

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: P941929

Luminaire Tested: **GALN-SB5C-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27095 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

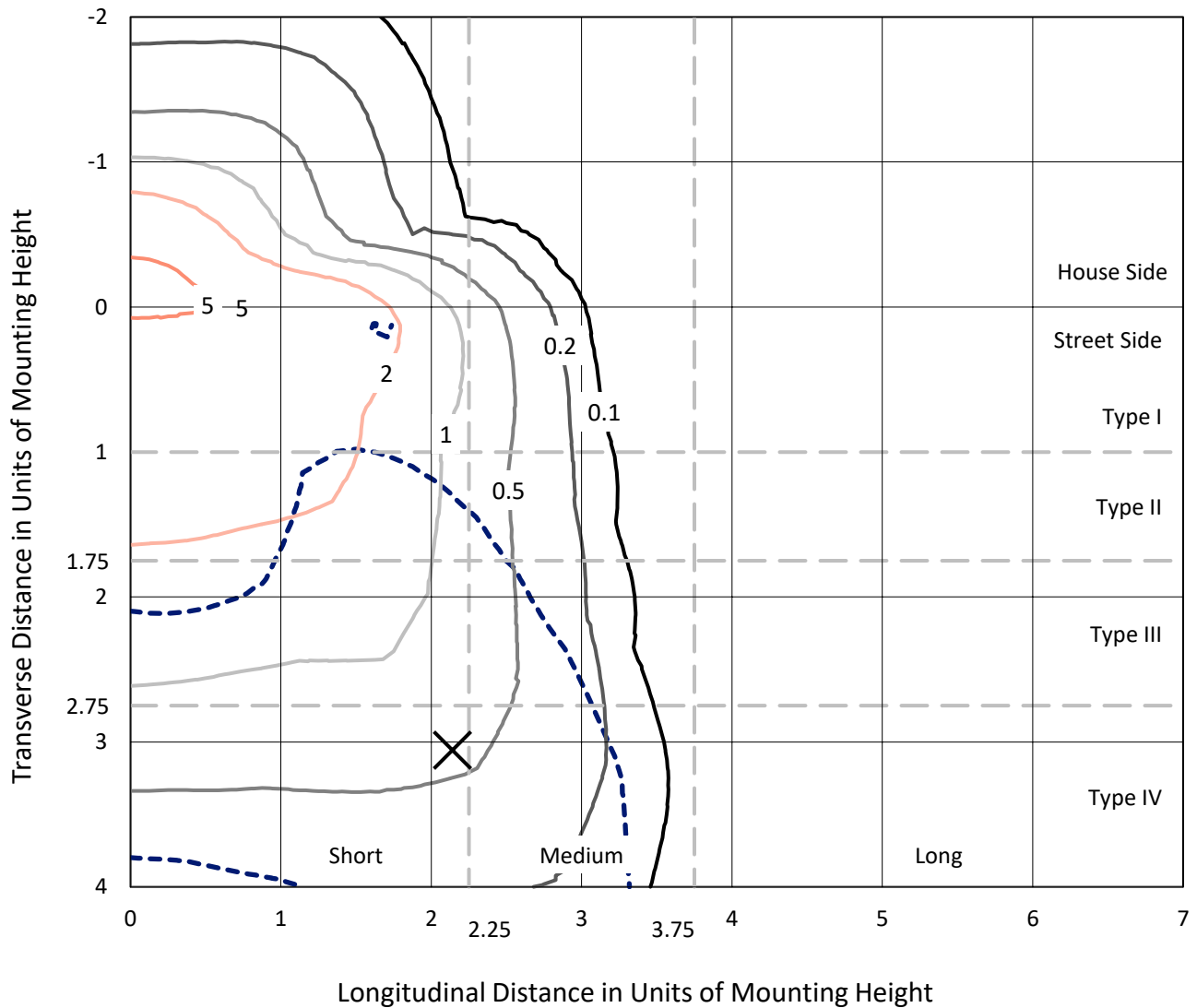
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

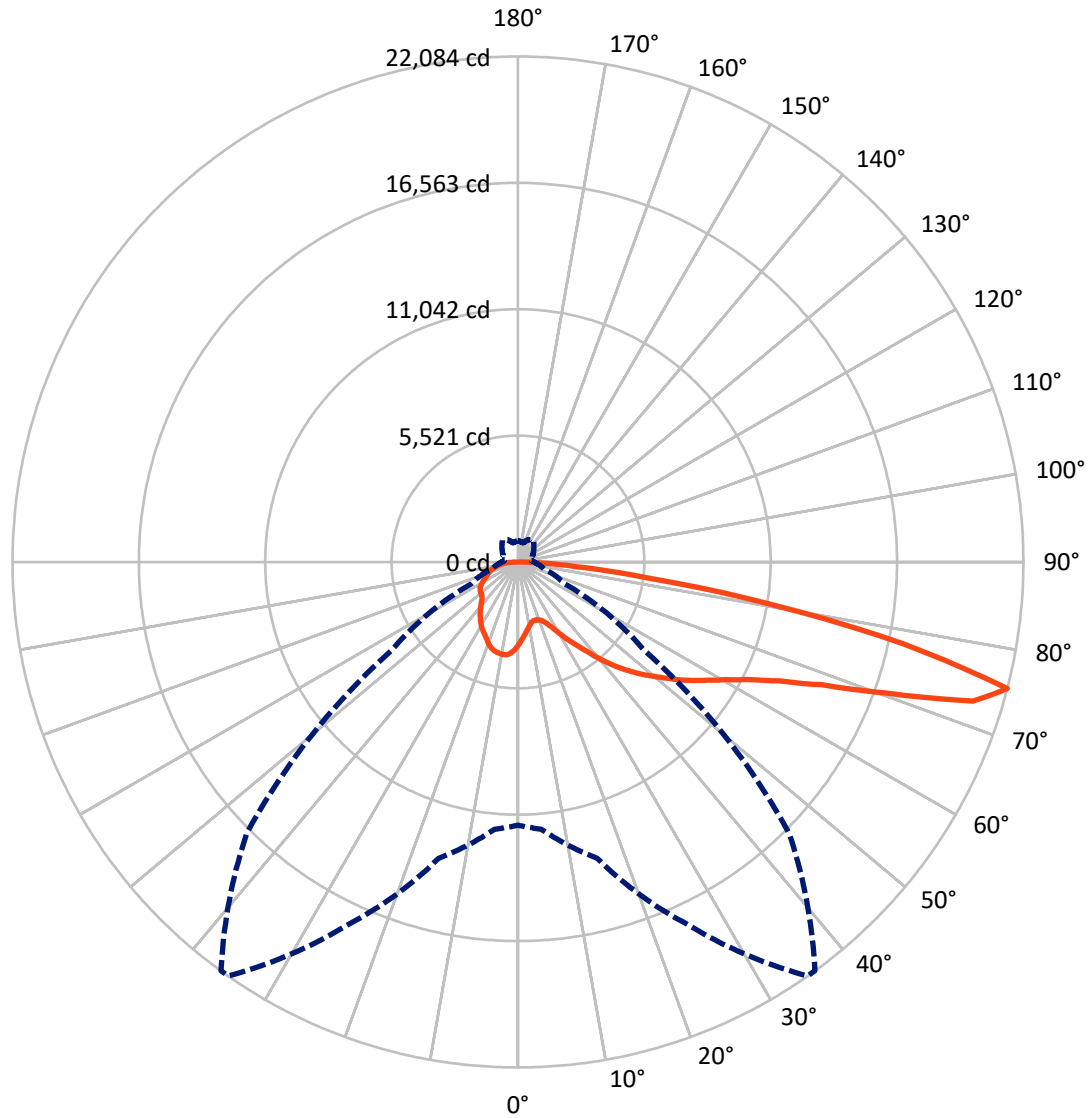
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6447.9	0.0	6447.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20647.1	0.0	20647.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	27095.0	0.0	27095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.8	1.3
10°-20°	986.0	3.6
20°-30°	1655.8	6.1
30°-40°	2573.4	9.5
40°-50°	3819.6	14.1
50°-60°	5273.2	19.5
60°-70°	6397.6	23.6
70°-80°	5287.1	19.5
80°-90°	760.4	2.8
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°	27095.0	100.0
0°-180°	27095.0	100.0

Coefficient of Utilization



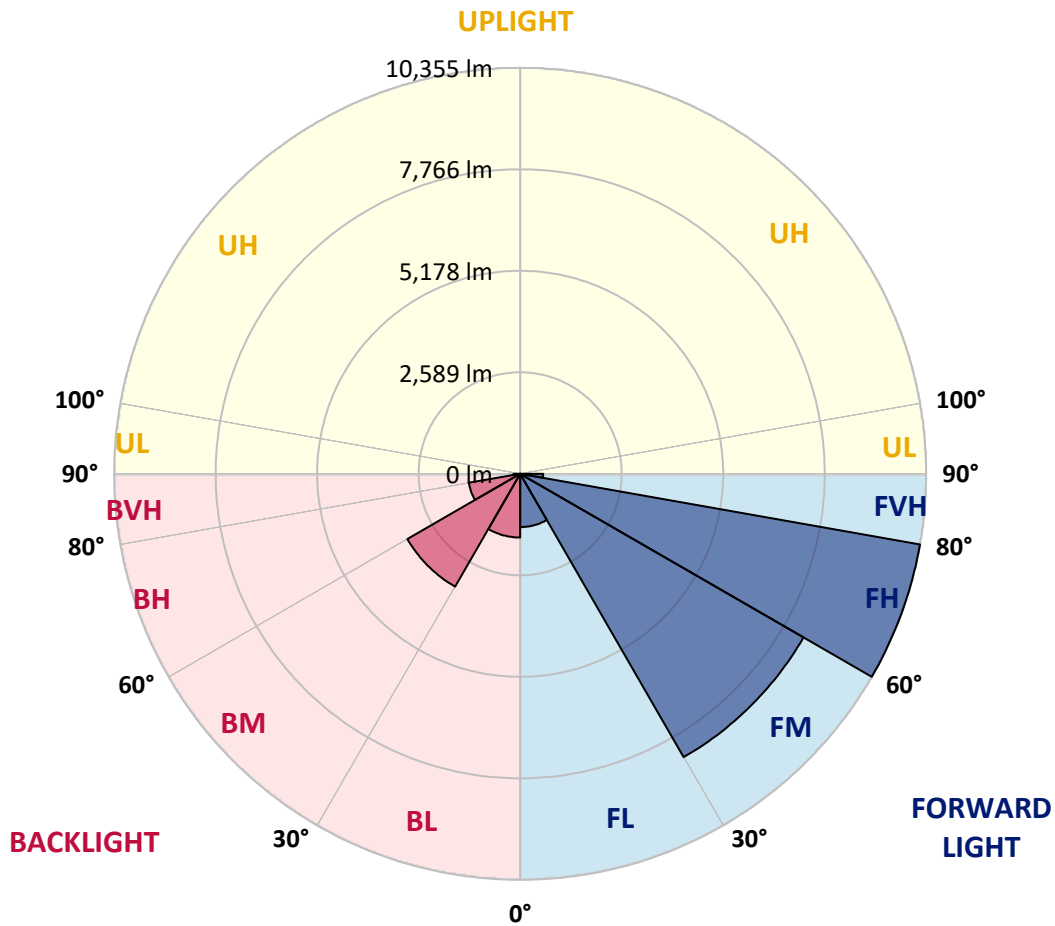
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.8	5.0			
FM (30°-60°)	8343.8	30.8			
FH (60°-80°)	10355.3	38.2			G4/12000
FVH (80°-90°)	589.2	2.2			G4/750
BL (0°-30°)	1625.0	6.0	B3/2500		
BM (30°-60°)	3322.4	12.3	B3/5000		
BH (60°-80°)	1329.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	171.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6
2.5°	3329.4	3349.9	3358.7	3354.3	3376.2	3373.3	3404.1	3442.1	3494.9	3546.1
5°	3073.0	3095.0	3114.0	3131.6	3174.1	3187.3	3235.6	3308.9	3405.5	3503.7
