

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: P637218

Luminaire Tested: **IFLD-M-SA4C-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637218
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20784.8 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

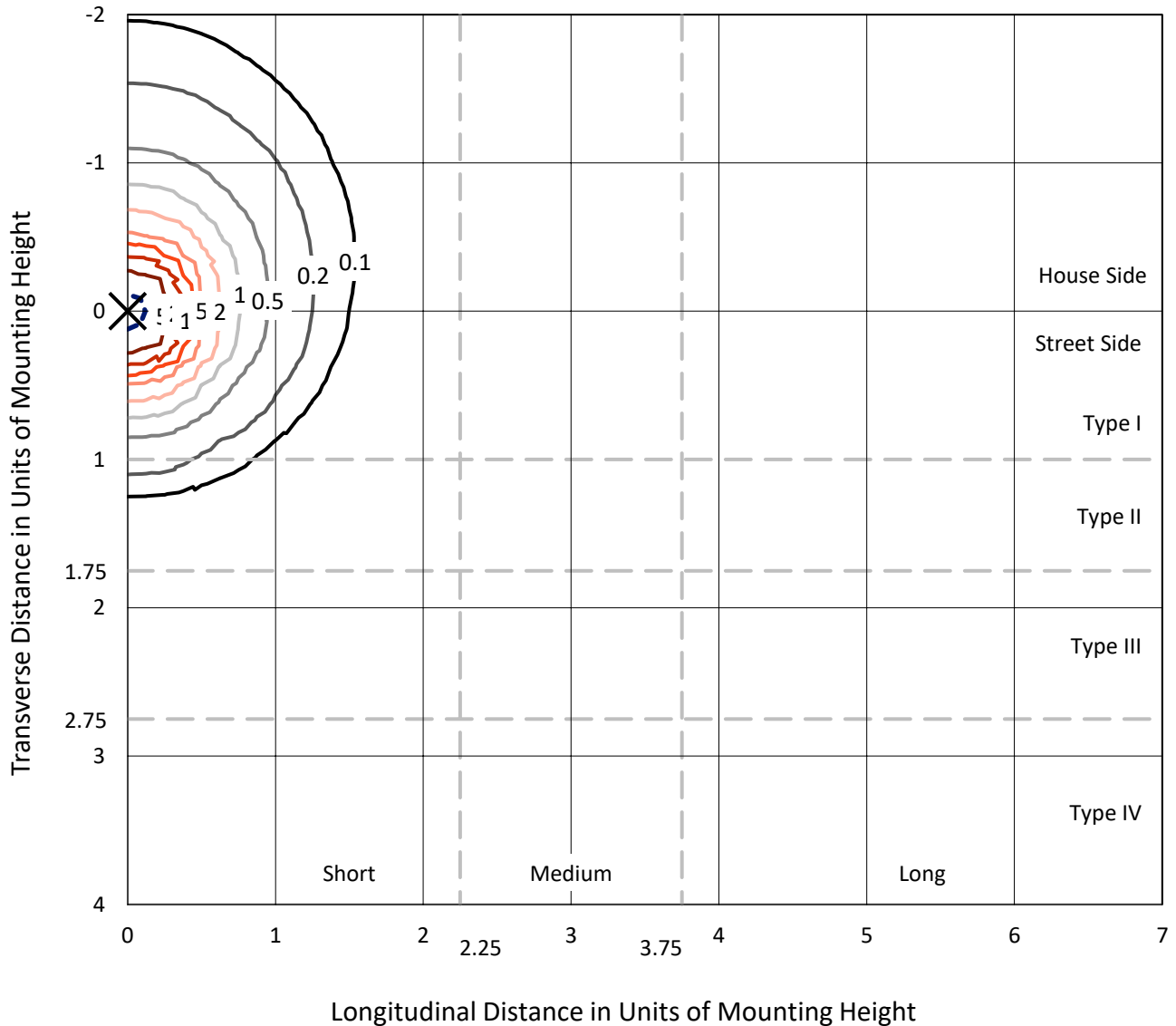
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

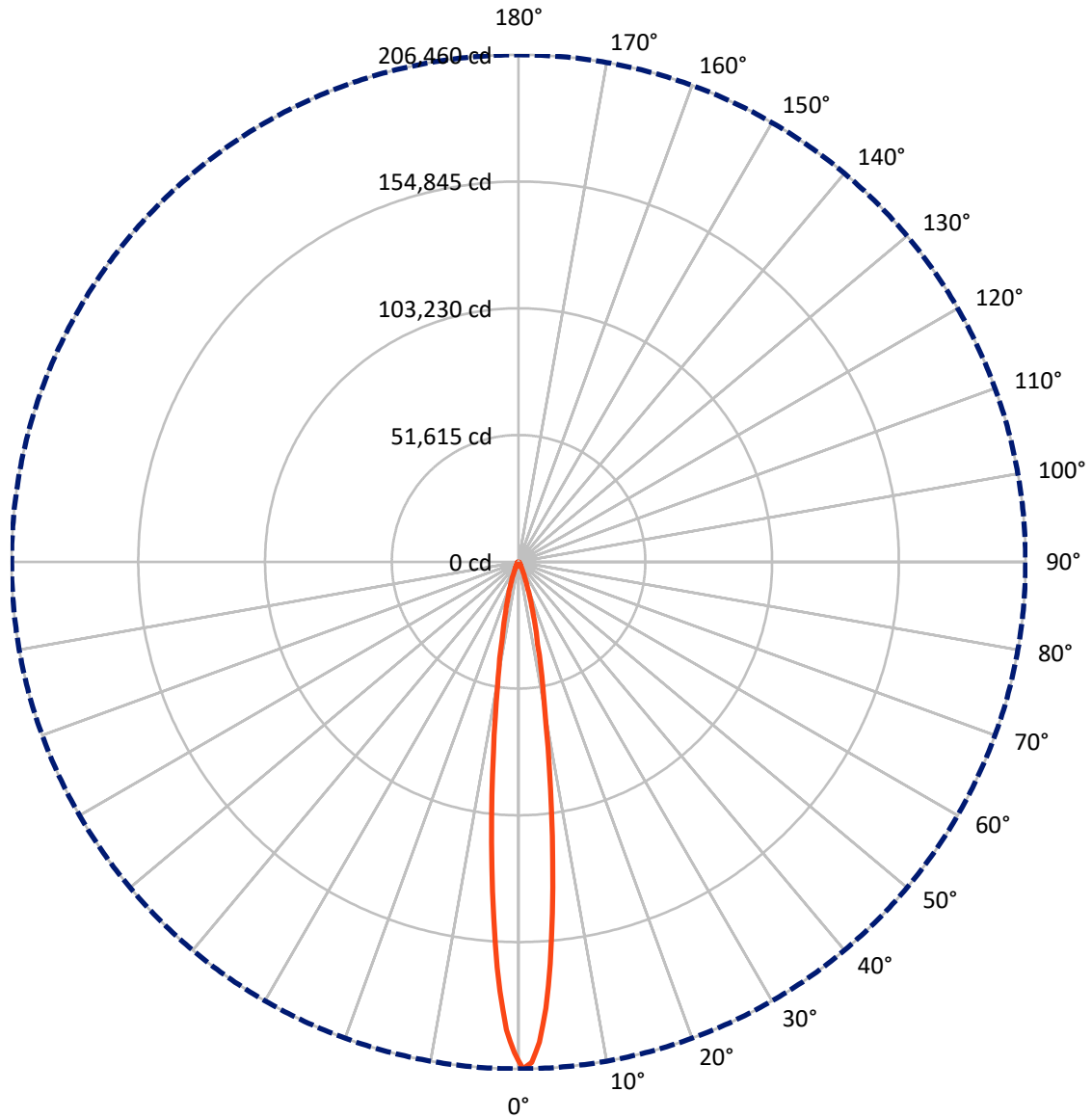
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 516.2 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-M-SA4C-827-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10645.6	0.0	10645.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10139.2	0.0	10139.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	20784.8	0.0	20784.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10492.8	50.5
10°-20°	6717.4	32.3
20°-30°	2019.1	9.7
30°-40°	657.4	3.2
40°-50°	382.5	1.8
50°-60°	254.1	1.2
60°-70°	152.9	0.7
70°-80°	78.6	0.4
80°-90°	29.9	0.1
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°	20784.8	100.0
0°-180°	20784.8	100.0

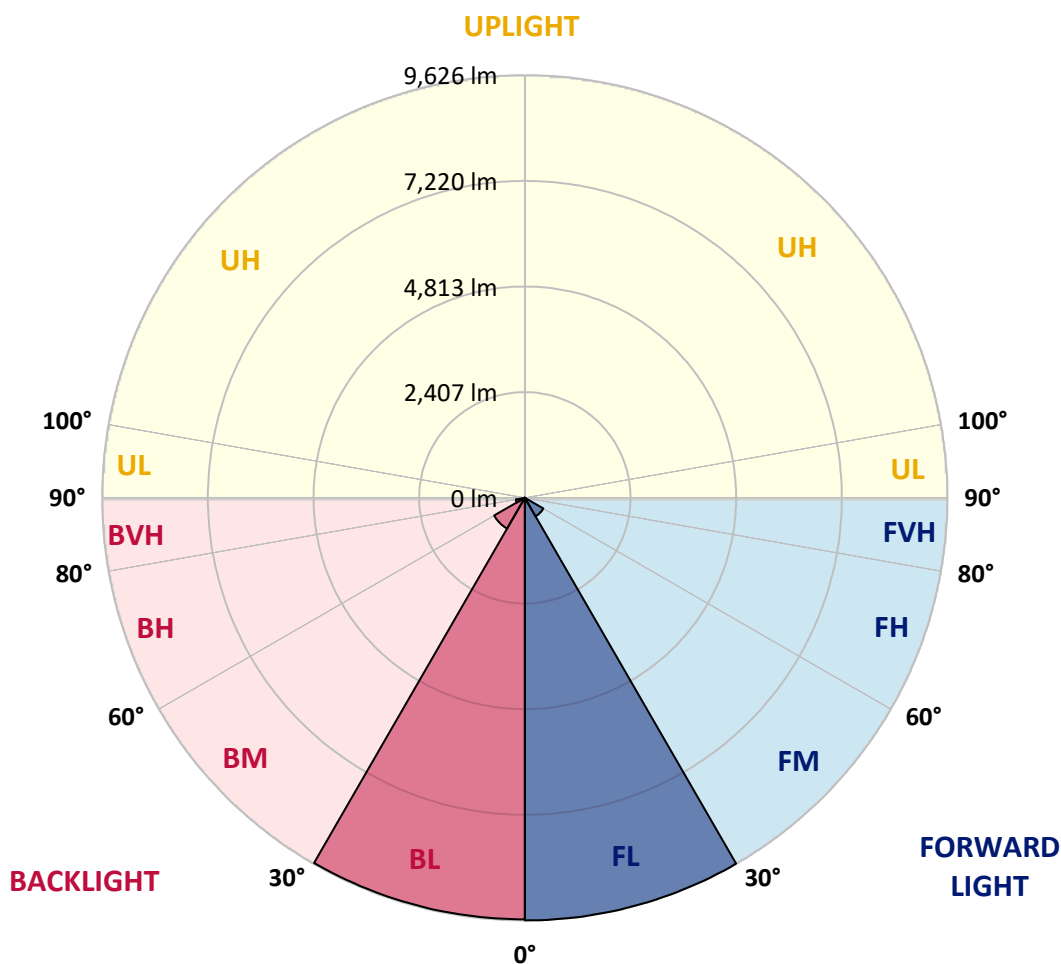


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9626.1	46.3			
FM (30°-60°)	485.7	2.3			
FH (60°-80°)	22.9	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9603.3	46.2	B5		
BM (30°-60°)	808.3	3.9	B1/1000		
BH (60°-80°)	208.7	1.0	B1/500		G0/660
BVH (80°-90°)	25.4	0.1			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4
1°	203988.4	203365.8	201758.5	202901.7	203906.9	203614.8	203594.5	203485.8	203334.1	204524.9
2°	195834.2	195431.2	193054.2	194034.5	195462.9	194421.6	195073.5	194500.8	194512.1	195933.8
