
17.5°	19442.9	19558.6	20148.4	20767.7	21312.1	21752.2	22015.4	22269.4	22405.5	22750.3
20°	16791.1	16645.9	16725.3	17074.7	18624.0	19297.7	19574.5	19635.7	19692.5	19964.7
22.5°	13826.2	13778.6	14044.0	14436.4	14803.9	16357.8	16734.4	16591.5	16709.4	16965.8
25°	10267.0	10507.5	10743.4	11496.5	11972.9	12735.1	13449.7	13513.2	13556.3	13717.3
27.5°	8357.0	8273.1	8268.5	8479.5	9182.7	9817.9	10425.8	10566.5	10541.5	10695.8
30°	6569.4	6542.2	6446.9	6496.9	6426.5	6991.4	7277.2	7855.7	7823.9	7828.4
32.5°	4738.8	4636.7	4598.2	4673.0	4600.4	4548.3	4797.8	5451.1	5439.8	5485.1
35°	2867.3	2853.7	2885.5	2951.3	2806.1	2801.5	2853.7	3468.5	3543.3	3615.9
37.5°	1583.4	1569.8	1594.7	1837.4	1789.8	1746.7	1760.3	2084.7	2300.2	2354.7
40°	1043.5	1041.2	1059.4	1102.5	1184.1	1168.3	1175.1	1320.2	1524.4	1572.0
42.5°	698.7	701.0	712.3	762.2	773.5	855.2	841.6	875.6	1066.2	1107.0
45°	558.0	555.8	562.6	539.9	553.5	637.4	646.5	648.8	812.1	837.1
47.5°	440.1	440.1	446.9	417.4	410.6	462.8	510.4	517.2	648.8	682.8
50°	308.5	308.5	342.5	328.9	344.8	360.7	412.9	419.7	530.8	567.1
52.5°	226.8	231.4	235.9	238.2	290.4	288.1	333.5	365.2	401.5	465.0
55°	172.4	176.9	165.6	176.9	215.5	240.5	249.5	294.9	319.9	390.2
57.5°	113.4	124.8	115.7	136.1	145.2	186.0	199.6	242.7	258.6	319.9
60°	15.9	18.1	29.5	95.3	102.1	122.5	154.3	192.8	208.7	260.9
62.5°	2.3	2.3	6.8	15.9	68.1	81.7	115.7	133.8	154.3	195.1
65°	0.0	0.0	2.3	4.5	13.6	47.6	59.0	72.6	106.6	140.6
67.5°	0.0	0.0	2.3	4.5	6.8	15.9	25.0	47.6	61.2	97.5
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	36.3	56.7
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	15.9	36.3
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	13.6	15.9
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.9	13.6	11.3	11.3
80°	0.0	0.0	2.3	6.8	11.3	15.9	18.1	13.6	9.1	6.8
82.5°	0.0	0.0	2.3	6.8	11.3	15.9	18.1	15.9	9.1	6.8
85°	0.0	0.0	2.3	6.8	9.1	11.3	18.1	15.9	9.1	4.5
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	9.1	6.8	4.5	2.3
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°
27405.2	0°	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2	27405.2
27475.5	2.5°	27679.7	27781.8	27961.0	28010.9	28165.1	27988.2	27890.7	27899.7	27688.8
27407.5	5°	27679.7	27913.3	28226.4	28376.1	28489.5	28480.5	28455.5	28392.0	28237.7
27271.4	7.5°	27607.1	27988.2	28419.2	28618.8	28754.9	28743.6	28800.3	28698.2	28509.9
27028.6	10°	27373.4	27704.6	28235.5	28398.8	28618.8	28623.4	28553.0	28573.5	28237.7
26141.7	12.5°	26638.5	26897.1	27362.1	27548.1	27815.8	27858.9	27781.8	27752.3	27434.7
