

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: P950182

Luminaire Tested: **GALN-SB4C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950182
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-SB4C-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21435 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

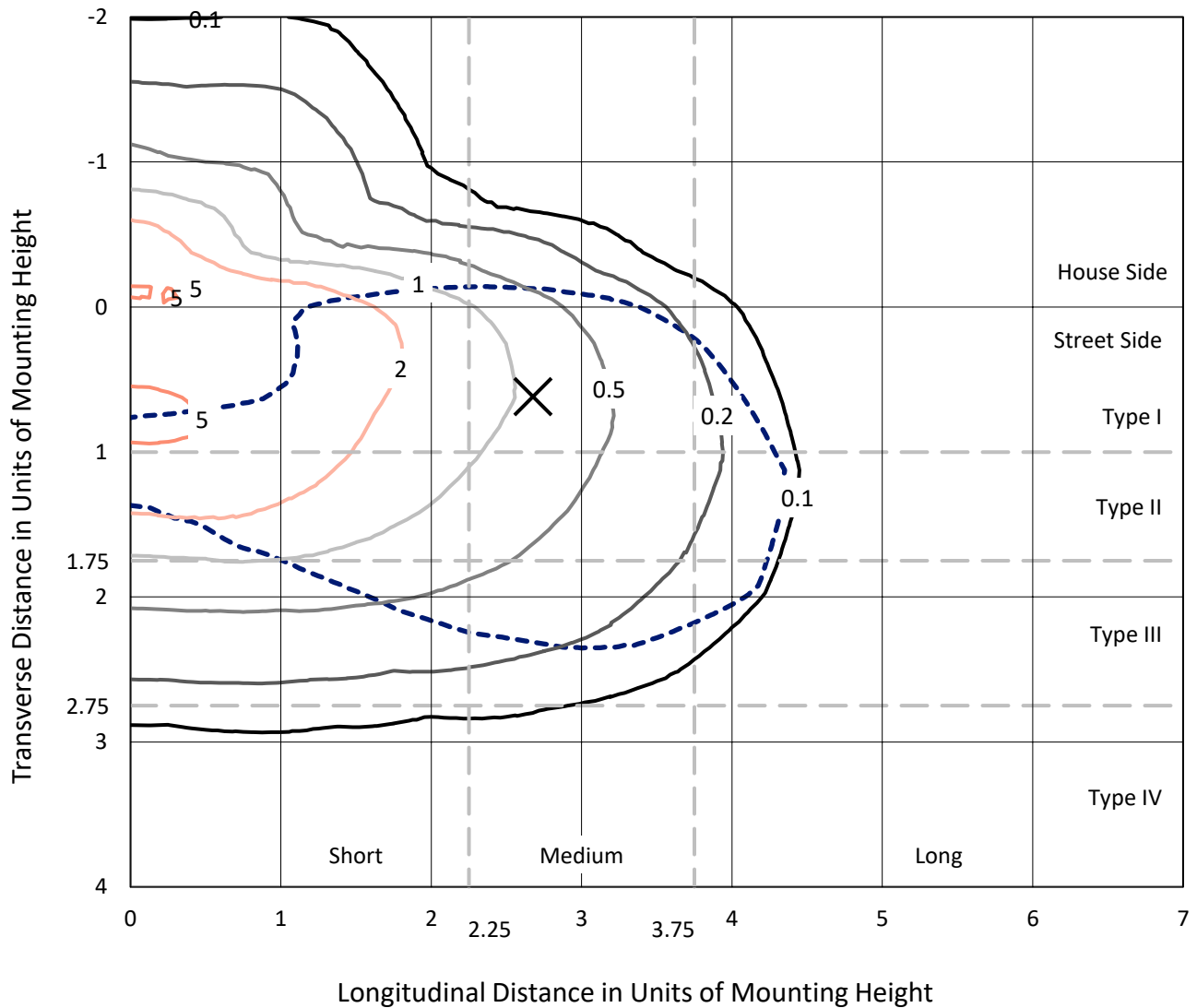
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

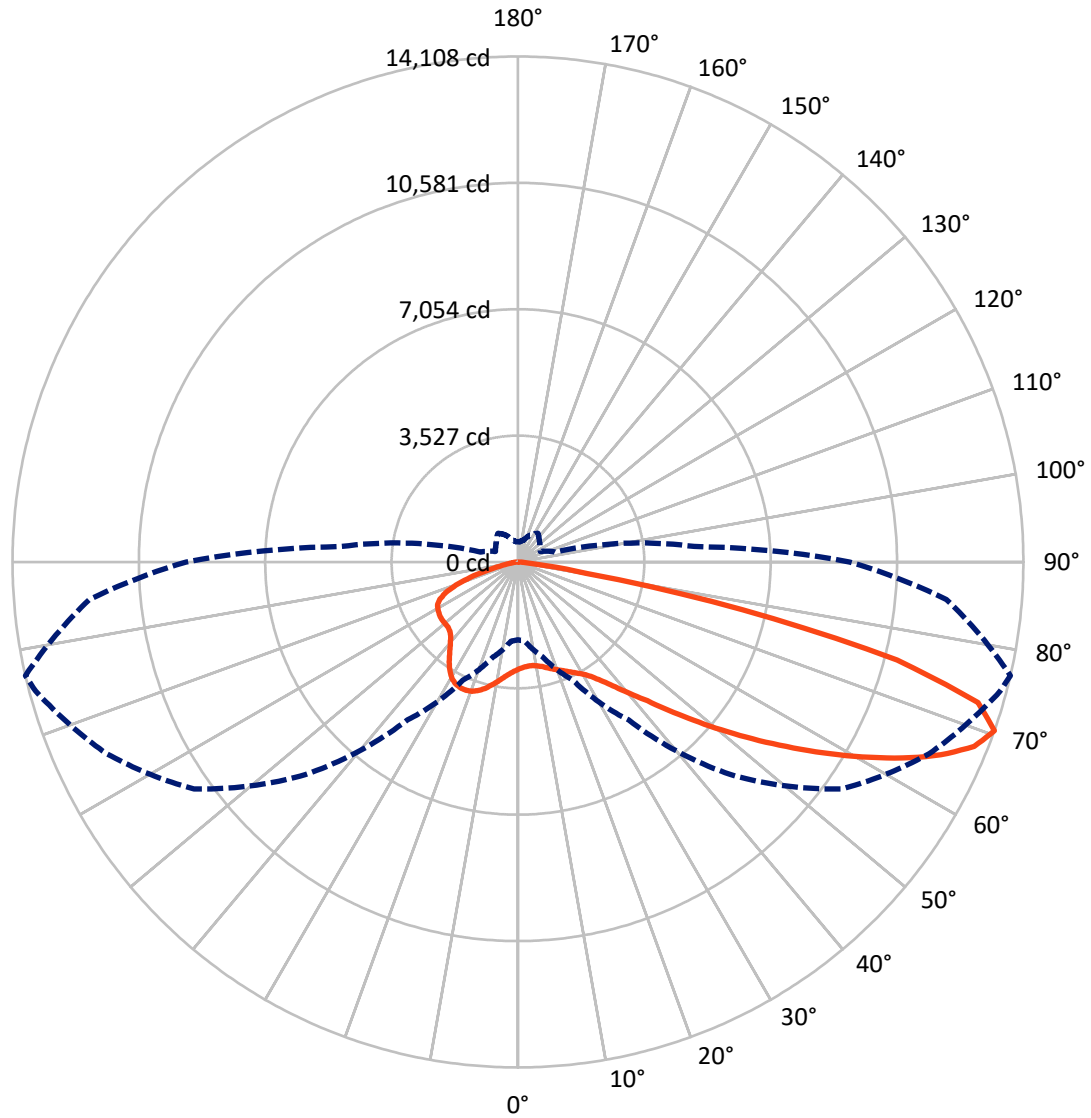
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4693.9	0.0	4693.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16741.1	0.0	16741.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	21435.0	0.0	21435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.3
10°-20°	823.1	3.8
20°-30°	1407.6	6.6
30°-40°	2263.6	10.6
40°-50°	3534.1	16.5
50°-60°	4720.8	22.0
60°-70°	5031.6	23.5
70°-80°	3097.4	14.5
80°-90°	271.4	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°	21435.0	100.0
0°-180°	21435.0	100.0

Coefficient of Utilization



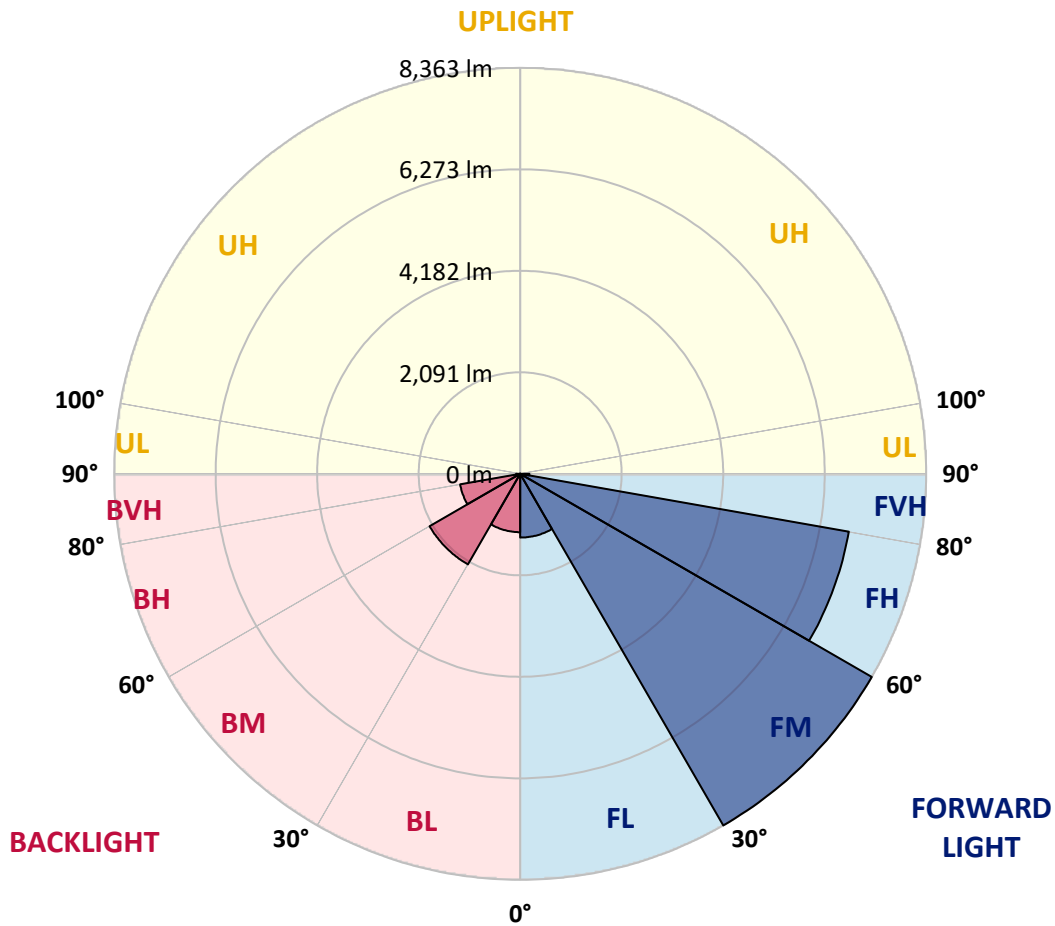
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.2	6.1			
FM (30°-60°)	8363.5	39.0			
FH (60°-80°)	6874.6	32.1			G3/7500
FVH (80°-90°)	189.8	0.9			G2/225
BL (0°-30°)	1202.7	5.6	B3/2500		
BM (30°-60°)	2155.1	10.1	B2/2500		
BH (60°-80°)	1254.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	81.6	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°	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4
