

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: P950749

Luminaire Tested: **GALN-SB5A-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21577 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

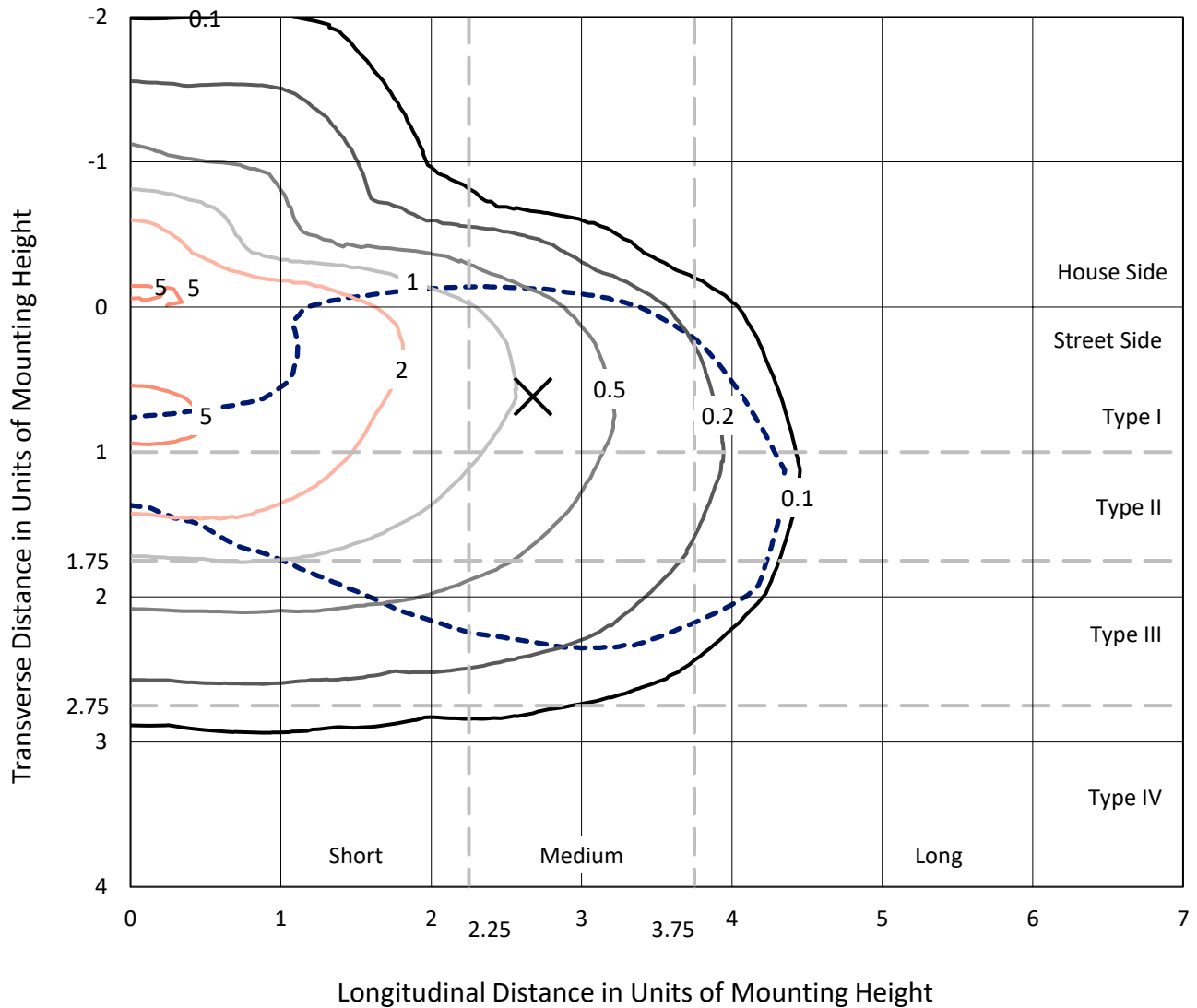
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

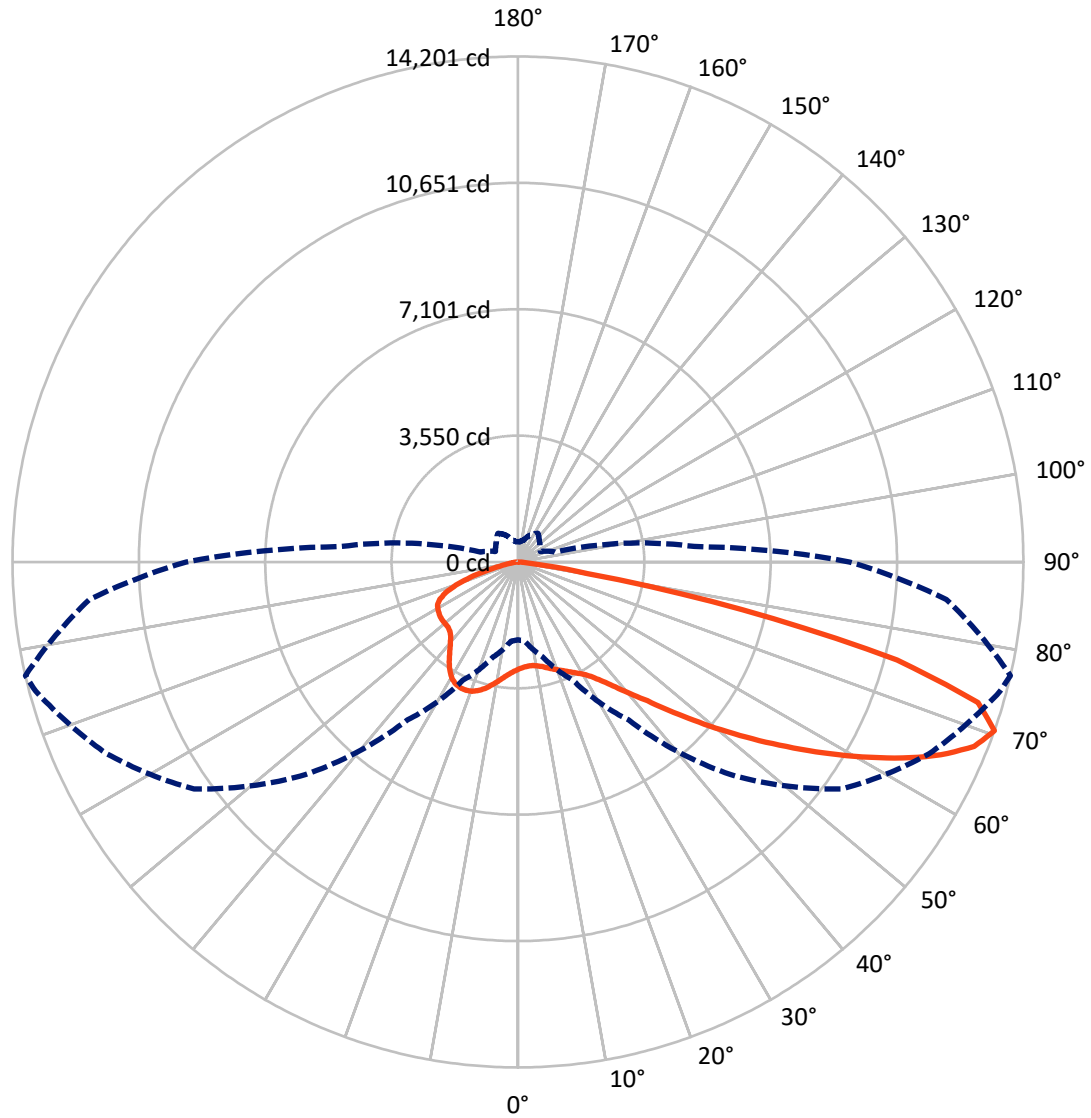
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4725.0	0.0	4725.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16852.0	0.0	16852.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	21577.0	0.0	21577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.3
10°-20°	828.6	3.8
20°-30°	1417.0	6.6
30°-40°	2278.6	10.6
40°-50°	3557.6	16.5
50°-60°	4752.1	22.0
60°-70°	5064.9	23.5
70°-80°	3118.0	14.5
80°-90°	273.2	1.3
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°	21577.0	100.0
0°-180°	21577.0	100.0

Coefficient of Utilization



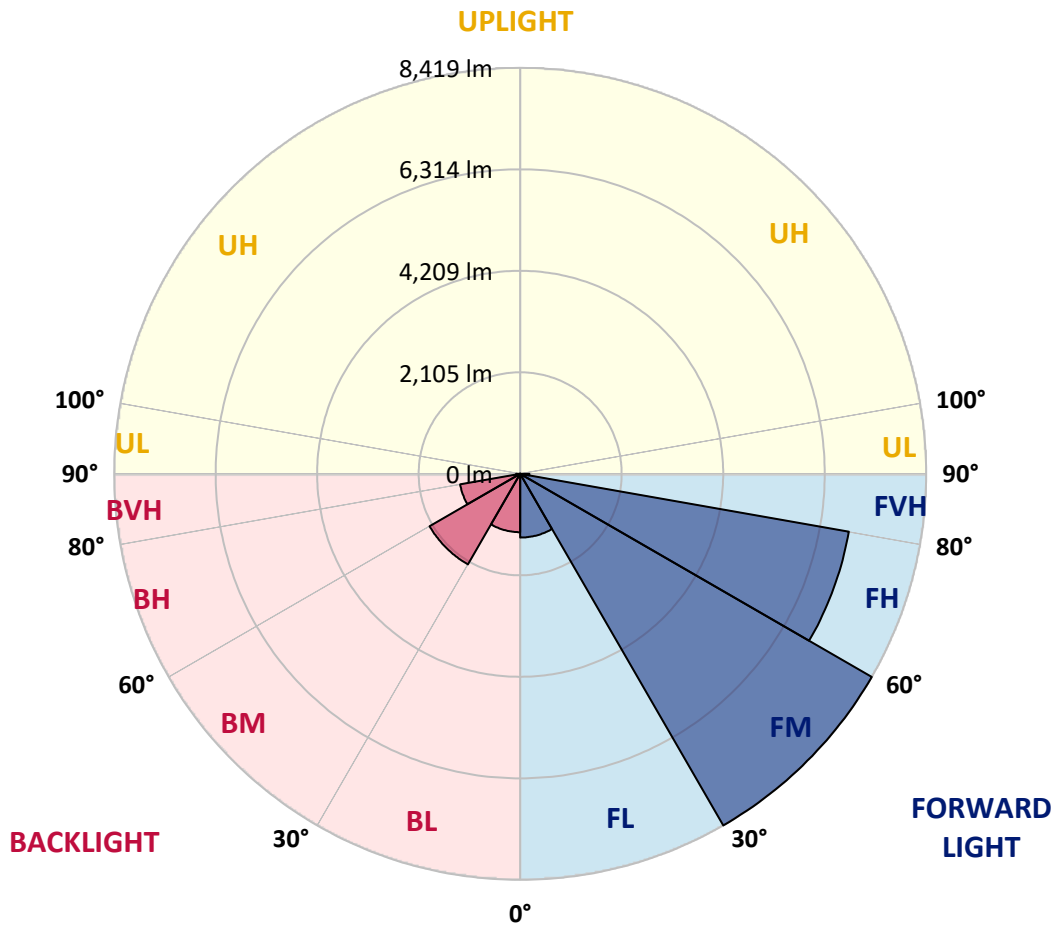
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.9	6.1			
FM (30°-60°)	8418.9	39.0			
FH (60°-80°)	6920.1	32.1			G3/7500
FVH (80°-90°)	191.1	0.9			G2/225
BL (0°-30°)	1210.7	5.6	B3/2500		
BM (30°-60°)	2169.4	10.1	B2/2500		
BH (60°-80°)	1262.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	82.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2
2.5°	2774.8	2773.7	2788.1	2792.5	2819.0	2837.8	2873.2	2910.7	2959.4	2964.9
5°	2614.6	2614.6	2631.2	2648.8	2683.1	2720.7	2774.8	2840.0	2924.0	2937.3
