

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: P942312

Luminaire Tested: **GALN-SB6B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33849 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

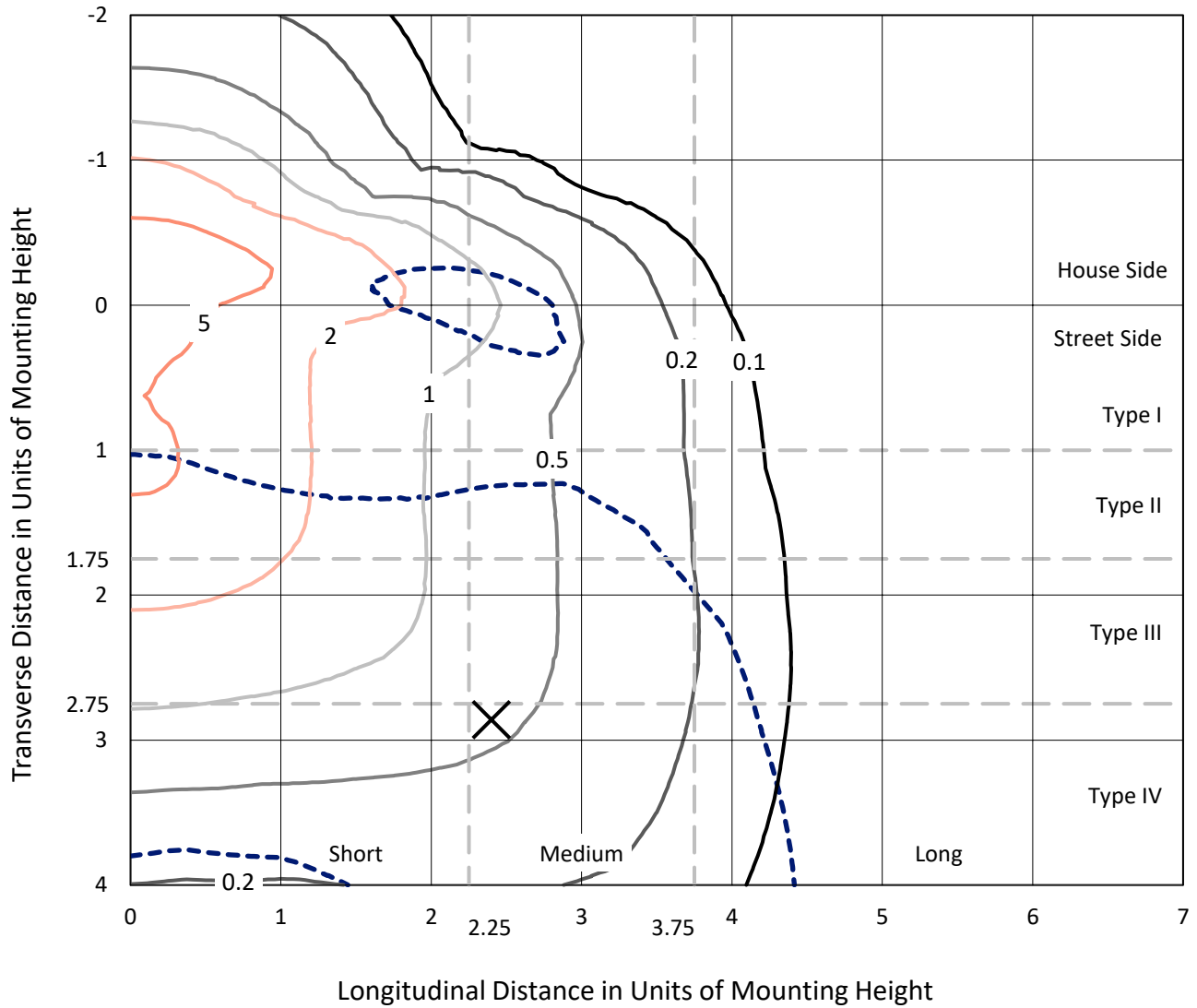
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

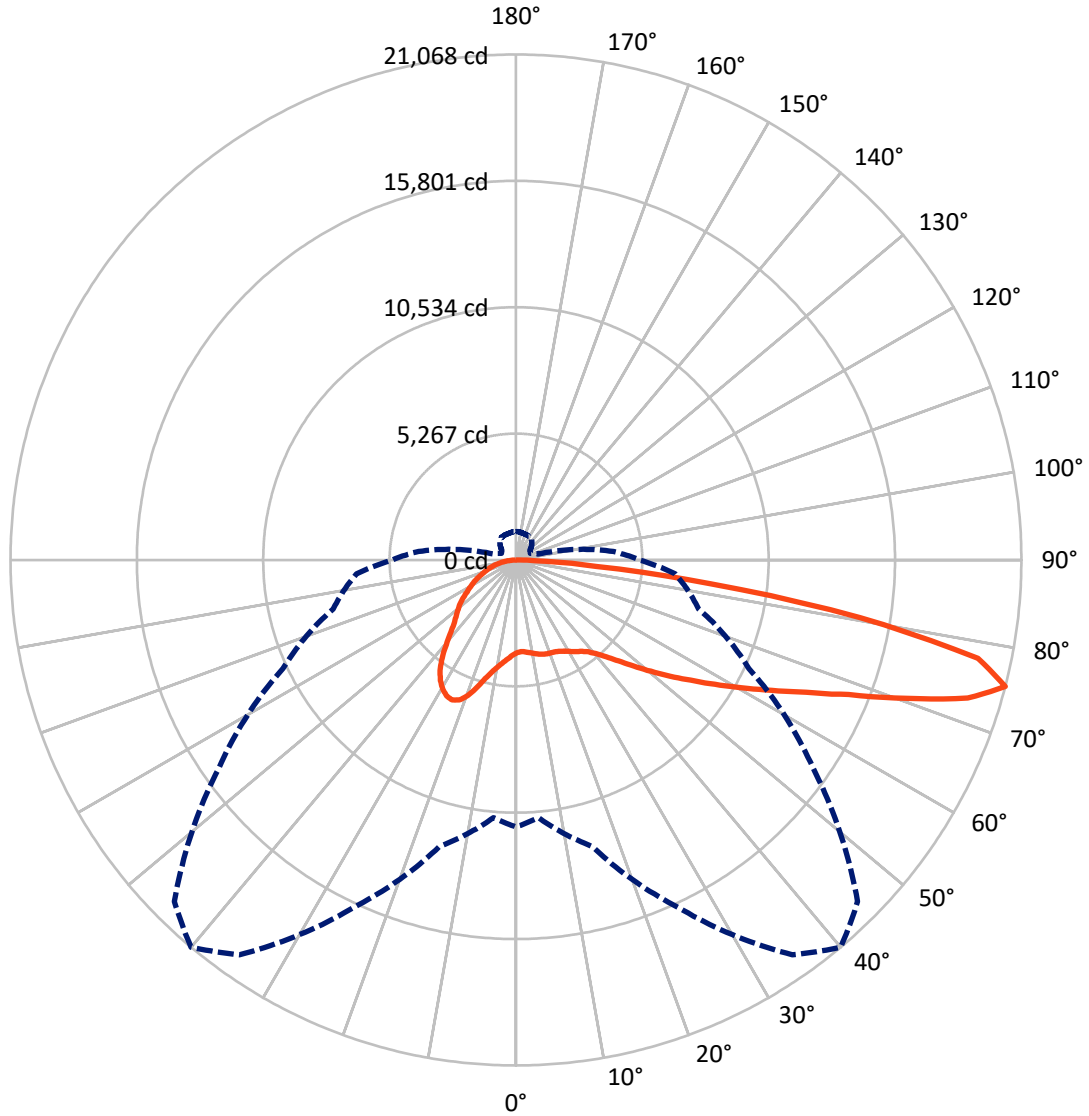
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10487.5	0.0	10487.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23361.4	0.0	23361.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	33849.0	0.0	33849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	1.1
10°-20°	1297.2	3.8
20°-30°	2368.6	7.0
30°-40°	3359.3	9.9
40°-50°	4536.1	13.4
50°-60°	6102.3	18.0
60°-70°	7745.2	22.9
70°-80°	7029.2	20.8
80°-90°	1024.6	3.0
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°	33849.0	100.0
0°-180°	33849.0	100.0

Coefficient of Utilization



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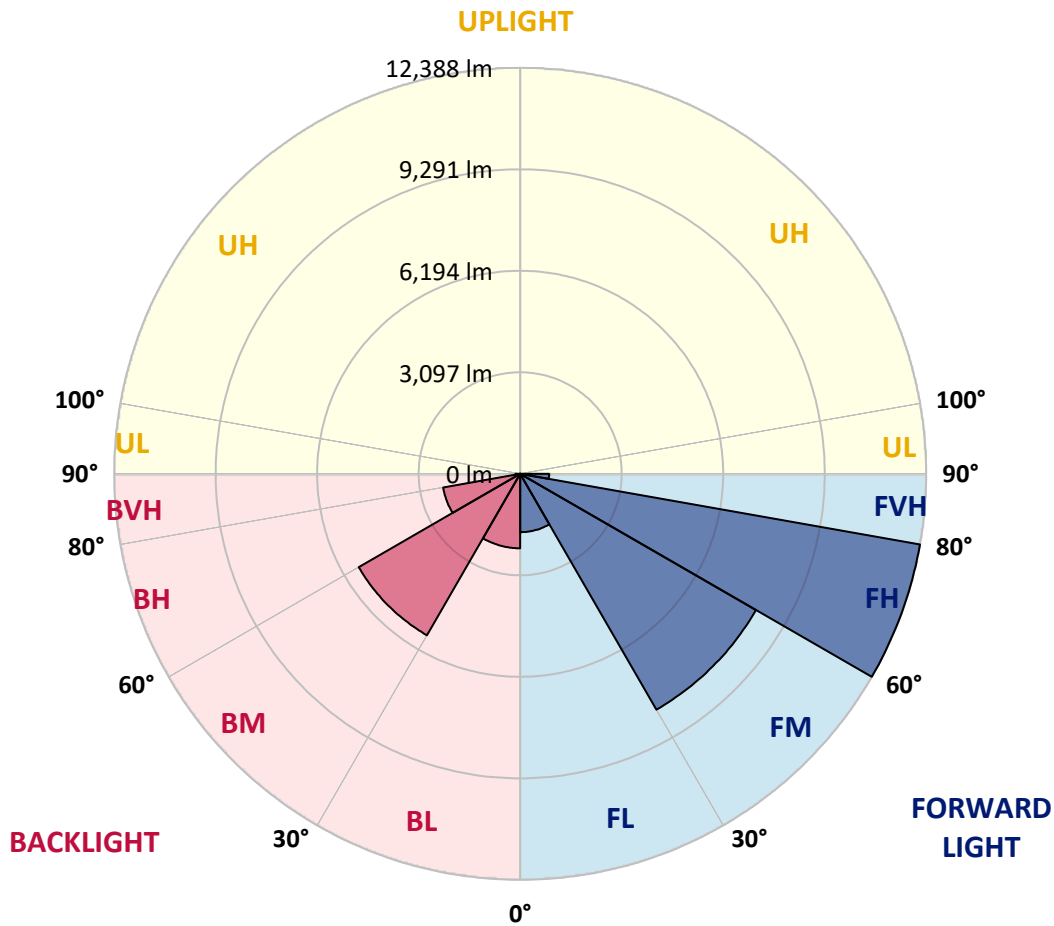
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.5	5.3			
FM (30°-60°)	8309.2	24.5			
FH (60°-80°)	12388.2	36.6			G5
FVH (80°-90°)	883.6	2.6			G5
BL (0°-30°)	2271.7	6.7	B3/2500		
BM (30°-60°)	5688.6	16.8	B4/8500		
BH (60°-80°)	2386.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	141.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7
2.5°	3811.4	3833.0	3827.6	3820.4	3820.4	3822.2	3820.4	3833.0	3845.5	3858.1
5°	3850.9	3872.5	3861.7	3852.7	3845.5	3843.7	3838.4	3836.6	3843.7	3859.9
