

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: P949657

Luminaire Tested: **GALN-SB4B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949657  
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-SB4B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

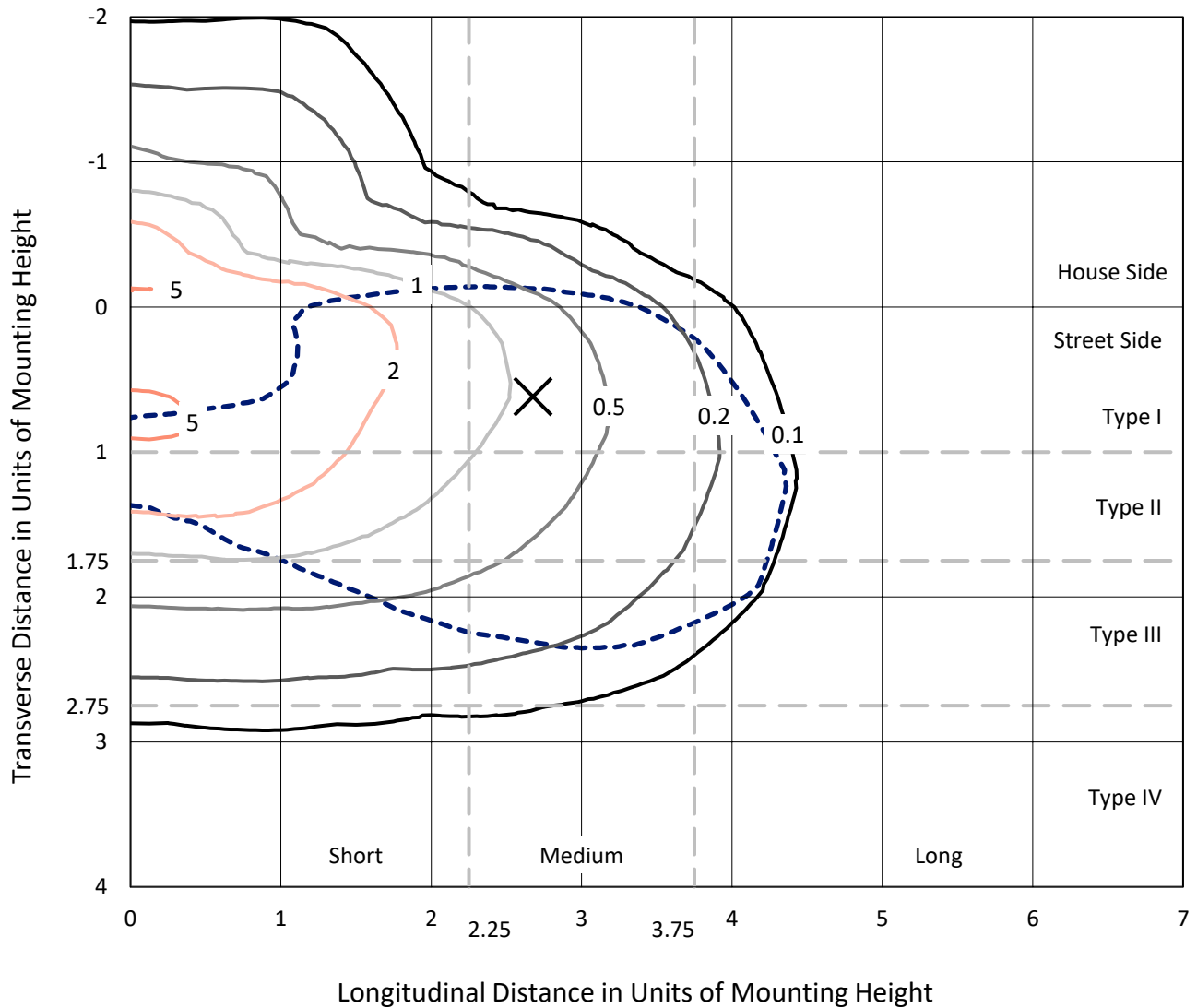
Lumens per Lamp: N/A  
Luminaire Lumens: 20818 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

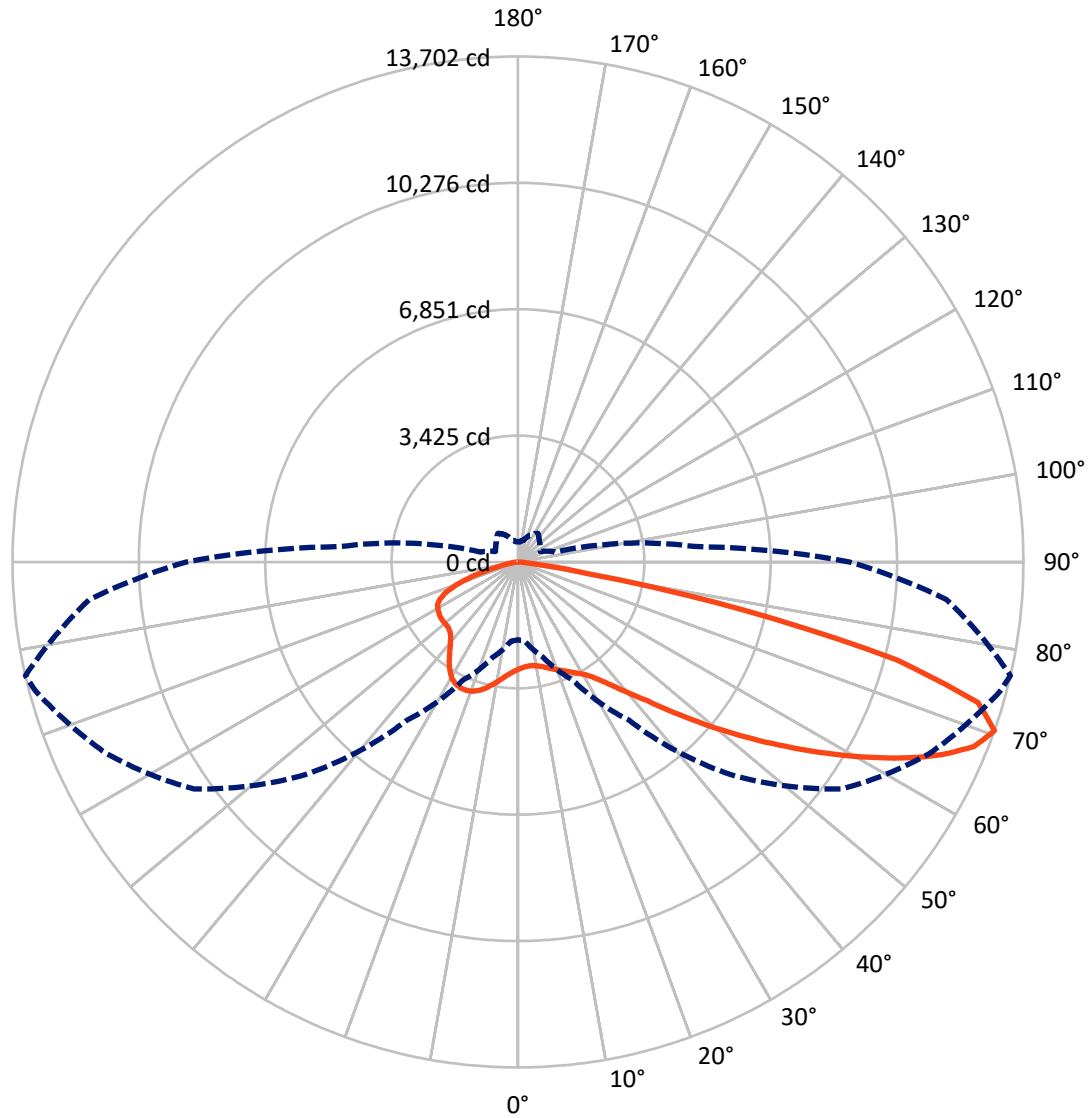
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - 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
<b>House Side</b>	Lumens	4558.8	0.0	4558.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	16259.2	0.0	16259.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	20818.0	0.0	20818.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.0	1.3
10°-20°	799.4	3.8
20°-30°	1367.1	6.6
30°-40°	2198.5	10.6
40°-50°	3432.4	16.5
50°-60°	4584.9	22.0
60°-70°	4886.8	23.5
70°-80°	3008.3	14.5
80°-90°	263.6	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°	20818.0	100.0
0°-180°	20818.0	100.0



REPORT NUMBER: P949657

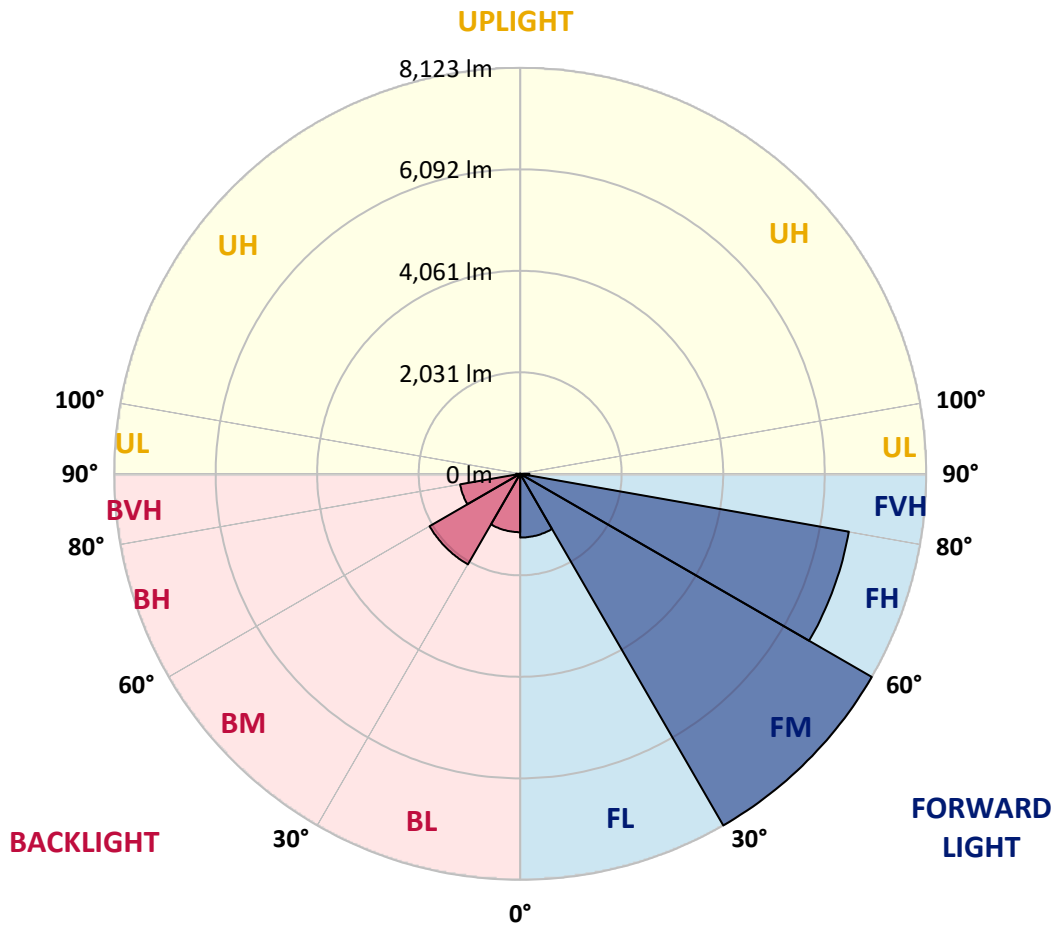
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.4	6.1			
FM (30°-60°)	8122.7	39.0			
FH (60°-80°)	6676.7	32.1			G3/7500
FVH (80°-90°)	184.3	0.9			G2/225
BL (0°-30°)	1168.1	5.6	B3/2500		
BM (30°-60°)	2093.1	10.1	B2/2500		
BH (60°-80°)	1218.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	79.3	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°	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3
