

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: P950352

Luminaire Tested: **GALN-SB4D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35394 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

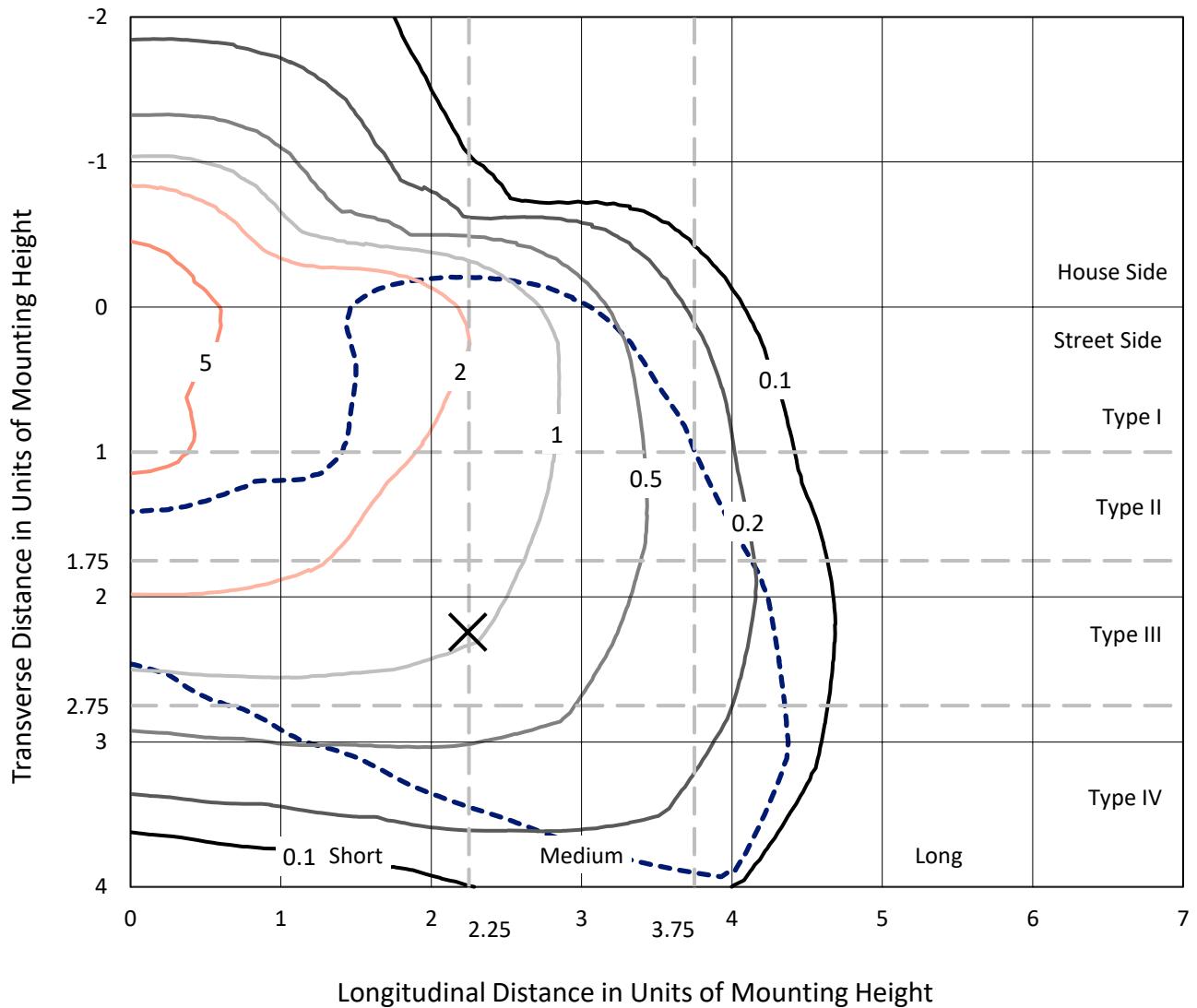
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

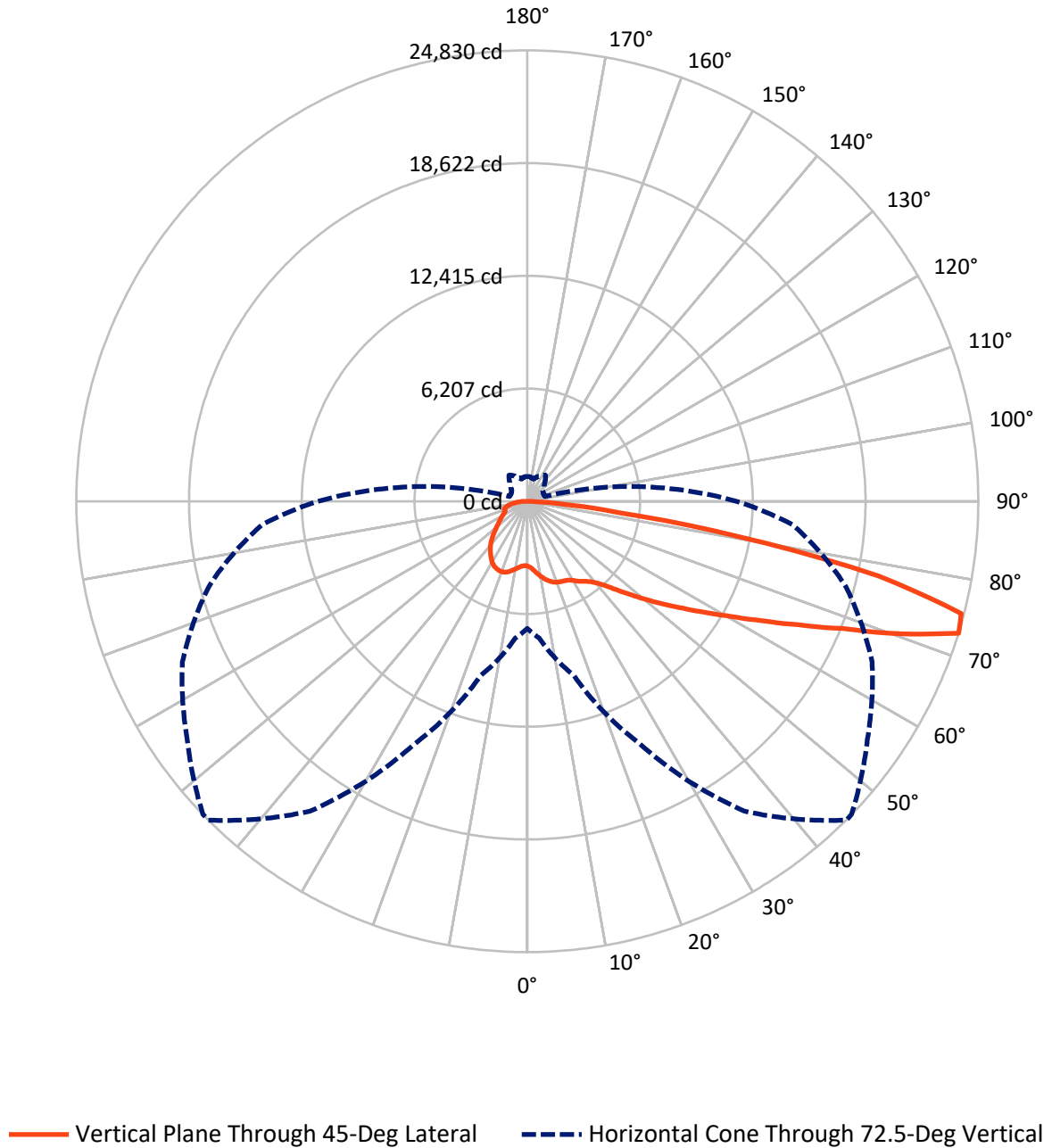
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	8001.4	0.0	8001.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27392.6	0.0	27392.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	35394.0	0.0	35394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	1.0
10°-20°	1211.7	3.4
20°-30°	2107.8	6.0
30°-40°	3021.6	8.5
40°-50°	4254.6	12.0
50°-60°	6516.8	18.4
60°-70°	9440.5	26.7
70°-80°	7538.8	21.3
80°-90°	938.9	2.7
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°	35394.0	100.0
0°-180°	35394.0	100.0

Coefficient of Utilization



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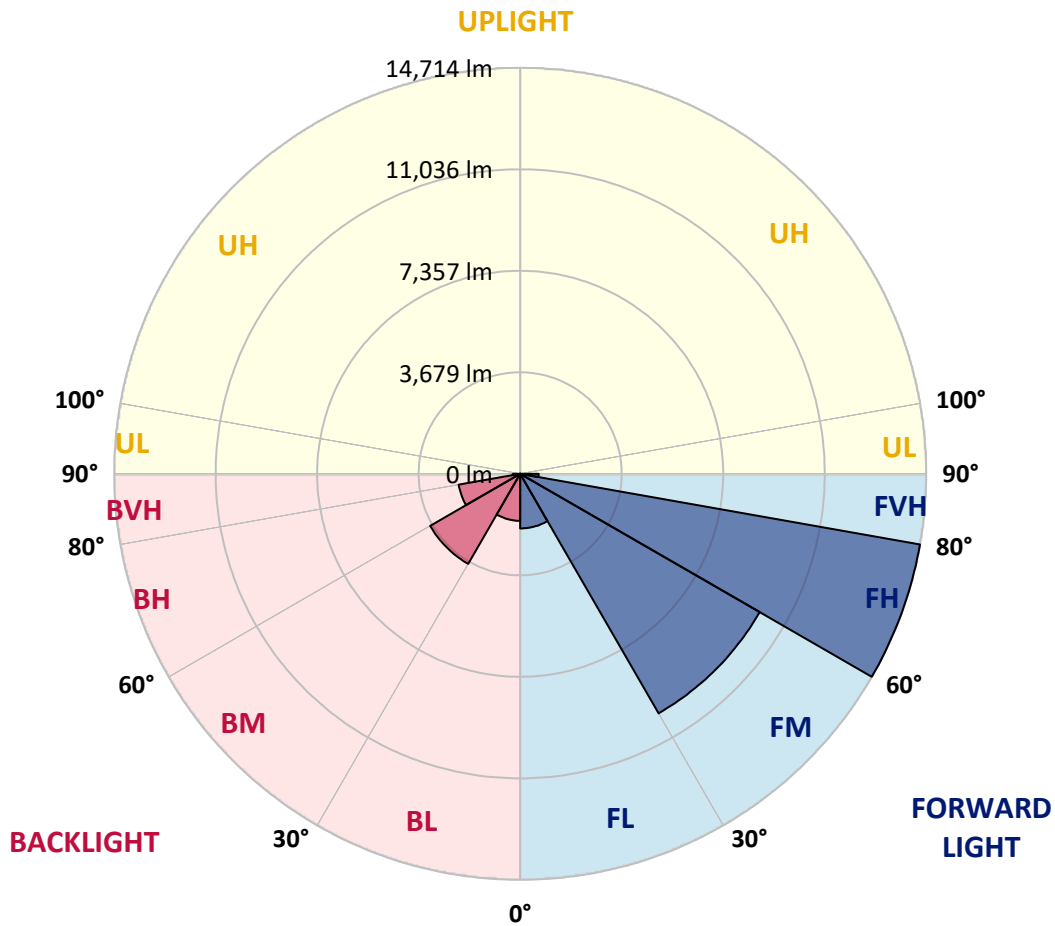
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.3	5.6			
FM (30°-60°)	10025.4	28.3			
FH (60°-80°)	14714.3	41.6			G5
FVH (80°-90°)	673.6	1.9			G4/750
BL (0°-30°)	1703.6	4.8	B3/2500		
BM (30°-60°)	3767.5	10.6	B3/5000		
BH (60°-80°)	2265.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	265.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6
2.5°	3710.4	3734.6	3712.3	3691.8	3682.4	3658.2	3656.3	3641.4	3632.1	3606.0
5°	3969.6	4001.3	3964.0	3923.0	3885.7	3826.0	3818.5	3775.7	3727.2	3671.3