7.5°	3928.1	3949.7	3933.5	3917.4	3903.0	3895.8	3888.6	3877.9	3872.5	3881.5
10°	4014.3	4035.8	4016.1	3987.4	3964.0	3955.1	3947.9	3937.1	3929.9	3935.3
12.5°	4100.5	4122.0	4095.1	4055.6	4025.1	4019.7	4010.7	4007.1	4005.3	4003.5
15°	4181.3	4199.2	4165.1	4118.4	4086.1	4077.1	4068.2	4073.5	4082.5	4093.3
17.5°	4244.1	4262.1	4211.8	4150.7	4120.2	4116.6	4111.2	4129.2	4154.3	4181.3
20°	4301.6	4319.5	4254.9	4172.3	4136.4	4136.4	4138.2	4175.9	4211.8	4251.3
22.5°	4382.3	4396.7	4317.7	4204.6	4152.5	4156.1	4170.5	4208.2	4253.1	4306.9
25°	4502.6	4513.4	4416.5	4265.6	4206.4	4217.2	4229.7	4247.7	4290.8	4353.6
27.5°	4696.5	4705.5	4578.0	4373.4	4283.6	4301.6	4319.5	4306.9	4326.7	4380.5
30°	4969.4	4974.8	4813.2	4542.1	4414.7	4423.6	4427.2	4375.2	4337.5	4380.5
32.5°	5292.6	5290.8	5098.7	4746.8	4563.7	4554.7	4524.2	4421.8	4333.9	4371.6
35°	5793.5	5773.7	5525.9	5034.0	4732.4	4676.8	4605.0	4473.9	4351.8	4362.6
37.5°	6622.9	6561.8	6218.9	5504.4	4983.8	4841.9	4736.0	4558.3	4391.3	4359.0
40°	7558.2	7481.0	7104.0	6148.9	5360.8	5132.8	4962.2	4678.6	4455.9	4375.2
42.5°	8667.7	8558.2	8152.5	6908.3	5838.3	5508.0	5251.3	4831.2	4551.1	4427.2
45°	10030.4	9885.0	9310.5	7764.7	6439.8	5999.9	5657.0	5062.8	4696.5	4527.8
47.5°	11407.4	11443.3	10626.4	8744.9	7161.5	6606.7	6165.1	5411.1	4908.4	4689.3
50°	12870.5	12895.7	11935.2	9831.1	7980.1	7292.5	6736.0	5800.6	5202.8	4919.1
52.5°	14012.4	14015.9	13123.7	10967.5	8832.9	8046.6	7351.8	6245.9	5543.9	5224.3