3°	182088.4	182308.0	178516.1	180297.7	182283.1	179759.0	180542.2	182013.7	180472.1	180008.0
4°	164222.5	162316.4	160245.0	162056.1	162570.0	161100.8	162545.1	164347.0	162205.5	162300.6
5°	143825.7	142417.6	139966.0	141084.3	139809.8	140273.8	142438.0	143180.5	141686.4	139805.2
6°	122853.9	121853.3	118788.1	120400.0	119947.2	119684.6	122417.0	120153.2	120968.2	119829.5
7°	102190.0	100320.1	98814.7	100358.6	100458.2	99668.1	103215.5	102803.5	101320.7	100976.6
8°	84666.0	82800.6	81526.1	82676.1	83427.7	82187.1	83855.5	84951.2	83792.1	83896.3
9°	68287.4	67959.1	66186.6	67689.8	68507.0	67178.1	69025.4	69421.6	68337.2	68864.7
10°	56069.7	55687.1	54272.2	54881.2	56234.9	54650.3	56422.8	56551.9	55687.1	55933.9
12.5°	34649.7	34495.7	34457.2	34545.5	34527.4	34808.1	35260.9	34744.7	34676.8	33823.4
15°	22395.7	22624.4	22388.9	22841.7	22907.3	23172.2	22896.0	22479.5	21684.9	21291.0
17.5°	13976.7	14268.7	14671.7	15335.0	15998.2	16075.2	15708.5	15219.5	14834.7	14413.6
20°	8041.0	8183.6	8122.5	8917.1	10633.0	11099.4	10626.3	10112.4	9648.3	9222.7
22.5°	4996.2	4944.1	5039.2	5306.3	5865.5	7307.5	6920.4	6406.5	6069.2	5718.3
25°	3062.9	3119.5	3083.3	3230.4	3481.7	4092.9	4181.2	3959.4	3787.3	3606.2
27.5°	1971.8	1971.8	1987.6	2069.1	2241.2	2220.8	2691.7	2519.6	2426.8	2338.5
30°	1369.6	1374.1	1374.1	1421.7	1460.1	1392.2	1514.5	1736.3	1693.3	1625.4
32.5°	1016.4	1030.0	1041.3	1066.2	1034.6	962.1	991.5	1249.6	1224.7	1199.8
35°	774.2	785.5	812.7	826.3	781.0	735.7	708.6	919.1	930.4	923.6
37.5°	563.7	570.5	620.3	672.3	620.3	579.5	563.7	706.3	760.6	753.8
