

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: P948145

Luminaire Tested: **GALN-SB3B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948145
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-SB3B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18350 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

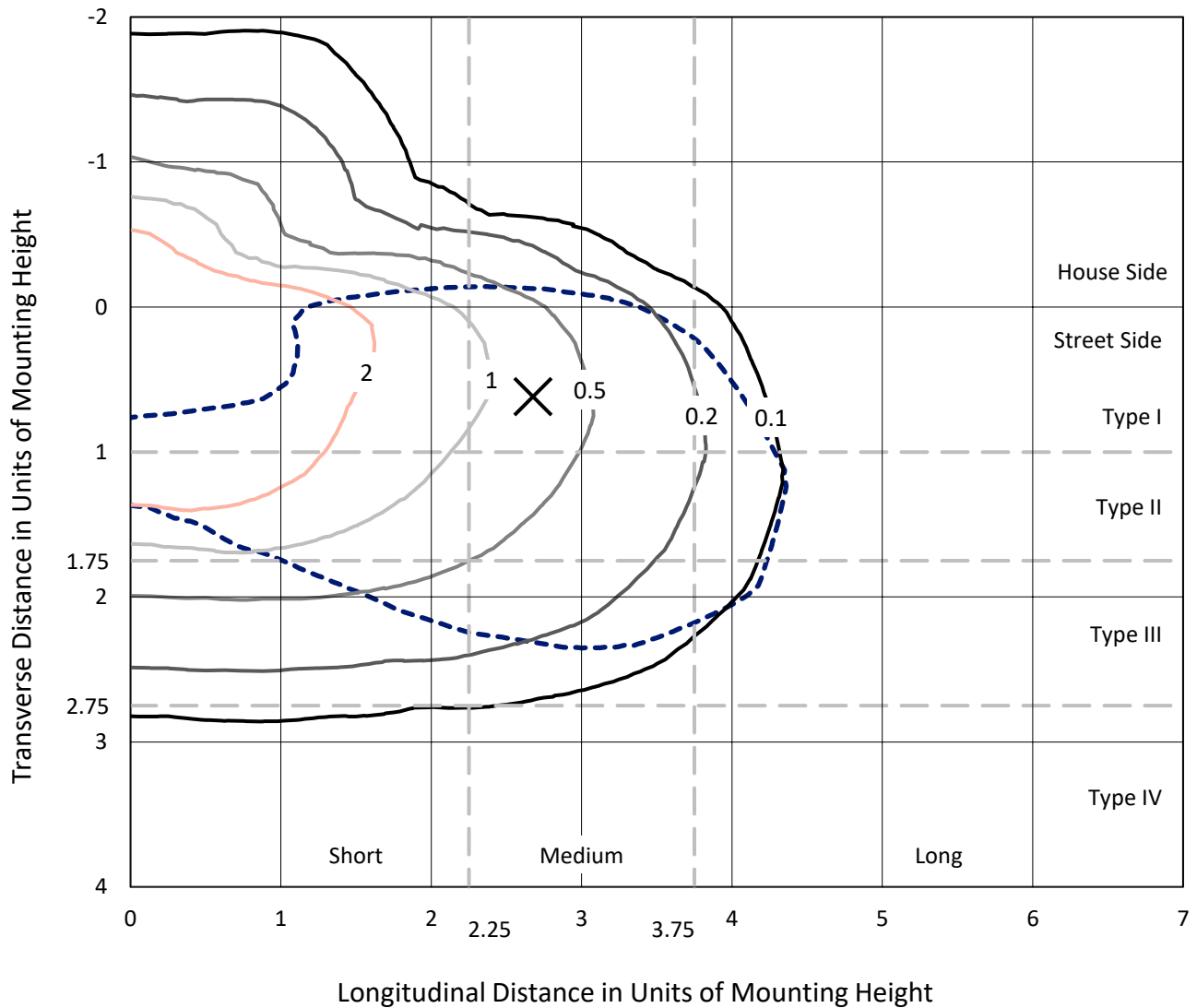
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

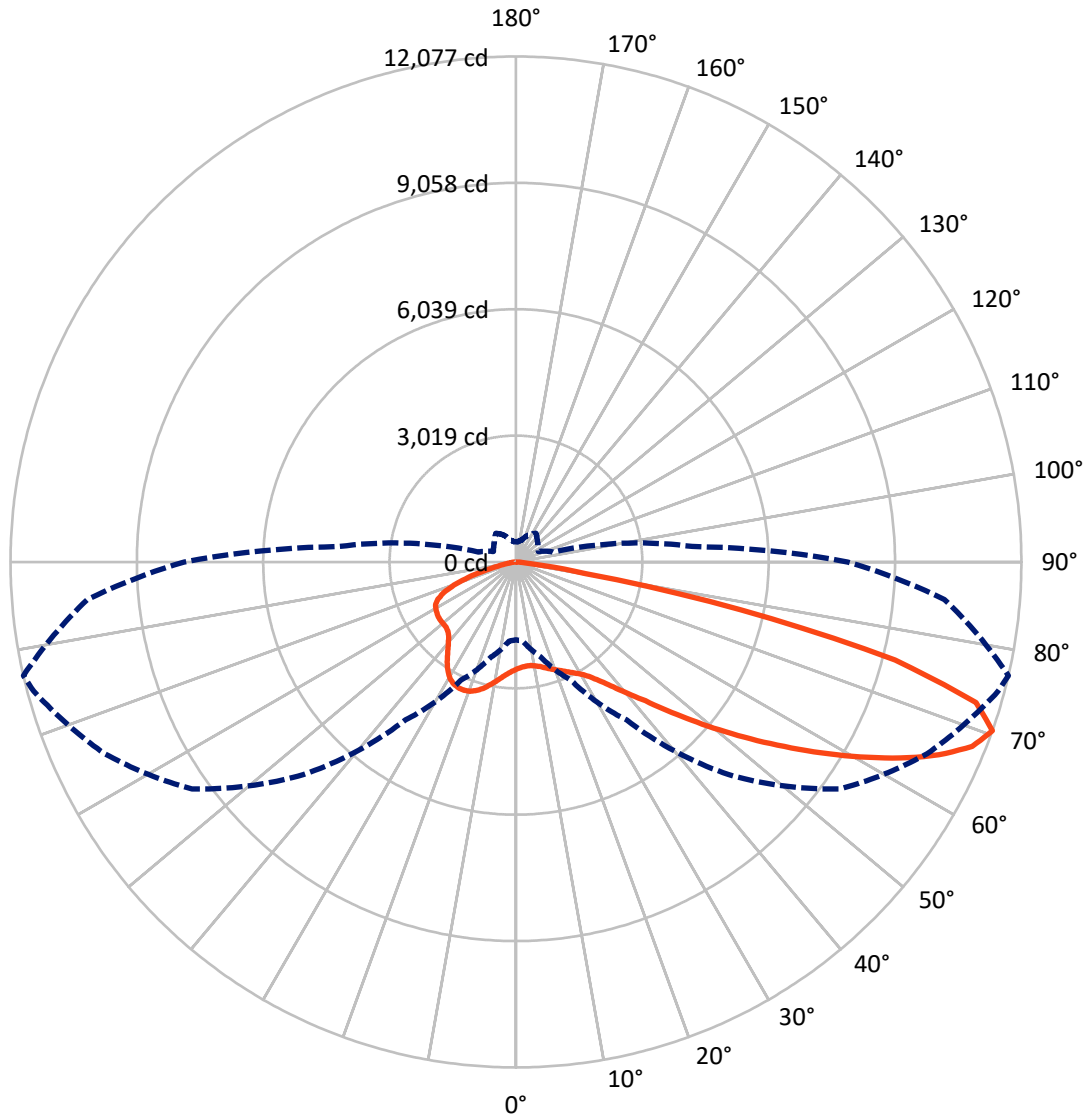
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4018.4	0.0	4018.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14331.6	0.0	14331.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	18350.0	0.0	18350.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.3
10°-20°	704.7	3.8
20°-30°	1205.1	6.6
30°-40°	1937.8	10.6
40°-50°	3025.5	16.5
50°-60°	4041.3	22.0
60°-70°	4307.4	23.5
70°-80°	2651.6	14.5
80°-90°	232.3	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°	18350.0	100.0
0°-180°	18350.0	100.0



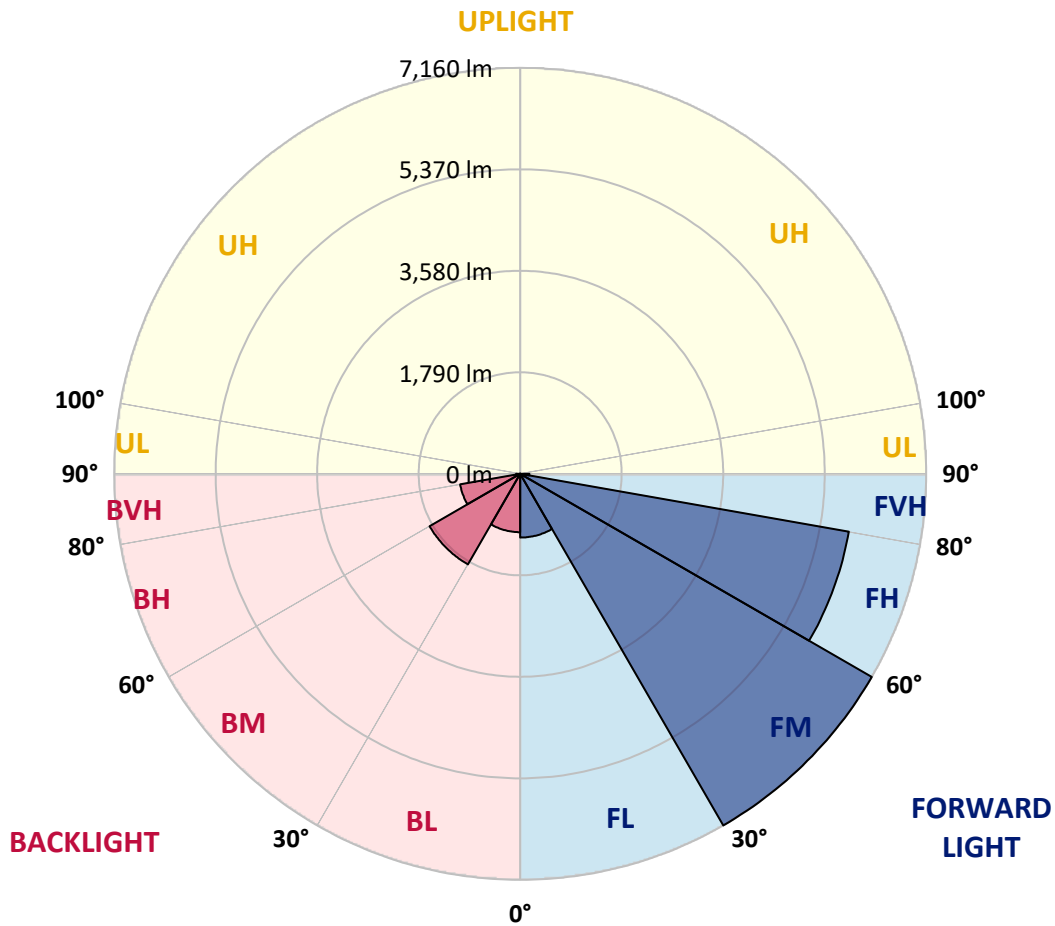
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.2	6.1			
FM (30°-60°)	7159.8	39.0			
FH (60°-80°)	5885.1	32.1			G3/7500
FVH (80°-90°)	162.5	0.9			G2/225
BL (0°-30°)	1029.6	5.6	B3/2500		
BM (30°-60°)	1844.9	10.1	B2/2500		
BH (60°-80°)	1073.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	69.9	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°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2.5°	2359.8	2358.9	2371.1	2374.9	2397.4	2413.4	2443.5	2475.4	2516.8	2521.5