55°	14726.9	14717.9	13956.7	12042.9	9813.1	8838.3	8034.0	6752.1	5960.4	5583.4
57.5°	15245.7	15218.8	14531.2	12967.5	10858.0	9773.6	8806.0	7326.6	6452.3	6010.7
60°	15443.2	15427.1	14920.8	13766.4	11956.7	10807.7	9696.4	7969.4	7010.7	6515.2
62.5°	15518.6	15549.1	15303.2	14540.2	13132.7	11953.1	10674.9	8737.8	7639.0	7086.1
65°	15784.3	15840.0	15789.7	15552.7	14461.2	13294.2	11972.9	9651.6	8324.8	7698.3
67.5°	16310.3	16366.0	16387.5	16764.6	16084.1	14965.7	13592.3	10789.8	9127.3	8333.8
70°	16297.8	16281.6	16662.2	17728.6	18116.4	17279.8	15775.3	12190.1	10084.2	8861.6
72.5°	14834.6	14705.3	15604.8	17717.9	19807.6	19696.3	18441.4	13996.2	10910.1	8926.3
75°	11129.1	10784.4	12373.2	15967.4	20089.5	21067.9	20136.1	15116.5	10714.4	7886.8
77.5°	4759.4	4412.9	6285.4	11820.3	17980.0	19694.5	18581.4	13188.3	8552.8	5215.4
80°	1245.9	1244.1	1899.4	5359.0	12227.8	14543.8	12759.2	8516.9	4886.8	1863.5
82.5°	515.3	502.7	698.4	2084.3	5974.8	8161.5	6660.6	3798.9	1764.8	504.5
85°	192.1	190.3	339.3	719.9	2107.7	3366.2	2436.2	971.3	439.8	246.0
87.5°	53.9	52.1	73.6	249.5	513.5	779.2	416.5	159.8	123.9	96.9
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°
3870.7	0°	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7	3870.7
3877.9	2.5°	3883.2	3892.2	3908.4	3920.9	3937.1	3955.1	3980.2	3996.3	4012.5	4023.3
3886.8	5°	3899.4	3919.2	3960.4	4001.7	4050.2	4095.1	4147.2	4184.9	4215.4	4224.4
3919.2	7.5°	3935.3	3967.6	4037.6	4107.7	4184.9	4258.5	4333.9	4398.5	4450.6	4470.3
