

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: McGRAW-EDISON

Report Number: P956882

Luminaire Tested: **GALN-SB9B-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24048 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

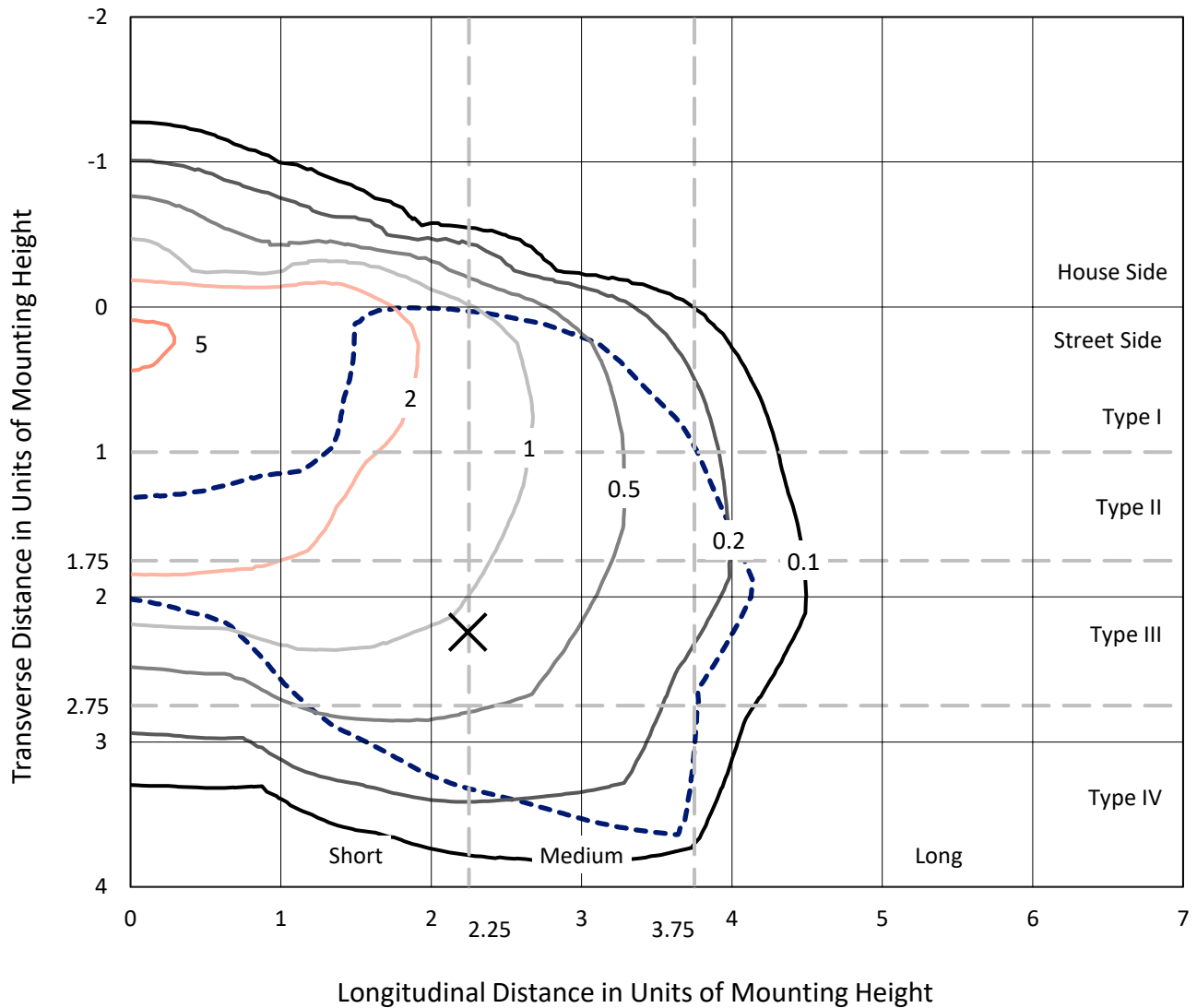
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

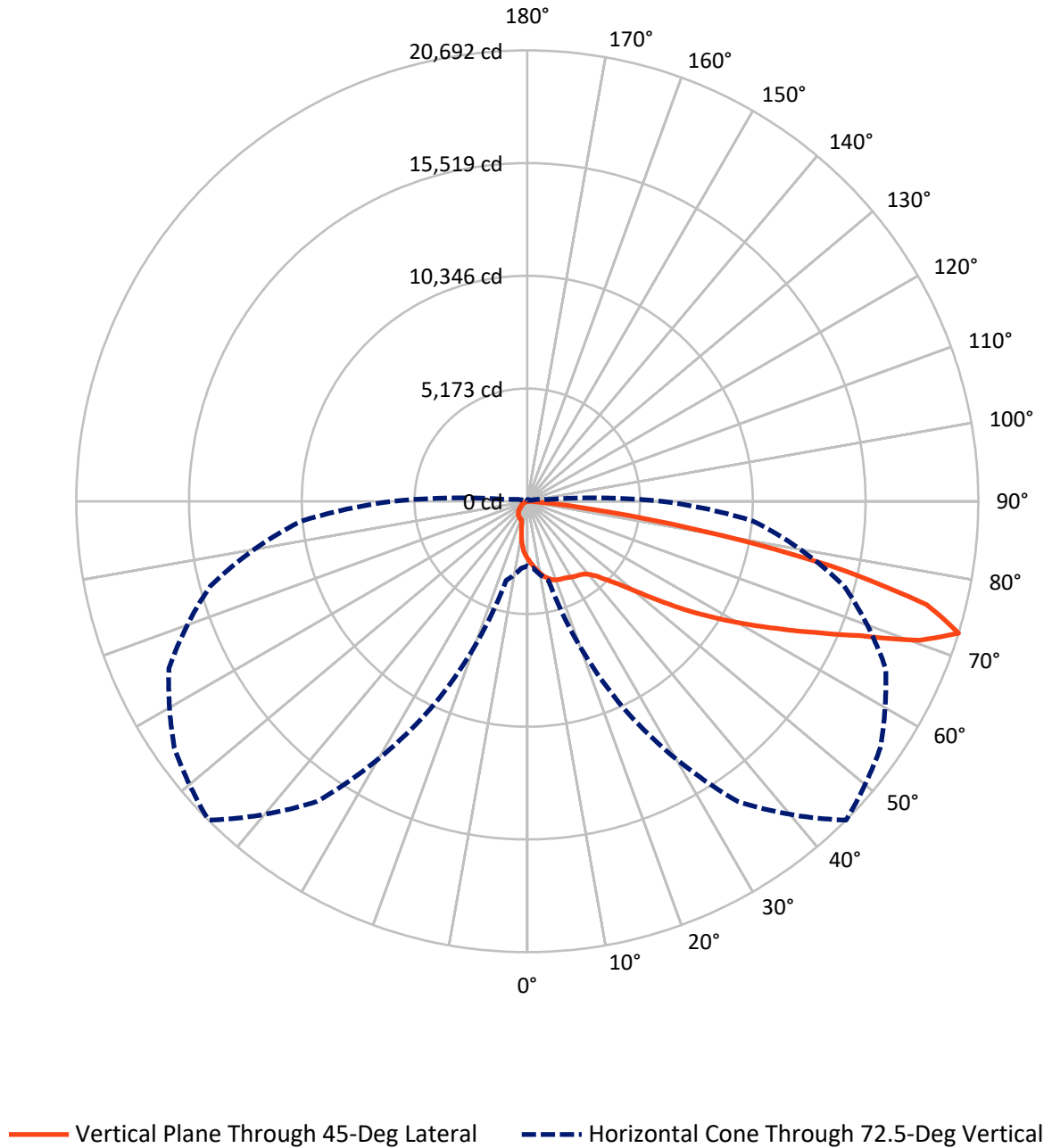
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.8	0.0	2526.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21521.2	0.0	21521.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	24048.0	0.0	24048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.0
10°-20°	725.5	3.0
20°-30°	1191.3	5.0
30°-40°	1689.6	7.0
40°-50°	2792.7	11.6
50°-60°	5016.7	20.9
60°-70°	6965.9	29.0
70°-80°	5052.9	21.0
80°-90°	365.3	1.5
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°	24048.0	100.0
0°-180°	24048.0	100.0

Coefficient of Utilization



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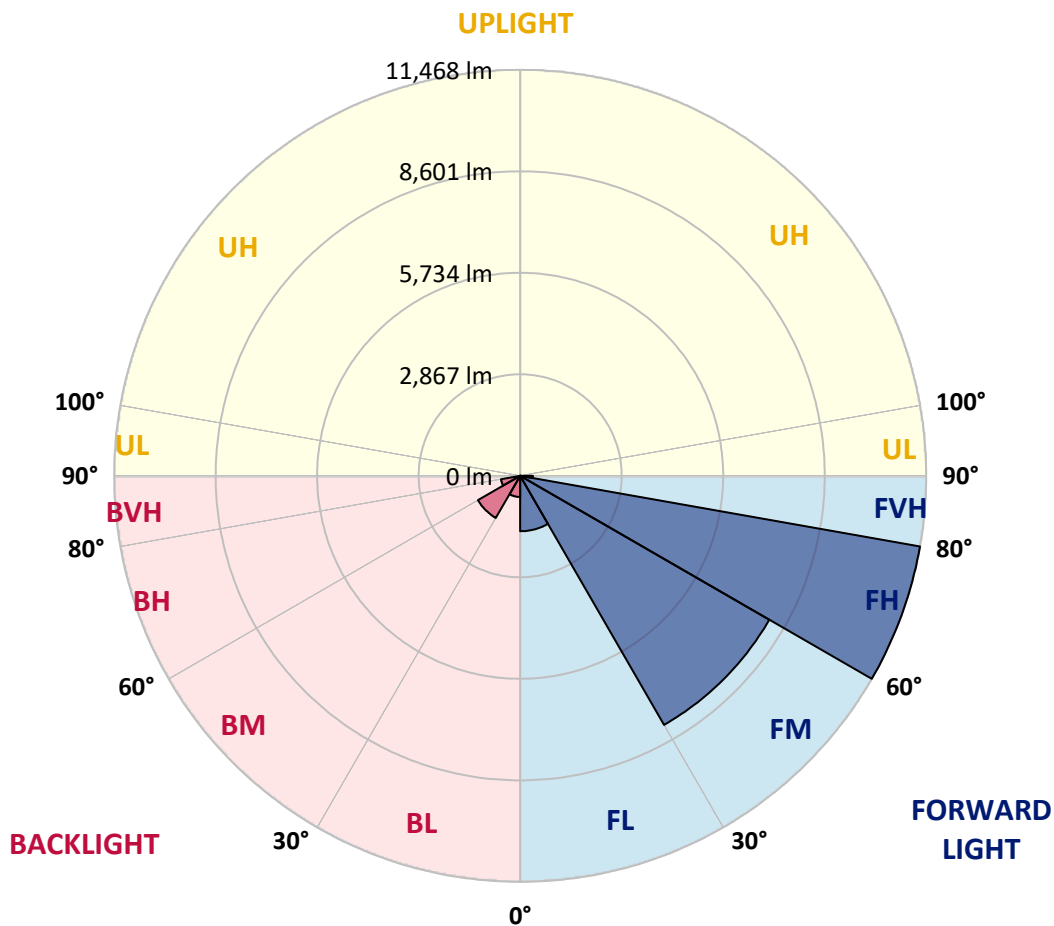
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.5	6.5			
FM (30°-60°)	8124.7	33.8			
FH (60°-80°)	11467.8	47.7			G4/12000
FVH (80°-90°)	362.2	1.5			G3/500
BL (0°-30°)	598.5	2.5	B2/1000		
BM (30°-60°)	1374.2	5.7	B2/2500		
BH (60°-80°)	551.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5
2.5°	2877.4	2882.4	2879.1	2859.4	2826.6	2808.5	2798.7	2765.8	2744.5	2706.7