7.5°	2478.7	2487.5	2501.9	2536.1	2575.9	2630.0	2712.9	2805.8	2916.3	2937.3
10°	2369.3	2379.2	2396.9	2424.5	2484.2	2559.3	2667.6	2787.0	2935.0	2968.2
12.5°	2335.0	2344.9	2354.9	2375.9	2431.1	2519.5	2648.8	2795.8	2980.4	3013.5
15°	2414.6	2426.7	2419.0	2413.5	2442.2	2522.9	2657.7	2827.9	3036.7	3084.2
17.5°	2598.0	2602.4	2584.7	2532.8	2528.4	2571.5	2699.7	2872.1	3107.4	3159.4
20°	2894.2	2886.4	2850.0	2747.2	2688.6	2679.8	2771.5	2938.4	3180.4	3235.6
22.5°	3296.4	3287.6	3214.6	3052.2	2921.8	2835.6	2875.4	3024.6	3262.1	3324.0
25°	3798.1	3785.9	3678.8	3457.7	3255.5	3042.2	3016.8	3138.4	3362.7	3420.2
27.5°	4383.8	4373.8	4257.8	3966.1	3674.3	3325.1	3192.5	3272.1	3467.7	3532.9
30°	5013.7	5042.4	4836.9	4523.0	4153.9	3694.2	3429.0	3436.7	3603.6	3662.2
32.5°	5754.1	5803.8	5556.3	5158.4	4654.5	4095.4	3727.4	3666.6	3801.4	3850.0
35°	6487.8	6544.2	6338.6	5898.8	5318.7	4568.3	4039.0	3930.7	4064.4	4117.5
37.5°	7122.1	7197.3	7091.2	6708.8	6029.2	5138.5	4445.7	4241.2	4388.2	4454.5
40°	7622.7	7737.6	7729.9	7491.2	6866.9	5830.3	4961.7	4624.7	4790.4	4862.3
42.5°	8029.4	8128.8	8215.0	8202.9	7741.0	6616.0	5568.4	5123.1	5249.0	5331.9
45°	8310.1	8416.2	8601.8	8801.8	8581.9	7457.0	6263.5	5714.3	5829.2	5954.1
47.5°	8560.9	8681.4	8922.3	9239.4	9295.8	8301.2	7024.9	6402.7	6507.7	6637.0
50°	8583.0	8686.9	9060.4	9510.2	9803.0	9112.3	7842.6	7175.2	7273.5	7411.6
52.5°	8049.3	8212.8	8864.8	9502.4	10036.2	9790.8	8654.8	7978.5	8089.1	8254.8