7.5°	2834.3	2853.3	2882.6	2914.8	2986.6	2999.8	3080.4	3194.6	3329.4	3472.9
10°	2639.5	2658.5	2689.3	2725.9	2815.2	2831.3	2933.9	3086.2	3262.0	3443.6
12.5°	2556.0	2561.8	2579.4	2616.0	2693.7	2703.9	2816.7	2991.0	3196.1	3421.6
15°	2551.6	2563.3	2564.8	2583.8	2648.3	2652.6	2756.6	2929.5	3155.1	3417.2
17.5°	2595.5	2604.3	2591.1	2602.8	2657.0	2664.4	2746.4	2900.2	3141.9	3436.3
20°	2712.7	2720.0	2680.5	2664.4	2703.9	2709.8	2790.3	2919.2	3155.1	3475.8
22.5°	2961.7	2966.1	2869.4	2803.5	2806.4	2809.4	2879.7	2996.9	3206.3	3547.6
25°	3349.9	3346.9	3193.1	3065.7	2992.5	2976.4	3023.2	3122.8	3292.7	3642.8
27.5°	3803.9	3782.0	3628.2	3437.8	3278.1	3254.7	3244.4	3286.9	3415.8	3768.8
30°	4316.6	4296.1	4130.6	3881.6	3660.4	3622.3	3525.6	3503.7	3598.9	3940.2
32.5°	4879.1	4865.9	4668.1	4366.4	4070.5	4026.6	3864.0	3805.4	3880.1	4199.4
35°	5350.7	5339.0	5174.9	4864.4	4502.6	4448.4	4282.9	4217.0	4255.1	4531.9
37.5°	5776.9	5771.1	5630.5	5385.9	5012.4	4946.4	4760.4	4738.4	4731.1	4969.9
40°	6172.4	6157.8	6011.3	5882.4	5605.6	5545.5	5381.5	5362.4	5306.8	5508.9
42.5°	6610.4	6572.3	6359.9	6299.9	6225.2	6175.4	6077.2	6080.1	5957.1	6116.8
45°	6967.8	6945.8	6727.6	6692.4	6773.0	6752.5	6837.4	6859.4	6620.6	6753.9
47.5°	7351.5	7331.0	7146.5	7121.6	7339.8	7345.7	7646.0	7653.3	7268.1	7416.0
50°	7824.7	7795.4	7612.3	7643.0	7887.6	7909.6	8458.9	8409.1	7864.2	8088.3
52.5°	8136.6	8154.2	8114.7	8164.5	8498.4	8518.9	9258.6	9131.2	8454.5	8751.8
