

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: P951169

Luminaire Tested: **GALN-SB5B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951169
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-SB5B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17775 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

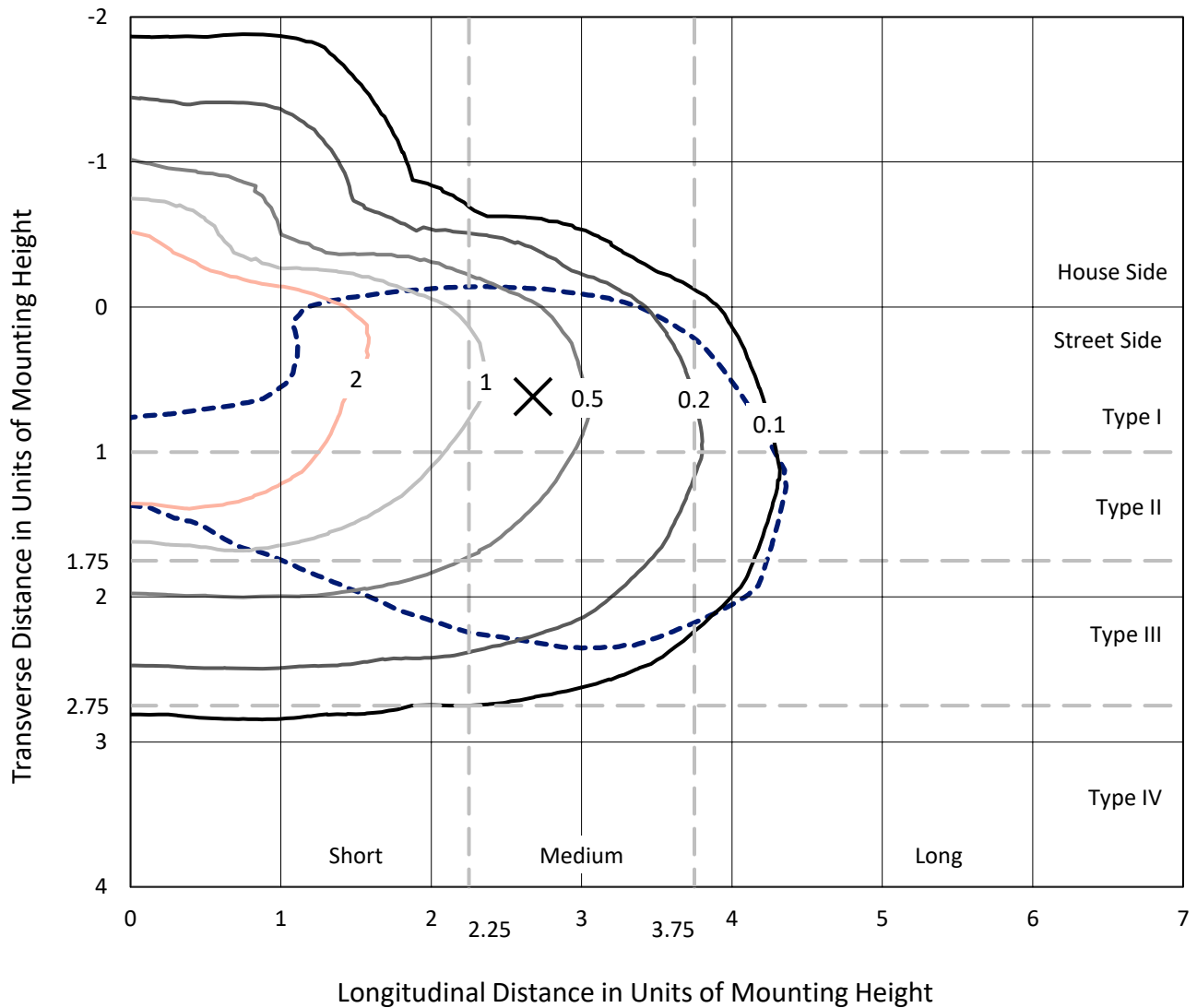
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

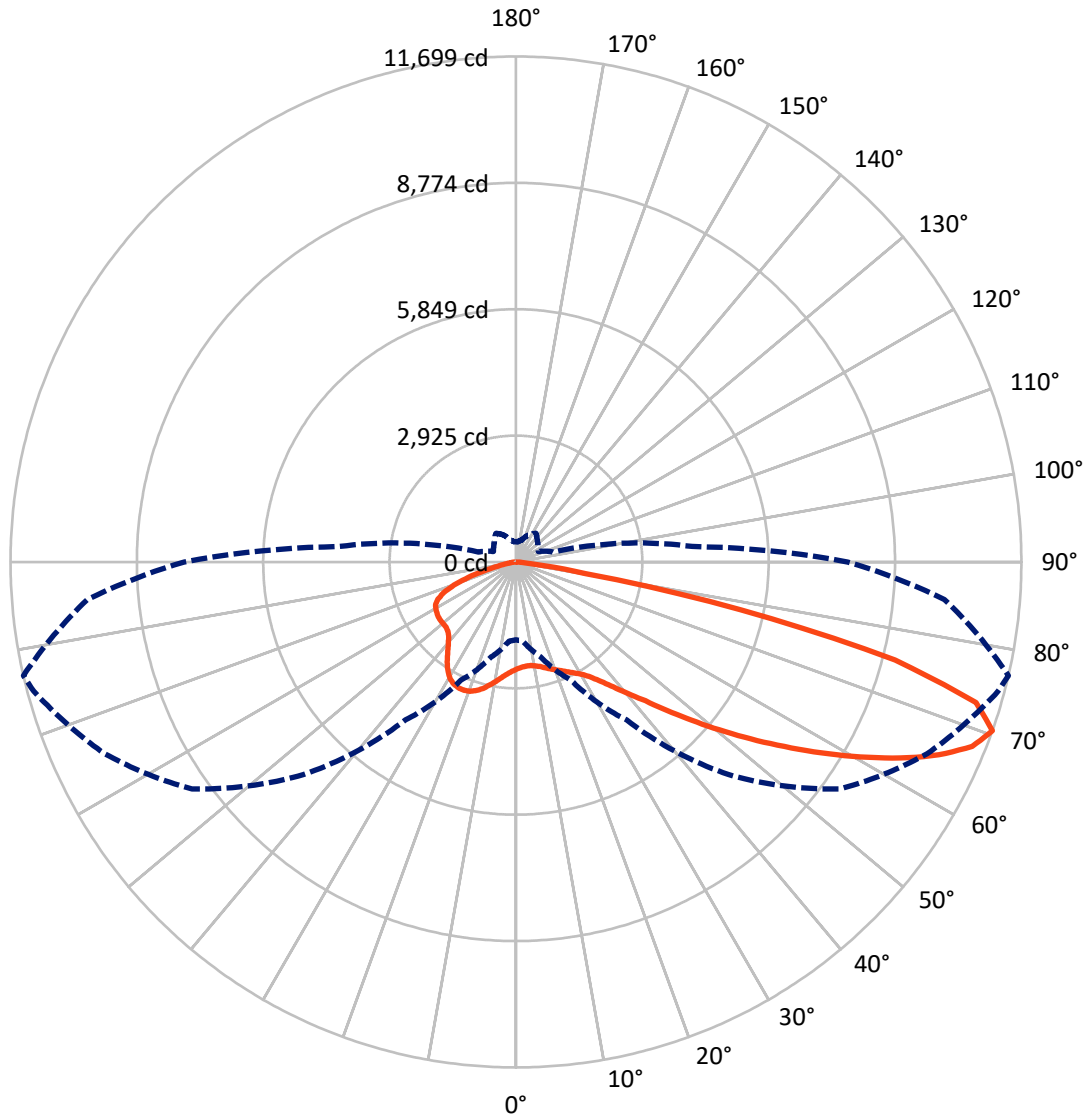
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	3892.4	0.0	3892.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13882.6	0.0	13882.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	17775.0	0.0	17775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.3
10°-20°	682.6	3.8
20°-30°	1167.3	6.6
30°-40°	1877.1	10.6
40°-50°	2930.7	16.5
50°-60°	3914.7	22.0
60°-70°	4172.5	23.5
70°-80°	2568.6	14.5
80°-90°	225.1	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°	17775.0	100.0
0°-180°	17775.0	100.0

Coefficient of Utilization



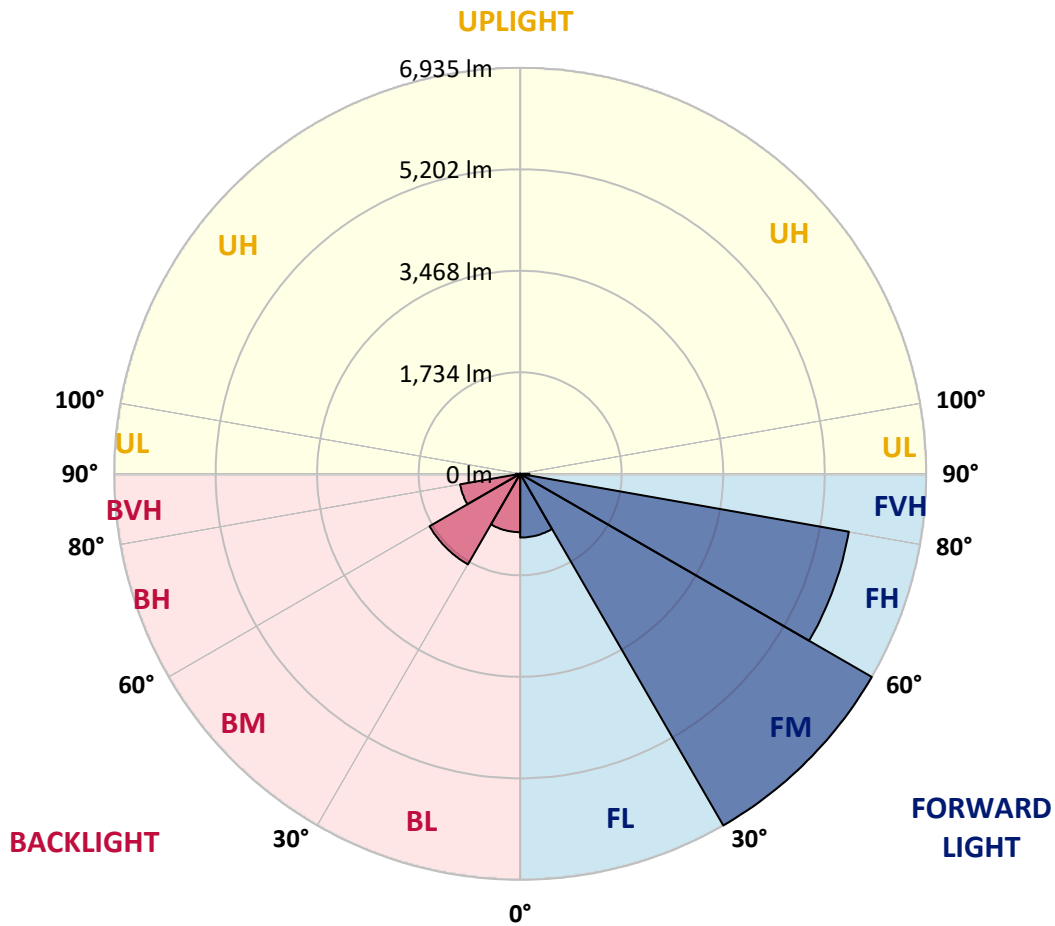
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.0	6.1			
FM (30°-60°)	6935.4	39.0			
FH (60°-80°)	5700.7	32.1			G3/7500
FVH (80°-90°)	157.4	0.9			G2/225
BL (0°-30°)	997.4	5.6	B2/1000		
BM (30°-60°)	1787.1	10.1	B2/2500		
BH (60°-80°)	1040.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	67.7	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°	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8