5°	2223.5	2223.5	2237.6	2252.7	2281.8	2313.8	2359.8	2415.3	2486.7	2498.0
7.5°	2108.0	2115.5	2127.7	2156.8	2190.7	2236.7	2307.2	2386.1	2480.1	2498.0
10°	2014.9	2023.4	2038.4	2061.9	2112.7	2176.6	2268.7	2370.2	2496.1	2524.3
12.5°	1985.8	1994.2	2002.7	2020.6	2067.5	2142.7	2252.7	2377.7	2534.6	2562.8
15°	2053.4	2063.8	2057.2	2052.5	2076.9	2145.5	2260.2	2404.9	2582.5	2623.0
17.5°	2209.5	2213.2	2198.2	2154.0	2150.2	2186.9	2295.9	2442.5	2642.7	2686.9
20°	2461.3	2454.7	2423.7	2336.3	2286.5	2279.0	2357.0	2498.9	2704.7	2751.7
22.5°	2803.4	2795.9	2733.9	2595.7	2484.8	2411.5	2445.3	2572.2	2774.3	2826.9
25°	3230.1	3219.7	3128.6	2940.6	2768.6	2587.2	2565.6	2669.0	2859.8	2908.7
27.5°	3728.2	3719.7	3621.0	3372.9	3124.8	2827.8	2715.1	2782.7	2949.1	3004.5
30°	4263.8	4288.3	4113.5	3846.6	3532.7	3141.7	2916.2	2922.8	3064.7	3114.5
32.5°	4893.5	4935.8	4725.3	4386.9	3958.4	3482.9	3169.9	3118.2	3232.9	3274.2
35°	5517.5	5565.4	5390.6	5016.6	4523.2	3885.1	3434.9	3342.8	3456.6	3501.7
37.5°	6057.0	6120.9	6030.6	5705.5	5127.5	4370.0	3780.8	3606.9	3731.9	3788.3
40°	6482.7	6580.4	6573.8	6370.8	5839.9	4958.3	4219.7	3933.0	4074.0	4135.1
42.5°	6828.5	6913.1	6986.4	6976.1	6583.2	5626.5	4735.6	4356.9	4464.0	4534.5
45°	7067.2	7157.5	7315.3	7485.4	7298.4	6341.7	5326.7	4859.7	4957.4	5063.6
47.5°	7280.6	7383.0	7587.9	7857.6	7905.5	7059.7	5974.3	5445.2	5534.4	5644.4
