

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: P941169

Luminaire Tested: **GALN-SB4C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941169
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-SB4C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25796 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

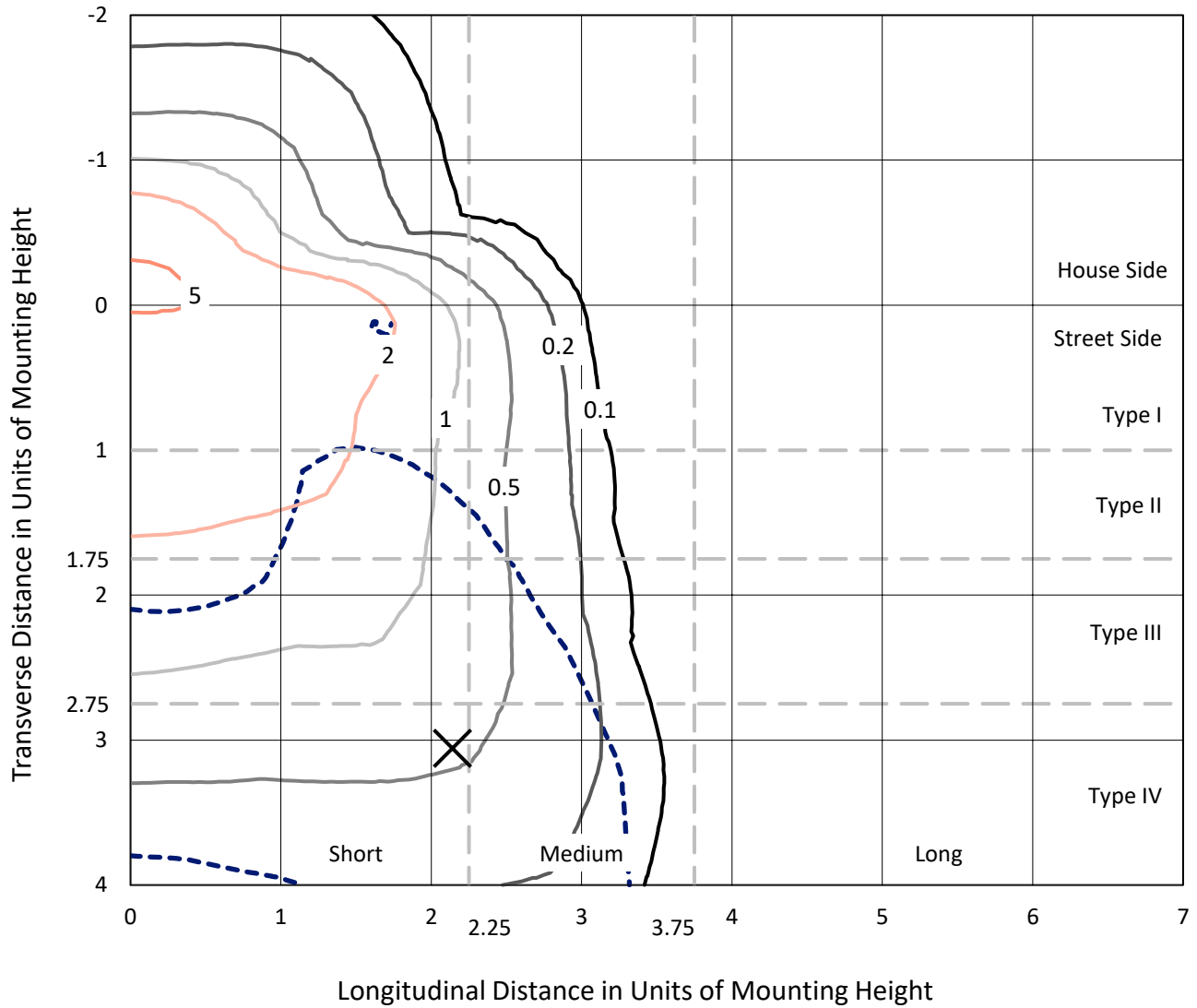
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

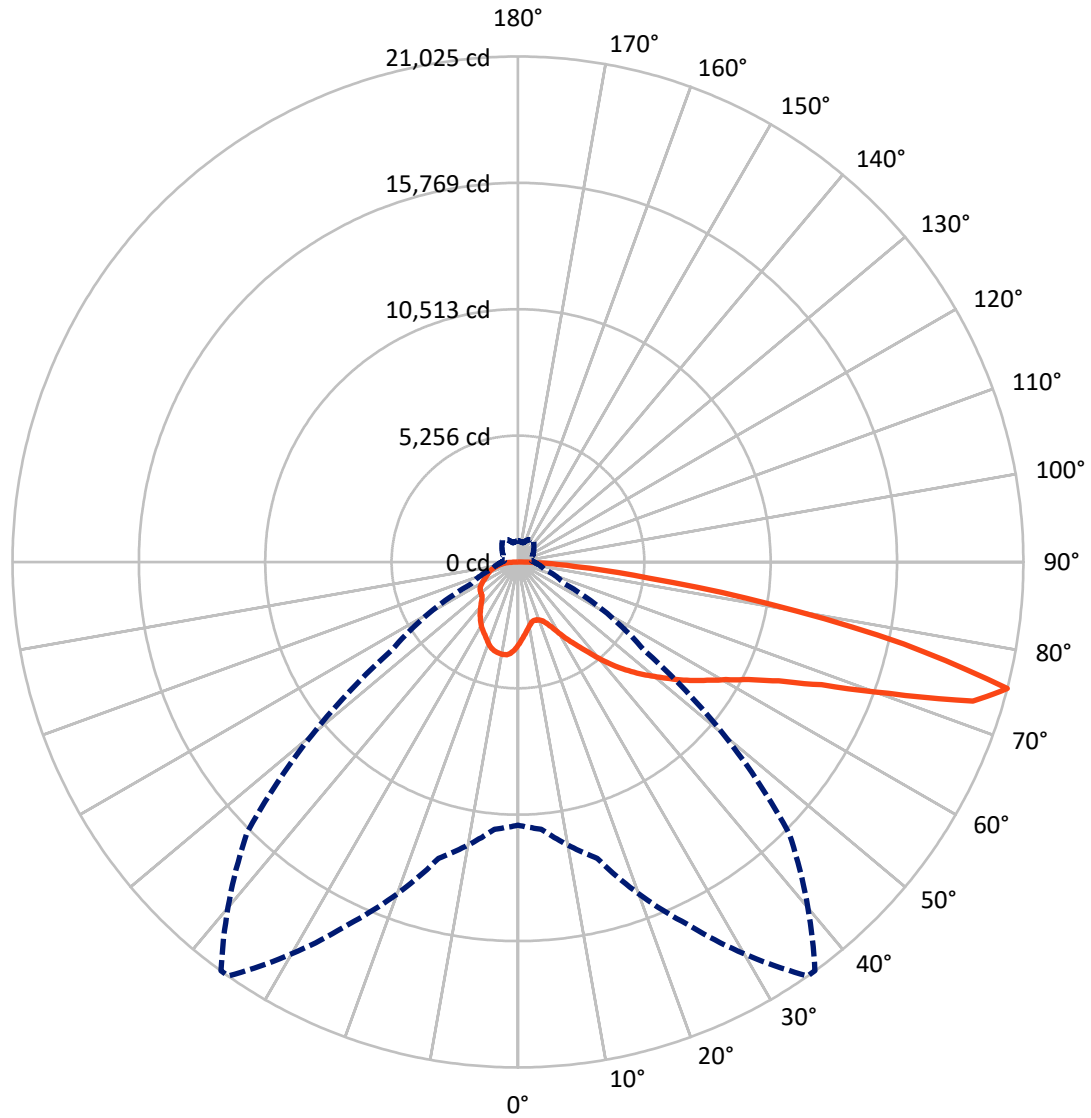
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB4C-827-U-T4FT

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	6138.8	0.0	6138.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19657.2	0.0	19657.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	25796.0	0.0	25796.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.3
10°-20°	938.8	3.6
20°-30°	1576.4	6.1
30°-40°	2450.0	9.5
40°-50°	3636.5	14.1
50°-60°	5020.4	19.5
60°-70°	6090.8	23.6
70°-80°	5033.6	19.5
80°-90°	724.0	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°	25796.0	100.0
0°-180°	25796.0	100.0



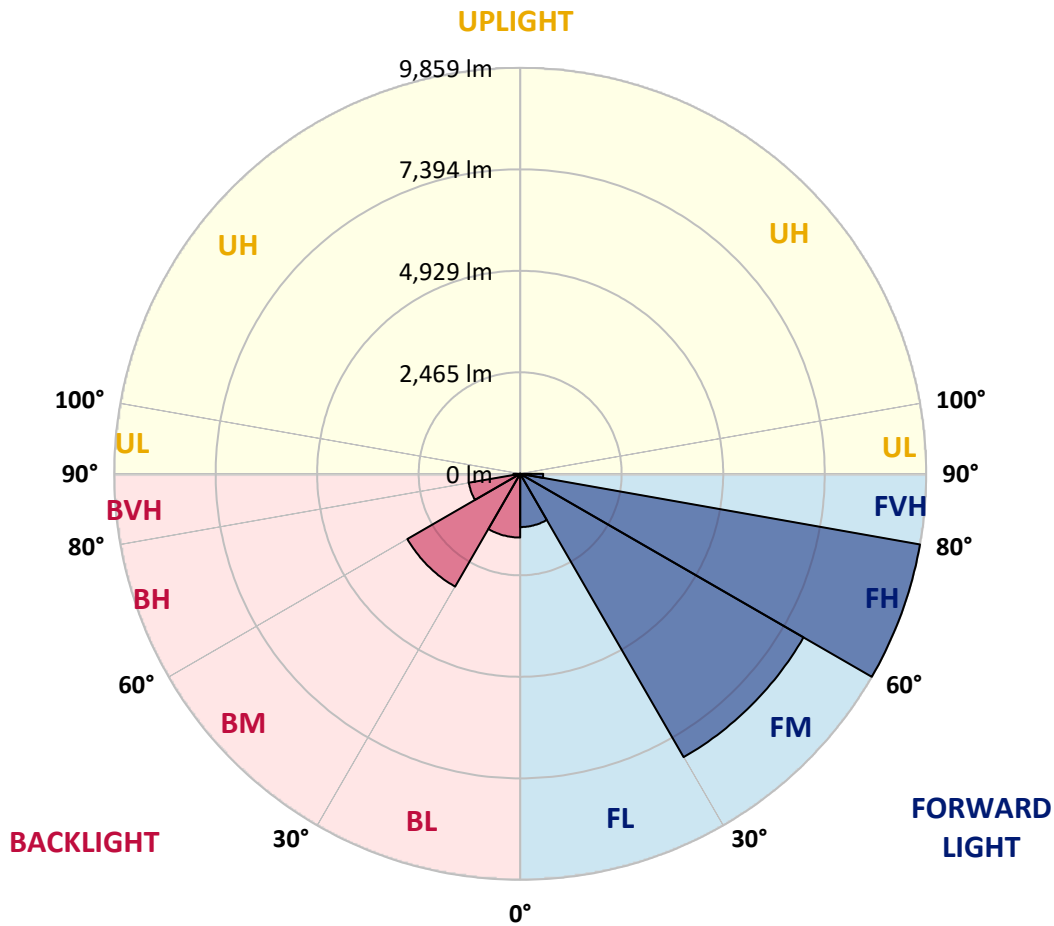
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.6	5.0			
FM (30°-60°)	7943.8	30.8			
FH (60°-80°)	9858.8	38.2			G4/12000
FVH (80°-90°)	561.0	2.2			G4/750
BL (0°-30°)	1547.1	6.0	B3/2500		
BM (30°-60°)	3163.1	12.3	B3/5000		
BH (60°-80°)	1265.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	163.0	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°	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5
