

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: P950096

Luminaire Tested: **GALN-SB4C-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18515 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

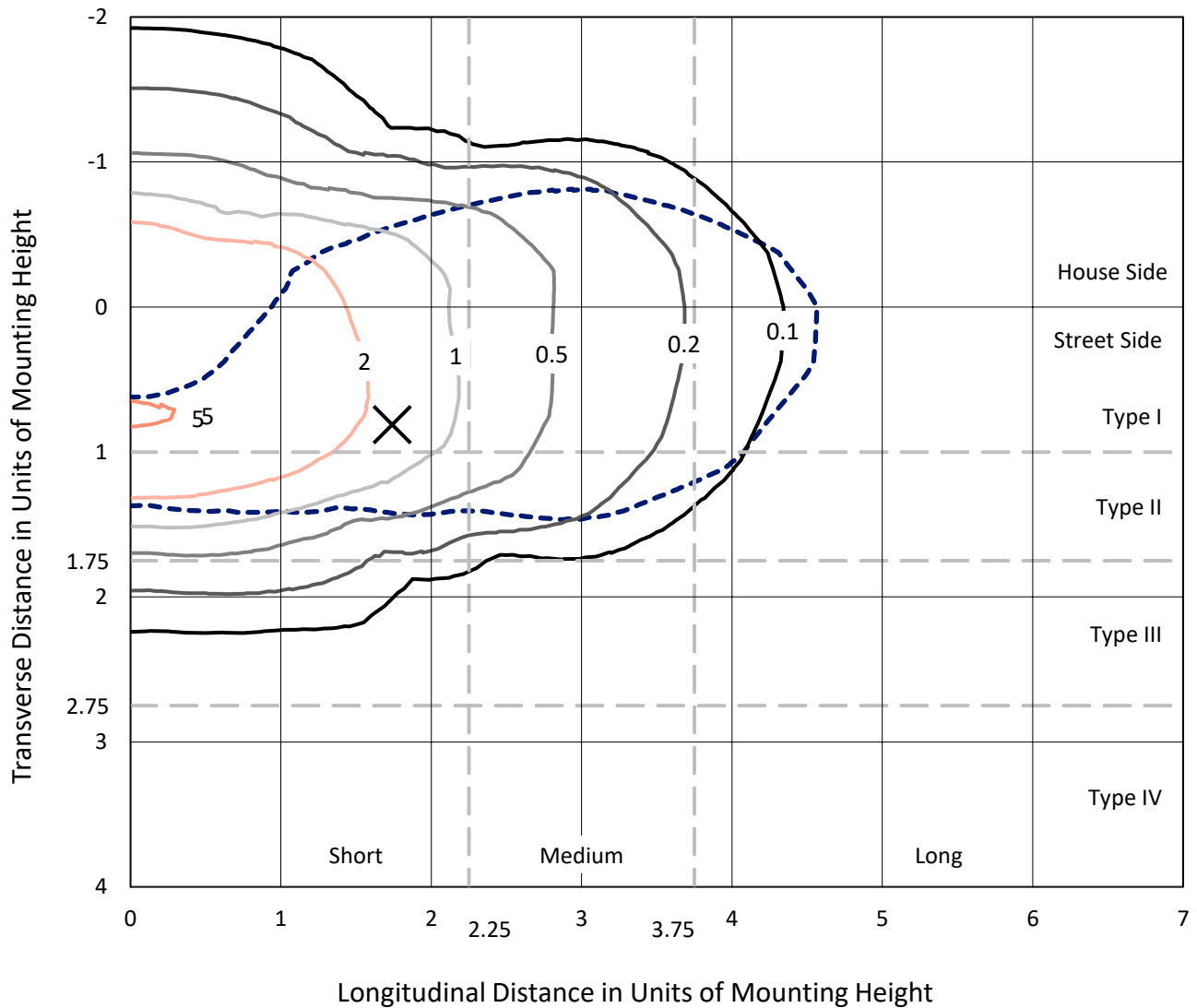
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

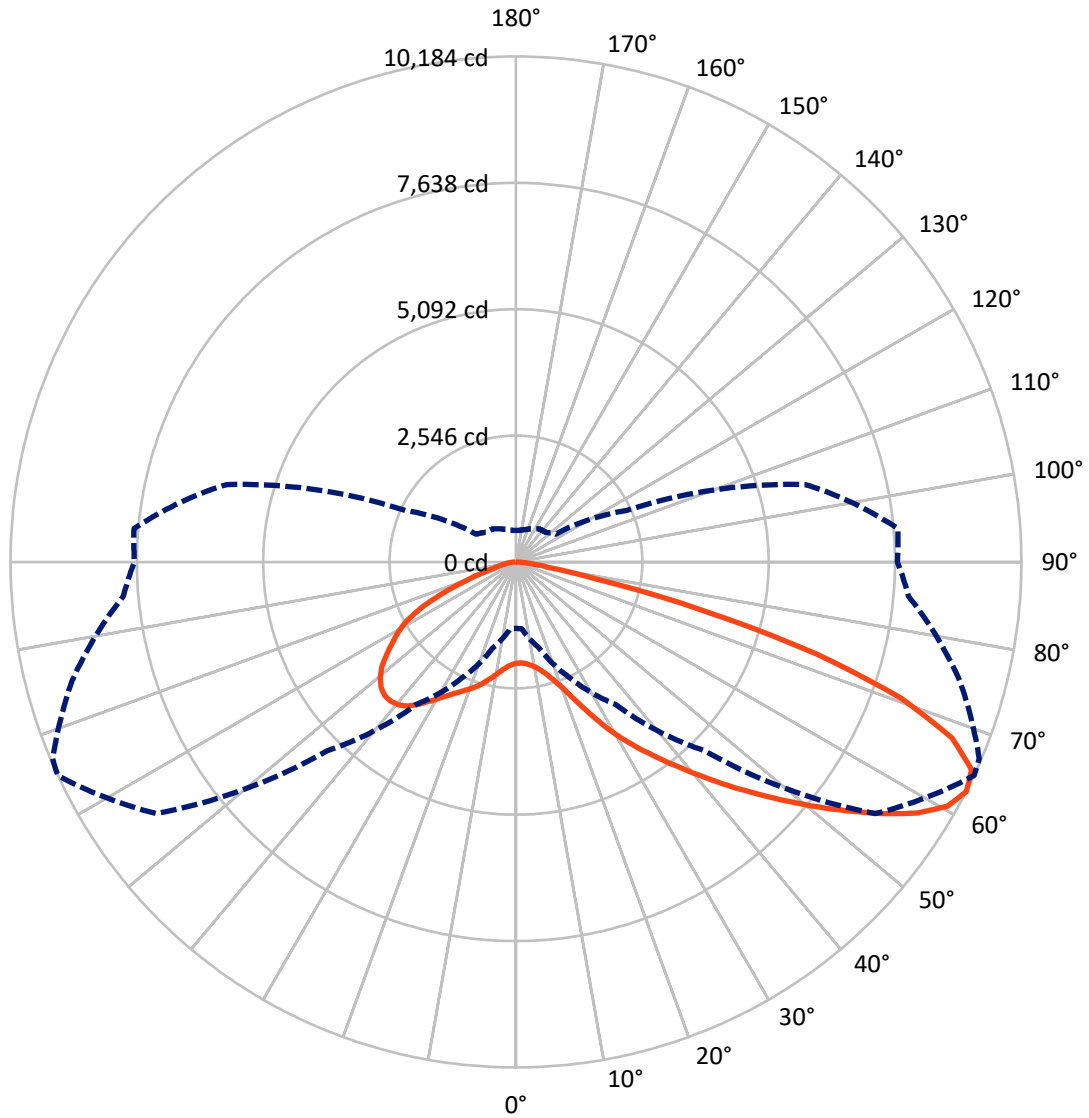
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5842.5	0.0	5842.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12672.5	0.0	12672.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	18515.0	0.0	18515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	689.8	3.7
20°-30°	1398.6	7.6
30°-40°	2420.3	13.1
40°-50°	3662.7	19.8
50°-60°	4294.2	23.2
60°-70°	3600.2	19.4
70°-80°	1987.6	10.7
80°-90°	258.2	1.4
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°	18515.0	100.0
0°-180°	18515.0	100.0



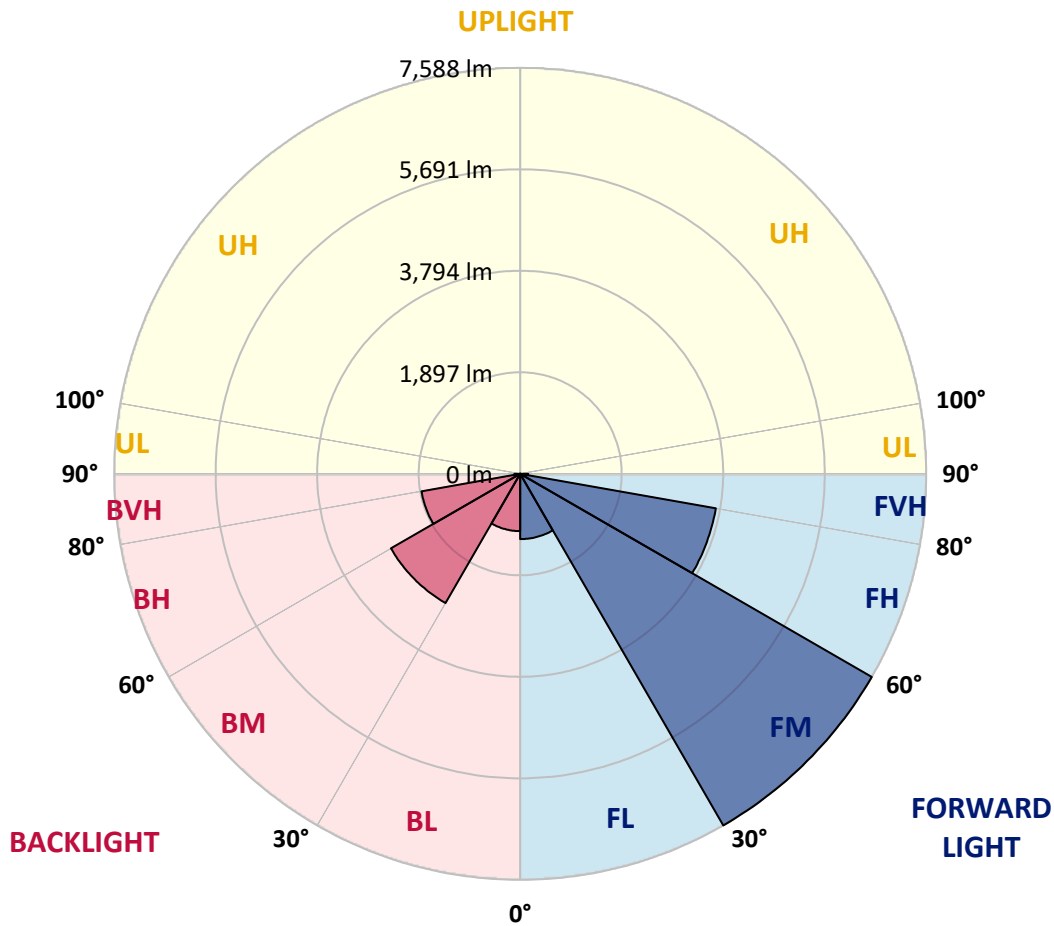
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.4	6.6			
FM (30°-60°)	7588.1	41.0			
FH (60°-80°)	3713.6	20.1			G2/5000
FVH (80°-90°)	150.5	0.8			G2/225
BL (0°-30°)	1071.4	5.8	B3/2500		
BM (30°-60°)	2789.1	15.1	B3/5000		
BH (60°-80°)	1874.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	107.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2026.8	2021.1	2025.9	2025.9	2027.8	2026.8	2033.5	2035.5	2038.4	2044.1
5°	2006.7	2005.7	2014.3	2022.0	2029.7	2036.4	2045.1	2057.6	2059.5	2066.2