55°	8366.6	8401.8	8524.8	8639.1	9142.9	9163.4	10013.0	9818.2	8943.7	9367.0
57.5°	8662.5	8612.7	8842.7	9065.3	9755.2	9809.4	10746.8	10480.2	9377.3	9897.3
60°	9087.3	9052.1	9230.8	9560.4	10440.7	10527.1	11523.1	11076.4	9695.1	10317.7
62.5°	9948.5	9860.7	9888.5	10180.0	11304.9	11419.1	12399.1	11596.4	9853.3	10481.7
65°	11236.0	11085.2	10944.6	11146.7	12522.1	12634.9	13387.8	12005.0	9794.7	10163.9
67.5°	12857.5	12708.1	12535.3	12725.7	14314.9	14404.3	14607.9	12235.0	9333.3	8939.3
70°	14194.8	14139.2	14345.7	15129.3	17178.5	17181.4	16172.2	12044.6	8069.3	6337.9
72.5°	14017.6	13983.9	15072.2	17494.9	20787.6	20710.0	17653.1	10603.3	5435.7	2859.2
75°	11499.7	11717.9	13403.9	17452.4	22083.9	22073.7	16746.4	6740.7	2248.4	1185.0
77.5°	6166.6	6512.2	8702.0	12885.3	17240.0	17499.3	11773.6	2358.2	965.3	758.7
80°	2011.1	2312.8	3468.5	6560.6	11202.4	11154.0	5046.0	925.7	660.6	537.6
82.5°	853.9	889.1	1549.7	3097.9	5749.1	5659.8	1606.8	531.7	464.3	367.7
85°	334.0	373.5	684.0	1432.5	2490.1	2435.9	580.0	263.7	297.3	240.2
87.5°	109.9	133.3	244.6	490.7	774.8	747.0	142.1	90.8	128.9	109.9
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°
3610.6	0°	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6	3610.6
3620.8	2.5°	3641.4	3664.8	3692.6	3733.6	3768.8	3798.1	3828.8	3847.9	3855.2	3877.2
3626.7	5°	3667.7	3719.0	3787.8	3855.2	3921.1	3960.7	3995.8	4013.4	4029.5	4041.2
3642.8	7.5°	3711.7	3777.6	3886.0	3973.8	4029.5	4061.7	4085.2	4079.3	4085.2	4088.1
