

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: P943599

Luminaire Tested: **GALN-SB8A-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21822 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

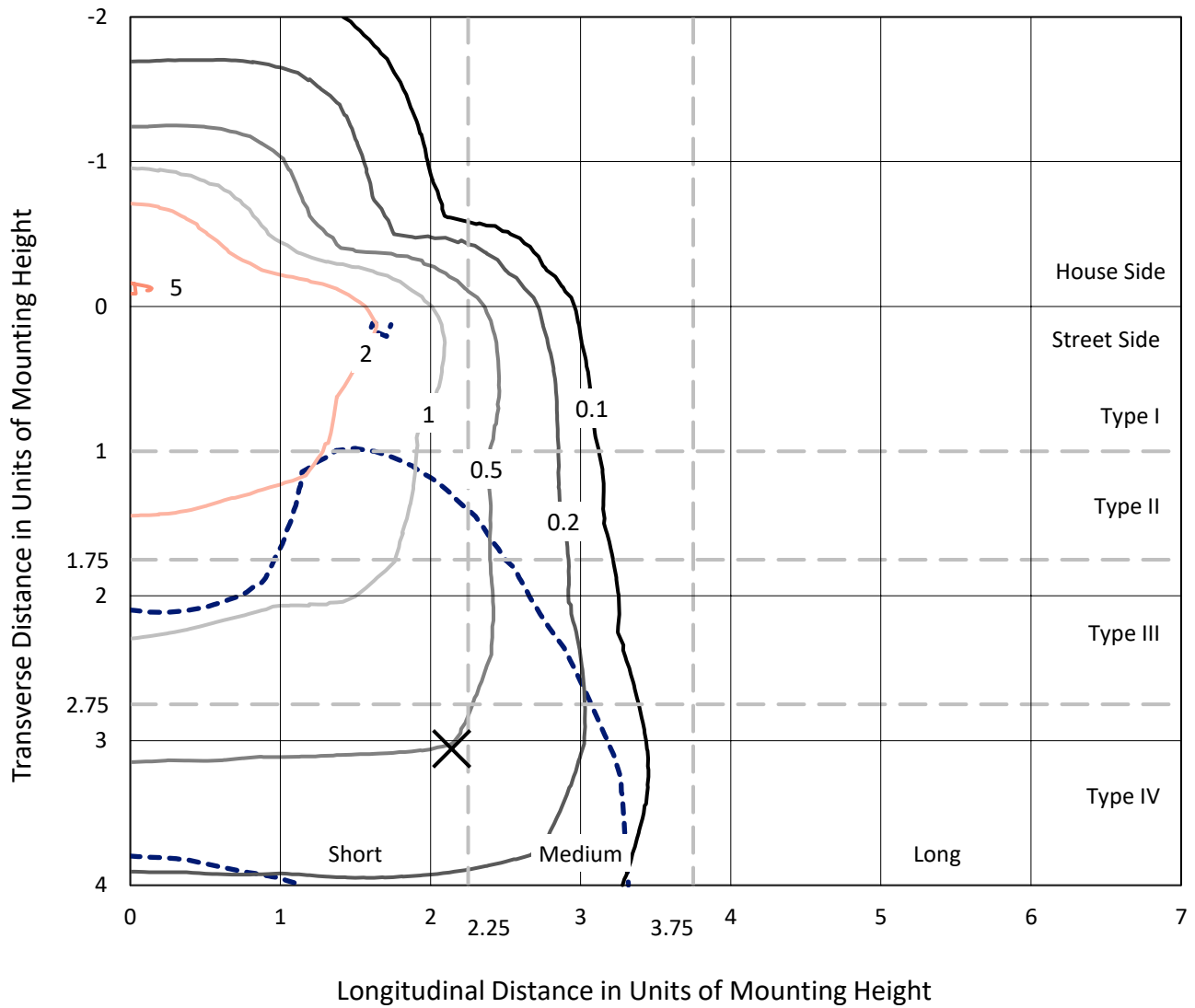
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

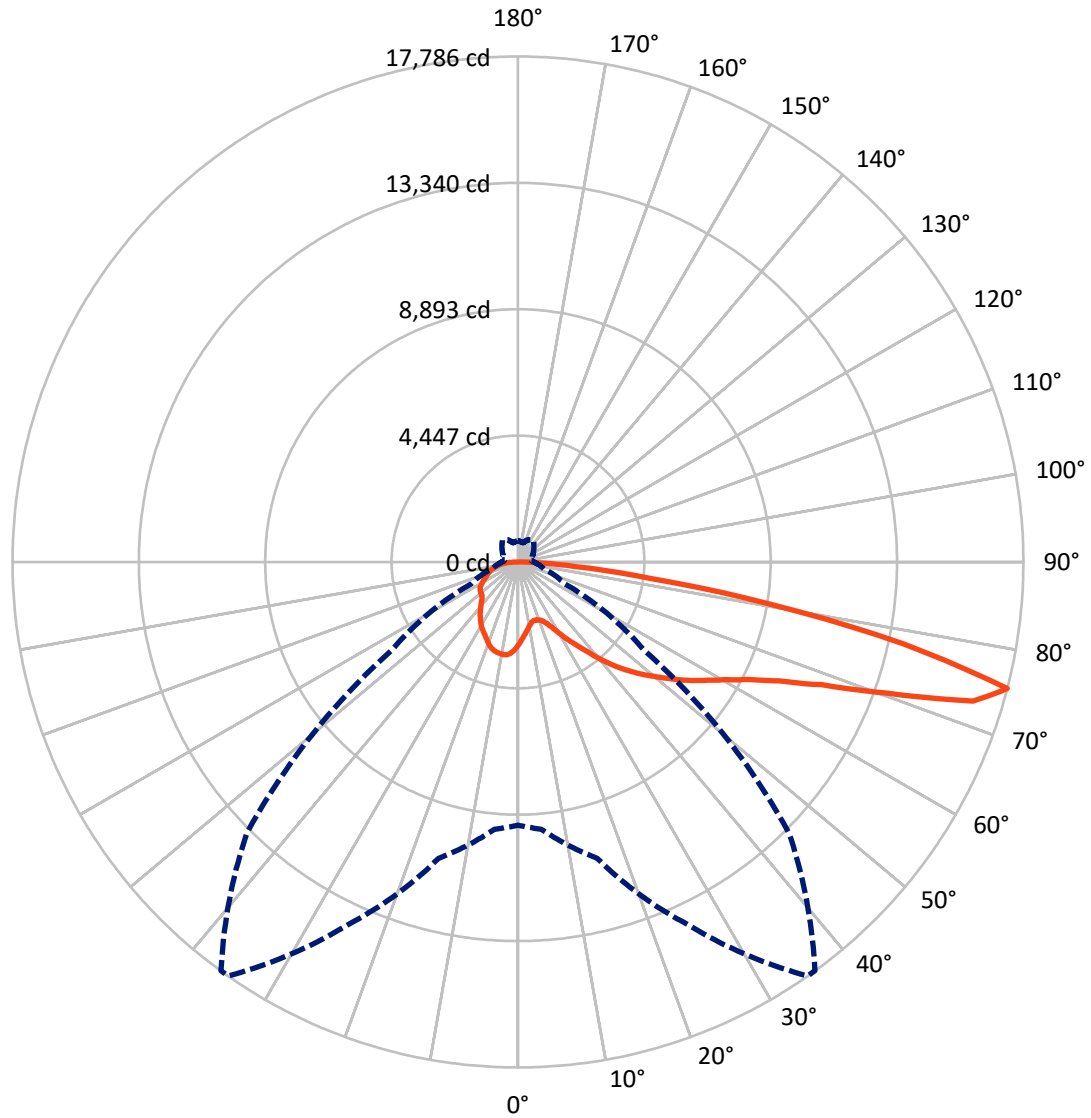
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5193.1	0.0	5193.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16628.9	0.0	16628.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	21822.0	0.0	21822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.3
10°-20°	794.2	3.6
20°-30°	1333.6	6.1
30°-40°	2072.6	9.5
40°-50°	3076.3	14.1
50°-60°	4247.0	19.5
60°-70°	5152.5	23.6
70°-80°	4258.2	19.5
80°-90°	612.5	2.8
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°	21822.0	100.0
0°-180°	21822.0	100.0

Coefficient of Utilization