2.5°	2285.9	2285.0	2296.8	2300.4	2322.3	2337.8	2366.9	2397.8	2437.9	2442.5
5°	2153.9	2153.9	2167.5	2182.1	2210.3	2241.3	2285.9	2339.6	2408.8	2419.7
7.5°	2041.9	2049.2	2061.0	2089.2	2122.0	2166.6	2234.9	2311.4	2402.4	2419.7
10°	1951.8	1960.0	1974.5	1997.3	2046.5	2108.4	2197.6	2295.9	2417.9	2445.2
12.5°	1923.6	1931.7	1939.9	1957.2	2002.8	2075.6	2182.1	2303.2	2455.2	2482.5
15°	1989.1	1999.1	1992.7	1988.2	2011.9	2078.3	2189.4	2329.6	2501.6	2540.8
17.5°	2140.2	2143.9	2129.3	2086.5	2082.9	2118.4	2224.0	2366.0	2559.9	2602.7
20°	2384.2	2377.8	2347.8	2263.1	2214.9	2207.6	2283.1	2420.6	2620.0	2665.5
22.5°	2715.6	2708.3	2648.2	2514.4	2406.9	2335.9	2368.7	2491.6	2687.3	2738.3
25°	3128.8	3118.8	3030.5	2848.5	2681.9	2506.2	2485.2	2585.4	2770.2	2817.5
27.5°	3611.3	3603.1	3507.6	3267.2	3026.9	2739.2	2630.0	2695.5	2856.7	2910.4
30°	4130.2	4153.9	3984.6	3726.0	3422.0	3043.3	2824.8	2831.2	2968.6	3016.9
32.5°	4740.2	4781.1	4577.2	4249.5	3834.4	3373.7	3070.6	3020.5	3131.6	3171.6
35°	5344.6	5391.1	5221.7	4859.4	4381.5	3763.4	3327.3	3238.1	3348.2	3391.9
37.5°	5867.2	5929.1	5841.7	5526.7	4966.8	4233.1	3662.3	3493.9	3615.0	3669.6
40°	6279.5	6374.2	6367.9	6171.2	5656.9	4803.0	4087.4	3809.8	3946.3	4005.5
42.5°	6614.6	6696.5	6767.5	6757.5	6377.0	5450.2	4587.2	4220.4	4324.1	4392.4
45°	6845.8	6933.2	7086.1	7250.9	7069.7	6143.0	5159.8	4707.4	4802.1	4904.9
47.5°	7052.4	7151.7	7350.1	7611.4	7657.8	6838.5	5787.1	5274.5	5361.0	5467.5