5°	3141.7	3161.4	3149.9	3110.5	3048.2	3003.8	2990.7	2923.4	2862.7	2792.1
7.5°	3422.4	3432.2	3410.9	3360.0	3276.3	3200.8	3189.3	3095.8	2998.9	2890.6
10°	3665.3	3676.8	3644.0	3570.1	3474.9	3381.4	3364.9	3261.5	3146.6	3013.7
12.5°	3868.9	3880.4	3837.7	3749.0	3644.0	3547.1	3530.7	3422.4	3296.0	3148.3
15°	4023.2	4044.5	3987.1	3891.9	3778.6	3681.7	3673.5	3566.8	3443.7	3279.6
17.5°	4113.4	4134.8	4080.6	3965.7	3868.9	3786.8	3777.0	3688.3	3573.4	3415.8
20°	4128.2	4147.9	4090.5	3990.3	3909.9	3844.3	3839.3	3775.3	3691.6	3540.6
22.5°	4083.9	4108.5	4056.0	3975.6	3919.8	3885.3	3878.7	3842.6	3795.0	3667.0
25°	4037.9	4057.6	4018.2	3947.7	3918.1	3914.8	3919.8	3913.2	3903.3	3795.0
27.5°	4034.7	4056.0	4011.7	3944.4	3928.0	3962.4	3967.4	3998.5	4006.8	3911.5
30°	4062.6	4077.3	4034.7	3964.1	3955.9	4034.7	4036.3	4092.1	4105.2	4010.0
32.5°	4123.3	4139.7	4097.0	3993.6	3982.1	4092.1	4097.0	4170.9	4192.2	4115.1
35°	4266.1	4285.8	4236.6	4075.7	4034.7	4146.3	4161.0	4248.0	4290.7	4226.7
37.5°	4622.3	4564.8	4497.5	4241.5	4154.5	4231.6	4256.3	4358.0	4433.5	4359.7
40°	5507.0	5326.5	5116.4	4523.8	4364.6	4413.8	4433.5	4535.3	4638.7	4566.5
42.5°	6835.0	6621.6	6283.4	5173.8	4681.4	4706.0	4720.8	4809.4	4955.5	4898.1
45°	8018.4	7941.3	7596.6	6283.4	5273.9	5152.5	5170.5	5216.5	5431.5	5410.2
47.5°	8927.8	8883.5	8617.6	7557.2	6275.2	5699.1	5750.0	5771.3	6081.5	6157.0
50°	9627.0	9610.6	9372.6	8689.8	7583.4	6505.0	6523.1	6477.1	6941.6	7128.8
