

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: P941247

Luminaire Tested: **GALN-SB4C-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

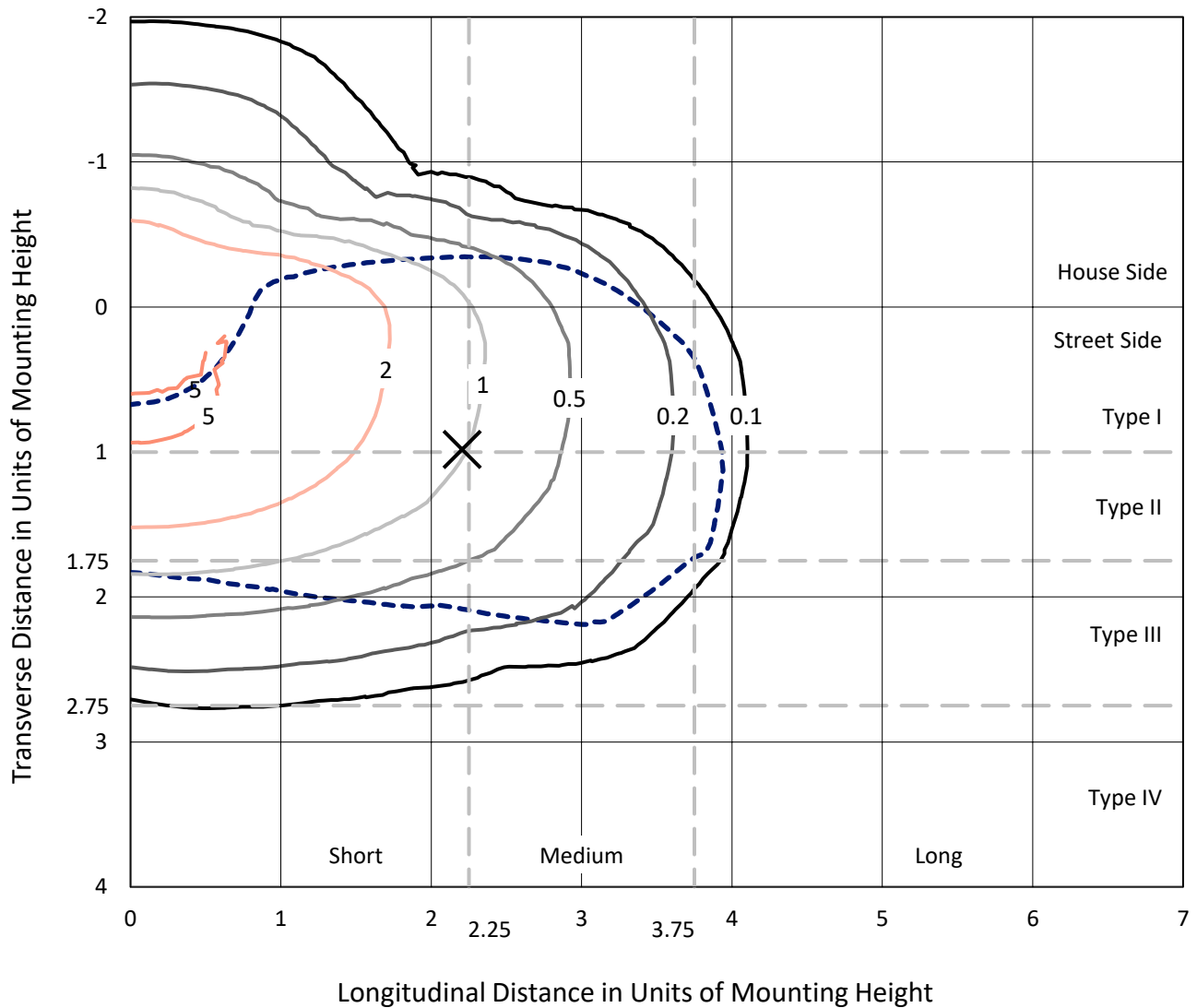
Lumens per Lamp: N/A  
Luminaire Lumens: 21764 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

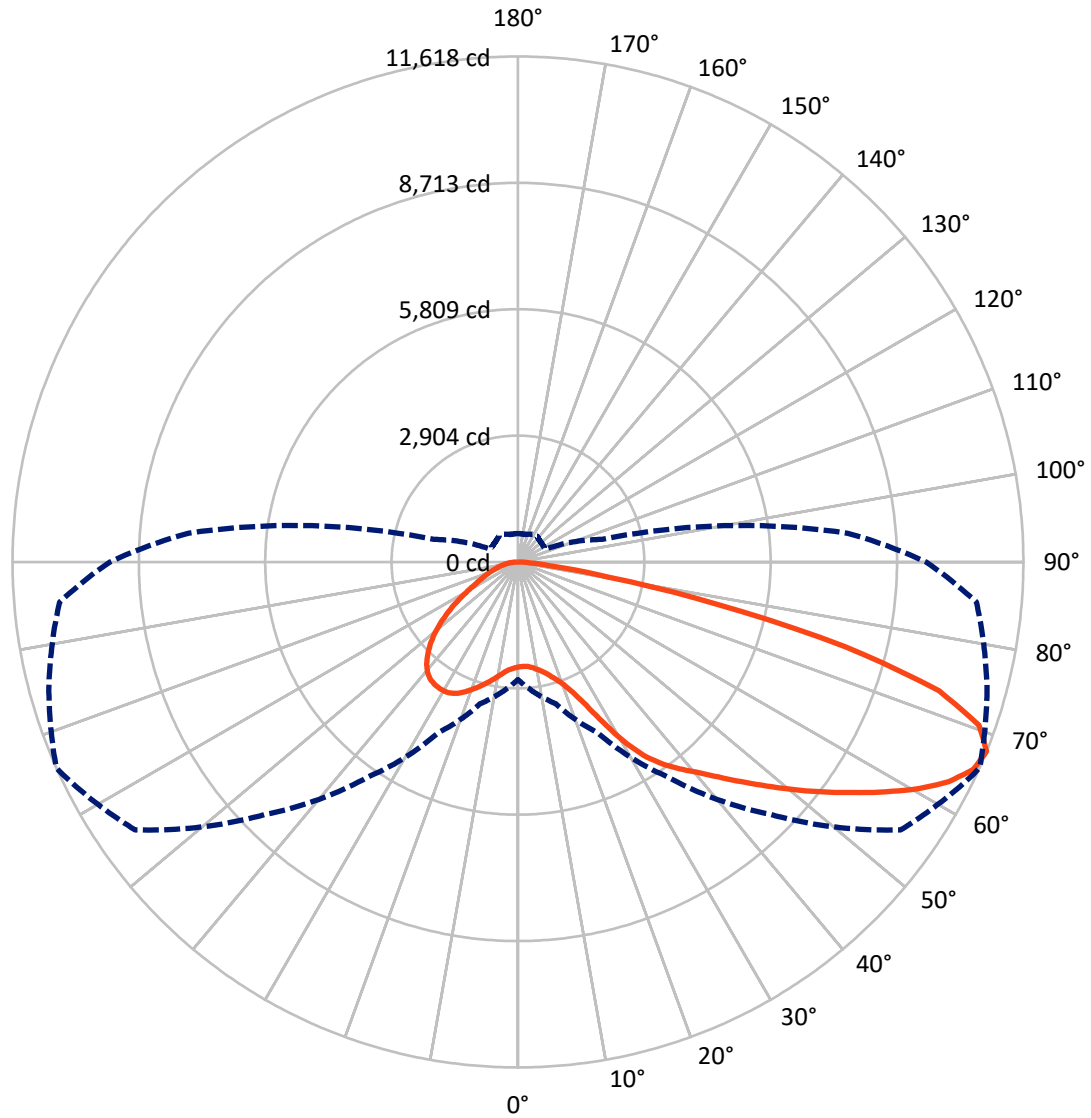
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5411.6	0.0	5411.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	16352.4	0.0	16352.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	21764.0	0.0	21764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.3	1.1
10°-20°	790.7	3.6
20°-30°	1524.1	7.0
30°-40°	2672.2	12.3
40°-50°	3972.7	18.3
50°-60°	5035.8	23.1
60°-70°	4927.4	22.6
70°-80°	2350.4	10.8
80°-90°	251.2	1.2
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°	21764.0	100.0
0°-180°	21764.0	100.0

**Coefficient of Utilization**



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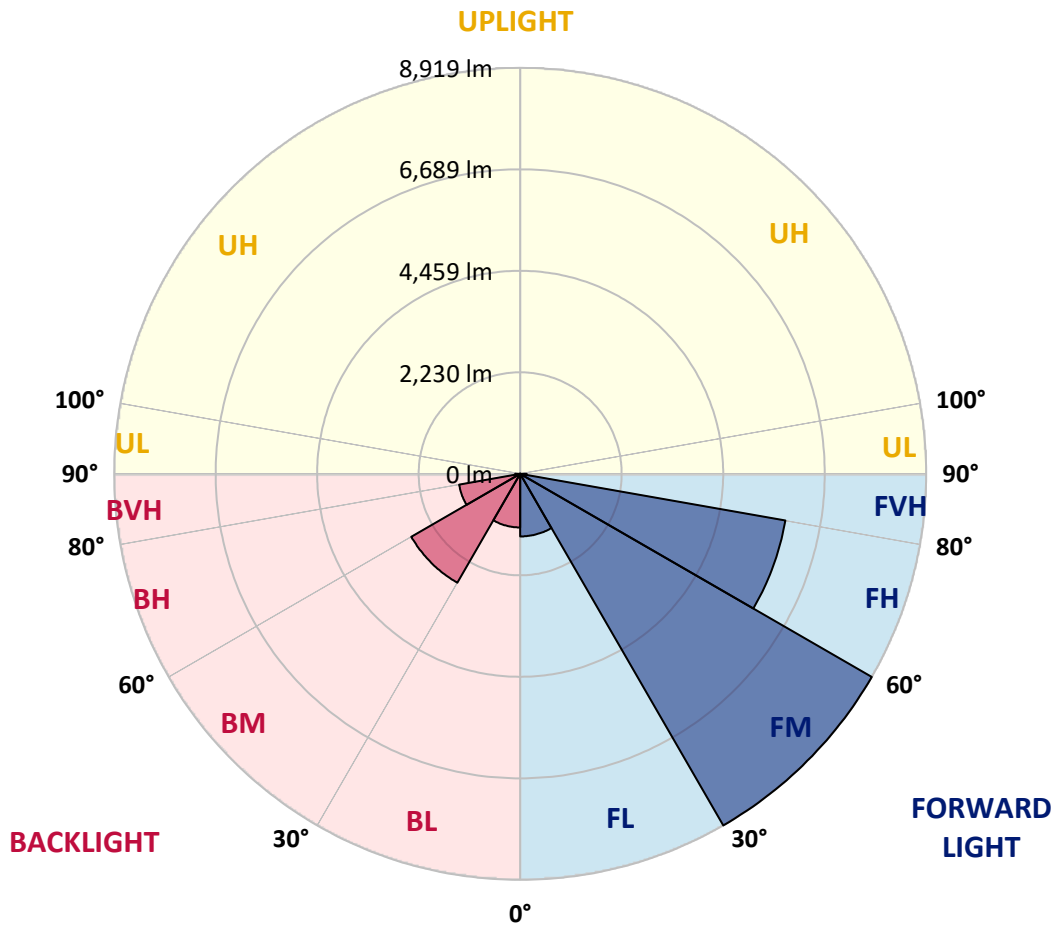
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.3	6.3			
FM (30°-60°)	8918.7	41.0			
FH (60°-80°)	5916.1	27.2			G3/7500
FVH (80°-90°)	142.4	0.7			G2/225
BL (0°-30°)	1178.8	5.4	B3/2500		
BM (30°-60°)	2762.1	12.7	B3/5000		
BH (60°-80°)	1361.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	108.8	0.5			G2/225
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9
2.5°	2388.8	2402.5	2399.0	2393.3	2392.2	2394.5	2397.9	2401.3	2400.2	2405.9
