

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: P950033

Luminaire Tested: **GALN-SB4C-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28213 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

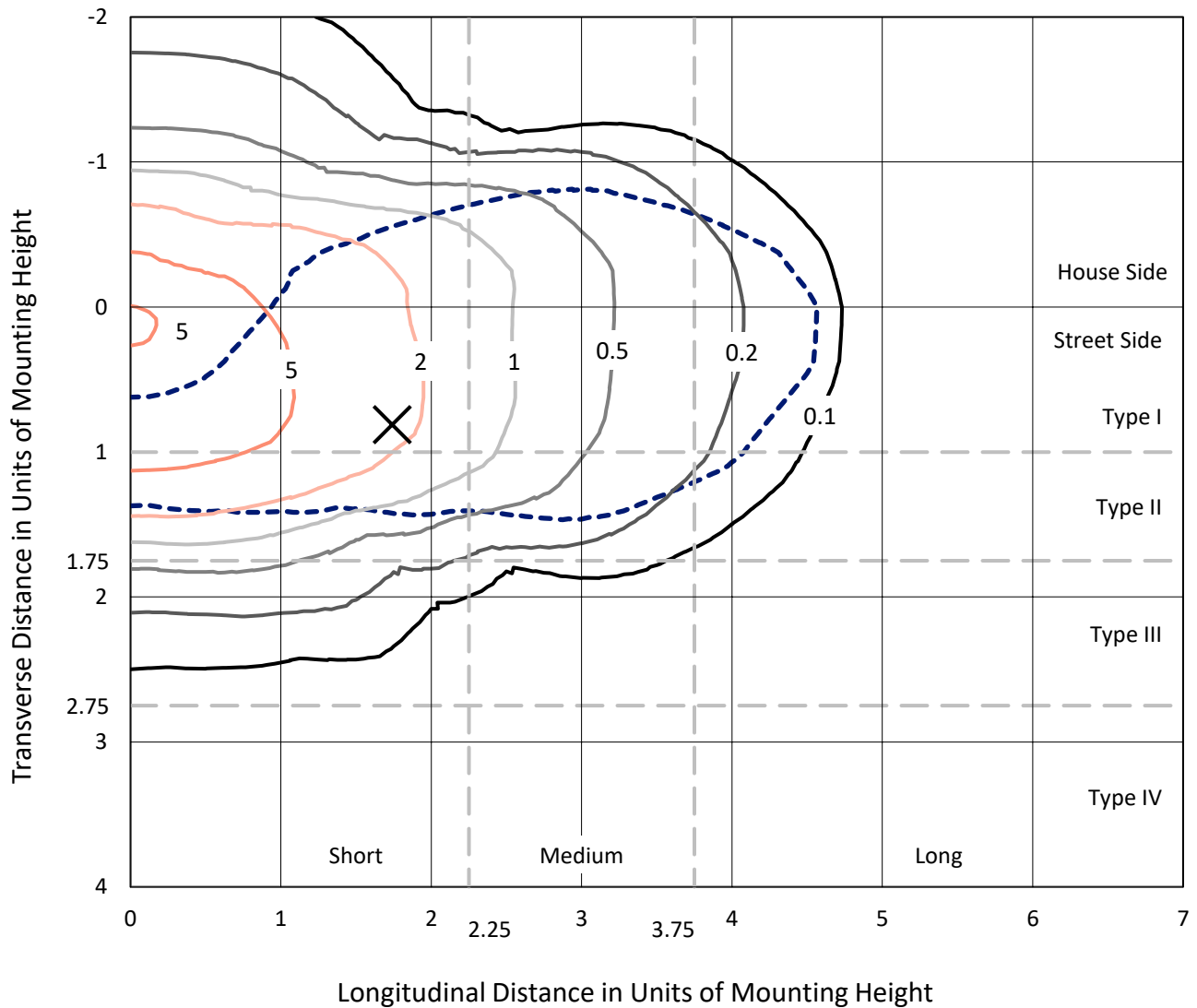
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

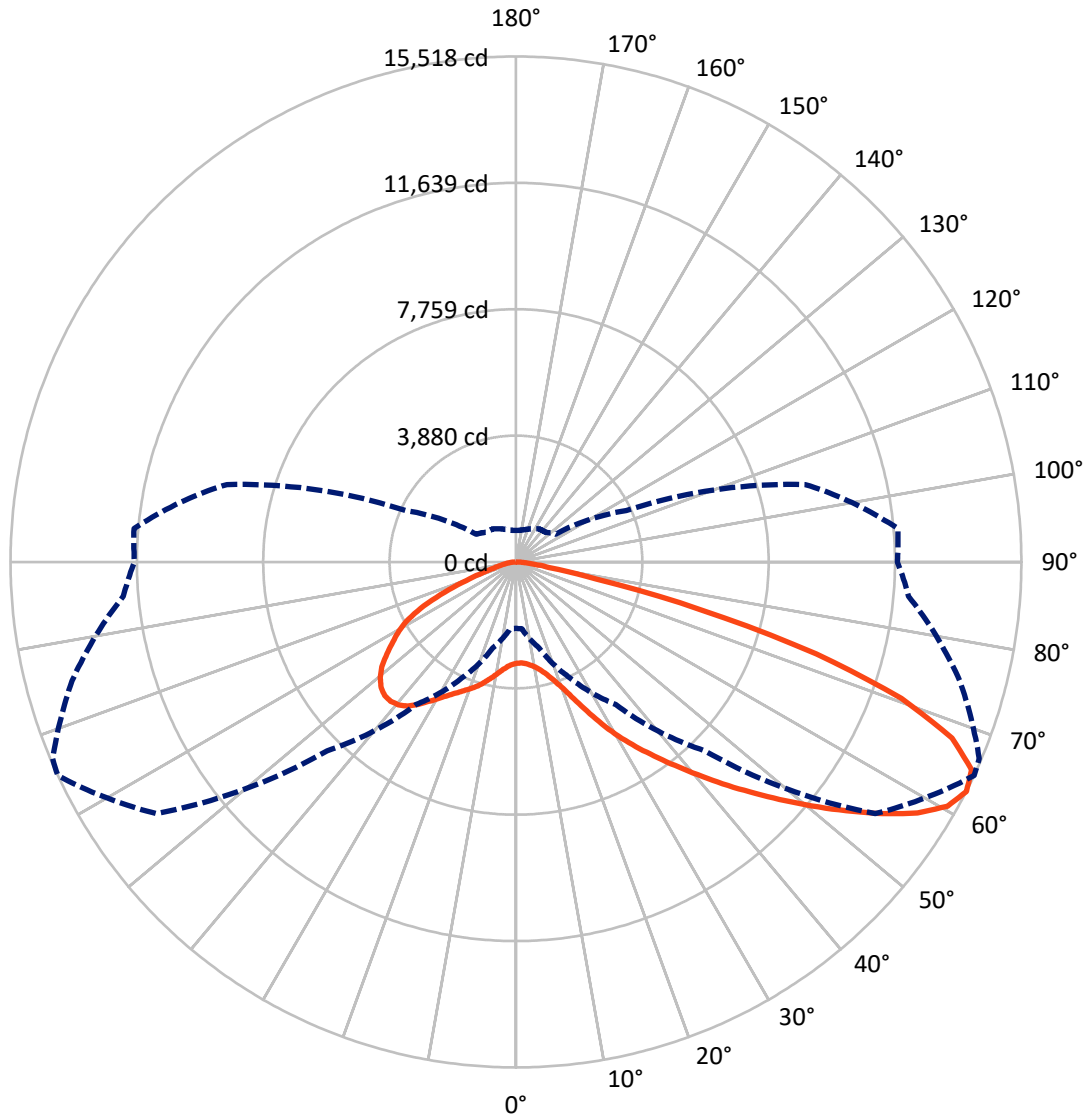
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8902.8	0.0	8902.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19310.2	0.0	19310.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	28213.0	0.0	28213.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	1.1
10°-20°	1051.1	3.7
20°-30°	2131.2	7.6
30°-40°	3688.0	13.1
40°-50°	5581.1	19.8
50°-60°	6543.5	23.2
60°-70°	5485.9	19.4
70°-80°	3028.7	10.7
80°-90°	393.4	1.4
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°	28213.0	100.0
0°-180°	28213.0	100.0

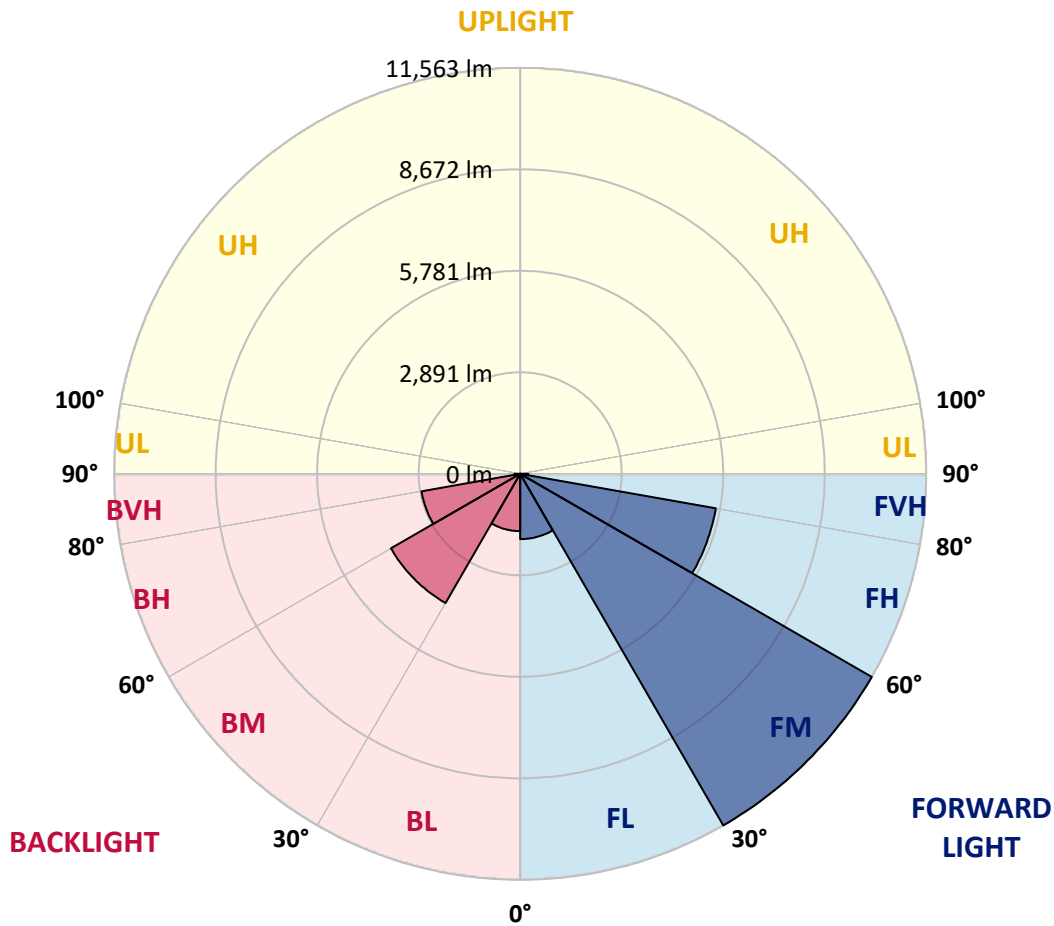


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.6	6.6			
FM (30°-60°)	11562.6	41.0			
FH (60°-80°)	5658.7	20.1			G3/7500
FVH (80°-90°)	229.3	0.8			G3/500
BL (0°-30°)	1632.7	5.8	B3/2500		
BM (30°-60°)	4250.1	15.1	B3/5000		
BH (60°-80°)	2855.9	10.1	B4/5000		G4/5000
BVH (80°-90°)	164.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0
2.5°	3088.5	3079.7	3087.0	3087.0	3089.9	3088.5	3098.7	3101.6	3106.0	3114.8
5°	3057.7	3056.3	3069.4	3081.1	3092.8	3103.1	3116.3	3135.3	3138.2	3148.5
7.5°	3047.5	3038.7	3059.2	3073.8	3101.6	3126.5	3161.6	3193.8	3207.0	3211.4