7.5°	1999.9	1994.2	2007.6	2017.2	2035.5	2051.8	2074.9	2096.0	2104.6	2107.5
10°	2051.8	2042.2	2054.7	2060.4	2075.8	2092.1	2119.0	2152.7	2162.3	2173.8
12.5°	2140.2	2129.6	2147.9	2156.5	2170.9	2185.3	2203.6	2236.2	2241.0	2262.2
15°	2261.2	2248.7	2260.2	2270.8	2294.8	2308.3	2326.5	2358.2	2358.2	2374.6
17.5°	2425.5	2409.1	2417.8	2421.6	2437.0	2457.2	2487.9	2515.8	2530.2	2524.4
20°	2670.4	2650.2	2650.2	2631.0	2625.3	2641.6	2681.9	2720.4	2735.7	2706.0
22.5°	3038.3	3009.5	2993.2	2927.8	2901.9	2903.8	2944.2	2991.2	3003.7	2950.9
25°	3506.1	3461.0	3438.9	3342.8	3284.2	3233.3	3265.0	3325.5	3342.8	3277.5
27.5°	3973.9	3976.8	3955.7	3840.4	3743.4	3650.2	3633.9	3697.3	3715.5	3641.6
30°	4630.0	4561.8	4521.5	4383.1	4244.8	4114.2	4046.9	4072.9	4077.7	3989.3
32.5°	5195.8	5178.5	5092.0	4971.0	4793.3	4588.7	4476.3	4435.0	4427.3	4301.5
35°	5840.3	5830.7	5739.5	5595.4	5403.3	5118.9	4916.3	4798.1	4788.5	4611.7
37.5°	6495.4	6495.4	6406.1	6248.6	6049.7	5694.3	5386.0	5198.7	5167.9	4937.4
40°	7018.0	6986.3	7002.6	6936.4	6708.7	6331.2	5907.6	5635.7	5594.4	5317.8
42.5°	7314.8	7304.3	7402.2	7476.2	7383.0	7081.4	6482.0	6109.3	6051.7	5736.6
45°	7381.1	7369.6	7544.4	7815.3	7945.9	7822.0	7106.4	6607.8	6537.7	6174.6
47.5°	7228.4	7205.3	7461.8	7889.2	8308.1	8526.1	7782.6	7148.6	7046.8	6601.1
50°	6769.2	6747.1	7135.2	7702.9	8430.1	9004.5	8516.5	7722.1	7566.5	7058.3
52.5°	5771.2	5781.7	6389.8	7169.8	8269.6	9302.3	9148.6	8326.3	8139.0	7526.1
