

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: P637759

Luminaire Tested: **IFLD-S-SA3C-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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: 15810.2 lumens
Efficiency: N/A
Efficacy: 98.3 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): 160.8
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



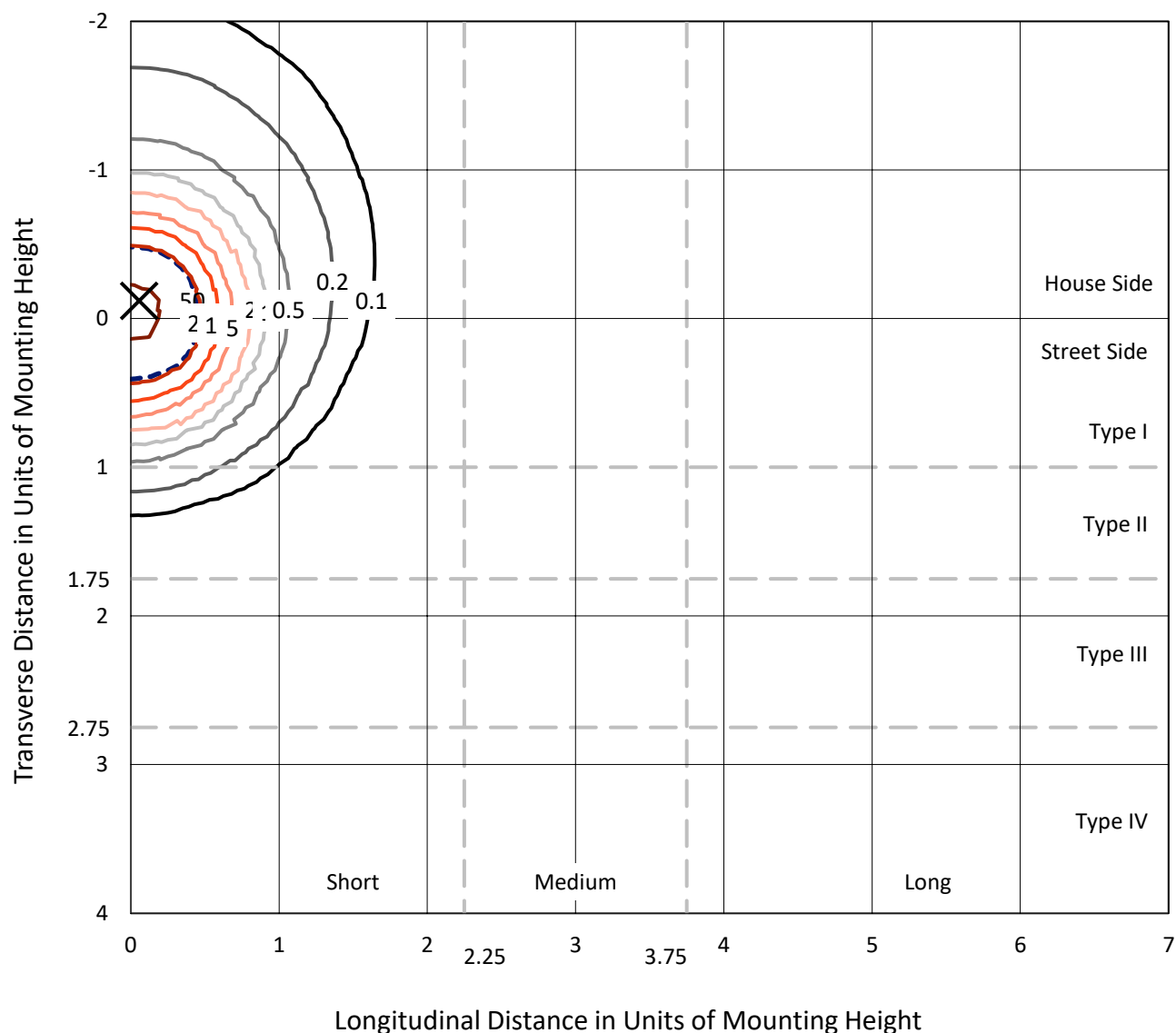
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



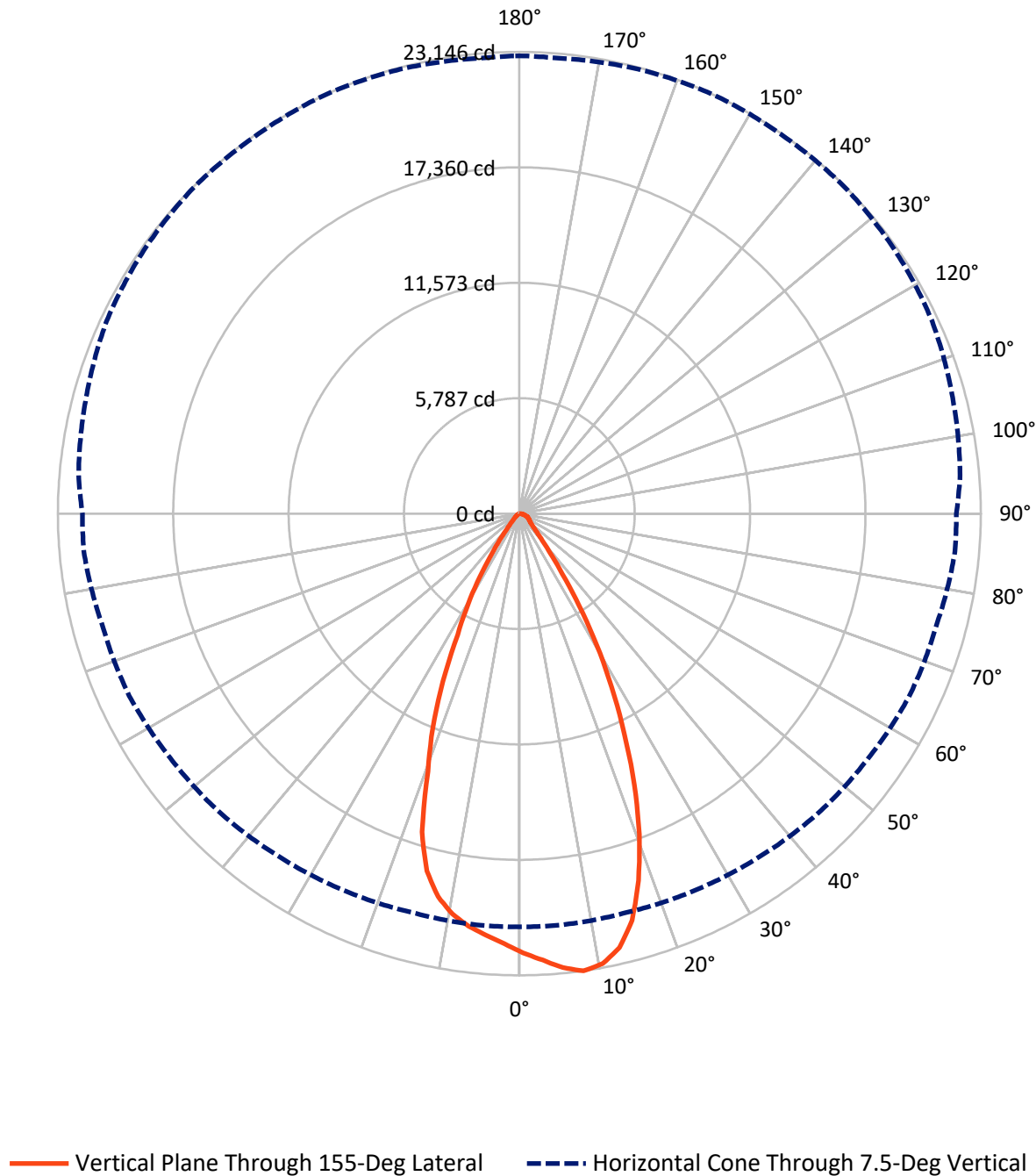
Based on 20 foot mounting height. Maximum calculated value = 56 fc

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	8727.8	0.0	8727.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7082.4	0.0	7082.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	15810.2	0.0	15810.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2100.2	13.3
10°-20°	5445.9	34.4
20°-30°	4989.9	31.6
30°-40°	2015.9	12.8
40°-50°	591.4	3.7
50°-60°	330.7	2.1
60°-70°	200.8	1.3
70°-80°	102.0	0.6
80°-90°	33.4	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°	15810.2	100.0
0°-180°	15810.2	100.0

Coefficient of Utilization



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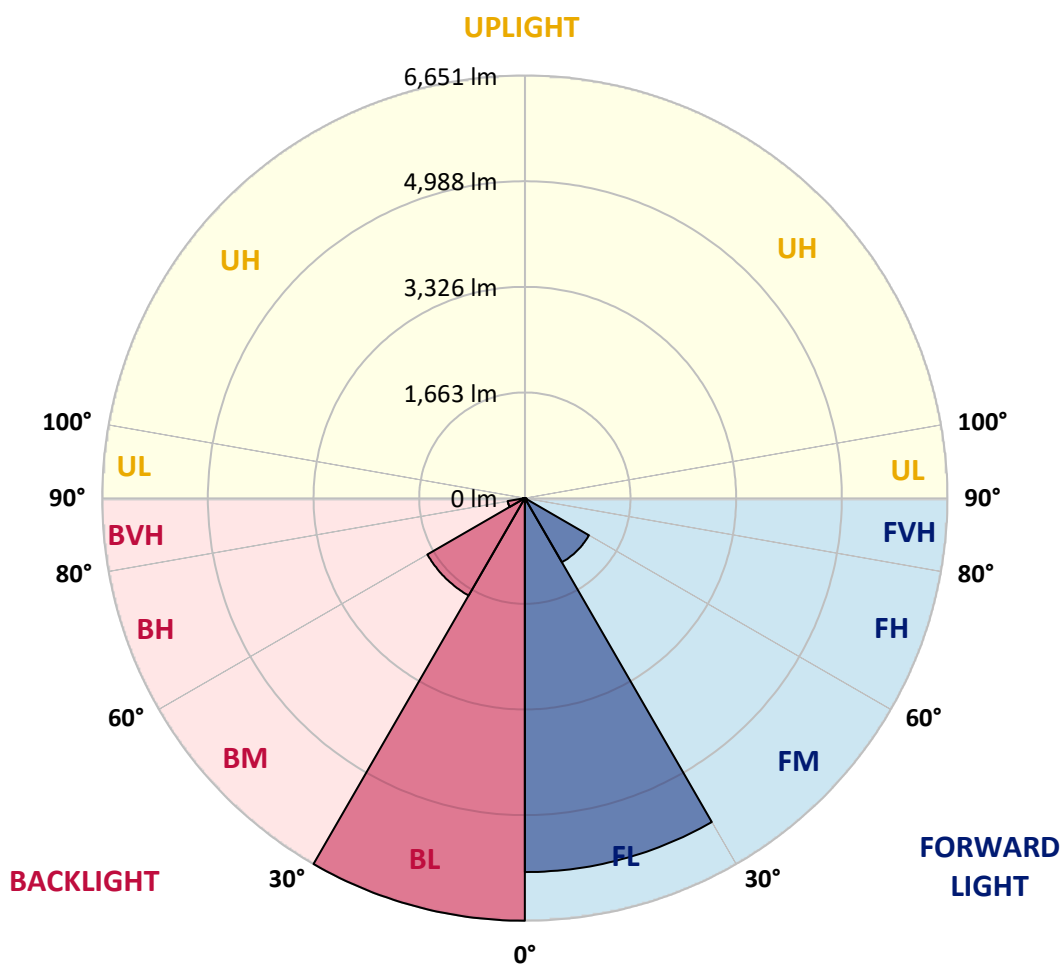
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5885.0	37.2			
FM	(30°-60°)	1166.3	7.4			
FH	(60°-80°)	28.2	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6651.1	42.1	B5		
