

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: P637761

Luminaire Tested: **IFLD-S-SA3E-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637761
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20132.9 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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



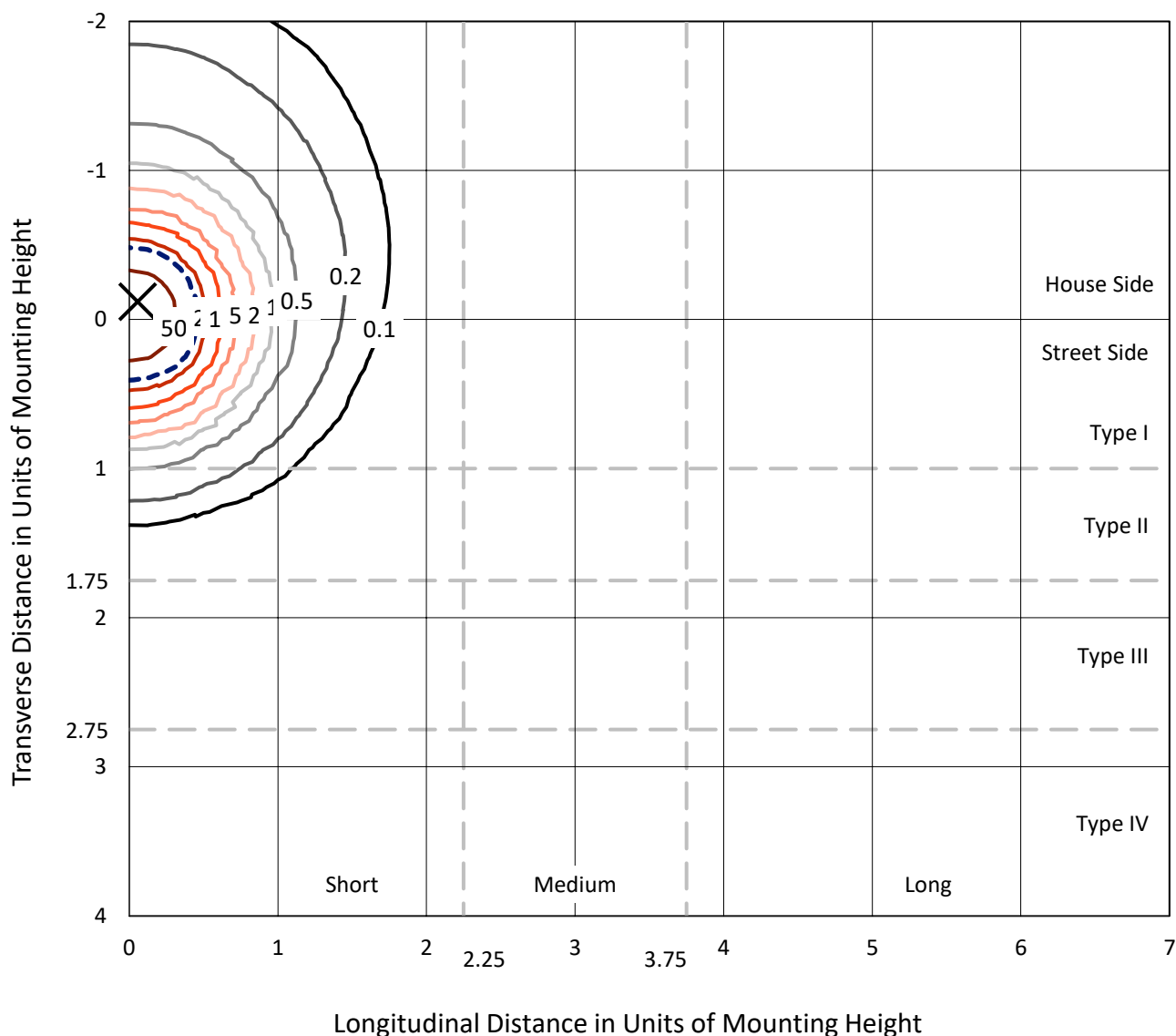
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

