

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: P637762

Luminaire Tested: **IFLD-S-SA6A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20145.3 lumens
Efficiency: N/A
Efficacy: 106.3 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

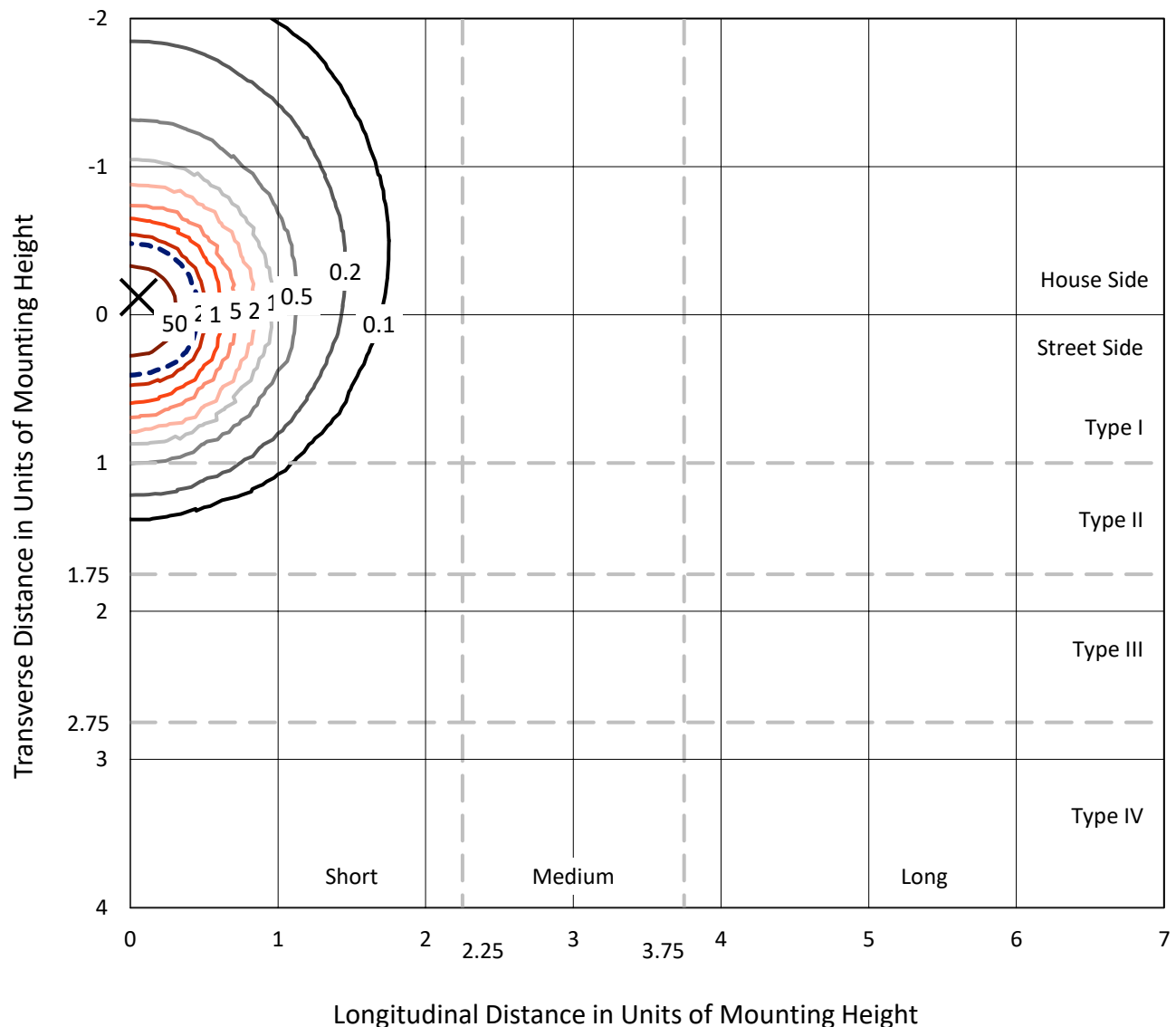


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

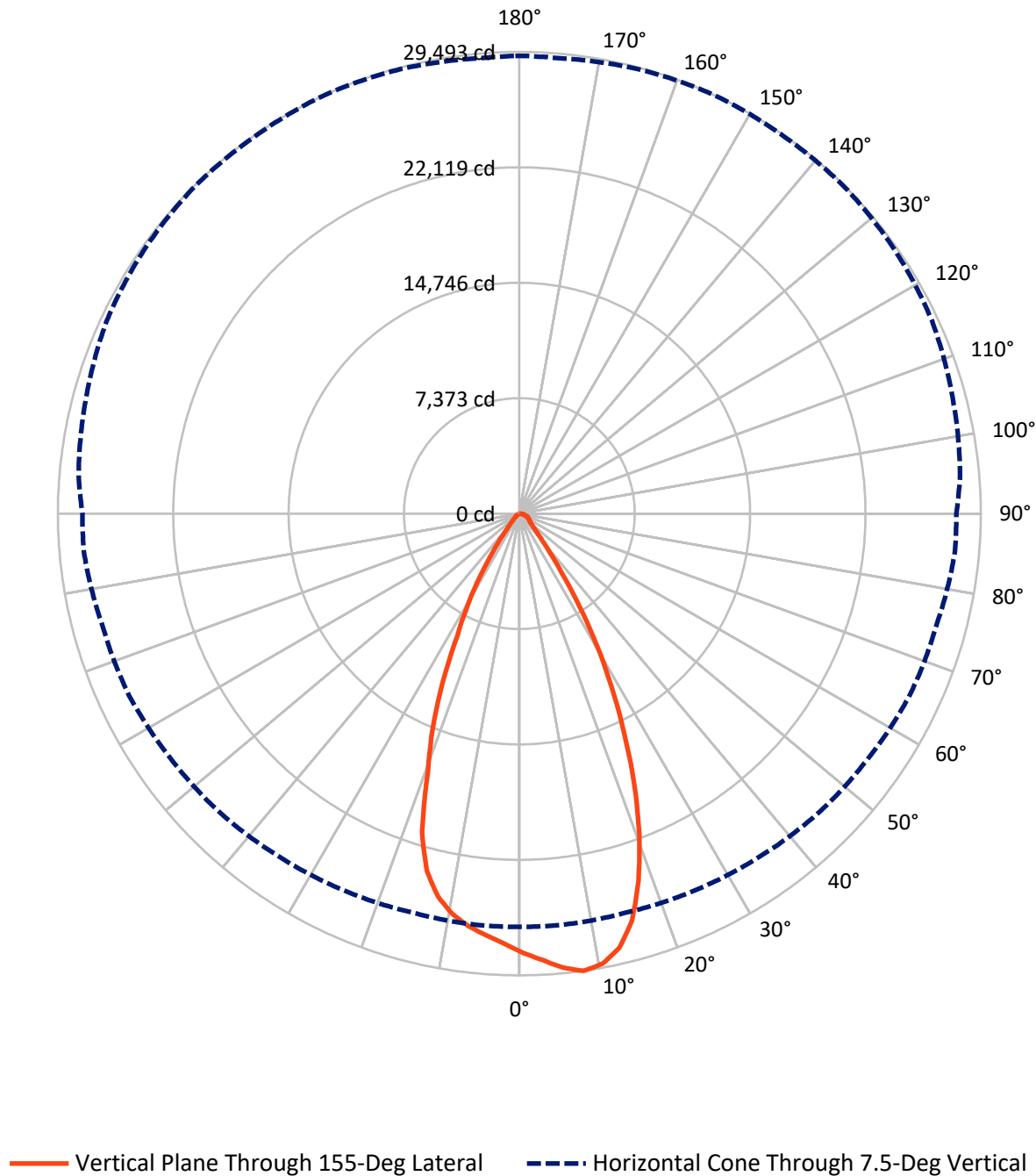


Based on 20 foot mounting height. Maximum calculated value = 71.3 fc

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	11120.9	0.0	11120.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9024.4	0.0	9024.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	20145.3	0.0	20145.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2676.1	13.3
10°-20°	6939.1	34.4
20°-30°	6358.1	31.6
30°-40°	2568.7	12.8
40°-50°	753.5	3.7
50°-60°	421.3	2.1
60°-70°	255.9	1.3
70°-80°	130.0	0.6
80°-90°	42.5	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°	20145.3	100.0
0°-180°	20145.3	100.0