3660.4	10°	3749.7	3842.0	3970.9	4054.4	4096.9	4098.4	4092.5	4072.0	4061.7	4063.2
3686.8	12.5°	3795.1	3897.7	4036.8	4107.1	4118.9	4086.6	4061.7	4026.6	4013.4	4007.5
3726.3	15°	3856.7	3973.8	4108.6	4135.0	4105.7	4064.7	4022.2	3965.1	3935.8	3912.3
3793.7	17.5°	3931.4	4060.3	4164.3	4145.2	4082.2	4014.9	3946.0	3859.6	3799.5	3774.6
3886.0	20°	4035.4	4151.1	4206.7	4123.3	4028.0	3925.5	3808.3	3702.9	3647.2	3622.3
4003.1	22.5°	4161.3	4272.7	4247.8	4085.2	3950.4	3786.4	3639.9	3562.3	3534.4	3516.8
4154.0	25°	4312.2	4407.4	4277.1	4029.5	3823.0	3601.8	3489.0	3464.1	3450.9	3437.8
4338.6	27.5°	4508.5	4559.7	4299.0	3947.5	3623.8	3405.5	3364.5	3368.9	3364.5	3342.5
4594.9	30°	4767.7	4757.5	4319.5	3814.2	3395.3	3228.3	3231.2	3250.3	3253.2	3238.5
4952.3	32.5°	5109.0	5005.0	4329.8	3641.4	3177.0	3073.0	3076.0	3096.5	3111.1	3086.2
5419.5	35°	5522.1	5293.6	4313.7	3424.6	3008.6	2925.1	2903.1	2909.0	2913.4	2889.9
5986.4	37.5°	6004.0	5617.3	4241.9	3184.4	2869.4	2780.1	2733.2	2693.7	2670.2	2648.3
6628.0	40°	6532.8	5970.3	4110.1	2950.0	2714.2	2626.3	2556.0	2481.3	2402.2	2372.9
7307.6	42.5°	7086.4	6333.5	3950.4	2725.9	2535.5	2463.7	2389.0	2280.6	2162.0	2101.9
8013.6	45°	7660.6	6705.6	3793.7	2504.7	2352.4	2321.6	2235.2	2104.8	1975.9	1899.8
8721.1	47.5°	8223.1	7057.1	3563.7	2282.1	2181.0	2214.7	2147.3	2027.2	1883.7	1763.6
9422.7	50°	8760.6	7386.7	3187.3	2056.5	2041.9	2182.5	2118.0	1945.2	1781.1	1627.3
10111.1	52.5°	9293.8	7653.3	2705.4	1851.4	1967.2	2173.7	2079.9	1889.5	1688.8	1527.7