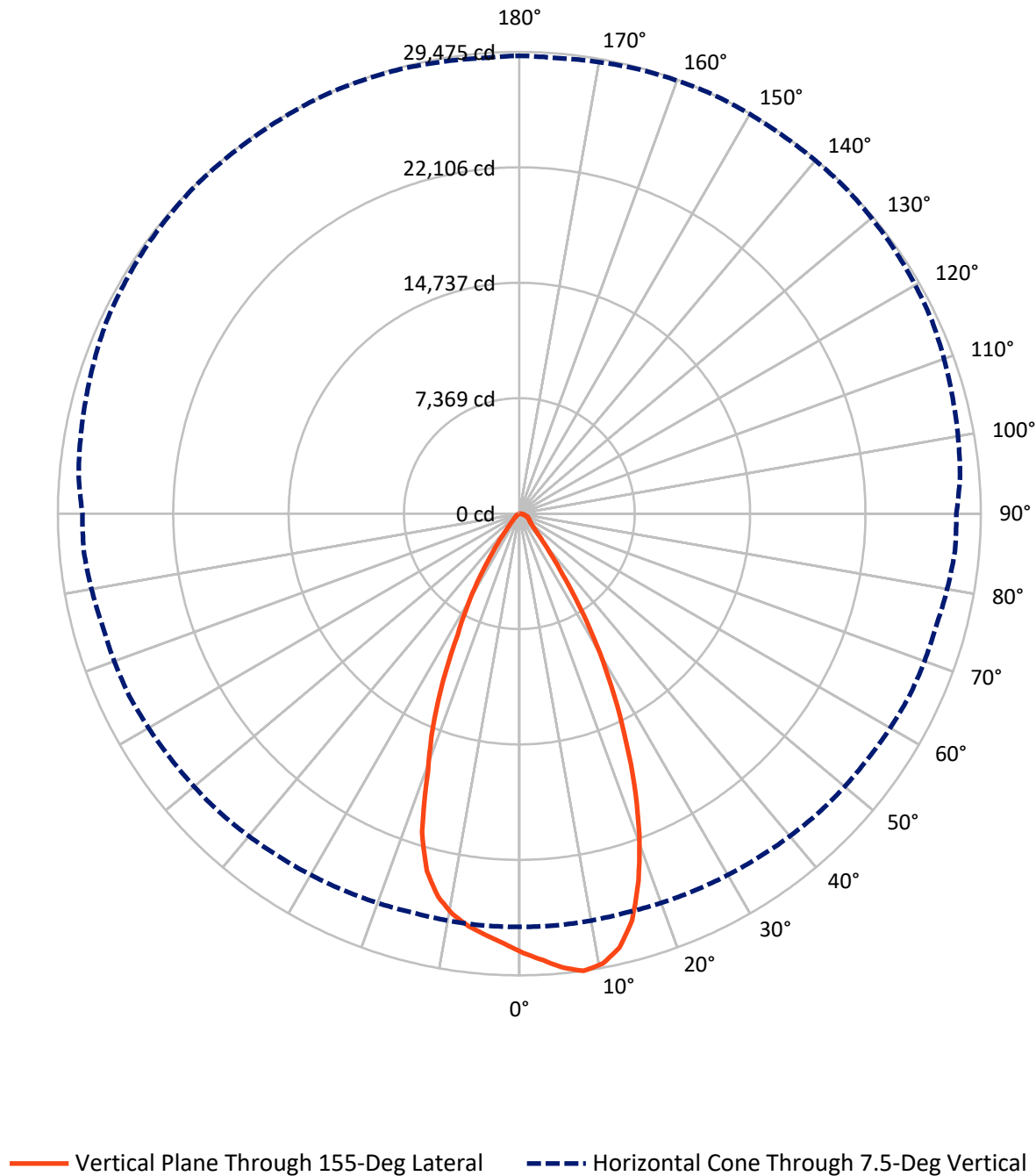


Based on 20 foot mounting height. Maximum calculated value = 71.3 fc

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	11114.1	0.0	11114.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9018.8	0.0	9018.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	20132.9	0.0	20132.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2674.4	13.3
10°-20°	6934.8	34.4
20°-30°	6354.2	31.6
30°-40°	2567.1	12.8
40°-50°	753.1	3.7
50°-60°	421.1	2.1
60°-70°	255.7	1.3
70°-80°	129.9	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°	20132.9	100.0
0°-180°	20132.9	100.0