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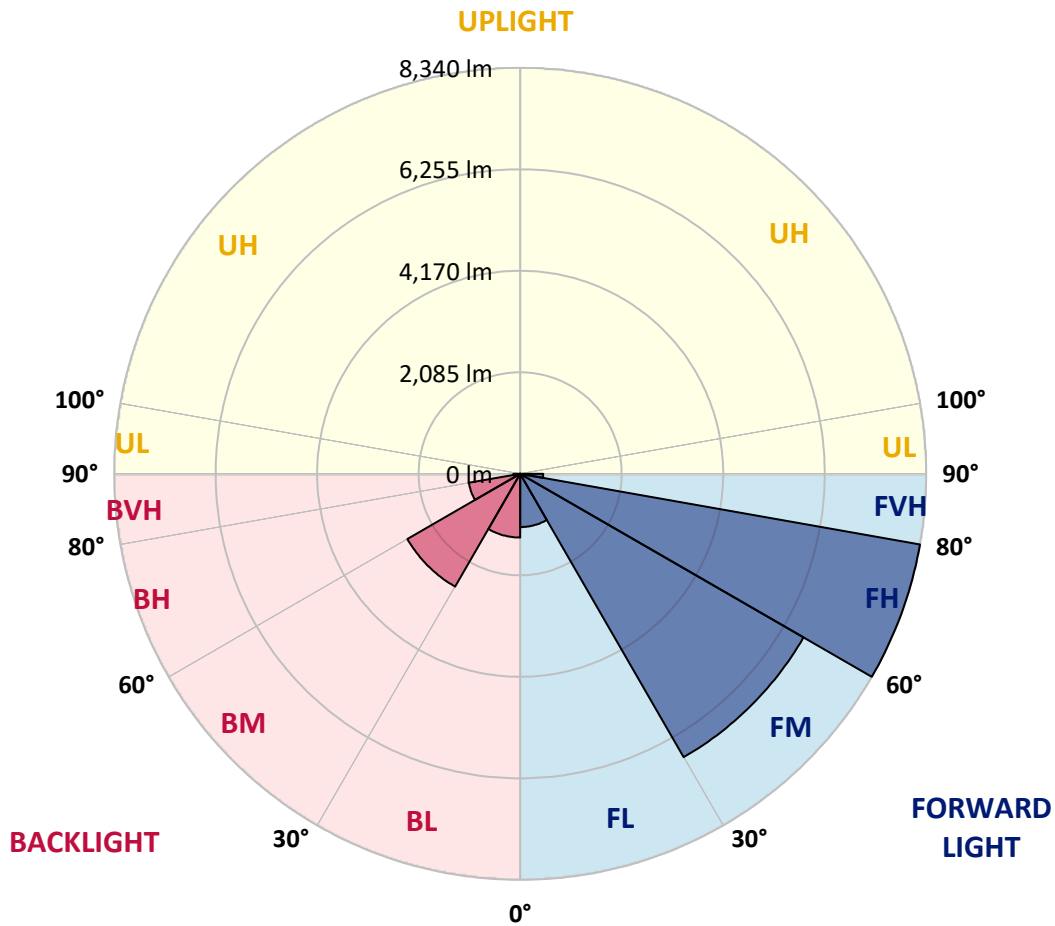
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.3	5.0			
FM (30°-60°)	6720.0	30.8			
FH (60°-80°)	8340.0	38.2			G4/12000
FVH (80°-90°)	474.5	2.2			G3/500
BL (0°-30°)	1308.7	6.0	B3/2500		
BM (30°-60°)	2675.8	12.3	B3/5000		
BH (60°-80°)	1070.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	137.9	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2.5°	2681.4	2697.9	2705.0	2701.5	2719.2	2716.8	2741.6	2772.3	2814.7	2856.0
5°	2475.0	2492.7	2508.0	2522.2	2556.4	2567.0	2605.9	2664.9	2742.8	2821.8
7.5°	2282.7	2298.0	2321.6	2347.6	2405.4	2416.0	2480.9	2572.9	2681.4	2797.0
10°	2125.8	2141.1	2165.9	2195.4	2267.4	2280.3	2362.9	2485.6	2627.2	2773.4
12.5°	2058.6	2063.3	2077.4	2106.9	2169.4	2177.7	2268.5	2408.9	2574.1	2755.7
15°	2055.0	2064.5	2065.6	2081.0	2132.9	2136.4	2220.2	2359.4	2541.0	2752.2