50°	7299.4	7387.7	7705.4	8087.8	8336.9	7749.5	6669.7	6102.1	6185.7	6303.2
52.5°	6845.4	6984.5	7539.0	8081.3	8535.2	8326.6	7360.4	6785.3	6879.3	7020.2
55°	5313.6	5517.5	7051.3	7829.4	8464.7	8699.7	8017.4	7511.8	7632.0	7779.6
57.5°	4576.8	4666.1	5597.4	7370.8	8143.3	8796.4	8571.8	8245.7	8439.3	8601.0
60°	4113.5	4187.7	4738.4	6657.5	7720.4	8643.3	9000.4	8929.9	9264.5	9457.1
62.5°	3617.3	3687.7	4188.7	5558.9	7179.1	8388.6	9271.0	9561.4	10110.3	10320.8
65°	3124.8	3185.0	3665.2	4670.8	6491.1	8133.9	9411.1	10107.5	10893.1	11111.2
67.5°	2576.0	2625.8	3079.7	3940.5	5654.7	7785.2	9480.6	10536.9	11574.5	11761.5
70°	1858.9	1897.4	2366.4	3116.3	4605.0	7185.6	9452.4	10841.4	11927.8	12077.3
72.5°	878.7	913.5	1464.2	2023.4	3252.6	6018.4	8882.0	10599.9	11568.8	11494.6
75°	469.0	499.0	841.1	1109.9	1717.9	4125.7	7268.3	9131.0	9714.6	9353.7
77.5°	317.6	341.1	520.6	666.3	784.7	1958.5	4671.7	6322.0	6082.3	5486.5
80°	251.9	276.3	426.7	451.1	379.7	707.7	1930.3	2926.5	2102.3	1681.3
82.5°	193.6	220.9	359.0	327.0	206.8	290.4	562.0	925.7	538.5	409.7
85°	118.4	147.5	281.9	208.6	116.5	132.5	190.8	257.5	164.5	137.2
87.5°	60.1	84.6	142.8	76.1	52.6	31.0	50.7	50.7	43.2	37.6
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°
2560.0	0°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2546.8	2.5°	2569.4	2588.2	2620.1	2650.2	2673.7	2696.3	2718.8	2731.0	2734.8	2749.8
2560.9	5°	2599.5	2634.2	2696.3	2754.5	2791.2	2813.7	2829.7	2839.1	2841.0	2845.7