7.5°	4262.3	4290.3	4247.4	4185.9	4120.6	4021.8	4019.9	3941.6	3865.2	3770.1
10°	4517.7	4555.0	4497.2	4413.3	4331.3	4219.4	4206.4	4116.9	4019.9	3896.9
12.5°	4743.4	4769.5	4713.5	4611.0	4515.9	4404.0	4387.2	4288.4	4180.3	4040.4
15°	4922.3	4955.9	4881.3	4771.3	4670.6	4560.6	4545.7	4456.2	4348.1	4200.8
17.5°	5039.8	5067.8	4991.3	4868.3	4771.3	4680.0	4668.8	4594.2	4499.1	4349.9
20°	5084.6	5114.4	5034.2	4909.3	4819.8	4748.9	4743.4	4689.3	4624.0	4487.9
22.5°	5129.3	5157.3	5052.9	4922.3	4844.0	4799.3	4797.4	4762.0	4735.9	4624.0
25°	5310.2	5317.6	5177.8	4989.5	4877.6	4838.4	4836.6	4834.7	4845.9	4758.3
27.5°	5466.8	5464.9	5345.6	5168.5	4995.1	4913.0	4911.2	4929.8	4965.2	4892.5
30°	5696.1	5675.6	5533.9	5349.3	5190.8	5064.1	5052.9	5036.1	5064.1	5006.3
32.5°	6182.8	6117.5	5888.2	5560.0	5353.1	5256.1	5241.2	5136.8	5148.0	5112.5
35°	6880.1	6794.3	6488.5	5959.0	5554.4	5416.4	5409.0	5276.6	5254.2	5222.5
37.5°	7709.8	7603.5	7247.4	6537.0	5901.2	5602.9	5591.7	5472.4	5381.0	5347.5
40°	8543.3	8409.0	8114.4	7241.8	6412.1	5914.3	5878.8	5698.0	5593.6	5537.6
42.5°	9352.5	9240.6	8988.9	8032.4	7042.3	6369.2	6290.9	5981.4	5903.1	5850.9
45°	10068.4	9967.8	9783.2	8877.0	7780.7	6988.2	6911.8	6406.5	6382.3	6382.3
47.5°	10650.2	10627.8	10432.0	9738.4	8651.4	7693.0	7560.6	6997.6	7062.8	7163.5
50°	11295.3	11233.8	11024.9	10586.8	9675.0	8500.4	8392.2	7722.9	7967.1	8243.1
52.5°	11888.2	11921.8	11688.7	11470.6	10831.0	9400.9	9210.8	8578.7	9106.3	9563.1