10°	3126.5	3111.9	3130.9	3139.7	3163.1	3188.0	3229.0	3280.2	3294.8	3312.4
12.5°	3261.2	3245.1	3272.9	3286.1	3308.0	3330.0	3357.8	3407.6	3414.9	3447.1
15°	3445.6	3426.6	3444.1	3460.2	3496.8	3517.3	3545.1	3593.4	3593.4	3618.3
17.5°	3695.9	3671.0	3684.2	3690.0	3713.5	3744.2	3791.0	3833.5	3855.4	3846.7
20°	4069.2	4038.4	4038.4	4009.1	4000.4	4025.2	4086.7	4145.3	4168.7	4123.3
22.5°	4629.8	4585.8	4561.0	4461.4	4421.9	4424.8	4486.3	4558.0	4577.1	4496.6
25°	5342.6	5273.8	5240.1	5093.8	5004.5	4926.9	4975.2	5067.4	5093.8	4994.2
27.5°	6055.4	6059.8	6027.6	5852.0	5704.1	5562.2	5537.3	5633.9	5661.7	5549.0
30°	7055.2	6951.2	6889.7	6679.0	6468.2	6269.1	6166.7	6206.2	6213.5	6078.8
32.5°	7917.3	7890.9	7759.2	7574.8	7304.0	6992.2	6821.0	6758.0	6746.3	6554.6
35°	8899.4	8884.8	8745.8	8526.2	8233.4	7800.2	7491.3	7311.3	7296.7	7027.3
37.5°	9897.7	9897.7	9761.6	9521.5	9218.5	8677.0	8207.1	7921.7	7874.8	7523.5
40°	10694.0	10645.7	10670.5	10569.6	10222.7	9647.4	9001.9	8587.7	8524.7	8103.2
42.5°	11146.3	11130.2	11279.5	11392.2	11250.2	10790.6	9877.2	9309.3	9221.5	8741.4
45°	11247.3	11229.7	11496.1	11908.9	12107.9	11919.1	10828.6	10069.0	9962.1	9408.8
47.5°	11014.5	10979.4	11370.2	12021.6	12659.8	12992.0	11859.1	10893.0	10737.9	10058.7
50°	10314.9	10281.2	10872.5	11737.6	12845.6	13721.0	12977.4	11766.9	11529.8	10755.4
52.5°	8794.1	8810.2	9736.7	10925.2	12601.2	14174.7	13940.5	12687.6	12402.1	11468.3
