

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: P637639

Luminaire Tested: **IFLD-S-SA2D-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14690.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 123.9
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



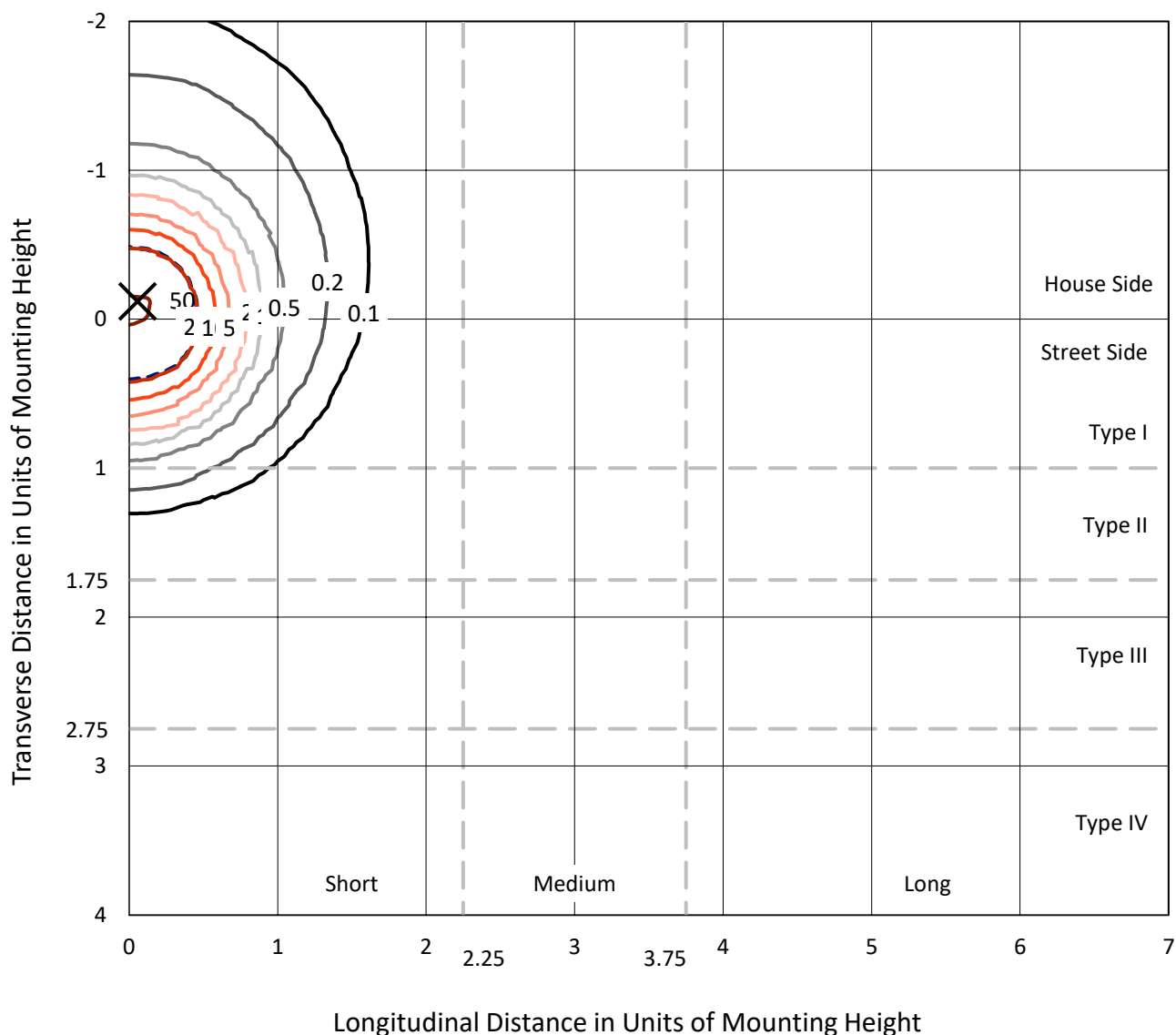
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



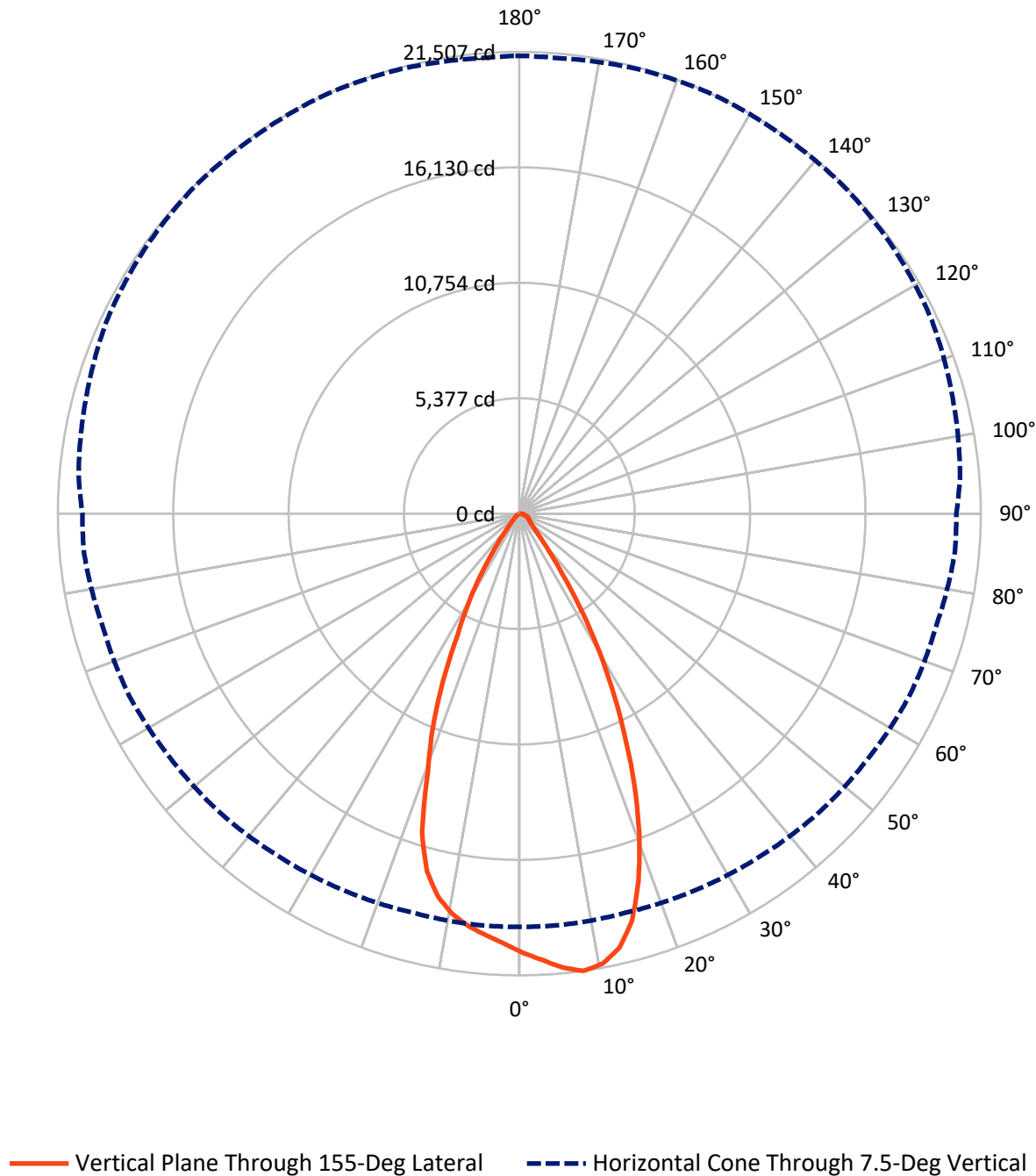
Based on 20 foot mounting height. Maximum calculated value = 52 fc

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	8109.9	0.0	8109.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6581.0	0.0	6581.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	14690.9	0.0	14690.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1951.5	13.3
10°-20°	5060.3	34.4
20°-30°	4636.6	31.6
30°-40°	1873.2	12.8
40°-50°	549.5	3.7
50°-60°	307.2	2.1
60°-70°	186.6	1.3
70°-80°	94.8	0.6
80°-90°	31.0	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°	14690.9	100.0
0°-180°	14690.9	100.0

Coefficient of Utilization



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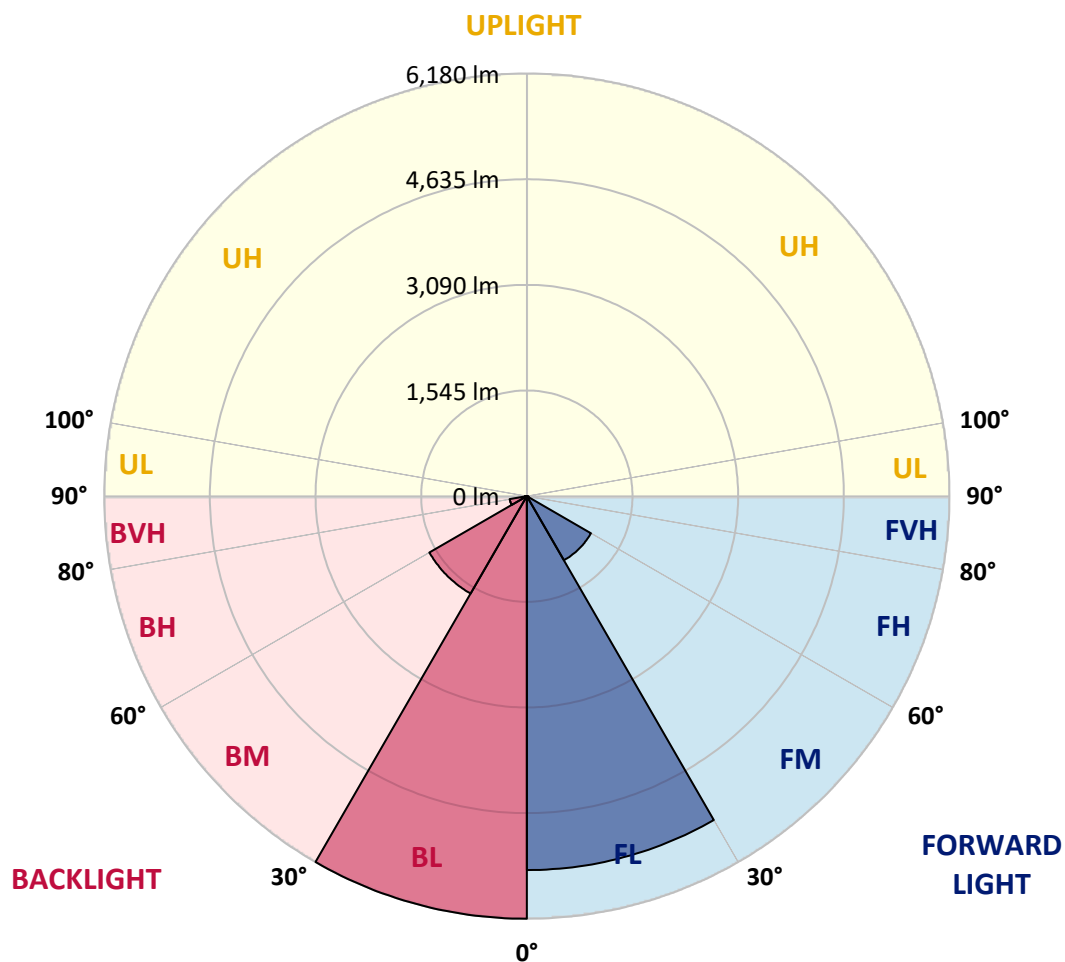
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5468.3	37.2			
FM	(30°-60°)	1083.7	7.4			
FH	(60°-80°)	26.3	0.2			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	6180.1	42.1	B5		
BM	(30°-60°)	1646.2	11.2	B2/2500		