52.5°	10286.9	10342.7	10167.1	9741.9	8980.3	7560.5	7557.2	7340.5	7967.5	8249.9
55°	10882.7	10902.4	10920.5	10815.4	10385.4	8762.0	8730.8	8376.3	9157.6	9449.8
57.5°	11442.5	11450.7	11611.5	11826.6	11847.9	10052.2	9994.7	9569.6	10457.6	10666.1
60°	11818.4	11856.1	12195.9	12793.4	13054.4	11383.4	11352.2	10918.9	11780.6	11877.5
62.5°	11276.7	11506.5	12363.3	13548.4	14193.5	12859.0	12844.3	12437.2	13172.5	13093.8
65°	9128.0	9517.1	11023.9	14058.9	15311.3	14507.0	14528.4	14095.0	14602.2	14346.2
67.5°	6385.2	6795.6	8578.2	14100.0	16560.5	16442.3	16565.4	15885.8	16120.6	15546.1
70°	4415.5	4627.2	5787.7	13216.9	17533.9	19108.0	19104.7	18085.4	17630.7	16092.7
72.5°	2969.4	3079.3	3758.9	10485.5	16818.2	20692.0	20596.8	19766.2	18139.5	15050.4
75°	1252.4	1332.8	1739.9	5892.8	13305.5	18930.7	18673.0	17468.2	16117.3	11851.2
77.5°	397.2	431.7	686.1	2109.2	7329.0	14229.6	13957.2	10909.0	10802.3	5945.3
80°	188.8	220.0	385.7	847.0	2884.0	7739.4	7701.6	4948.9	4646.9	1605.3
82.5°	82.1	96.8	213.4	453.0	1290.2	2760.9	2816.7	1684.1	1393.6	609.0
85°	26.3	34.5	98.5	208.5	545.0	686.1	677.9	400.5	561.4	331.6
87.5°	0.0	0.0	32.8	47.6	55.8	39.4	44.3	34.5	155.9	91.9
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2634.5	0°	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5	2634.5
2667.3	2.5°	2647.6	2621.4	2575.4	2532.7	2495.0	2457.2	2434.3	2401.4	2398.1	2398.1