40°	432.4	434.6	443.7	502.6	502.6	470.9	475.4	527.5	622.5	622.5
42.5°	371.3	371.3	380.3	371.3	373.5	407.5	418.8	425.6	527.5	527.5
45°	321.5	321.5	326.0	303.3	280.7	350.9	359.9	362.2	443.7	455.0
47.5°	269.4	269.4	278.4	249.0	237.7	278.4	303.3	310.1	382.6	391.6
50°	199.2	201.5	228.6	203.7	210.5	215.1	262.6	267.1	323.7	344.1
52.5°	133.6	133.6	138.1	158.5	183.4	176.6	212.8	228.6	258.1	285.2
55°	108.7	108.7	106.4	101.9	135.8	147.1	156.2	190.2	210.5	244.5
57.5°	74.7	79.2	72.4	83.8	88.3	110.9	117.7	149.4	160.7	206.0
60°	9.1	11.3	15.8	61.1	58.9	74.7	88.3	117.7	131.3	158.5
62.5°	2.3	2.3	4.5	11.3	40.7	49.8	70.2	81.5	95.1	122.2
65°	0.0	0.0	2.3	4.5	9.1	27.2	36.2	47.5	67.9	86.0
67.5°	0.0	0.0	2.3	4.5	4.5	11.3	18.1	29.4	36.2	63.4
70°	0.0	0.0	2.3	4.5	4.5	9.1	11.3	13.6	24.9	34.0
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	11.3	22.6
75°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	11.3	9.1	9.1
77.5°	0.0	0.0	2.3	4.5	9.1	11.3	13.6	11.3	6.8	6.8
80°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	13.6	6.8	4.5
82.5°	0.0	0.0	4.5	9.1	13.6	18.1	24.9	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	36.2	24.9	11.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	13.6	9.1	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°	
206460.4	0°	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	206460.4	
203150.8	1°	204570.2	204712.8	204246.4	204968.6	204715.0	203230.0	202738.7	202157.0	201319.3
195098.4	2°	194500.8	195227.5	195263.7	196065.1	196053.8	194322.0	193785.4	194774.7	192843.7
180949.7	3°	180401.9	181248.5	180485.6	181909.6	181481.7	179380.9	178835.3	179958.2	178554.6