55°	12497.9	12499.8	12434.5	12404.7	12043.0	10396.6	10187.8	9607.9	10446.9	11013.8
57.5°	13070.3	13074.1	13171.0	13433.9	13448.8	11545.1	11308.3	10872.0	11936.7	12514.7
60°	13581.2	13607.3	13872.1	14487.4	14685.0	12861.5	12637.8	12365.5	13476.8	14058.5
62.5°	13752.7	13847.8	14437.0	15311.5	15906.3	14476.2	14256.2	14093.9	15095.2	15635.9
65°	13461.9	13680.0	14819.2	15992.0	17163.0	16394.8	16176.6	15999.5	16777.0	17286.0
67.5°	12747.8	13029.3	14796.9	16706.1	18688.1	18703.1	18499.8	18084.0	18580.0	18775.8
70°	10866.5	11287.8	13493.6	16972.8	20438.9	21859.7	21663.9	20593.7	20379.3	19432.1
72.5°	7001.3	7568.1	9936.1	14778.2	20828.6	24829.9	24818.7	22859.1	20947.9	18156.7
75°	2554.4	2901.2	4616.6	9276.0	17483.7	24678.9	24751.6	22471.3	19122.6	14025.0
77.5°	930.4	1018.0	1506.5	3565.0	10752.7	19801.3	19952.3	17964.7	13611.0	7038.6
80°	488.5	537.0	771.9	1383.5	4607.2	11759.6	11996.4	10676.3	6397.2	2120.0
82.5°	270.4	292.7	432.6	751.4	2075.2	5028.6	5170.3	4217.6	2250.5	898.7
85°	145.4	154.8	203.2	410.2	1014.3	1743.3	1782.5	1260.4	896.8	527.7
87.5°	42.9	52.2	67.1	130.5	397.1	391.6	400.9	249.8	354.3	266.6
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°
3570.6	0°	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6	3570.6
3598.5	2.5°	3587.3	3581.8	3561.2	3551.9	3540.7	3538.9	3548.2	3550.1	3551.9	3553.8
3639.6	5°	3620.9	3602.3	3583.6	3572.4	3576.2	3578.0	3596.7	3609.7	3619.0	3626.5
3716.0	7.5°	3686.2	3671.3	3639.6	3637.7	3643.3	3660.1	3684.3	3714.1	3730.9	3744.0