5°	2381.9	2395.6	2394.5	2394.5	2399.0	2408.2	2413.9	2419.6	2413.9	2420.8
7.5°	2386.5	2396.8	2401.3	2405.9	2417.3	2434.5	2448.2	2460.8	2453.9	2461.9
10°	2444.8	2452.8	2457.4	2457.4	2465.4	2484.8	2498.5	2521.4	2515.7	2528.3
12.5°	2551.1	2559.1	2559.1	2554.6	2560.3	2572.9	2577.4	2602.6	2592.3	2612.9
15°	2681.5	2697.5	2684.9	2676.9	2679.2	2691.8	2690.6	2710.1	2699.8	2716.9
17.5°	2825.6	2846.2	2825.6	2824.4	2819.9	2833.6	2834.7	2851.9	2833.6	2846.2
20°	2996.0	3024.5	3007.4	3013.1	3002.8	3008.5	3014.2	3039.4	3010.8	3020.0
22.5°	3236.1	3270.4	3252.1	3273.8	3267.0	3262.4	3261.2	3305.8	3261.2	3264.7
25°	3586.0	3627.2	3595.1	3624.9	3624.9	3639.7	3656.9	3714.1	3639.7	3618.0
27.5°	4102.9	4144.0	4081.1	4099.4	4093.7	4130.3	4112.0	4253.8	4173.8	4138.3
30°	4724.9	4798.1	4679.2	4674.6	4668.9	4727.2	4753.5	4847.3	4766.1	4730.6
32.5°	5397.3	5473.9	5332.1	5290.9	5269.2	5304.7	5282.9	5358.4	5302.4	5247.5
35°	6108.5	6184.0	6049.1	5969.0	5882.1	5807.8	5730.0	5749.5	5696.9	5613.4
37.5°	6780.9	6919.3	6776.3	6690.6	6530.5	6385.3	6168.0	6077.7	6028.5	5951.9
40°	7465.9	7544.8	7436.1	7363.0	7189.1	6961.6	6614.0	6423.0	6356.7	6282.4
42.5°	7970.2	8045.6	7987.3	7937.0	7800.9	7536.8	7087.4	6848.4	6752.3	6668.9
45°	8370.4	8426.4	8389.8	8408.1	8349.8	8093.6	7577.9	7304.6	7205.2	7103.4
47.5°	8531.6	8591.1	8649.4	8758.0	8857.5	8668.8	8105.1	7798.6	7693.4	7589.4
50°	8513.3	8573.9	8743.2	8974.1	9282.9	9220.0	8660.8	8324.6	8227.4	8108.5