50°	7070.6	7156.2	7463.9	7834.4	8075.7	7506.7	6460.7	5910.9	5991.9	6105.7
52.5°	6630.9	6765.7	7302.8	7828.0	8267.7	8065.6	7129.8	6572.7	6663.7	6800.3
55°	5147.1	5344.6	6830.3	7584.1	8199.5	8427.0	7766.1	7276.4	7392.9	7535.8
57.5°	4433.4	4519.9	5422.0	7139.8	7888.1	8520.8	8303.2	7987.4	8174.9	8331.5
60°	3984.6	4056.5	4590.0	6448.9	7478.5	8372.4	8718.4	8650.1	8974.2	9160.8
62.5°	3503.9	3572.2	4057.4	5384.7	6954.1	8125.7	8980.5	9261.8	9793.5	9997.4
65°	3026.9	3085.2	3550.3	4524.4	6287.7	7879.0	9116.2	9790.7	10551.8	10763.0
67.5°	2495.3	2543.5	2983.2	3817.1	5477.5	7541.3	9183.5	10206.8	11211.8	11392.9
70°	1800.7	1838.0	2292.2	3018.7	4460.7	6960.5	9156.2	10501.7	11554.1	11698.8
72.5°	851.2	884.9	1418.3	1960.0	3150.7	5829.8	8603.7	10267.8	11206.3	11134.4
75°	454.3	483.4	814.8	1075.1	1664.1	3996.4	7040.6	8844.9	9410.2	9060.6
77.5°	307.7	330.5	504.3	645.4	760.1	1897.2	4525.3	6123.9	5891.7	5314.6
80°	244.0	267.6	413.3	437.0	367.8	685.5	1869.8	2834.8	2036.4	1628.6
82.5°	187.5	213.9	347.8	316.8	200.3	281.3	544.4	896.7	521.6	396.9
85°	114.7	142.9	273.1	202.1	112.9	128.4	184.8	249.4	159.3	132.9
87.5°	58.3	81.9	138.4	73.7	51.0	30.0	49.2	49.2	41.9	36.4
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°
2479.8	0°	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8	2479.8
2467.0	2.5°	2488.9	2507.1	2538.0	2567.2	2589.9	2611.8	2633.6	2645.5	2649.1	2663.7
2480.7	5°	2518.0	2551.7	2611.8	2668.2	2703.7	2725.6	2741.0	2750.1	2752.0	2756.5