BH	(60°-80°)	255.2	1.7	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5
2.5°	20021.7	20089.4	19953.9	20043.7	20113.1	20279.2	20292.7	20350.3	20370.6	20521.4
5°	19642.2	19694.7	19584.6	19704.9	19803.1	19950.5	20064.0	20223.3	20311.3	20489.2
7.5°	19247.5	19259.4	19237.3	19364.4	19511.8	19715.0	19855.6	20064.0	20118.2	20372.3
10°	18769.8	18683.4	18725.7	18912.1	19132.3	19444.0	19540.6	19748.9	19845.5	20104.7
12.5°	18007.5	18051.5	17999.0	18236.2	18419.1	18773.2	18874.8	19084.9	19269.5	19498.2
15°	16933.5	16908.0	17014.8	17199.4	17397.6	17678.8	17843.1	18071.8	18212.4	18449.6
17.5°	14519.5	14605.9	15046.3	15508.8	15915.4	16244.0	16440.5	16630.2	16731.9	16989.4
20°	12539.2	12430.7	12490.0	12750.9	13907.9	14411.1	14617.7	14663.5	14705.8	14909.1
22.5°	10325.1	10289.5	10487.7	10780.8	11055.2	12215.6	12496.8	12390.1	12478.2	12669.6
25°	7667.2	7846.7	8022.9	8585.3	8941.1	9510.2	10043.9	10091.3	10123.5	10243.8
27.5°	6240.8	6178.1	6174.7	6332.3	6857.4	7331.7	7785.7	7890.8	7872.1	7987.3
30°	4905.9	4885.6	4814.4	4851.7	4799.2	5221.0	5434.4	5866.4	5842.7	5846.1
32.5°	3538.8	3462.6	3433.8	3489.7	3435.5	3396.5	3582.9	4070.7	4062.3	4096.1
35°	2141.2	2131.1	2154.8	2203.9	2095.5	2092.1	2131.1	2590.2	2646.1	2700.3
37.5°	1182.4	1172.3	1190.9	1372.2	1336.6	1304.4	1314.6	1556.8	1717.7	1758.4
40°	779.3	777.6	791.1	823.3	884.3	872.4	877.5	985.9	1138.4	1174.0