52.5°	8366.9	8435.6	8652.8	9037.0	9528.7	9632.8	9226.9	8867.8	8776.3	8634.5
55°	7982.7	8023.9	8349.8	8894.1	9587.1	9921.0	9781.4	9446.4	9354.9	9157.1
57.5°	7270.3	7329.8	7804.3	8508.7	9440.7	10116.5	10268.6	10054.7	9966.7	9682.0
60°	6340.7	6435.6	6978.7	7861.5	9067.9	10115.3	10711.1	10652.8	10579.6	10198.8
62.5°	5288.7	5398.4	5921.0	6946.7	8416.1	9828.3	10987.8	11153.6	11115.9	10675.7
65°	4061.7	4137.2	4657.4	5763.2	7401.8	9212.0	11019.8	11495.5	11502.4	11038.1
67.5°	2704.4	2921.6	3373.3	4324.7	6043.4	8204.6	10738.5	11551.6	11617.9	11162.8
70°	1319.6	1605.5	2048.0	2810.7	4324.7	6659.7	10003.3	11091.9	11239.4	10799.2
72.5°	547.7	640.4	881.6	1387.1	2482.5	4493.9	8525.9	9845.5	10118.8	9568.8
75°	369.3	400.2	504.3	711.3	1130.9	2216.1	6148.6	7341.2	7781.5	7226.9
77.5°	284.7	304.2	367.1	497.4	672.4	838.2	3291.0	4424.2	4651.7	4306.4
80°	224.1	239.0	274.4	362.5	476.8	448.2	1121.8	2004.5	2136.0	1791.9
82.5°	194.4	200.1	196.7	245.9	316.7	261.9	368.2	739.8	816.5	592.3
85°	140.6	156.7	163.5	152.1	168.1	132.6	150.9	261.9	288.2	257.3
87.5°	57.2	84.6	104.1	98.3	61.7	37.7	46.9	76.6	88.0	96.1
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°
2413.9	0°	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9
2415.1	2.5°	2416.2	2424.2	2429.9	2436.8	2441.4	2448.2	2461.9	2469.9	2471.1	2476.8
2433.4	5°	2437.9	2449.4	2461.9	2480.2	2500.8	2518.0	2544.3	2562.6	2569.4	2575.1
2478.0	7.5°	2484.8	2500.8	2523.7	2555.7	2585.4	2608.3	2640.3	2662.1	2683.8	2691.8