Coefficient of Utilization



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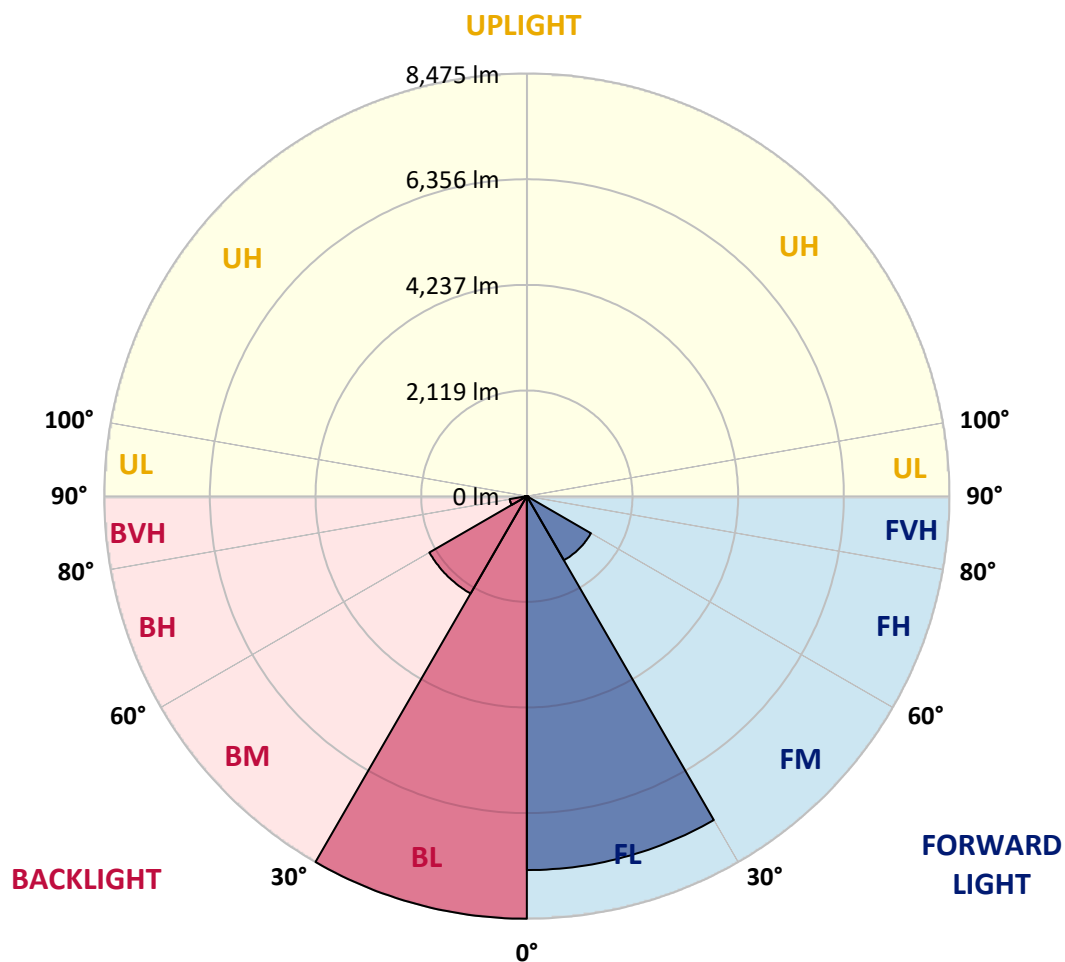
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7498.6	37.2			
FM	(30°-60°)	1486.1	7.4			
FH	(60°-80°)	36.0	0.2			G0/660
FVH	(80°-90°)	3.7	0.0			G0/10
BL	(0°-30°)	8474.7	42.1	B5		
BM	(30°-60°)	2257.5	11.2	B2/2500		
BH	(60°-80°)	349.9	1.7	B1/500		G1/500
BVH	(80°-90°)	38.8	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°	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0
2.5°	27455.4	27548.3	27362.4	27485.6	27580.8	27808.5	27827.0	27906.0	27933.9	28140.6
5°	26935.0	27007.0	26856.0	27021.0	27155.7	27357.8	27513.4	27731.8	27852.6	28096.5
7.5°	26393.8	26410.0	26379.8	26554.0	26756.1	27034.9	27227.7	27513.4	27587.8	27936.2
10°	25738.7	25620.2	25678.3	25933.8	26235.8	26663.2	26795.6	27081.4	27213.8	27569.2
12.5°	24693.3	24753.7	24681.7	25006.9	25257.8	25743.3	25882.7	26170.7	26424.0	26737.6
15°	23220.6	23185.7	23332.1	23585.3	23857.1	24242.7	24468.0	24781.6	24974.4	25299.6
17.5°	19910.3	20028.8	20632.8	21266.9	21824.4	22275.1	22544.6	22804.7	22944.1	23297.2
20°	17194.7	17046.1	17127.4	17485.1	19071.7	19761.6	20045.0	20107.8	20165.8	20444.6
22.5°	14158.6	14109.8	14381.6	14783.5	15159.8	16751.0	17136.7	16990.3	17111.1	17373.6
25°	10513.8	10760.1	11001.7	11772.9	12260.7	13041.2	13773.0	13838.0	13882.2	14047.1
27.5°	8557.9	8471.9	8467.3	8683.3	9403.4	10053.9	10676.4	10820.5	10794.9	10952.9
30°	6727.4	6699.5	6601.9	6653.0	6581.0	7159.4	7452.1	8044.5	8012.0	8016.6
32.5°	4852.7	4748.2	4708.7	4785.3	4711.0	4657.6	4913.1	5582.1	5570.5	5617.0
35°	2936.3	2922.3	2954.8	3022.2	2873.5	2868.9	2922.3	3551.8	3628.5	3702.8
37.5°	1621.4	1607.5	1633.1	1881.6	1832.8	1788.7	1802.6	2134.8	2355.5	2411.3
40°	1068.6	1066.3	1084.8	1129.0	1212.6	1196.3	1203.3	1352.0	1561.0	1609.8
42.5°	715.5	717.8	729.4	780.5	792.1	875.8	861.8	896.7	1091.8	1133.6
45°	571.5	569.1	576.1	552.9	566.8	652.8	662.1	664.4	831.6	857.2