Coefficient of Utilization



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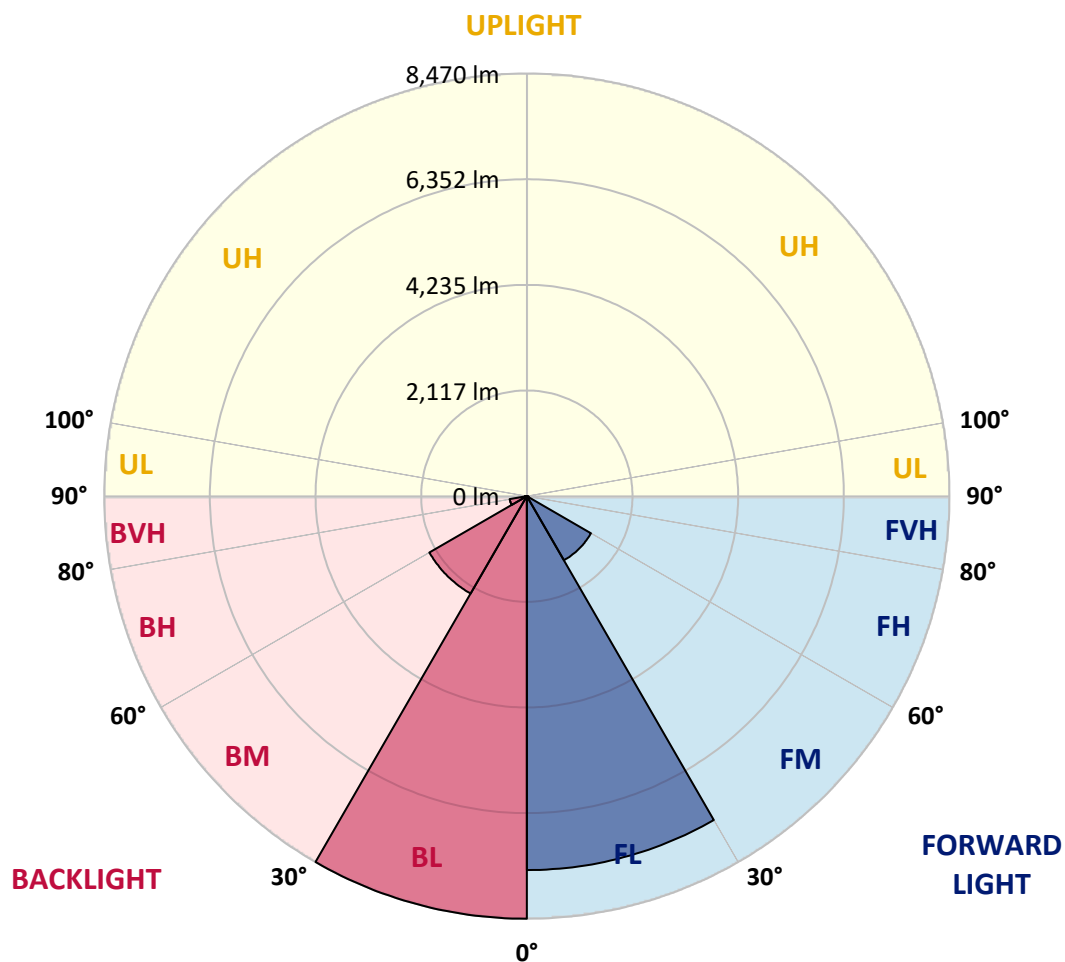
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7494.0	37.2			
FM	(30°-60°)	1485.2	7.4			
FH	(60°-80°)	36.0	0.2			G0/660
FVH	(80°-90°)	3.7	0.0			G0/10
BL	(0°-30°)	8469.5	42.1	B5		
BM	(30°-60°)	2256.1	11.2	B2/2500		
BH	(60°-80°)	349.7	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°	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7
2.5°	27438.5	27531.3	27345.6	27468.7	27563.8	27791.4	27809.9	27888.9	27916.7	28123.3
5°	26918.5	26990.4	26839.5	27004.3	27139.0	27341.0	27496.5	27714.7	27835.5	28079.2
7.5°	26377.5	26393.8	26363.6	26537.7	26739.7	27018.3	27211.0	27496.5	27570.8	27919.0
10°	25722.8	25604.4	25662.5	25917.9	26219.7	26646.8	26779.2	27064.7	27197.0	27552.2
12.5°	24678.1	24738.5	24666.5	24991.6	25242.3	25727.5	25866.8	26154.7	26407.7	26721.1
15°	23206.3	23171.5	23317.7	23570.8	23842.4	24227.8	24453.0	24766.4	24959.1	25284.1
17.5°	19898.1	20016.5	20620.1	21253.9	21811.0	22261.4	22530.7	22790.7	22930.0	23282.9
20°	17184.2	17035.6	17116.8	17474.4	19060.0	19749.5	20032.7	20095.4	20153.4	20432.0
22.5°	14149.9	14101.1	14372.8	14774.4	15150.5	16740.7	17126.1	16979.9	17100.6	17362.9
25°	10507.4	10753.5	10994.9	11765.6	12253.2	13033.2	13764.5	13829.5	13873.6	14038.5
27.5°	8552.6	8466.7	8462.1	8678.0	9397.7	10047.7	10669.9	10813.8	10788.3	10946.1
30°	6723.2	6695.4	6597.9	6648.9	6577.0	7155.0	7447.6	8039.6	8007.0	8011.7
32.5°	4849.7	4745.3	4705.8	4782.4	4708.1	4654.7	4910.1	5578.7	5567.1	5613.5
35°	2934.4	2920.5	2953.0	3020.3	2871.8	2867.1	2920.5	3549.7	3626.3	3700.6
37.5°	1620.4	1606.5	1632.1	1880.5	1831.7	1787.6	1801.5	2133.5	2354.1	2409.8
40°	1067.9	1065.6	1084.2	1128.3	1211.9	1195.6	1202.6	1351.1	1560.1	1608.8
42.5°	715.0	717.4	729.0	780.0	791.7	875.2	861.3	896.1	1091.1	1132.9