2.5°	2677.2	2676.1	2690.0	2694.3	2719.9	2738.0	2772.1	2808.3	2855.3	2860.6
5°	2522.6	2522.6	2538.6	2555.7	2588.7	2625.0	2677.2	2740.1	2821.1	2833.9
7.5°	2391.5	2400.0	2413.9	2446.9	2485.3	2537.5	2617.5	2707.1	2813.7	2833.9
10°	2285.9	2295.5	2312.6	2339.2	2396.8	2469.3	2573.8	2688.9	2831.8	2863.8
12.5°	2252.9	2262.5	2272.1	2292.3	2345.6	2430.9	2555.7	2697.5	2875.5	2907.5
15°	2329.6	2341.4	2333.9	2328.6	2356.3	2434.1	2564.2	2728.4	2929.9	2975.7
17.5°	2506.6	2510.9	2493.8	2443.7	2439.4	2481.0	2604.7	2771.0	2998.1	3048.2
20°	2792.4	2784.9	2749.7	2650.5	2594.0	2585.5	2674.0	2835.0	3068.5	3121.8
22.5°	3180.4	3171.9	3101.5	2944.8	2819.0	2735.8	2774.2	2918.2	3147.4	3207.1
25°	3664.5	3652.8	3549.3	3336.1	3141.0	2935.2	2910.7	3028.0	3244.4	3299.9
27.5°	4229.6	4220.0	4108.0	3826.6	3545.1	3208.2	3080.2	3157.0	3345.7	3408.6
30°	4837.3	4865.0	4666.7	4363.9	4007.8	3564.3	3308.4	3315.9	3476.8	3533.4
32.5°	5551.7	5599.6	5360.8	4977.0	4490.8	3951.3	3596.3	3537.6	3667.7	3714.6
35°	6259.6	6314.0	6115.7	5691.3	5131.6	4407.6	3896.9	3792.4	3921.4	3972.6
37.5°	6871.6	6944.1	6841.7	6472.8	5817.1	4957.8	4289.3	4092.0	4233.8	4297.8
40°	7354.6	7465.5	7458.0	7227.7	6625.3	5625.2	4787.2	4462.0	4621.9	4691.2
42.5°	7746.9	7842.9	7926.1	7914.3	7468.7	6383.3	5372.5	4942.9	5064.4	5144.4
45°	8017.7	8120.1	8299.2	8492.2	8280.0	7194.6	6043.2	5513.3	5624.2	5744.6
47.5°	8259.8	8376.0	8608.4	8914.4	8968.8	8009.2	6777.8	6177.5	6278.8	6403.5