42.5°	521.8	523.5	531.9	569.2	577.7	638.6	628.5	653.9	796.2	826.7
45°	416.7	415.0	420.1	403.2	413.3	476.0	482.8	484.5	606.5	625.1
47.5°	328.6	328.6	333.7	311.7	306.6	345.6	381.2	386.2	484.5	509.9
50°	230.4	230.4	255.8	245.6	257.5	269.3	308.3	313.4	396.4	423.5
52.5°	169.4	172.8	176.2	177.9	216.8	215.1	249.0	272.7	299.8	347.3
55°	128.7	132.1	123.7	132.1	160.9	179.6	186.3	220.2	238.9	291.4
57.5°	84.7	93.2	86.4	101.6	108.4	138.9	149.1	181.3	193.1	238.9
60°	11.9	13.6	22.0	71.1	76.2	91.5	115.2	144.0	155.9	194.8
62.5°	1.7	1.7	5.1	11.9	50.8	61.0	86.4	99.9	115.2	145.7
65°	0.0	0.0	1.7	3.4	10.2	35.6	44.0	54.2	79.6	105.0
67.5°	0.0	0.0	1.7	3.4	5.1	11.9	18.6	35.6	45.7	72.8
70°	0.0	0.0	1.7	3.4	5.1	6.8	10.2	13.6	27.1	42.4
72.5°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	10.2	11.9	27.1
75°	0.0	0.0	1.7	3.4	5.1	8.5	10.2	10.2	10.2	11.9
77.5°	0.0	0.0	1.7	3.4	6.8	10.2	11.9	10.2	8.5	8.5
80°	0.0	0.0	1.7	5.1	8.5	11.9	13.6	10.2	6.8	5.1
82.5°	0.0	0.0	1.7	5.1	8.5	11.9	13.6	11.9	6.8	5.1
85°	0.0	0.0	1.7	5.1	6.8	8.5	13.6	11.9	6.8	3.4
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	6.8	5.1	3.4	1.7
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°
20465.5	0°	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5	20465.5
20518.0	2.5°	20670.5	20746.7	20880.5	20917.8	21033.0	20900.9	20828.0	20834.8	20677.3
20467.2	5°	20670.5	20845.0	21078.7	21190.5	21275.2	21268.5	21249.8	21202.4	21087.2