45°	571.1	568.8	575.7	552.5	566.5	652.4	661.6	664.0	831.1	856.7
47.5°	450.4	450.4	457.3	427.2	420.2	473.6	522.4	529.3	664.0	698.8
50°	315.7	315.7	350.6	336.6	352.9	369.1	422.5	429.5	543.2	580.4
52.5°	232.2	236.8	241.4	243.8	297.2	294.8	341.3	373.8	410.9	475.9
55°	176.4	181.1	169.5	181.1	220.5	246.1	255.4	301.8	327.3	399.3
57.5°	116.1	127.7	118.4	139.3	148.6	190.4	204.3	248.4	264.7	327.3
60°	16.3	18.6	30.2	97.5	104.5	125.4	157.9	197.3	213.6	267.0
62.5°	2.3	2.3	7.0	16.3	69.6	83.6	118.4	137.0	157.9	199.7
65°	0.0	0.0	2.3	4.6	13.9	48.8	60.4	74.3	109.1	143.9
67.5°	0.0	0.0	2.3	4.6	7.0	16.3	25.5	48.8	62.7	99.8
70°	0.0	0.0	2.3	4.6	7.0	9.3	13.9	18.6	37.1	58.0
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	13.9	16.3	37.1
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°
28046.7	0°	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7	28046.7
28118.7	2.5°	28327.6	28432.1	28615.5	28666.6	28824.4	28643.4	28543.5	28552.8	28336.9
28049.0	5°	28327.6	28566.8	28887.1	29040.4	29156.4	29147.1	29121.6	29056.6	28898.7
27909.8	7.5°	28253.3	28643.4	29084.5	29288.8	29428.1	29416.4	29474.5	29370.0	29177.3
27661.3	10°	28014.2	28353.2	28896.4	29063.6	29288.8	29293.4	29221.4	29242.3	28898.7
26753.6	12.5°	27262.0	27526.7	28002.6	28193.0	28466.9	28511.0	28432.1	28401.9	28076.9
25265.5	15°	25806.4	25959.6	26437.9	26628.3	26899.9	26862.7	26941.7	26909.2	26623.6
23255.0	17.5°	23677.6	23726.3	24227.8	24388.0	24643.3	24743.2	24624.8	24775.7	24529.6
20480.8	20°	20624.7	20887.0	21451.2	21697.3	21845.8	22024.6	21869.1	22038.5	21750.7
17114.5	22.5°	17527.8	17683.3	18194.0	18549.2	18825.5	18860.3	18802.3	18920.7	18533.0
14147.6	25°	14145.2	14402.9	14806.9	15271.2	15542.8	15710.0	15559.1	15635.7	15573.0
10971.7	27.5°	11157.4	11387.2	11691.4	12037.3	12445.9	12664.1	12543.4	12673.4	12366.9
8181.2	30°	8188.1	8304.2	8647.8	9014.6	9462.7	9727.3	9738.9	9871.3	9690.2