55°	4495.5	4518.6	5265.9	6124.7	7628.0	9257.1	9579.9	8948.8	8762.4	7966.1
57.5°	3218.9	3320.7	4021.0	4871.1	6395.5	8541.5	9674.0	9540.5	9359.9	8446.4
60°	2086.4	2104.6	2825.1	3681.9	4870.1	7269.7	9482.8	9989.1	9847.9	8936.3
62.5°	1337.1	1349.6	1788.6	2575.3	3505.2	5378.3	8839.3	10184.1	10140.8	9260.0
65°	982.7	973.1	1201.7	1702.1	2361.1	3316.9	7589.5	10089.9	10175.4	9462.7
67.5°	820.3	806.9	919.3	1178.6	1739.6	1883.7	5615.6	9478.0	9791.2	9439.6
70°	747.3	735.8	804.0	875.1	1357.3	1261.2	2830.8	8239.9	8722.1	9177.4
72.5°	633.0	612.9	706.0	777.1	1055.7	967.3	1170.0	6329.3	6917.1	8336.9
75°	490.9	477.4	557.1	683.9	793.4	755.0	739.6	3843.3	4484.9	6447.4
77.5°	389.0	370.8	443.8	533.1	713.7	569.6	538.9	1655.1	2291.0	4116.1
80°	293.0	276.6	337.2	421.7	548.5	429.4	348.7	675.3	863.6	2085.4
82.5°	208.4	194.0	235.3	309.3	368.9	385.2	214.2	378.5	425.5	804.0
85°	133.5	124.9	157.5	194.0	234.4	247.8	130.6	197.9	217.1	331.4
87.5°	73.0	59.6	84.5	90.3	108.5	98.9	62.4	72.0	77.8	120.1
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°
2040.3	0°	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3	2040.3
2044.1	2.5°	2048.0	2050.8	2060.4	2063.3	2070.1	2078.7	2084.5	2090.2	2090.2	2096.0
2074.9	5°	2075.8	2082.5	2102.7	2113.3	2130.6	2147.9	2158.4	2170.9	2178.6	2182.4
2123.8	7.5°	2129.6	2140.2	2169.0	2187.2	2217.0	2241.0	2257.4	2274.7	2278.5	2289.1
2192.0	10°	2202.6	2215.1	2247.8	2282.3	2317.9	2347.7	2363.0	2375.5	2380.3	2382.2