55°	6850.2	6885.4	8024.1	9332.7	11623.4	14105.9	14597.7	13636.1	13352.1	12138.7
57.5°	4904.9	5060.1	6127.1	7422.5	9745.5	13015.4	14741.2	14537.7	14262.5	12870.5
60°	3179.2	3207.0	4304.8	5610.5	7421.1	11077.5	14449.9	15221.3	15006.1	13617.0
62.5°	2037.5	2056.5	2725.5	3924.2	5341.1	8195.4	13469.2	15518.4	15452.5	14110.3
65°	1497.4	1482.8	1831.1	2593.7	3597.8	5054.2	11564.9	15375.0	15505.2	14419.1
67.5°	1250.0	1229.5	1400.8	1796.0	2650.8	2870.4	8556.9	14442.6	14919.7	14384.0
70°	1138.8	1121.2	1225.1	1333.5	2068.2	1921.9	4313.6	12555.8	13290.6	13984.4
72.5°	964.6	933.9	1075.8	1184.2	1608.6	1474.0	1782.8	9644.5	10540.3	12703.7
75°	748.0	727.5	849.0	1042.2	1209.0	1150.5	1127.1	5856.4	6834.1	9824.5
77.5°	592.8	565.0	676.2	812.4	1087.5	868.0	821.1	2522.0	3491.0	6272.1
80°	446.4	421.6	513.8	642.6	835.8	654.3	531.3	1029.0	1315.9	3177.7
82.5°	317.6	295.7	358.6	471.3	562.1	587.0	326.4	576.7	648.4	1225.1
85°	203.5	190.3	240.1	295.7	357.1	377.6	199.1	301.5	330.8	505.0
87.5°	111.2	90.8	128.8	137.6	165.4	150.8	95.1	109.8	118.6	183.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3109.0	0°	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0	3109.0
3114.8	2.5°	3120.7	3125.1	3139.7	3144.1	3154.3	3167.5	3176.3	3185.1	3185.1	3193.8
3161.6	5°	3163.1	3173.4	3204.1	3220.2	3246.5	3272.9	3289.0	3308.0	3319.7	3325.6
3236.3	7.5°	3245.1	3261.2	3305.1	3332.9	3378.3	3414.9	3439.8	3466.1	3472.0	3488.1
3340.2	10°	3356.3	3375.3	3425.1	3477.8	3532.0	3577.3	3600.8	3619.8	3627.1	3630.0