3976.6	10°	3998.1	4041.2	4140.0	4238.7	4341.0	4454.2	4551.1	4644.5	4718.1	4748.6
4044.8	12.5°	4077.1	4131.0	4260.3	4396.7	4538.5	4694.7	4820.4	4935.3	5026.9	5068.1
4140.0	15°	4179.5	4249.5	4414.7	4597.8	4806.0	5023.3	5183.0	5310.5	5412.8	5463.1
4238.7	17.5°	4290.8	4384.1	4592.4	4868.9	5166.9	5452.3	5639.1	5732.4	5838.3	5886.8
4330.3	20°	4398.5	4513.4	4811.4	5213.6	5610.3	5913.7	6064.5	6089.7	6096.9	6102.2
4416.5	22.5°	4509.8	4664.2	5086.1	5648.0	6073.5	6283.6	6305.1	6197.4	6046.6	5976.6
4500.8	25°	4631.9	4836.6	5445.2	6127.4	6472.1	6497.2	6332.0	6069.9	5784.5	5653.4
4569.1	27.5°	4750.4	5035.8	5876.0	6585.2	6759.3	6538.5	6183.0	5811.4	5466.7	5328.5
4617.5	30°	4868.9	5263.8	6351.8	6985.5	6890.4	6436.2	5947.8	5533.1	5186.6	5041.2
4660.6	32.5°	4989.2	5529.5	6899.4	7274.6	6867.0	6218.9	5655.2	5220.7	4915.5	4762.9
4698.3	35°	5125.6	5856.3	7418.2	7432.6	6710.9	5899.4	5269.2	4847.3	4581.6	4459.5
4743.2	37.5°	5303.3	6271.0	7876.0	7472.1	6438.0	5430.8	4789.9	4405.7	4186.7	4131.0
4809.6	40°	5524.2	6770.1	8226.1	7409.2	6034.0	4861.7	4265.6	3958.6	3834.8	3847.3
4899.4	42.5°	5811.4	7328.4	8472.0	7247.6	5472.1	4274.6	3806.0	3669.6	3728.8	3779.1
5034.0	45°	6184.8	7908.3	8624.6	6973.0	4836.6	3777.3	3535.0	3567.3	3612.2	3617.5
5251.3	47.5°	6662.4	8495.4	8725.2	6558.3	4188.4	3427.2	3362.6	3369.8	3360.8	3323.1
5576.2	50°	7258.4	9066.3	8814.9	6008.9	3637.3	3208.2	3122.0	3096.9	2973.0	2850.9
6008.9	52.5°	7937.0	9590.5	8852.7	5326.7	3208.2	3025.1	2885.1	2727.1	2495.5	2457.8