BM	(30°-60°)	1771.7	11.2	B2/2500		
BH	(60°-80°)	274.6	1.7	B1/500		G1/500
BVH	(80°-90°)	30.5	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°	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9
2.5°	21547.2	21620.2	21474.3	21570.9	21645.7	21824.4	21838.9	21900.9	21922.8	22085.1
5°	21138.9	21195.4	21076.9	21206.3	21312.1	21470.7	21592.8	21764.2	21859.0	22050.4
7.5°	20714.1	20726.8	20703.1	20839.9	20998.5	21217.3	21368.6	21592.8	21651.2	21924.6
10°	20200.0	20107.0	20152.6	20353.1	20590.1	20925.6	21029.5	21253.7	21357.6	21636.6
12.5°	19379.6	19427.0	19370.5	19625.7	19822.6	20203.6	20313.0	20539.1	20737.8	20983.9
15°	18223.7	18196.4	18311.2	18510.0	18723.3	19025.9	19202.7	19448.9	19600.2	19855.4
17.5°	15625.8	15718.8	16192.8	16690.5	17128.0	17481.7	17693.2	17897.4	18006.8	18283.9
20°	13494.6	13377.9	13441.7	13722.5	14967.7	15509.1	15731.5	15780.8	15826.3	16045.1
22.5°	11111.8	11073.5	11286.8	11602.2	11897.6	13146.4	13449.0	13334.2	13429.0	13635.0
25°	8251.4	8444.6	8634.2	9239.5	9622.3	10234.9	10809.2	10860.2	10894.9	11024.3
27.5°	6716.3	6648.9	6645.2	6814.8	7379.9	7890.4	8379.0	8492.0	8472.0	8595.9
30°	5279.7	5257.8	5181.3	5221.4	5164.8	5618.8	5848.5	6313.4	6287.9	6291.5
32.5°	3808.5	3726.4	3695.4	3755.6	3697.3	3655.3	3855.9	4380.9	4371.8	4408.3
35°	2304.4	2293.5	2319.0	2371.9	2255.2	2251.5	2293.5	2787.5	2847.7	2906.0
37.5°	1272.5	1261.6	1281.6	1476.7	1438.4	1403.8	1414.7	1675.4	1848.6	1892.4