17.5°	2090.4	2097.5	2086.9	2096.3	2140.0	2145.9	2211.9	2335.8	2530.4	2767.5
20°	2184.8	2190.7	2158.8	2145.9	2177.7	2182.4	2247.3	2351.1	2541.0	2799.4
22.5°	2385.3	2388.9	2311.0	2257.9	2260.3	2262.6	2319.3	2413.6	2582.3	2857.2
25°	2697.9	2695.6	2571.7	2469.1	2410.1	2397.1	2434.9	2515.1	2651.9	2933.9
27.5°	3063.6	3046.0	2922.1	2768.7	2640.1	2621.3	2613.0	2647.2	2751.0	3035.3
30°	3476.5	3460.0	3326.7	3126.2	2948.0	2917.4	2839.5	2821.8	2898.5	3173.4
32.5°	3929.5	3918.9	3759.7	3516.6	3278.4	3243.0	3112.0	3064.8	3125.0	3382.2
35°	4309.4	4300.0	4167.8	3917.7	3626.4	3582.7	3449.4	3396.3	3427.0	3650.0
37.5°	4652.7	4648.0	4534.7	4337.7	4036.9	3983.8	3834.0	3816.3	3810.4	4002.7
40°	4971.2	4959.4	4841.4	4737.6	4514.7	4466.3	4334.2	4318.8	4274.0	4436.8
42.5°	5323.9	5293.3	5122.2	5073.8	5013.7	4973.6	4894.5	4896.9	4797.8	4926.4
45°	5611.8	5594.1	5418.3	5390.0	5454.9	5438.4	5506.8	5524.5	5332.2	5439.5