6552.9	55°	8691.1	10075.3	8755.7	4488.3	2847.4	2789.9	2578.1	2387.8	2362.6	2330.3
7269.2	57.5°	9592.3	10597.7	8558.2	3552.9	2477.5	2515.2	2308.8	2330.3	2285.4	2235.2
8190.2	60°	10577.9	11138.1	8211.7	2700.1	2095.1	2172.3	2238.7	2237.0	2224.4	2183.1
9161.4	62.5°	11464.8	11493.5	7529.5	2068.2	1759.4	1906.6	2087.9	2086.1	2075.4	2052.0
10175.8	65°	11992.6	11439.7	6391.3	1628.3	1482.9	1687.6	1883.3	1897.6	1899.4	1897.6
10938.8	67.5°	11899.3	10809.5	4829.4	1296.2	1254.9	1465.0	1680.4	1700.2	1714.5	1718.1
11035.7	70°	10843.6	9425.4	3149.0	1034.1	1052.0	1269.3	1488.3	1508.1	1520.6	1535.0
9576.2	72.5°	8452.3	6929.9	1802.5	836.6	874.3	1100.5	1298.0	1321.3	1328.5	1355.5
6664.2	75°	5150.7	4075.3	973.1	658.9	718.1	940.7	1109.5	1136.4	1149.0	1181.3
3272.8	77.5°	2448.8	1764.8	554.7	513.5	578.1	768.4	937.1	967.7	933.6	951.5
903.0	80°	827.6	655.3	350.1	391.4	441.6	599.6	750.4	781.0	709.1	705.6
299.8	82.5°	289.0	265.7	222.6	260.3	285.5	429.1	567.3	606.8	527.8	526.0
134.6	85°	113.1	107.7	123.9	141.8	170.6	263.9	373.4	393.2	325.0	262.1
39.5	87.5°	23.3	25.1	30.5	32.3	52.1	91.6	134.6	165.2	131.1	111.3
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>
3870.7
4016.1
4227.9
4472.1
4750.4
5068.1
5459.5
5885.0
6116.6
5996.3
5673.2
5344.6
5057.4
4782.7
4486.5
4170.5
3890.4
3825.8
3653.4
3351.8
2867.1
2470.3
2335.7
2226.2
2168.7
2043.1
1897.6
1721.7
1542.2
1366.2
1184.9
937.1
698.4
500.9
258.5
102.3
0.0

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