163052.1	4°	162565.4	162404.7	162142.1	161331.7	162330.0	160897.0	159817.2	161340.7	158338.9
142299.9	5°	142014.7	141657.0	141145.4	140905.4	141648.0	140731.1	138510.3	140735.6	135381.8
121889.5	6°	122039.0	120499.6	120424.9	120291.3	120366.0	117798.9	117952.8	119609.9	115154.8
99792.6	7°	100847.6	101130.5	100553.3	101479.2	100772.9	99034.3	98364.2	100109.6	96960.6
84353.6	8°	83765.0	83407.3	82965.8	84349.0	83124.3	81983.4	81202.3	82581.0	80242.5
68950.7	9°	68821.7	68203.6	67755.4	67685.2	67875.4	65733.8	66168.5	67212.1	65804.0
56069.7	10°	56090.1	55075.9	55322.6	55388.3	55180.0	53776.5	53790.0	54150.0	52456.7
34389.3	12.5°	34267.1	33769.0	33893.5	33961.5	34384.8	33891.3	33194.0	32691.5	32437.9
21682.6	15°	21537.8	21180.1	21911.3	22402.5	22302.9	21863.7	21535.5	21080.5	20713.7
14413.6	17.5°	14280.0	14748.6	14750.9	15199.1	15244.4	14805.2	14551.7	14141.9	14160.0
9374.4	20°	9340.4	9535.1	9940.3	10257.3	10440.6	10105.6	9802.2	9521.5	9403.8
5845.1	22.5°	5845.1	6184.7	6438.2	6850.2	7017.8	6773.3	6558.2	6329.6	6189.2
3649.2	25°	3588.1	3830.3	4040.9	4398.6	4627.2	4509.5	4312.5	4151.8	4077.1
2356.6	27.5°	2392.8	2494.7	2598.8	2845.6	3083.3	3017.6	2938.4	2841.1	2807.1
1661.6	30°	1686.5	1695.6	1806.5	1944.6	2103.1	2143.8	2107.6	2057.8	2019.3
1220.2	32.5°	1242.8	1279.0	1331.1	1417.1	1523.5	1620.9	1602.8	1580.1	1562.0
932.7	35°	959.8	1014.2	1057.2	1122.8	1179.4	1272.3	1288.1	1281.3	1267.7
767.4	37.5°	783.3	830.8	873.8	912.3	959.8	1023.2	1073.0	1075.3	1061.7
633.9	40°	649.7	692.7	749.3	778.7	812.7	860.2	921.4	925.9	921.4