47.5°	450.7	450.7	457.6	427.4	420.5	473.9	522.7	529.6	664.4	699.2
50°	315.9	315.9	350.8	336.8	353.1	369.4	422.8	429.8	543.6	580.7
52.5°	232.3	236.9	241.6	243.9	297.3	295.0	341.5	374.0	411.2	476.2
55°	176.5	181.2	169.6	181.2	220.7	246.2	255.5	302.0	327.5	399.6
57.5°	116.1	127.8	118.5	139.4	148.7	190.5	204.4	248.6	264.8	327.5
60°	16.3	18.6	30.2	97.6	104.5	125.4	158.0	197.5	213.7	267.1
62.5°	2.3	2.3	7.0	16.3	69.7	83.6	118.5	137.1	158.0	199.8
65°	0.0	0.0	2.3	4.6	13.9	48.8	60.4	74.3	109.2	144.0
67.5°	0.0	0.0	2.3	4.6	7.0	16.3	25.6	48.8	62.7	99.9
70°	0.0	0.0	2.3	4.6	7.0	9.3	13.9	18.6	37.2	58.1
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	13.9	16.3	37.2
75°	0.0	0.0	2.3	4.6	7.0	11.6	13.9	13.9	13.9	16.3
77.5°	0.0	0.0	2.3	4.6	9.3	13.9	16.3	13.9	11.6	11.6
80°	0.0	0.0	2.3	7.0	11.6	16.3	18.6	13.9	9.3	7.0
82.5°	0.0	0.0	2.3	7.0	11.6	16.3	18.6	16.3	9.3	7.0
85°	0.0	0.0	2.3	7.0	9.3	11.6	18.6	16.3	9.3	4.6
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	9.3	7.0	4.6	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°
28064.0	0°	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0	28064.0
28136.0	2.5°	28345.1	28449.6	28633.1	28684.2	28842.2	28661.0	28561.1	28570.4	28354.4
28066.3	5°	28345.1	28584.3	28904.9	29058.2	29174.4	29165.1	29139.5	29074.5	28916.5
27926.9	7.5°	28270.7	28661.0	29102.4	29306.8	29446.2	29434.5	29492.6	29388.1	29195.3
27678.4	10°	28031.5	28370.6	28914.2	29081.4	29306.8	29311.4	29239.4	29260.3	28916.5
26770.1	12.5°	27278.8	27543.6	28019.8	28210.3	28484.4	28528.6	28449.6	28419.4	28094.2
25281.0	15°	25822.3	25975.6	26454.2	26644.6	26916.4	26879.3	26958.2	26925.7	26640.0
23269.3	17.5°	23692.1	23740.9	24242.7	24403.0	24658.5	24758.4	24639.9	24790.9	24544.7
20493.4	20°	20637.4	20899.9	21464.4	21710.6	21859.3	22038.2	21882.5	22052.1	21764.0
17125.0	22.5°	17538.5	17694.2	18205.2	18560.6	18837.1	18871.9	18813.9	18932.3	18544.4
14156.3	25°	14153.9	14411.8	14816.0	15280.6	15552.4	15719.6	15568.6	15645.3	15582.6
10978.4	27.5°	11164.3	11394.2	11698.6	12044.7	12453.5	12671.9	12551.1	12681.2	12374.5