2279.5	12.5°	2286.2	2304.4	2346.7	2389.0	2426.4	2452.4	2456.2	2453.3	2439.9	2428.3
2387.0	15°	2389.0	2405.3	2452.4	2498.5	2535.0	2539.8	2515.8	2500.4	2484.1	2481.2
2507.1	17.5°	2511.9	2520.6	2563.8	2608.9	2611.8	2595.5	2559.9	2545.5	2530.2	2519.6
2663.7	20°	2655.0	2652.2	2682.9	2702.1	2681.9	2632.0	2578.2	2554.2	2538.8	2526.3
2855.8	22.5°	2826.0	2803.9	2800.1	2795.3	2741.5	2636.8	2563.8	2533.1	2509.0	2491.7
3123.8	25°	3074.8	2990.3	2931.7	2899.0	2778.0	2610.9	2517.7	2449.5	2404.3	2374.6
3451.4	27.5°	3386.0	3243.9	3096.0	3016.2	2778.0	2558.0	2406.3	2295.8	2221.8	2191.1
3768.4	30°	3682.9	3534.0	3315.9	3157.4	2771.3	2471.6	2226.6	2072.9	1986.5	1955.7
4039.2	32.5°	3936.5	3774.1	3549.3	3312.1	2754.9	2331.3	2003.8	1833.7	1750.2	1713.7
4307.2	35°	4171.8	3998.9	3783.7	3482.1	2711.7	2125.8	1758.8	1629.1	1536.0	1477.4
4580.0	37.5°	4412.9	4207.3	4005.6	3635.8	2633.9	1885.6	1570.5	1460.1	1350.6	1271.8
4870.1	40°	4675.1	4429.2	4242.9	3727.1	2506.2	1657.0	1424.5	1323.7	1207.4	1123.9
5204.4	42.5°	4981.6	4695.3	4507.0	3774.1	2331.3	1494.7	1329.4	1230.5	1121.0	1052.8
5562.7	45°	5301.4	4988.3	4748.1	3773.2	2136.3	1418.8	1298.7	1200.7	1079.7	1008.6
5930.6	47.5°	5636.7	5294.7	4956.6	3711.7	1967.3	1429.3	1281.4	1136.4	1002.8	933.7
6302.4	50°	5972.9	5630.0	5158.3	3596.4	1895.2	1406.3	1217.1	1046.1	888.5	826.1
6651.1	52.5°	6306.2	5986.3	5332.2	3432.2	1822.2	1320.8	1134.4	928.9	841.5	798.2