10758.5	55°	9746.4	7791.0	2241.1	1675.7	1858.8	2099.0	2034.5	1823.6	1558.5	1387.1
11202.4	57.5°	10004.2	7679.6	1854.4	1502.8	1709.4	1975.9	1956.9	1683.0	1403.2	1271.4
11288.8	60°	9892.9	7228.5	1538.0	1352.0	1567.3	1842.6	1822.1	1543.8	1284.6	1160.1
10825.9	62.5°	9279.1	6368.7	1287.5	1220.1	1438.4	1706.4	1687.4	1436.9	1193.8	1073.7
9597.0	65°	8042.9	5180.8	1092.7	1110.3	1308.0	1542.4	1570.2	1347.6	1122.0	1004.8
7424.8	67.5°	6134.3	3752.7	940.4	1015.1	1180.6	1381.3	1461.8	1283.1	1061.9	950.6
4296.1	70°	3496.3	2131.2	811.5	922.8	1067.8	1231.8	1378.3	1231.8	997.5	905.2
1609.8	72.5°	1325.6	978.4	701.6	830.5	959.4	1105.9	1286.0	1151.3	922.8	853.9
832.0	75°	707.5	596.2	590.3	722.1	834.9	982.8	1170.3	1072.2	867.1	902.3
575.6	77.5°	481.9	421.8	493.6	618.1	698.7	846.6	1047.3	952.1	751.4	748.5
398.4	80°	334.0	298.8	401.3	498.0	540.5	711.9	914.0	817.3	612.3	571.2
246.1	82.5°	200.7	194.8	300.3	372.0	382.3	549.3	757.3	685.5	500.9	436.5
146.5	85°	109.9	115.7	191.9	218.2	222.6	383.8	593.2	530.2	385.2	323.7
52.7	87.5°	30.8	39.5	70.3	86.4	106.9	199.2	353.0	314.9	193.3	134.8
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>
3610.6
3875.7
4044.2
4092.5
4066.1
4004.6
3919.7
3776.1
3619.4
3519.8
3437.8
3346.9
3245.9
3097.9
2906.1
2662.9
2386.1
2109.2
1893.9
1750.4
1614.1
1510.2
1372.5
1253.8
1142.5
1054.6
985.8
933.0
893.5
842.2
931.6
689.9
546.3
439.4
326.6
134.8
0.0

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