2.5°	3169.7	3189.3	3197.6	3193.5	3214.4	3211.6	3240.9	3277.1	3327.3	3376.1
5°	2925.7	2946.6	2964.7	2981.5	3021.9	3034.5	3080.5	3150.2	3242.3	3335.7
7.5°	2698.4	2716.5	2744.4	2775.1	2843.4	2856.0	2932.7	3041.4	3169.7	3306.4
10°	2512.9	2531.1	2560.3	2595.2	2680.3	2695.6	2793.2	2938.3	3105.6	3278.5
12.5°	2433.4	2439.0	2455.7	2490.6	2564.5	2574.3	2681.7	2847.6	3042.8	3257.6
15°	2429.3	2440.4	2441.8	2459.9	2521.3	2525.5	2624.5	2789.0	3003.8	3253.4
17.5°	2471.1	2479.5	2466.9	2478.1	2529.7	2536.6	2614.7	2761.1	2991.2	3271.5
20°	2582.7	2589.6	2552.0	2536.6	2574.3	2579.9	2656.6	2779.3	3003.8	3309.2
22.5°	2819.7	2823.9	2731.9	2669.1	2671.9	2674.7	2741.6	2853.2	3052.6	3377.5
25°	3189.3	3186.5	3040.1	2918.7	2849.0	2833.7	2878.3	2973.1	3134.9	3468.2
27.5°	3621.6	3600.7	3454.2	3272.9	3120.9	3098.6	3088.9	3129.3	3252.0	3588.1
30°	4109.7	4090.1	3932.5	3695.5	3484.9	3448.6	3356.6	3335.7	3426.3	3751.3
32.5°	4645.1	4632.6	4444.3	4157.1	3875.4	3833.5	3678.7	3623.0	3694.1	3998.1
35°	5094.2	5083.0	4926.8	4631.2	4286.8	4235.2	4077.6	4014.8	4051.1	4314.6
37.5°	5500.0	5494.4	5360.5	5127.6	4772.0	4709.3	4532.2	4511.3	4504.3	4731.6
40°	5876.5	5862.6	5723.1	5600.4	5336.8	5279.7	5123.5	5105.3	5052.3	5244.8
42.5°	6293.5	6257.2	6055.0	5997.8	5926.7	5879.3	5785.9	5788.7	5671.5	5823.5
45°	6633.7	6612.8	6405.0	6371.6	6448.3	6428.7	6509.6	6530.5	6303.2	6430.1
47.5°	6999.1	6979.6	6803.9	6780.2	6987.9	6993.5	7279.4	7286.4	6919.6	7060.5
50°	7449.5	7421.6	7247.3	7276.6	7509.5	7530.4	8053.4	8005.9	7487.2	7700.5