50°	8281.1	8381.3	8741.7	9175.6	9458.2	8791.8	7566.7	6922.8	7017.7	7150.9
52.5°	7766.1	7923.9	8553.0	9168.2	9683.1	9446.4	8350.4	7697.9	7804.5	7964.4
55°	6028.2	6259.6	7999.6	8882.4	9603.2	9869.7	9095.7	8522.1	8658.5	8825.9
57.5°	5192.3	5293.6	6350.2	8362.1	9238.5	9979.5	9724.7	9354.7	9574.4	9757.8
60°	4666.7	4750.9	5375.7	7552.9	8758.7	9805.7	10210.9	10130.9	10510.5	10729.1
62.5°	4103.8	4183.7	4752.0	6306.5	8144.6	9516.8	10518.0	10847.4	11470.1	11708.9
65°	3545.1	3613.3	4158.1	5299.0	7364.2	9227.9	10676.8	11466.9	12358.2	12605.6
67.5°	2922.4	2978.9	3493.9	4470.5	6415.3	8832.3	10755.7	11954.1	13131.2	13343.4
70°	2108.9	2152.6	2684.7	3535.5	5224.3	8152.1	10723.7	12299.6	13532.1	13701.6
72.5°	996.9	1036.3	1661.1	2295.5	3690.1	6827.9	10076.6	12025.6	13124.8	13040.6
75°	532.0	566.1	954.2	1259.2	1949.0	4680.6	8245.9	10359.1	11021.2	10611.8
77.5°	360.4	387.0	590.7	755.9	890.3	2221.9	5300.0	7172.3	6900.4	6224.4
80°	285.7	313.5	484.1	511.8	430.7	802.8	2190.0	3320.1	2385.1	1907.4
82.5°	219.6	250.6	407.3	371.0	234.6	329.5	637.6	1050.2	610.9	464.9
85°	134.3	167.4	319.9	236.7	132.2	150.3	216.4	292.1	186.6	155.7
87.5°	68.2	96.0	162.1	86.4	59.7	35.2	57.6	57.6	49.0	42.6
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°
2904.3	0°	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3
2889.4	2.5°	2915.0	2936.3	2972.5	3006.7	3033.3	3058.9	3084.5	3098.3	3102.6	3119.7
2905.4	5°	2949.1	2988.5	3058.9	3125.0	3166.6	3192.2	3210.3	3221.0	3223.1	3228.4