2.5°	2756.5	2755.5	2769.7	2774.1	2800.5	2819.1	2854.3	2891.6	2939.9	2945.4
5°	2597.4	2597.4	2613.8	2631.4	2665.4	2702.8	2756.5	2821.3	2904.8	2917.9
7.5°	2462.3	2471.1	2485.4	2519.4	2558.9	2612.7	2695.1	2787.3	2897.1	2917.9
10°	2353.7	2363.5	2381.1	2408.5	2467.8	2542.5	2650.1	2768.6	2915.7	2948.7
12.5°	2319.6	2329.5	2339.4	2360.2	2415.1	2503.0	2631.4	2777.4	2960.7	2993.7
15°	2398.7	2410.7	2403.1	2397.6	2426.1	2506.3	2640.2	2809.2	3016.7	3063.9
17.5°	2580.9	2585.3	2567.7	2516.1	2511.7	2554.6	2681.9	2853.2	3087.0	3138.6
20°	2875.1	2867.4	2831.2	2729.1	2670.9	2662.1	2753.3	2919.0	3159.4	3214.3
22.5°	3274.7	3265.9	3193.5	3032.1	2902.6	2816.9	2856.4	3004.6	3240.7	3302.2
25°	3773.1	3761.0	3654.5	3435.0	3234.1	3022.2	2997.0	3117.7	3340.6	3397.7
27.5°	4354.9	4345.1	4229.8	3940.0	3650.1	3303.2	3171.5	3250.6	3444.9	3509.6
30°	4980.7	5009.2	4805.0	4493.3	4126.6	3669.9	3406.4	3414.1	3579.9	3638.1
32.5°	5716.2	5765.6	5519.7	5124.5	4623.9	4068.4	3702.8	3642.5	3776.4	3824.7
35°	6445.1	6501.1	6296.9	5860.0	5283.7	4538.3	4012.4	3904.8	4037.7	4090.4
37.5°	7075.3	7149.9	7044.5	6664.7	5989.5	5104.7	4416.4	4213.3	4359.3	4425.2
40°	7572.6	7686.7	7679.0	7441.9	6821.7	5791.9	4929.1	4594.2	4758.9	4830.3
42.5°	7976.5	8075.3	8161.0	8148.9	7690.0	6572.5	5531.8	5089.4	5214.5	5296.8
45°	8255.4	8360.8	8545.2	8743.9	8525.4	7407.9	6222.3	5676.7	5790.8	5914.9
47.5°	8504.6	8624.2	8863.6	9178.6	9234.6	8246.6	6978.6	6360.6	6464.9	6593.3