3473.4	12.5°	3483.7	3511.5	3575.9	3640.3	3697.4	3736.9	3742.7	3738.4	3717.9	3700.3
3637.4	15°	3640.3	3665.2	3736.9	3807.1	3862.8	3870.1	3833.5	3810.1	3785.2	3780.8
3820.3	17.5°	3827.6	3840.8	3906.7	3975.5	3979.9	3955.0	3900.8	3878.9	3855.4	3839.3
4058.9	20°	4045.7	4041.3	4088.2	4117.5	4086.7	4010.6	3928.6	3892.0	3868.6	3849.6
4351.7	22.5°	4306.3	4272.6	4266.8	4259.4	4177.5	4017.9	3906.7	3859.8	3823.2	3796.9
4760.0	25°	4685.4	4556.6	4467.3	4417.5	4233.1	3978.4	3836.4	3732.5	3663.7	3618.3
5259.2	27.5°	5159.6	4943.0	4717.6	4596.1	4233.1	3897.9	3666.6	3498.3	3385.6	3338.8
5742.2	30°	5611.9	5385.0	5052.8	4811.3	4222.8	3766.2	3392.9	3158.7	3027.0	2980.1
6155.0	32.5°	5998.3	5751.0	5408.5	5046.9	4198.0	3552.5	3053.3	2794.2	2666.9	2611.3
6563.3	35°	6357.0	6093.5	5765.6	5306.0	4132.1	3239.2	2680.1	2482.5	2340.5	2251.2
6979.0	37.5°	6724.3	6411.1	6103.7	5540.2	4013.5	2873.3	2393.2	2224.9	2058.0	1938.0
7421.1	40°	7123.9	6749.2	6465.3	5679.3	3818.9	2524.9	2170.7	2017.0	1839.9	1712.6
7930.5	42.5°	7590.9	7154.7	6867.8	5751.0	3552.5	2277.6	2025.8	1875.0	1708.2	1604.2
8476.4	45°	8078.3	7601.1	7235.2	5749.5	3255.3	2161.9	1979.0	1829.7	1645.2	1536.9
9037.0	47.5°	8589.1	8068.0	7552.8	5655.8	2997.7	2178.0	1952.6	1731.6	1528.1	1422.7
9603.5	50°	9101.4	8578.9	7860.2	5480.2	2887.9	2142.9	1854.5	1594.0	1353.9	1258.8
10134.8	52.5°	9609.3	9121.9	8125.1	5229.9	2776.7	2012.6	1728.7	1415.4	1282.2	1216.4