52.5°	7746.6	7763.3	7725.6	7773.1	8091.0	8110.5	8814.8	8693.4	8049.2	8332.3
55°	7965.5	7999.0	8116.1	8224.9	8704.6	8724.1	9532.9	9347.5	8514.9	8918.0
57.5°	8247.2	8199.8	8418.7	8630.7	9287.5	9339.1	10231.6	9977.8	8927.7	9422.8
60°	8651.6	8618.1	8788.3	9102.0	9940.1	10022.4	10970.7	10545.4	9230.3	9823.0
62.5°	9471.6	9387.9	9414.4	9691.9	10762.9	10871.7	11804.6	11040.4	9380.9	9979.2
65°	10697.4	10553.7	10419.9	10612.3	11921.8	12029.1	12745.9	11429.5	9325.2	9676.6
67.5°	12241.1	12098.9	11934.3	12115.6	13628.6	13713.7	13907.5	11648.4	8885.9	8510.8
70°	13514.3	13461.3	13657.9	14404.0	16354.9	16357.7	15396.9	11467.1	7682.4	6034.1
72.5°	13345.6	13313.5	14349.6	16656.1	19791.0	19717.1	16806.8	10094.9	5175.1	2722.1
75°	10948.4	11156.2	12761.3	16615.7	21025.2	21015.4	15943.5	6417.6	2140.6	1128.2
77.5°	5870.9	6200.0	8284.8	12267.6	16413.5	16660.3	11209.2	2245.2	919.0	722.4
80°	1914.7	2201.9	3302.2	6246.1	10665.3	10619.3	4804.1	881.3	628.9	511.8
82.5°	813.0	846.5	1475.4	2949.4	5473.5	5388.4	1529.8	506.2	442.1	350.0
85°	318.0	355.6	651.2	1363.8	2370.7	2319.1	552.2	251.0	283.1	228.7
87.5°	104.6	126.9	232.9	467.2	737.7	711.2	135.3	86.5	122.7	104.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941169
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3437.5	0°	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5	3437.5
3447.3	2.5°	3466.8	3489.1	3515.6	3554.6	3588.1	3616.0	3645.3	3663.4	3670.4	3691.3
3452.8	5°	3491.9	3540.7	3606.2	3670.4	3733.1	3770.8	3804.3	3821.0	3836.3	3847.5