20365.6	7.5°	20616.3	20900.9	21222.7	21371.8	21473.4	21465.0	21507.3	21431.1	21290.5
20184.3	10°	20441.8	20689.1	21085.5	21207.5	21371.8	21375.2	21322.7	21337.9	21087.2
19521.9	12.5°	19892.9	20086.0	20433.3	20572.2	20772.1	20804.3	20746.7	20724.7	20487.5
18436.1	15°	18830.8	18942.6	19291.5	19430.4	19628.7	19601.5	19659.1	19635.4	19427.1
16969.0	17.5°	17277.3	17312.9	17678.8	17795.7	17982.1	18054.9	17968.5	18078.6	17899.1
14944.7	20°	15049.7	15241.1	15652.8	15832.3	15940.8	16071.2	15957.7	16081.4	15871.3
12488.3	22.5°	12789.9	12903.4	13276.1	13535.2	13736.8	13762.2	13719.9	13806.3	13523.4
10323.4	25°	10321.7	10509.7	10804.5	11143.3	11341.5	11463.5	11353.3	11409.2	11363.5
8006.0	27.5°	8141.5	8309.2	8531.1	8783.5	9081.7	9240.9	9152.8	9247.7	9024.1
5969.7	30°	5974.8	6059.5	6310.2	6577.9	6904.8	7098.0	7106.4	7203.0	7070.9
4182.5	32.5°	4213.0	4287.6	4441.7	4619.6	4931.3	5146.4	5112.6	5126.1	5044.8
2725.7	35°	2739.2	2839.2	2949.3	3034.0	3222.0	3459.2	3440.6	3423.6	3367.7
1792.3	37.5°	1831.2	1870.2	1931.2	2007.4	2129.4	2278.5	2327.6	2266.6	2242.9
1209.5	40°	1238.3	1306.1	1346.7	1404.3	1461.9	1587.3	1621.2	1609.3	1585.6
847.0	42.5°	879.2	931.7	982.5	1038.4	1068.9	1146.9	1212.9	1194.3	1184.1
643.7	45°	667.4	714.9	774.2	816.5	847.0	892.8	955.4	962.2	947.0
516.7	47.5°	535.3	577.7	625.1	677.6	713.2	742.0	796.2	816.5	806.4