7011.3	55°	6641.5	6338.9	5521.4	3193.0	1639.7	1220.9	996.1	884.7	804.0	764.6
7363.8	57.5°	6977.7	6746.2	5701.0	2953.8	1410.1	1097.9	920.2	830.9	766.5	732.9
7658.7	60°	7327.3	7212.0	5886.4	2733.8	1183.4	940.4	864.5	787.7	722.4	684.9
7942.1	62.5°	7687.5	7725.0	6031.5	2450.4	975.0	844.4	814.6	735.8	672.4	636.9
8176.5	65°	8050.6	8219.7	6126.6	2057.6	790.6	753.1	760.8	679.1	614.8	584.0
8348.4	67.5°	8324.4	8576.1	6099.7	1557.1	648.4	666.6	693.5	619.6	559.1	535.0
8320.5	70°	8355.1	8533.8	5834.6	1066.2	542.7	582.1	618.6	561.0	498.5	481.3
7928.6	72.5°	7945.9	7957.4	5095.9	696.4	459.2	511.0	539.8	501.4	440.9	423.6
6936.4	75°	6873.0	6580.9	3741.5	459.2	384.2	439.0	465.9	439.0	380.4	384.2
5190.0	77.5°	5207.3	4660.7	2271.8	326.6	320.8	368.9	405.4	386.2	336.2	377.5
2609.9	80°	2682.9	2521.5	1013.4	244.0	253.6	294.9	333.3	308.3	266.1	253.6
583.1	82.5°	614.8	714.7	399.6	174.8	183.5	212.3	254.6	231.5	191.2	161.4
243.0	85°	215.2	235.3	176.7	109.5	107.6	132.6	172.9	154.7	129.7	103.7
102.8	87.5°	68.2	89.3	66.3	44.2	46.1	59.6	79.7	73.0	60.5	39.4
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>
2040.3
2096.0
2184.4
2285.2
2377.4
2428.3
2481.2
2520.6
2527.3
2497.5
2386.1
2206.5
1974.0
1731.9
1496.6
1292.9
1140.2
1066.2
1020.1
943.3
829.9
798.2
760.8
727.2
682.0
635.9
583.1
536.0
482.2
422.7
370.8
332.4
231.5
159.5
109.5
41.3
0.0

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