3468.2	7.5°	3533.7	3596.5	3699.7	3783.3	3836.3	3867.0	3889.3	3883.7	3889.3	3892.1
3484.9	10°	3570.0	3657.8	3780.5	3860.0	3900.5	3901.9	3896.3	3876.8	3867.0	3868.4
3510.0	12.5°	3613.2	3710.8	3843.3	3910.2	3921.4	3890.7	3867.0	3833.5	3821.0	3815.4
3547.7	15°	3671.8	3783.3	3911.6	3936.7	3908.8	3869.8	3829.4	3775.0	3747.1	3724.8
3611.8	17.5°	3742.9	3865.6	3964.6	3946.5	3886.5	3822.4	3756.8	3674.6	3617.4	3593.7
3699.7	20°	3841.9	3952.1	4005.1	3925.6	3834.9	3737.3	3625.8	3525.3	3472.4	3448.6
3811.2	22.5°	3961.8	4067.8	4044.1	3889.3	3761.0	3604.8	3465.4	3391.5	3365.0	3348.2
3954.9	25°	4105.5	4196.1	4072.0	3836.3	3639.7	3429.1	3321.7	3298.0	3285.5	3272.9
4130.6	27.5°	4292.3	4341.1	4092.9	3758.2	3450.0	3242.3	3203.2	3207.4	3203.2	3182.3
4374.6	30°	4539.2	4529.4	4112.4	3631.3	3232.5	3073.5	3076.3	3094.4	3097.2	3083.3
4714.9	32.5°	4864.1	4765.1	4122.2	3466.8	3024.7	2925.7	2928.5	2948.0	2962.0	2938.3
5159.7	35°	5257.3	5039.8	4106.9	3260.4	2864.3	2784.9	2763.9	2769.5	2773.7	2751.4
5699.4	37.5°	5716.1	5348.0	4038.5	3031.7	2731.9	2646.8	2602.2	2564.5	2542.2	2521.3
6310.2	40°	6219.6	5684.1	3913.0	2808.6	2584.0	2500.4	2433.4	2362.3	2287.0	2259.1
6957.3	42.5°	6746.7	6029.9	3761.0	2595.2	2413.9	2345.6	2274.5	2171.3	2058.3	2001.1
7629.4	45°	7293.3	6384.1	3611.8	2384.6	2239.6	2210.3	2128.0	2003.9	1881.2	1808.7
8303.0	47.5°	7828.8	6718.8	3392.9	2172.7	2076.4	2108.5	2044.4	1930.0	1793.4	1679.0
8970.9	50°	8340.6	7032.6	3034.5	1957.9	1944.0	2077.8	2016.5	1851.9	1695.7	1549.3