2518.0	7.5°	2571.7	2625.4	2709.2	2765.6	2792.0	2790.2	2783.8	2761.1	2752.0	2743.8
2572.6	10°	2647.3	2718.3	2821.2	2860.3	2843.9	2800.2	2743.8	2677.3	2646.4	2616.3
2647.3	12.5°	2741.0	2831.2	2932.2	2930.4	2849.4	2737.4	2606.3	2504.4	2439.7	2393.3
2739.2	15°	2854.8	2958.6	3036.0	2974.1	2796.6	2595.4	2403.3	2270.4	2212.1	2161.2
2832.1	17.5°	2972.3	3083.3	3118.8	2960.4	2663.7	2385.1	2167.5	2062.8	2005.5	1978.2
2932.2	20°	3087.0	3197.1	3168.0	2882.1	2461.6	2146.6	1952.7	1895.3	1883.5	1889.9
3029.6	22.5°	3208.0	3306.4	3178.0	2731.0	2203.9	1902.6	1796.1	1797.9	1824.3	1843.4
3131.6	25°	3331.9	3398.3	3151.6	2512.5	1927.2	1723.3	1696.9	1726.0	1777.9	1815.2
3246.3	27.5°	3451.1	3480.2	3094.3	2242.2	1689.6	1594.9	1599.5	1659.6	1737.8	1789.7
3385.6	30°	3585.8	3553.1	2984.1	1938.1	1524.8	1484.8	1523.0	1593.1	1671.4	1717.8
3561.3	32.5°	3737.9	3615.9	2809.3	1656.8	1408.3	1396.5	1459.3	1504.8	1539.4	1553.0
3794.3	35°	3927.2	3704.2	2585.4	1459.3	1303.6	1331.8	1391.9	1369.2	1355.5	1348.2
4107.5	37.5°	4173.0	3823.4	2323.2	1330.9	1218.9	1285.4	1310.0	1239.0	1185.3	1158.9
4487.1	40°	4468.9	3998.2	2071.0	1231.7	1165.2	1245.3	1202.6	1117.0	1048.7	1011.4
4914.0	42.5°	4797.5	4181.2	1858.9	1157.0	1135.2	1212.6	1123.4	1021.4	911.3	899.4
5422.9	45°	5142.5	4369.6	1714.2	1099.7	1120.6	1184.4	1077.8	913.1	834.8	883.0
5933.6	47.5°	5487.5	4542.6	1626.8	1056.9	1113.3	1152.5	1037.8	853.0	797.5	867.6
6480.7	50°	5871.7	4697.4	1587.6	1026.0	1105.2	1139.7	977.7	837.5	758.3	804.7