3814.8	10°	3783.1	3755.2	3717.9	3723.5	3734.6	3758.9	3809.2	3833.5	3861.4	3885.7
3936.0	12.5°	3881.9	3857.7	3814.8	3818.5	3837.2	3880.1	3928.6	3958.4	3977.0	3995.7
4066.5	15°	4010.6	3967.7	3921.1	3921.1	3954.7	4001.3	4023.6	4047.9	4059.1	4079.6
4206.4	17.5°	4143.0	4087.0	4025.5	4021.8	4062.8	4085.2	4098.2	4102.0	4105.7	4128.1
4342.5	20°	4275.4	4213.8	4126.2	4118.7	4128.1	4124.3	4122.5	4118.7	4124.3	4152.3
4482.3	22.5°	4405.9	4335.0	4213.8	4180.3	4154.2	4118.7	4116.9	4115.0	4118.7	4146.7
4633.3	25°	4558.8	4473.0	4310.8	4210.1	4122.5	4074.0	4079.6	4081.4	4085.2	4107.5
4790.0	27.5°	4724.7	4629.6	4400.3	4200.8	4042.3	4008.7	3999.4	4005.0	4018.1	4053.5
4946.6	30°	4890.6	4778.8	4482.3	4163.5	3941.6	3895.0	3865.2	3878.2	3919.2	3954.7
5082.7	32.5°	5041.7	4929.8	4547.6	4081.4	3813.0	3740.2	3701.1	3717.9	3758.9	3771.9
5233.7	35°	5218.8	5092.0	4575.5	3950.9	3673.1	3561.2	3509.0	3484.8	3505.3	3492.3
5410.9	37.5°	5416.4	5284.1	4571.8	3779.4	3509.0	3380.4	3307.7	3216.3	3173.4	3128.7
5671.9	40°	5709.2	5519.0	4527.1	3572.4	3305.8	3188.3	3057.8	2903.1	2806.1	2718.5
6093.3	42.5°	6108.2	5845.3	4445.0	3345.0	3076.5	2966.5	2789.3	2608.5	2455.6	2310.1
6732.8	45°	6703.0	6272.3	4342.5	3102.6	2828.5	2720.3	2528.3	2325.1	2151.7	1965.2
7640.8	47.5°	7560.6	6846.5	4245.5	2826.6	2567.5	2468.6	2295.2	2106.9	1901.8	1721.0
8953.4	50°	8739.0	7670.7	4156.0	2558.1	2310.1	2235.6	2097.6	1905.5	1698.6	1553.1
10491.7	52.5°	10238.1	8791.2	4118.7	2299.0	2069.6	2041.7	1931.6	1752.7	1556.9	1433.8