2710.0	5°	2665.7	2623.0	2540.9	2454.0	2353.8	2258.6	2163.4	2071.5	2042.0	2020.6
2779.0	7.5°	2718.2	2650.9	2521.3	2355.5	2165.1	1956.6	1810.5	1652.9	1592.2	1559.4
2870.9	10°	2793.7	2701.8	2504.8	2214.3	1905.7	1621.7	1413.3	1242.6	1176.9	1149.0
2971.0	12.5°	2877.4	2764.2	2475.3	2038.7	1621.7	1282.0	1078.4	999.6	989.8	989.8
3090.8	15°	2977.6	2839.7	2424.4	1831.8	1324.6	1014.4	942.2	945.5	955.3	961.9
3207.4	17.5°	3081.0	2920.1	2344.0	1600.4	1062.0	912.6	914.3	919.2	927.4	934.0
3333.8	20°	3192.6	3000.6	2237.3	1354.2	911.0	883.1	888.0	892.9	899.5	902.8
3451.9	22.5°	3312.4	3076.1	2110.9	1112.9	860.1	858.5	860.1	865.0	873.2	873.2
3589.8	25°	3440.5	3159.8	1966.4	937.3	833.9	833.9	837.1	840.4	847.0	847.0
3722.8	27.5°	3571.8	3236.9	1813.8	845.3	810.9	809.2	809.2	814.2	817.4	819.1
3854.1	30°	3716.2	3327.2	1661.1	825.6	792.8	784.6	779.7	783.0	786.2	787.9
3992.0	32.5°	3863.9	3414.2	1524.9	833.9	774.8	760.0	743.6	740.3	740.3	746.9
4134.8	35°	4028.1	3509.4	1419.8	861.8	764.9	723.9	697.6	682.8	684.5	694.3
4305.5	37.5°	4225.1	3624.3	1342.7	886.4	758.3	682.8	640.2	622.1	610.6	622.1
4540.2	40°	4482.8	3793.4	1286.9	906.1	750.1	635.2	577.8	548.2	526.9	533.5
4904.6	42.5°	4861.9	4059.3	1265.5	907.7	732.1	579.4	513.8	474.4	443.2	444.8
5452.9	45°	5393.8	4479.5	1375.5	886.4	692.7	518.7	446.5	393.9	374.2	369.3
6271.9	47.5°	6122.6	5091.7	1629.9	842.1	635.2	459.6	380.8	336.5	321.7	313.5