7047.0	52.5°	6253.1	4817.5	1558.5	995.0	1093.3	1129.7	948.6	819.3	711.0	713.7
7616.8	55°	6633.7	4895.8	1526.6	954.0	1066.9	1107.9	945.8	799.3	675.5	662.7
8219.5	57.5°	7039.7	4940.4	1487.5	908.5	1021.4	1052.4	943.1	783.8	664.6	643.6
8835.8	60°	7453.0	5006.0	1436.5	853.0	960.4	985.9	936.7	778.3	658.2	622.7
9416.6	62.5°	7823.5	5028.7	1375.5	800.2	882.1	920.4	923.1	773.8	640.9	579.9
9899.1	65°	8066.6	4930.4	1269.0	740.1	797.5	853.0	896.7	758.3	609.9	548.9
10137.6	67.5°	8056.5	4650.0	1102.4	662.7	715.5	778.3	858.5	731.9	572.6	510.7
9957.3	70°	7681.5	4096.5	891.2	572.6	625.4	698.2	809.3	692.8	528.0	468.8
8854.0	72.5°	6588.2	3206.2	647.3	467.0	520.7	615.4	745.6	645.4	482.5	431.5
6543.5	75°	4706.5	2029.2	438.8	358.7	405.1	521.6	666.4	589.9	440.6	433.3
3277.2	77.5°	2404.2	969.5	290.4	262.2	282.2	411.5	559.9	527.1	447.0	357.8
932.2	80°	782.0	357.8	183.0	178.4	187.5	274.0	433.3	432.4	338.6	243.1
225.8	82.5°	249.4	153.8	119.3	114.7	110.2	172.1	302.2	342.3	228.5	153.8
81.0	85°	99.2	91.9	70.1	64.6	46.4	81.0	158.4	227.6	170.2	111.1
20.9	87.5°	36.4	36.4	19.1	13.7	10.0	27.3	42.8	68.3	97.4	57.4
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>
2479.8
2671.9
2763.8
2745.6
2607.2
2382.4
2155.7
1986.4
1887.1
1848.0
1825.2
1802.5
1728.7
1560.3
1355.5
1165.2
1014.1
911.3
908.5
900.3
839.3
732.8
671.8
646.3
625.4
579.9
548.9
513.4
474.3
428.8
408.7
318.6
214.8
152.9
113.8
56.4
0.0

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