2949.1	7.5°	3012.0	3074.9	3173.0	3239.1	3270.0	3267.9	3260.4	3233.8	3223.1	3213.5
3013.1	10°	3100.5	3183.6	3304.1	3350.0	3330.8	3279.6	3213.5	3135.7	3099.4	3064.2
3100.5	12.5°	3210.3	3315.9	3434.2	3432.1	3337.2	3206.0	3052.5	2933.1	2857.4	2803.0
3208.2	15°	3343.6	3465.1	3555.7	3483.2	3275.3	3039.7	2814.7	2659.1	2590.8	2531.1
3316.9	17.5°	3481.1	3611.2	3652.8	3467.2	3119.7	2793.4	2538.6	2416.0	2348.8	2316.8
3434.2	20°	3615.4	3744.5	3710.3	3375.6	2883.0	2514.1	2287.0	2219.8	2205.9	2213.4
3548.3	22.5°	3757.3	3872.4	3722.1	3198.6	2581.2	2228.3	2103.6	2105.7	2136.6	2159.0
3667.7	25°	3902.3	3980.1	3691.1	2942.7	2257.1	2018.3	1987.4	2021.5	2082.3	2126.0
3802.0	27.5°	4041.9	4076.0	3624.0	2626.0	1978.8	1868.0	1873.3	1943.7	2035.4	2096.1
3965.2	30°	4199.7	4161.3	3495.0	2269.9	1785.9	1739.0	1783.7	1865.8	1957.5	2011.9
4170.9	32.5°	4377.8	4234.9	3290.3	1940.5	1649.4	1635.5	1709.1	1762.4	1802.9	1818.9
4443.9	35°	4599.5	4338.3	3028.0	1709.1	1526.8	1559.8	1630.2	1603.5	1587.6	1579.0
4810.6	37.5°	4887.4	4478.0	2720.9	1558.8	1427.6	1505.5	1534.2	1451.1	1388.2	1357.3
5255.2	40°	5233.9	4682.7	2425.6	1442.6	1364.7	1458.5	1408.4	1308.2	1228.3	1184.5
5755.3	42.5°	5618.8	4897.0	2177.2	1355.1	1329.5	1420.2	1315.7	1196.3	1067.3	1053.4
6351.3	45°	6022.9	5117.7	2007.6	1288.0	1312.5	1387.1	1262.4	1069.4	977.7	1034.2
6949.4	47.5°	6427.0	5320.3	1905.3	1237.8	1304.0	1349.8	1215.5	999.0	934.0	1016.1
7590.2	50°	6876.9	5501.5	1859.4	1201.6	1294.4	1334.9	1145.1	980.9	888.1	942.5