5731.9	32.5°	5773.7	5875.9	6087.1	6330.9	6758.1	7052.9	7006.5	7025.0	6913.6
3735.4	35°	3754.0	3890.9	4041.8	4157.9	4415.6	4740.6	4715.1	4691.9	4615.3
2456.2	37.5°	2509.6	2563.0	2646.6	2751.0	2918.2	3122.5	3189.8	3106.2	3073.7
1657.6	40°	1697.1	1789.9	1845.6	1924.6	2003.5	2175.3	2221.7	2205.5	2173.0
1160.8	42.5°	1204.9	1276.9	1346.5	1423.1	1464.9	1571.7	1662.2	1636.7	1622.8
882.2	45°	914.7	979.7	1061.0	1119.0	1160.8	1223.5	1309.4	1318.6	1297.8
708.1	47.5°	733.6	791.7	856.7	928.6	977.4	1016.8	1091.1	1119.0	1105.1
596.6	50°	622.2	666.3	729.0	800.9	854.3	889.2	954.2	984.3	975.1
499.1	52.5°	529.3	582.7	640.7	701.1	766.1	800.9	861.3	905.4	898.4
413.2	55°	438.8	508.4	568.8	629.1	703.4	738.3	791.7	849.7	838.1
350.6	57.5°	383.1	441.1	503.8	561.8	640.7	687.2	735.9	796.3	794.0
287.9	60°	320.4	378.4	448.1	496.8	580.4	645.4	689.5	752.2	756.8
218.2	62.5°	255.4	327.3	380.7	448.1	524.7	601.3	643.1	705.8	729.0
167.2	65°	190.4	269.3	329.7	397.0	469.0	554.9	592.0	654.7	677.9
120.7	67.5°	141.6	202.0	278.6	336.6	417.9	492.2	536.3	594.3	610.6
72.0	70°	106.8	155.5	232.2	283.2	366.8	427.2	471.3	515.4	536.3
48.8	72.5°	62.7	116.1	183.4	243.8	315.7	366.8	399.3	434.1	448.1
23.2	75°	44.1	88.2	143.9	202.0	255.4	297.2	327.3	357.5	371.4
11.6	77.5°	23.2	65.0	113.8	162.5	199.7	234.5	264.7	287.9	297.2
9.3	80°	13.9	46.4	92.9	127.7	153.2	183.4	213.6	229.8	227.5
7.0	82.5°	9.3	37.1	67.3	92.9	111.4	134.7	155.5	167.2	167.2
4.6	85°	7.0	25.5	46.4	72.0	74.3	92.9	97.5	109.1	111.4
4.6	87.5°	4.6	16.3	25.5	41.8	39.5	48.8	51.1	58.0	62.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28046.7
28162.8
28949.8
29221.4
28798.9
28002.6
26714.2
24469.2
21727.4
18479.6
15533.5
12445.9
9722.7
6976.3
4547.9
3066.8
2177.6
1611.2
1295.4
1098.1
972.7
893.8
838.1
791.7
756.8
726.6
675.6
610.6
531.6
443.4
366.8
294.8
225.2
164.8
109.1
60.4
0.0

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