435.4	50°	454.0	486.2	531.9	584.4	623.4	648.8	696.2	718.3	711.5
364.2	52.5°	386.2	425.2	467.6	511.6	559.0	584.4	628.5	660.7	655.6
301.5	55°	320.2	371.0	415.0	459.1	513.3	538.7	577.7	620.0	611.5
255.8	57.5°	279.5	321.9	367.6	410.0	467.6	501.4	537.0	581.1	579.4
210.1	60°	233.8	276.1	326.9	362.5	423.5	470.9	503.1	548.9	552.3
159.2	62.5°	186.3	238.9	277.8	326.9	382.8	438.8	469.2	515.0	531.9
122.0	65°	138.9	196.5	240.6	289.7	342.2	404.9	432.0	477.7	494.7
88.1	67.5°	103.3	147.4	203.3	245.6	304.9	359.1	391.3	433.7	445.5
52.5	70°	77.9	113.5	169.4	206.7	267.7	311.7	343.9	376.1	391.3
35.6	72.5°	45.7	84.7	133.8	177.9	230.4	267.7	291.4	316.8	326.9
16.9	75°	32.2	64.4	105.0	147.4	186.3	216.8	238.9	260.9	271.0
8.5	77.5°	16.9	47.4	83.0	118.6	145.7	171.1	193.1	210.1	216.8
6.8	80°	10.2	33.9	67.8	93.2	111.8	133.8	155.9	167.7	166.0
5.1	82.5°	6.8	27.1	49.1	67.8	81.3	98.3	113.5	122.0	122.0
3.4	85°	5.1	18.6	33.9	52.5	54.2	67.8	71.1	79.6	81.3
3.4	87.5°	3.4	11.9	18.6	30.5	28.8	35.6	37.3	42.4	45.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20465.5
20550.2
21124.5
21322.7
21014.4
20433.3
19493.1
17855.0
15854.4
13484.4
11334.7
9081.7
7094.6
5090.5
3318.6
2237.8
1589.0
1175.7
945.3
801.3
709.8
652.2
611.5
577.7
552.3
530.2
493.0
445.5
387.9
323.6
267.7
215.1
164.3
120.3
79.6
44.0
0.0

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