8253.4	52.5°	7323.7	5642.3	1825.3	1165.3	1280.5	1323.1	1111.0	959.6	832.7	835.9
8920.8	55°	7769.3	5734.0	1788.0	1117.4	1249.6	1297.6	1107.8	936.1	791.1	776.2
9626.6	57.5°	8244.8	5786.2	1742.2	1064.1	1196.3	1232.5	1104.6	918.0	778.3	753.8
10348.4	60°	8728.9	5863.0	1682.4	999.0	1124.8	1154.7	1097.1	911.6	770.9	729.3
11028.7	62.5°	9162.8	5889.6	1611.0	937.2	1033.1	1077.9	1081.1	906.3	750.6	679.2
11593.7	65°	9447.5	5774.5	1486.3	866.8	934.0	999.0	1050.2	888.1	714.3	642.9
11873.1	67.5°	9435.8	5446.1	1291.2	776.2	838.0	911.6	1005.4	857.2	670.6	598.1
11662.0	70°	8996.5	4797.9	1043.8	670.6	732.5	817.8	947.8	811.4	618.4	549.1
10369.8	72.5°	7716.0	3755.1	758.1	547.0	609.9	720.7	873.2	755.9	565.1	505.4
7663.8	75°	5512.2	2376.5	513.9	420.1	474.5	610.9	780.5	690.9	516.0	507.5
3838.3	77.5°	2815.8	1135.5	340.1	307.1	330.5	481.9	655.7	617.3	523.5	419.0
1091.8	80°	915.9	419.0	214.3	209.0	219.6	320.9	507.5	506.4	396.6	284.7
264.4	82.5°	292.1	180.2	139.7	134.3	129.0	201.5	354.0	400.9	267.6	180.2
94.9	85°	116.2	107.7	82.1	75.7	54.4	94.9	185.5	266.5	199.4	130.1
24.5	87.5°	42.6	42.6	22.4	16.0	11.7	32.0	50.1	80.0	114.1	67.2
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>
2904.3
3129.3
3237.0
3215.6
3053.6
2790.2
2524.7
2326.4
2210.2
2164.4
2137.7
2111.1
2024.7
1827.4
1587.6
1364.7
1187.7
1067.3
1064.1
1054.5
983.0
858.3
786.8
757.0
732.5
679.2
642.9
601.3
555.5
502.2
478.7
373.2
251.6
179.1
133.3
66.1
0.0

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