55°	6248.0	6487.8	8291.3	9206.3	9953.3	10229.6	9427.3	8832.8	8974.2	9147.7
57.5°	5381.7	5486.6	6581.7	8667.0	9575.4	10343.4	10079.3	9695.8	9923.5	10113.5
60°	4836.9	4924.2	5571.7	7828.3	9078.1	10163.3	10583.2	10500.3	10893.7	11120.2
62.5°	4253.4	4336.3	4925.3	6536.4	8441.6	9863.8	10901.4	11242.9	11888.3	12135.8
65°	3674.3	3745.1	4309.7	5492.2	7632.7	9564.3	11066.1	11884.9	12808.8	13065.1
67.5°	3029.0	3087.5	3621.3	4633.5	6649.2	9154.3	11147.9	12390.0	13609.9	13829.8
70°	2185.8	2231.1	2782.5	3664.4	5414.8	8449.3	11114.7	12748.0	14025.4	14201.1
72.5°	1033.2	1074.1	1721.7	2379.2	3824.6	7076.8	10443.9	12464.0	13603.3	13516.0
75°	551.4	586.8	989.0	1305.1	2020.1	4851.2	8546.5	10736.8	11423.0	10998.7
77.5°	373.5	401.1	612.2	783.5	922.7	2302.9	5493.3	7433.8	7152.0	6451.4
80°	296.2	324.9	501.7	530.4	446.4	832.1	2269.8	3441.2	2472.0	1977.0
82.5°	227.6	259.7	422.1	384.6	243.1	341.5	660.8	1088.5	633.2	481.8
85°	139.2	173.5	331.5	245.3	137.0	155.8	224.3	302.8	193.4	161.3
87.5°	70.7	99.5	168.0	89.5	61.9	36.5	59.7	59.7	50.8	44.2
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°
3010.2	0°	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2	3010.2
2994.7	2.5°	3021.2	3043.3	3080.9	3116.3	3143.9	3170.4	3196.9	3211.3	3215.7	3233.4
3011.3	5°	3056.6	3097.5	3170.4	3238.9	3282.0	3308.6	3327.3	3338.4	3340.6	3346.1
3056.6	7.5°	3121.8	3187.0	3288.7	3357.2	3389.2	3387.0	3379.3	3351.7	3340.6	3330.7