8186.2	30°	8193.2	8309.3	8653.1	9020.2	9468.5	9733.3	9744.9	9877.3	9696.1
5735.4	32.5°	5777.3	5879.5	6090.9	6334.8	6762.2	7057.2	7010.8	7029.4	6917.8
3737.7	35°	3756.3	3893.3	4044.3	4160.5	4418.3	4743.5	4718.0	4694.8	4618.1
2457.7	37.5°	2511.1	2564.6	2648.2	2752.7	2920.0	3124.4	3191.8	3108.2	3075.6
1658.6	40°	1698.1	1791.0	1846.8	1925.8	2004.7	2176.6	2223.1	2206.8	2174.3
1161.5	42.5°	1205.6	1277.6	1347.3	1424.0	1465.8	1572.7	1663.3	1637.7	1623.8
882.7	45°	915.3	980.3	1061.6	1119.7	1161.5	1224.2	1310.2	1319.5	1298.5
708.5	47.5°	734.1	792.1	857.2	929.2	978.0	1017.5	1091.8	1119.7	1105.7
597.0	50°	622.6	666.7	729.4	801.4	854.9	889.7	954.7	984.9	975.7
499.4	52.5°	529.6	583.1	641.1	701.5	766.6	801.4	861.8	906.0	899.0
413.5	55°	439.0	508.7	569.1	629.5	703.9	738.7	792.1	850.2	838.6
350.8	57.5°	383.3	441.4	504.1	562.2	641.1	687.6	736.4	796.8	794.5
288.1	60°	320.6	378.6	448.3	497.1	580.7	645.8	689.9	752.6	757.3
218.4	62.5°	255.5	327.5	381.0	448.3	525.0	601.7	643.5	706.2	729.4
167.3	65°	190.5	269.5	329.9	397.2	469.2	555.2	592.4	655.1	678.3
120.8	67.5°	141.7	202.1	278.8	336.8	418.1	492.5	536.6	594.7	610.9
72.0	70°	106.9	155.6	232.3	283.4	367.0	427.4	471.6	515.7	536.6
48.8	72.5°	62.7	116.1	183.5	243.9	315.9	367.0	399.6	434.4	448.3
23.2	75°	44.1	88.3	144.0	202.1	255.5	297.3	327.5	357.7	371.7
11.6	77.5°	23.2	65.0	113.8	162.6	199.8	234.6	264.8	288.1	297.3
9.3	80°	13.9	46.5	92.9	127.8	153.3	183.5	213.7	230.0	227.7
7.0	82.5°	9.3	37.2	67.4	92.9	111.5	134.7	155.6	167.3	167.3
4.6	85°	7.0	25.6	46.5	72.0	74.3	92.9	97.6	109.2	111.5
4.6	87.5°	4.6	16.3	25.6	41.8	39.5	48.8	51.1	58.1	62.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28064.0
28180.1
28967.6
29239.4
28816.6
28019.8
26730.6
24484.3
21740.8
18491.0
15543.1
12453.5
9728.7
6980.6
4550.7
3068.7
2179.0
1612.2
1296.2
1098.8
973.3
894.3
838.6
792.1
757.3
727.1
676.0
610.9
532.0
443.7
367.0
295.0
225.3
164.9
109.2
60.4
0.0

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