50°	8526.5	8629.7	9000.8	9447.6	9738.5	9052.4	7791.0	7127.9	7225.6	7362.9
52.5°	7996.3	8158.8	8806.5	9439.9	9970.1	9726.4	8597.9	7926.0	8035.8	8200.5
55°	6206.9	6445.1	8236.7	9145.7	9887.8	10162.2	9365.2	8774.6	8915.1	9087.5
57.5°	5346.2	5450.5	6538.4	8610.0	9512.3	10275.3	10012.9	9632.0	9858.1	10047.0
60°	4805.0	4891.7	5535.1	7776.7	9018.3	10096.4	10513.5	10431.2	10822.0	11047.1
62.5°	4225.4	4307.7	4892.8	6493.4	8386.0	9798.9	10829.7	11168.9	11810.0	12055.9
65°	3650.1	3720.4	4281.4	5456.0	7582.4	9501.4	10993.3	11806.7	12724.5	12979.2
67.5°	3009.0	3067.2	3597.5	4603.0	6605.4	9094.1	11074.5	12308.4	13520.4	13738.8
70°	2171.4	2216.4	2764.2	3640.3	5379.2	8393.7	11041.6	12664.1	13933.1	14107.7
72.5°	1026.4	1067.1	1710.4	2363.5	3799.4	7030.2	10375.2	12382.0	13513.8	13427.1
75°	547.8	582.9	982.5	1296.5	2006.8	4819.3	8490.3	10666.1	11347.8	10926.3
77.5°	371.1	398.5	608.2	778.3	916.7	2287.8	5457.1	7384.8	7104.9	6408.9
80°	294.2	322.8	498.4	526.9	443.5	826.6	2254.9	3418.5	2455.8	1963.9
82.5°	226.1	258.0	419.4	382.0	241.5	339.2	656.5	1081.3	629.0	478.6
85°	138.3	172.4	329.3	243.7	136.1	154.8	222.9	300.8	192.1	160.3
87.5°	70.3	98.8	166.9	88.9	61.5	36.2	59.3	59.3	50.5	43.9
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°
2990.4	0°	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4	2990.4
2975.0	2.5°	3001.4	3023.3	3060.6	3095.8	3123.2	3149.6	3175.9	3190.2	3194.6	3212.1
2991.5	5°	3036.5	3077.1	3149.6	3217.6	3260.4	3286.8	3305.4	3316.4	3318.6	3324.1