3122.9	10°	3213.5	3299.7	3424.6	3472.1	3452.2	3399.2	3330.7	3250.0	3212.4	3175.9
3213.5	12.5°	3327.3	3436.7	3559.4	3557.2	3458.8	3322.9	3163.8	3040.0	2961.6	2905.2
3325.1	15°	3465.5	3591.5	3685.4	3610.2	3394.7	3150.5	2917.4	2756.0	2685.3	2623.4
3437.8	17.5°	3608.0	3742.8	3785.9	3593.7	3233.4	2895.3	2631.2	2504.1	2434.5	2401.3
3559.4	20°	3747.3	3881.0	3845.6	3498.6	2988.1	2605.7	2370.4	2300.7	2286.4	2294.1
3677.6	22.5°	3894.2	4013.6	3857.8	3315.2	2675.4	2309.6	2180.3	2182.5	2214.5	2237.8
3801.4	25°	4044.5	4125.2	3825.7	3050.0	2339.4	2091.9	2059.8	2095.2	2158.2	2203.5
3940.7	27.5°	4189.3	4224.7	3756.1	2721.8	2051.0	1936.1	1941.6	2014.5	2109.6	2172.6
4109.7	30°	4352.8	4313.1	3622.4	2352.7	1851.0	1802.4	1848.8	1933.9	2028.9	2085.3
4323.0	32.5°	4537.4	4389.3	3410.2	2011.2	1709.5	1695.2	1771.4	1826.7	1868.7	1885.2
4605.9	35°	4767.2	4496.5	3138.4	1771.4	1582.4	1616.7	1689.6	1662.0	1645.4	1636.6
4986.0	37.5°	5065.6	4641.3	2820.1	1615.6	1479.7	1560.3	1590.2	1504.0	1438.8	1406.7
5446.8	40°	5424.7	4853.4	2514.0	1495.1	1414.5	1511.7	1459.8	1355.9	1273.0	1227.7
5965.1	42.5°	5823.7	5075.5	2256.5	1404.5	1378.0	1471.9	1363.6	1239.9	1106.2	1091.8
6582.9	45°	6242.5	5304.3	2080.8	1334.9	1360.3	1437.7	1308.4	1108.4	1013.3	1071.9
7202.8	47.5°	6661.3	5514.3	1974.7	1283.0	1351.5	1399.0	1259.8	1035.4	968.0	1053.1
7866.9	50°	7127.6	5702.1	1927.2	1245.4	1341.5	1383.5	1186.8	1016.7	920.5	976.9
8554.3	52.5°	7590.7	5848.0	1891.9	1207.8	1327.2	1371.4	1151.5	994.6	863.1	866.4