40°	838.6	836.8	851.4	886.0	951.7	938.9	944.4	1061.0	1225.1	1263.4
42.5°	561.5	563.3	572.5	612.6	621.7	687.3	676.4	703.7	856.9	889.7
45°	448.5	446.7	452.1	433.9	444.8	512.3	519.6	521.4	652.7	672.7
47.5°	353.7	353.7	359.2	335.5	330.0	371.9	410.2	415.7	521.4	548.8
50°	247.9	247.9	275.3	264.3	277.1	289.9	331.8	337.3	426.6	455.8
52.5°	182.3	186.0	189.6	191.4	233.4	231.5	268.0	293.5	322.7	373.7
55°	138.6	142.2	133.1	142.2	173.2	193.2	200.5	237.0	257.1	313.6
57.5°	91.2	100.3	93.0	109.4	116.7	149.5	160.4	195.1	207.8	257.1
60°	12.8	14.6	23.7	76.6	82.0	98.4	124.0	155.0	167.7	209.7
62.5°	1.8	1.8	5.5	12.8	54.7	65.6	93.0	107.6	124.0	156.8
65°	0.0	0.0	1.8	3.6	10.9	38.3	47.4	58.3	85.7	113.0
67.5°	0.0	0.0	1.8	3.6	5.5	12.8	20.1	38.3	49.2	78.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	29.2	45.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	12.8	29.2
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	9.1	9.1
80°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	10.9	7.3	5.5
82.5°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	12.8	7.3	5.5
85°	0.0	0.0	1.8	5.5	7.3	9.1	14.6	12.8	7.3	3.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	7.3	5.5	3.6	1.8
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°
22024.9	0°	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9	22024.9
22081.4	2.5°	22245.5	22327.5	22471.6	22511.7	22635.6	22493.4	22415.0	22422.3	22252.8