536.5	42.5°	547.8	588.6	645.2	681.4	706.3	751.6	812.7	821.8	812.7
459.6	45°	470.9	495.8	554.6	597.6	622.5	652.0	717.6	726.7	724.4
396.2	47.5°	409.7	434.6	470.9	532.0	554.6	581.8	633.9	649.7	649.7
350.9	50°	359.9	384.8	416.5	470.9	504.8	527.5	570.5	593.1	593.1
305.6	52.5°	319.2	344.1	378.1	421.1	459.6	479.9	520.7	550.1	550.1
249.0	55°	267.1	310.1	335.0	373.5	425.6	443.7	475.4	513.9	513.9
217.3	57.5°	233.2	269.4	305.6	337.3	389.4	412.0	443.7	479.9	484.5
172.0	60°	197.0	230.9	273.9	301.1	350.9	380.3	414.3	448.2	457.3
131.3	62.5°	156.2	201.5	230.9	269.4	316.9	355.4	382.6	416.5	430.1
101.9	65°	115.5	165.3	199.2	240.0	285.2	326.0	348.6	384.8	393.9
72.4	67.5°	83.8	129.0	169.8	208.3	251.3	292.0	314.7	346.4	353.2
45.3	70°	65.7	95.1	140.4	174.3	219.6	253.5	278.4	298.8	305.6
29.4	72.5°	38.5	72.4	113.2	151.7	192.4	215.1	233.2	251.3	255.8
13.6	75°	24.9	56.6	92.8	126.8	156.2	176.6	192.4	208.3	210.5
6.8	77.5°	15.8	40.7	74.7	106.4	120.0	144.9	158.5	167.5	163.0
4.5	80°	9.1	31.7	65.7	86.0	97.3	113.2	126.8	138.1	126.8
4.5	82.5°	6.8	27.2	54.3	72.4	72.4	90.6	97.3	97.3	92.8
2.3	85°	4.5	22.6	43.0	67.9	54.3	67.9	63.4	63.4	63.4
2.3	87.5°	4.5	15.8	20.4	29.4	24.9	29.4	29.4	34.0	34.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
206460.4
199852.4
190584.4
174971.0
155826.1
134872.4
114806.1
95362.4
78644.3
63952.2
51700.6
32385.9
20847.3
14040.1
9424.2
6207.3
4059.0
2784.5
2023.8
1562.0
1258.7
1059.5
919.1
815.0
724.4
652.0
595.4
550.1
516.1
482.2
457.3
432.4
391.6
348.6
305.6
255.8
208.3
163.0
124.5
90.6
61.1
34.0
0.0

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