2599.5	7.5°	2654.9	2710.4	2796.8	2855.1	2882.3	2880.5	2873.9	2850.4	2841.0	2832.5
2655.9	10°	2732.9	2806.2	2912.4	2952.8	2935.9	2890.8	2832.5	2763.9	2732.0	2701.0
2732.9	12.5°	2829.7	2922.8	3027.1	3025.2	2941.5	2826.0	2690.6	2585.4	2518.6	2470.7
2827.8	15°	2947.2	3054.3	3134.2	3070.3	2887.0	2679.3	2481.0	2343.8	2283.7	2231.1
2923.7	17.5°	3068.4	3183.1	3219.7	3056.2	2749.8	2462.3	2237.6	2129.6	2070.4	2042.2
3027.1	20°	3186.8	3300.5	3270.5	2975.4	2541.2	2216.0	2015.9	1956.6	1944.4	1951.0
3127.6	22.5°	3311.8	3413.3	3280.8	2819.4	2275.2	1964.2	1854.2	1856.1	1883.3	1903.1
3232.9	25°	3439.6	3508.2	3253.6	2593.8	1989.5	1779.0	1751.8	1781.8	1835.4	1873.9
3351.3	27.5°	3562.8	3592.8	3194.4	2314.7	1744.3	1646.5	1651.2	1713.2	1794.1	1847.6
3495.1	30°	3701.8	3668.0	3080.6	2000.8	1574.2	1532.8	1572.3	1644.6	1725.5	1773.4
3676.5	32.5°	3858.8	3732.9	2900.2	1710.4	1453.9	1441.6	1506.5	1553.5	1589.2	1603.3
3917.1	35°	4054.3	3824.0	2669.0	1506.5	1345.8	1374.9	1436.9	1413.4	1399.3	1391.8
4240.3	37.5°	4308.0	3947.1	2398.3	1374.0	1258.4	1327.0	1352.4	1279.1	1223.6	1196.4
4632.2	40°	4613.4	4127.6	2138.0	1271.5	1202.9	1285.6	1241.5	1153.1	1082.6	1044.1
5073.0	42.5°	4952.7	4316.5	1919.1	1194.5	1171.9	1251.8	1159.7	1054.4	940.7	928.5
5598.3	45°	5308.9	4511.0	1769.6	1135.3	1156.9	1222.7	1112.7	942.6	861.8	911.6
6125.6	47.5°	5665.1	4689.6	1679.4	1091.1	1149.4	1189.8	1071.4	880.6	823.3	895.6
6690.4	50°	6061.7	4849.3	1639.0	1059.1	1140.9	1176.6	1009.3	864.6	782.8	830.8