7347.1	50°	7099.2	5878.0	1912.3	792.8	577.8	403.8	326.6	298.7	288.9	280.7
8622.5	52.5°	8231.8	6675.7	2143.7	743.6	520.3	354.6	292.2	275.8	267.6	261.0
9853.6	55°	9270.8	7225.6	2130.6	691.0	464.5	315.2	267.6	257.7	247.9	241.3
10913.9	57.5°	9917.6	7302.8	1756.3	633.6	400.5	284.0	244.6	238.0	226.5	218.3
11831.5	60°	10214.7	6862.9	1231.1	558.1	336.5	254.4	220.0	216.7	201.9	190.4
12699.8	62.5°	10268.8	6045.4	820.7	464.5	280.7	226.5	195.3	190.4	170.7	151.0
13405.6	65°	10048.9	4876.7	567.9	362.8	239.7	197.0	167.4	157.6	136.2	116.5
13573.1	67.5°	9352.9	3424.0	395.6	261.0	203.5	155.9	133.0	129.7	113.3	96.8
12719.5	70°	8077.5	1951.7	264.3	195.3	160.9	106.7	105.1	108.3	91.9	78.8
10392.0	72.5°	6193.1	892.9	164.1	142.8	110.0	72.2	83.7	85.4	70.6	59.1
6483.7	75°	3645.6	382.5	103.4	91.9	55.8	47.6	60.7	62.4	47.6	37.8
2370.2	77.5°	1240.9	144.4	65.7	54.2	27.9	26.3	39.4	39.4	26.3	14.8
476.0	80°	282.3	54.2	32.8	21.3	13.1	11.5	13.1	11.5	6.6	1.6
146.1	82.5°	80.4	21.3	13.1	8.2	4.9	4.9	1.6	0.0	0.0	0.0
50.9	85°	23.0	9.8	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	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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<u>180°</u>
2634.5
2406.3
2030.5
1564.3
1149.0
989.8
961.9
934.0
904.4
876.5
848.6
820.7
791.2
751.8
699.3
618.8
530.2
438.3
362.8
308.6
279.0
259.3
238.0
216.7
187.1
141.2
110.0
91.9
72.2
52.5
32.8
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