2548.8	10°	2554.6	2577.4	2610.6	2654.0	2686.1	2715.8	2749.0	2767.3	2789.0	2798.1
2633.5	12.5°	2641.5	2665.5	2708.9	2769.5	2799.3	2819.9	2831.3	2826.7	2831.3	2839.3
2735.2	15°	2741.0	2767.3	2816.4	2881.6	2902.2	2883.9	2858.7	2835.9	2832.4	2834.7
2858.7	17.5°	2858.7	2878.2	2935.3	2990.2	2975.4	2899.9	2845.0	2808.4	2790.1	2784.4
3016.5	20°	3023.4	3023.4	3070.3	3104.6	3005.1	2877.0	2791.3	2731.8	2694.1	2678.1
3231.5	22.5°	3223.5	3205.2	3234.9	3210.9	2999.4	2813.0	2694.1	2591.2	2534.0	2511.1
3532.3	25°	3477.4	3455.6	3447.6	3299.0	2958.2	2711.2	2518.0	2393.3	2343.0	2330.4
3965.6	27.5°	3860.4	3805.5	3701.5	3347.0	2882.7	2551.1	2312.1	2196.7	2168.1	2169.2
4522.5	30°	4370.4	4260.7	4005.7	3355.0	2759.3	2324.7	2101.7	2019.4	2005.7	2011.4
4990.2	32.5°	4842.7	4738.6	4316.7	3318.4	2569.4	2102.9	1913.1	1858.2	1837.6	1844.5
5347.0	35°	5213.2	5184.6	4604.8	3267.0	2336.2	1894.8	1743.8	1696.9	1656.9	1647.8
5683.2	37.5°	5563.1	5551.7	4821.0	3194.9	2105.2	1747.3	1607.8	1546.0	1487.7	1455.7
6054.8	40°	5947.3	5935.9	4962.8	3084.0	1900.5	1619.2	1485.4	1404.2	1332.2	1273.9
6475.6	42.5°	6379.6	6312.1	5030.2	2925.1	1726.7	1510.6	1385.9	1276.1	1181.2	1127.5
6951.3	45°	6851.8	6699.7	5029.1	2722.7	1580.3	1411.1	1279.6	1124.1	1036.0	985.7
7439.6	47.5°	7352.7	7070.2	4967.3	2498.5	1438.5	1301.3	1114.9	996.0	937.7	906.8
7970.2	50°	7869.5	7416.7	4862.1	2241.2	1293.3	1176.7	1012.0	930.8	886.2	857.6