22026.7	5°	22245.5	22433.3	22684.9	22805.2	22896.3	22889.0	22869.0	22817.9	22694.0
21917.3	7.5°	22187.2	22493.4	22839.8	23000.3	23109.6	23100.5	23146.1	23064.1	22912.7
21722.3	10°	21999.4	22265.5	22692.2	22823.4	23000.3	23003.9	22947.4	22963.8	22694.0
21009.4	12.5°	21408.7	21616.5	21990.3	22139.8	22354.9	22389.5	22327.5	22303.8	22048.6
19840.8	15°	20265.6	20385.9	20761.5	20911.0	21124.3	21095.1	21157.1	21131.6	20907.3
18262.0	17.5°	18593.8	18632.1	19025.9	19151.7	19352.2	19430.6	19337.6	19456.1	19262.9
16083.4	20°	16196.4	16402.4	16845.5	17038.7	17155.4	17295.8	17173.6	17306.7	17080.6
13439.9	22.5°	13764.4	13886.6	14287.7	14566.6	14783.5	14810.9	14765.3	14858.3	14553.8
11110.0	25°	11108.2	11310.5	11627.7	11992.4	12205.7	12336.9	12218.4	12278.6	12229.4
8616.0	27.5°	8761.8	8942.3	9181.1	9452.8	9773.7	9945.0	9850.2	9952.3	9711.7
6424.6	30°	6430.1	6521.2	6791.1	7079.1	7431.0	7638.8	7647.9	7751.8	7609.6
4501.2	32.5°	4534.1	4614.3	4780.2	4971.6	5307.1	5538.6	5502.1	5516.7	5429.2
2933.4	35°	2948.0	3055.5	3174.0	3265.2	3467.5	3722.8	3702.7	3684.5	3624.3
1928.8	37.5°	1970.8	2012.7	2078.3	2160.4	2291.6	2452.1	2504.9	2439.3	2413.8
1301.7	40°	1332.7	1405.6	1449.4	1511.4	1573.3	1708.2	1744.7	1731.9	1706.4
911.6	42.5°	946.2	1002.7	1057.4	1117.6	1150.4	1234.2	1305.3	1285.3	1274.3
692.8	45°	718.3	769.3	833.2	878.7	911.6	960.8	1028.2	1035.5	1019.1