3036.5	7.5°	3101.3	3166.0	3267.0	3335.1	3366.9	3364.7	3357.0	3329.6	3318.6	3308.7
3102.4	10°	3192.4	3278.0	3402.0	3449.3	3429.5	3376.8	3308.7	3228.6	3191.3	3155.0
3192.4	12.5°	3305.4	3414.1	3536.0	3533.8	3436.1	3301.1	3143.0	3020.0	2942.1	2886.1
3303.2	15°	3442.7	3567.8	3661.1	3586.5	3372.4	3129.8	2898.2	2737.9	2667.6	2606.2
3415.2	17.5°	3584.3	3718.2	3761.0	3570.0	3212.1	2876.2	2613.8	2487.6	2418.4	2385.5
3536.0	20°	3722.6	3855.4	3820.3	3475.6	2968.4	2588.6	2354.8	2285.6	2271.3	2279.0
3653.4	22.5°	3868.6	3987.2	3832.4	3293.4	2657.7	2294.4	2165.9	2168.1	2200.0	2223.0
3776.4	25°	4017.9	4098.0	3800.5	3029.9	2324.0	2078.1	2046.3	2081.4	2144.0	2189.0
3914.7	27.5°	4161.7	4196.8	3731.4	2703.9	2037.5	1923.3	1928.8	2001.3	2095.7	2158.3
4082.7	30°	4324.2	4284.7	3598.6	2337.2	1838.8	1790.5	1836.6	1921.1	2015.5	2071.5
4294.6	32.5°	4507.5	4360.4	3387.8	1998.0	1698.3	1684.0	1759.8	1814.6	1856.4	1872.8
4575.6	35°	4735.9	4466.9	3117.7	1759.8	1572.0	1606.1	1678.5	1651.1	1634.6	1625.8
4953.2	37.5°	5032.3	4610.7	2801.6	1605.0	1469.9	1550.1	1579.7	1494.1	1429.3	1397.5
5411.0	40°	5389.0	4821.5	2497.5	1485.3	1405.2	1501.8	1450.2	1347.0	1264.7	1219.6
5925.9	42.5°	5785.3	5042.1	2241.7	1395.3	1368.9	1462.3	1354.7	1231.7	1098.9	1084.6
6539.5	45°	6201.4	5269.4	2067.1	1326.1	1351.4	1428.2	1299.8	1101.1	1006.7	1064.9
7155.4	47.5°	6617.5	5478.0	1961.7	1274.5	1342.6	1389.8	1251.5	1028.6	961.7	1046.2
7815.2	50°	7080.7	5664.6	1914.5	1237.2	1332.7	1374.4	1179.0	1010.0	914.5	970.4