8496.2	52.5°	8355.5	7731.2	4735.2	1949.7	1145.8	1055.4	966.3	903.4	856.5	824.5
9006.2	55°	8807.2	8002.2	4555.7	1651.2	1025.7	974.3	944.5	891.9	838.2	800.4
9524.2	57.5°	9208.6	8178.3	4245.8	1371.0	940.0	918.2	921.7	872.5	810.7	778.7
10034.2	60°	9542.5	8307.5	3787.3	1111.5	870.2	863.3	886.2	835.9	763.9	727.3
10465.3	62.5°	9742.6	8305.2	3224.7	910.2	810.7	813.0	839.3	790.2	717.0	682.7
10690.5	65°	9725.4	8101.7	2607.2	778.7	753.6	755.8	790.2	739.8	678.1	657.5
10577.3	67.5°	9381.2	7605.4	2000.0	693.0	690.7	701.0	741.0	705.5	654.1	651.8
9902.7	70°	8449.3	6575.1	1440.8	624.3	625.5	640.4	693.0	683.8	641.5	646.1
8325.8	72.5°	6775.2	5013.1	967.4	552.3	553.5	577.5	647.2	666.7	628.9	689.5
5907.3	75°	4512.2	3126.3	622.1	475.7	476.8	507.7	607.2	633.5	594.6	687.2
3073.7	77.5°	2168.1	1405.4	450.5	400.2	400.2	428.8	524.9	567.2	506.6	534.0
988.0	80°	749.0	528.3	354.5	322.5	315.6	335.0	442.5	491.7	436.8	402.5
322.5	82.5°	295.0	274.4	284.7	250.4	227.6	240.1	344.2	405.9	321.3	290.4
181.8	85°	169.2	178.4	201.3	165.8	131.5	147.5	252.7	291.6	242.4	213.8
59.5	87.5°	45.7	62.9	92.6	85.8	59.5	62.9	120.1	161.2	139.5	107.5
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>
2413.9
2475.7
2574.0
2692.9
2802.7
2841.6
2842.7
2792.4
2674.6
2507.7
2332.7
2172.6
2030.8
1853.6
1654.6
1456.8
1279.6
1130.9
983.4
899.9
847.3
810.7
785.6
758.1
711.3
672.4
656.4
655.2
644.9
698.7
693.0
489.4
377.4
289.3
218.4
110.9
0.0

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