556.0	47.5°	576.1	621.7	672.7	729.2	767.5	798.5	856.9	878.7	867.8
468.5	50°	488.6	523.2	572.5	629.0	670.9	698.2	749.3	773.0	765.7
392.0	52.5°	415.7	457.6	503.2	550.6	601.6	629.0	676.4	711.0	705.5
324.5	55°	344.6	399.3	446.7	494.1	552.4	579.7	621.7	667.3	658.1
275.3	57.5°	300.8	346.4	395.6	441.2	503.2	539.6	577.9	625.3	623.5
226.1	60°	251.6	297.2	351.9	390.1	455.8	506.8	541.5	590.7	594.3
171.4	62.5°	200.5	257.1	299.0	351.9	412.0	472.2	505.0	554.2	572.5
131.3	65°	149.5	211.5	258.9	311.8	368.3	435.7	464.9	514.1	532.3
94.8	67.5°	111.2	158.6	218.8	264.3	328.2	386.5	421.1	466.7	479.5
56.5	70°	83.9	122.1	182.3	222.4	288.1	335.5	370.1	404.7	421.1
38.3	72.5°	49.2	91.2	144.0	191.4	247.9	288.1	313.6	340.9	351.9
18.2	75°	34.6	69.3	113.0	158.6	200.5	233.4	257.1	280.8	291.7
9.1	77.5°	18.2	51.0	89.3	127.6	156.8	184.1	207.8	226.1	233.4
7.3	80°	10.9	36.5	72.9	100.3	120.3	144.0	167.7	180.5	178.7
5.5	82.5°	7.3	29.2	52.9	72.9	87.5	105.7	122.1	131.3	131.3
3.6	85°	5.5	20.1	36.5	56.5	58.3	72.9	76.6	85.7	87.5
3.6	87.5°	3.6	12.8	20.1	32.8	31.0	38.3	40.1	45.6	49.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22024.9
22116.1
22734.1
22947.4
22615.6
21990.3
20978.4
19215.5
17062.4
14511.9
12198.4
9773.7
7635.2
5478.4
3571.5
2408.3
1710.1
1265.2
1017.3
862.3
763.9
701.9
658.1
621.7
594.3
570.6
530.5
479.5
417.5
348.2
288.1
231.5
176.8
129.4
85.7
47.4
0.0

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