24687.6	15°	25216.1	25365.9	25833.2	26019.2	26284.6	26248.3	26325.4	26293.7	26014.6
22723.1	17.5°	23136.0	23183.6	23673.6	23830.1	24079.7	24177.2	24061.5	24209.0	23968.5
20012.3	20°	20153.0	20409.3	20960.5	21201.0	21346.2	21520.8	21368.8	21534.4	21253.2
16723.1	22.5°	17126.8	17278.8	17777.9	18125.0	18394.9	18428.9	18372.2	18487.9	18109.1
13824.0	25°	13821.7	14073.5	14468.2	14921.9	15187.3	15350.6	15203.2	15278.0	15216.8
10720.7	27.5°	10902.2	11126.8	11423.9	11761.9	12161.2	12374.4	12256.5	12383.5	12084.1
7994.0	30°	8000.8	8114.3	8450.0	8808.4	9246.2	9504.8	9516.2	9645.5	9468.5
5600.8	32.5°	5641.6	5741.5	5947.9	6186.1	6603.5	6891.6	6846.2	6864.3	6755.5
3649.9	35°	3668.1	3801.9	3949.4	4062.8	4314.6	4632.2	4607.2	4584.5	4509.7
2400.0	37.5°	2452.2	2504.4	2586.0	2688.1	2851.4	3051.1	3116.9	3035.2	3003.4
1619.7	40°	1658.2	1749.0	1803.4	1880.5	1957.7	2125.5	2170.9	2155.0	2123.3
1134.2	42.5°	1177.3	1247.7	1315.7	1390.6	1431.4	1535.7	1624.2	1599.3	1585.7
862.0	45°	893.8	957.3	1036.7	1093.4	1134.2	1195.5	1279.4	1288.5	1268.1
691.9	47.5°	716.8	773.5	837.1	907.4	955.0	993.6	1066.2	1093.4	1079.8
583.0	50°	607.9	651.0	712.3	782.6	834.8	868.8	932.3	961.8	952.8
487.7	52.5°	517.2	569.4	626.1	685.1	748.6	782.6	841.6	884.7	877.9
403.8	55°	428.7	496.8	555.8	614.8	687.3	721.4	773.5	830.3	818.9
342.5	57.5°	374.3	431.0	492.3	549.0	626.1	671.5	719.1	778.1	775.8
281.3	60°	313.0	369.8	437.8	485.4	567.1	630.6	673.7	735.0	739.5
213.2	62.5°	249.5	319.9	372.0	437.8	512.7	587.5	628.4	689.6	712.3
163.3	65°	186.0	263.1	322.1	387.9	458.2	542.2	578.5	639.7	662.4
118.0	67.5°	138.4	197.4	272.2	328.9	408.3	480.9	524.0	580.7	596.6
70.3	70°	104.3	152.0	226.8	276.8	358.4	417.4	460.5	503.6	524.0
47.6	72.5°	61.2	113.4	179.2	238.2	308.5	358.4	390.2	424.2	437.8
22.7	75°	43.1	86.2	140.6	197.4	249.5	290.4	319.9	349.3	363.0
11.3	77.5°	22.7	63.5	111.2	158.8	195.1	229.1	258.6	281.3	290.4
9.1	80°	13.6	45.4	90.7	124.8	149.7	179.2	208.7	224.6	222.3
6.8	82.5°	9.1	36.3	65.8	90.7	108.9	131.6	152.0	163.3	163.3
4.5	85°	6.8	25.0	45.4	70.3	72.6	90.7	95.3	106.6	108.9
4.5	87.5°	4.5	15.9	25.0	40.8	38.6	47.6	49.9	56.7	61.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27405.2
27518.6
28287.6
28553.0
28140.2
27362.1
26103.1
23909.5
21230.5
18056.9
15178.2
12161.2
9500.3
6816.7
4443.9
2996.6
2127.8
1574.3
1265.8
1073.0
950.5
873.4
818.9
773.5
739.5
710.0
660.1
596.6
519.5
433.3
358.4
288.1
220.0
161.1
106.6
59.0
0.0

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