9246.1	55°	8052.6	5943.0	1853.2	1158.1	1295.1	1344.9	1148.2	970.2	820.0	804.5
9977.6	57.5°	8545.4	5997.2	1805.7	1102.9	1239.9	1277.5	1144.8	951.5	806.7	781.3
10725.7	60°	9047.1	6076.7	1743.8	1035.4	1165.8	1196.8	1137.1	944.8	799.0	755.9
11430.8	62.5°	9496.9	6104.4	1669.7	971.3	1070.8	1117.2	1120.5	939.3	778.0	703.9
12016.4	65°	9792.0	5985.0	1540.5	898.4	968.0	1035.4	1088.5	920.5	740.4	666.4
12306.0	67.5°	9779.8	5644.7	1338.2	804.5	868.6	944.8	1042.1	888.5	695.1	619.9
12087.2	70°	9324.5	4972.8	1081.9	695.1	759.2	847.6	982.4	841.0	640.9	569.1
10747.8	72.5°	7997.3	3892.0	785.7	566.9	632.1	747.0	905.0	783.5	585.7	523.8
7943.2	75°	5713.2	2463.2	532.6	435.4	491.8	633.2	808.9	716.1	534.8	526.0
3978.2	77.5°	2918.5	1176.9	352.5	318.3	342.6	499.5	679.6	639.8	542.6	434.3
1131.6	80°	949.2	434.3	222.1	216.6	227.6	332.6	526.0	524.9	411.1	295.1
274.1	82.5°	302.8	186.8	144.8	139.2	133.7	208.9	366.9	415.5	277.4	186.8
98.4	85°	120.5	111.6	85.1	78.5	56.4	98.4	192.3	276.3	206.6	134.8
25.4	87.5°	44.2	44.2	23.2	16.6	12.2	33.2	51.9	82.9	118.2	69.6
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>
3010.2
3243.4
3355.0
3332.9
3164.9
2891.9
2616.8
2411.2
2290.8
2243.3
2215.6
2188.0
2098.5
1894.1
1645.4
1414.5
1231.0
1106.2
1102.9
1092.9
1018.9
889.6
815.5
784.6
759.2
703.9
666.4
623.3
575.7
520.5
496.2
386.8
260.8
185.7
138.1
68.5
0.0

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