7274.9	52.5°	6455.4	4973.4	1608.9	1027.2	1128.7	1166.3	979.3	845.8	734.0	736.8
7863.2	55°	6848.3	5054.2	1576.0	984.9	1101.4	1143.7	976.4	825.1	697.3	684.2
8485.4	57.5°	7267.4	5100.2	1535.6	937.9	1054.4	1086.4	973.6	809.2	686.0	664.4
9121.6	60°	7694.1	5167.9	1483.0	880.6	991.5	1017.8	967.0	803.5	679.5	642.8
9721.2	62.5°	8076.6	5191.4	1420.0	826.1	910.7	950.1	952.9	798.8	661.6	598.6
10219.3	65°	8327.5	5089.9	1310.1	764.1	823.3	880.6	925.7	782.8	629.7	566.7
10465.5	67.5°	8317.2	4800.5	1138.1	684.2	738.7	803.5	886.2	755.6	591.1	527.2
10279.4	70°	7930.0	4229.1	920.1	591.1	645.6	720.8	835.5	715.2	545.1	484.0
9140.4	72.5°	6801.3	3309.9	668.2	482.1	537.6	635.3	769.7	666.3	498.1	445.5
6755.2	75°	4858.7	2094.8	453.0	370.3	418.2	538.5	687.9	609.0	454.9	447.3
3383.2	77.5°	2482.0	1000.9	299.8	270.7	291.3	424.8	578.0	544.1	461.4	369.3
962.3	80°	807.3	369.3	188.9	184.2	193.6	282.9	447.3	446.4	349.6	250.9
233.1	82.5°	257.5	158.8	123.1	118.4	113.7	177.6	312.0	353.4	235.9	158.8
83.6	85°	102.4	94.9	72.4	66.7	47.9	83.6	163.5	234.9	175.7	114.7
21.6	87.5°	37.6	37.6	19.7	14.1	10.3	28.2	44.2	70.5	100.6	59.2
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>
2560.0
2758.3
2853.2
2834.4
2691.6
2459.4
2225.4
2050.6
1948.2
1907.8
1884.3
1860.8
1784.7
1610.8
1399.3
1202.9
1046.9
940.7
937.9
929.5
866.5
756.5
693.6
667.3
645.6
598.6
566.7
530.0
489.6
442.6
422.0
328.9
221.8
157.9
117.5
58.3
0.0

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