8498.0	52.5°	7540.7	5809.5	1879.4	1199.9	1318.4	1362.4	1143.9	988.0	857.4	860.7
9185.2	55°	7999.6	5903.9	1841.0	1150.5	1286.6	1336.0	1140.6	963.9	814.6	799.2
9911.9	57.5°	8489.2	5957.7	1793.8	1095.6	1231.7	1269.0	1137.3	945.2	801.4	776.1
10655.1	60°	8987.6	6036.7	1732.3	1028.6	1158.2	1188.9	1129.6	938.6	793.7	750.9
11355.5	62.5°	9434.4	6064.2	1658.8	965.0	1063.8	1109.9	1113.2	933.1	772.8	699.3
11937.4	65°	9727.5	5945.6	1530.3	892.5	961.7	1028.6	1081.3	914.5	735.5	662.0
12225.0	67.5°	9715.4	5607.5	1329.4	799.2	862.9	938.6	1035.2	882.6	690.5	615.9
12007.6	70°	9263.1	4940.1	1074.7	690.5	754.2	842.0	975.9	835.4	636.7	565.4
10677.1	72.5°	7944.7	3866.4	780.5	563.2	627.9	742.1	899.1	778.3	581.8	520.4
7890.9	75°	5675.6	2447.0	529.1	432.5	488.5	629.0	803.6	711.4	531.3	522.5
3952.0	77.5°	2899.3	1169.1	350.2	316.2	340.3	496.2	675.1	635.6	539.0	431.4
1124.1	80°	943.0	431.4	220.7	215.2	226.1	330.4	522.5	521.4	408.4	293.1
272.3	82.5°	300.8	185.5	143.8	138.3	132.8	207.5	364.5	412.8	275.5	185.5
97.7	85°	119.7	110.9	84.5	77.9	56.0	97.7	191.0	274.4	205.3	133.9
25.2	87.5°	43.9	43.9	23.1	16.5	12.1	32.9	51.6	82.3	117.5	69.2
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>
2990.4
3222.0
3332.9
3310.9
3144.1
2872.9
2599.6
2395.4
2275.7
2228.5
2201.1
2173.6
2084.7
1881.6
1634.6
1405.2
1222.9
1098.9
1095.6
1085.7
1012.2
883.7
810.2
779.4
754.2
699.3
662.0
619.2
571.9
517.1
492.9
384.2
259.1
184.4
137.2
68.1
0.0

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