9626.4	52.5°	8848.2	7286.4	2575.7	1762.7	1872.8	2069.5	1980.2	1798.9	1607.9	1454.5
10242.7	55°	9279.1	7417.5	2133.6	1595.3	1769.6	1998.3	1937.0	1736.2	1483.8	1320.6
10665.3	57.5°	9524.6	7311.5	1765.5	1430.8	1627.4	1881.2	1863.1	1602.3	1336.0	1210.4
10747.6	60°	9418.6	6882.0	1464.2	1287.1	1492.1	1754.3	1734.8	1469.8	1223.0	1104.5
10306.9	62.5°	8834.3	6063.4	1225.8	1161.6	1369.4	1624.6	1606.5	1368.0	1136.5	1022.2
9136.9	65°	7657.3	4932.4	1040.3	1057.0	1245.3	1468.4	1494.9	1283.0	1068.2	956.6
7068.8	67.5°	5840.2	3572.8	895.3	966.4	1124.0	1315.0	1391.7	1221.6	1011.0	905.0
4090.1	70°	3328.7	2029.0	772.6	878.5	1016.6	1172.8	1312.2	1172.8	949.7	861.8
1532.6	72.5°	1262.0	931.5	668.0	790.7	913.4	1052.9	1224.4	1096.1	878.5	813.0
792.1	75°	673.6	567.6	562.0	687.5	794.9	935.7	1114.2	1020.8	825.6	859.0
548.0	77.5°	458.8	401.6	470.0	588.5	665.2	806.0	997.1	906.4	715.4	712.6
379.3	80°	318.0	284.5	382.1	474.1	514.6	677.7	870.2	778.1	582.9	543.9
234.3	82.5°	191.0	185.5	285.9	354.2	364.0	522.9	721.0	652.6	476.9	415.6
139.5	85°	104.6	110.2	182.7	207.8	212.0	365.4	564.8	504.8	366.8	308.2
50.2	87.5°	29.3	37.7	66.9	82.3	101.8	189.7	336.1	299.8	184.1	128.3
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>
3437.5
3689.9
3850.3
3896.3
3871.2
3812.6
3731.7
3595.1
3445.9
3351.0
3272.9
3186.5
3090.3
2949.4
2766.7
2535.2
2271.7
2008.1
1803.1
1666.5
1536.8
1437.7
1306.7
1193.7
1087.7
1004.1
938.5
888.3
850.7
801.8
<i>886.9</i>
656.8
520.2
418.4
311.0
128.3
0.0

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