10683.7	55°	10120.2	9659.1	8413.5	4865.4	2498.6	1860.4	1517.9	1348.1	1225.1	1165.1
11220.9	57.5°	10632.5	10279.7	8687.2	4501.0	2148.7	1673.0	1402.2	1266.1	1168.1	1116.8
11670.3	60°	11165.3	10989.6	8969.7	4165.8	1803.3	1433.0	1317.4	1200.3	1100.7	1043.6
12102.1	62.5°	11714.2	11771.3	9190.7	3734.0	1485.7	1286.6	1241.2	1121.2	1024.6	970.4
12459.2	65°	12267.5	12525.1	9335.6	3135.3	1204.6	1147.6	1159.3	1034.9	936.8	889.9
12721.2	67.5°	12684.6	13068.1	9294.6	2372.7	988.0	1015.8	1056.8	944.1	851.9	815.3
12678.8	70°	12731.5	13003.7	8890.7	1624.7	827.0	887.0	942.6	854.8	759.7	733.3
12081.6	72.5°	12107.9	12125.5	7765.1	1061.2	699.7	778.7	822.6	764.1	671.8	645.5
10569.6	75°	10472.9	10028.0	5701.2	699.7	585.5	668.9	709.9	668.9	579.6	585.5
7908.5	77.5°	7934.8	7102.0	3461.7	497.7	488.9	562.1	617.7	588.4	512.3	575.2
3976.9	80°	4088.2	3842.3	1544.2	371.8	386.4	449.4	507.9	469.9	405.5	386.4
888.5	82.5°	936.8	1089.0	608.9	266.4	279.6	323.5	387.9	352.8	291.3	245.9
370.3	85°	327.9	358.6	269.3	166.9	163.9	202.0	263.5	235.7	197.6	158.1
156.6	87.5°	103.9	136.1	101.0	67.3	70.3	90.8	121.5	111.2	92.2	60.0
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>
3109.0
3193.8
3328.5
3482.2
3622.7
3700.3
3780.8
3840.8
3851.1
3805.7
3635.9
3362.2
3008.0
2639.1
2280.5
1970.2
1737.4
1624.7
1554.5
1437.4
1264.7
1216.4
1159.3
1108.0
1039.2
969.0
888.5
816.8
734.8
644.0
565.0
506.4
352.8
243.0
166.9
62.9
0.0

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