12285.4	55°	11959.1	10131.8	4118.7	2051.0	1858.9	1868.3	1791.8	1625.9	1456.2	1346.2
14135.0	57.5°	13715.4	11489.2	4044.2	1821.6	1679.9	1719.1	1670.6	1525.2	1372.3	1258.6
16079.7	60°	15333.9	12626.6	3742.1	1612.8	1521.5	1583.0	1551.3	1426.4	1239.9	1144.8
17705.5	62.5°	16577.5	13268.0	3160.4	1446.9	1390.9	1461.8	1445.0	1295.8	1215.7	1176.5
19040.5	65°	17200.2	13163.5	2416.4	1299.6	1280.9	1390.9	1355.5	1349.9	1286.5	1241.8
19475.0	67.5°	16818.0	12264.8	1752.7	1191.4	1217.5	1325.7	1461.8	1484.2	1366.7	1279.1
18251.8	70°	15141.8	10639.0	1305.2	1088.9	1137.4	1327.5	1666.9	1553.1	1340.6	1238.0
14638.4	72.5°	11519.0	7933.6	1012.4	980.7	1032.9	1336.9	1758.2	1521.5	1266.0	1368.6
9119.4	75°	6587.4	4355.5	812.9	848.4	902.4	1249.2	1711.6	1439.4	1208.2	1256.7
3613.4	77.5°	2511.5	1674.3	671.2	717.8	725.3	1090.7	1637.1	1433.8	1150.4	1122.4
1083.3	80°	870.7	654.4	555.6	570.5	561.2	969.6	1569.9	1247.4	941.6	842.8
447.5	82.5°	356.1	326.3	440.0	421.4	399.0	753.3	1267.9	1019.9	770.0	680.6
216.3	85°	154.8	207.0	290.9	255.4	231.2	522.1	1016.2	863.3	650.7	561.2
70.9	87.5°	31.7	78.3	123.1	115.6	119.3	348.7	721.6	613.4	460.5	344.9
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>
3570.6
3561.2
3630.2
3747.7
3880.1
4003.1
4087.0
4135.5
4163.5
4165.3
4137.4
4088.9
3993.8
3818.5
3533.3
3156.6
2724.1
2297.1
1942.8
1700.4
1543.8
1424.5
1335.0
1239.9
1129.9
1163.5
1226.9
1264.1
1221.3
1357.4
1256.7
1023.6
814.8
673.1
559.4
270.4
0.0

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