47.5°	5920.9	5904.3	5755.7	5735.6	5911.4	5916.1	6158.0	6163.9	5853.6	5972.8
50°	6301.9	6278.3	6130.8	6155.6	6352.6	6370.3	6812.7	6772.6	6333.7	6514.2
52.5°	6553.2	6567.3	6535.5	6575.6	6844.5	6861.1	7456.8	7354.2	6809.2	7048.6
55°	6738.4	6766.7	6865.8	6957.8	7363.6	7380.1	8064.3	7907.4	7203.2	7544.1
57.5°	6976.7	6936.6	7121.8	7301.1	7856.7	7900.4	8655.4	8440.7	7552.4	7971.1
60°	7318.8	7290.5	7434.4	7699.8	8408.8	8478.4	9280.6	8920.8	7808.4	8309.7
62.5°	8012.4	7941.7	7964.1	8198.8	9104.8	9196.8	9986.1	9339.6	7935.8	8441.8
65°	9049.4	8927.9	8814.6	8977.4	10085.1	10176.0	10782.3	9668.7	7888.6	8185.8
67.5°	10355.3	10235.0	10095.8	10249.1	11529.1	11601.0	11765.0	9853.9	7517.0	7199.6
70°	11432.3	11387.5	11553.9	12185.0	13835.4	13837.7	13024.9	9700.6	6498.9	5104.5
72.5°	11289.6	11262.5	12139.0	14090.2	16742.1	16679.6	14217.6	8539.8	4377.8	2302.7
75°	9261.7	9437.5	10795.3	14056.0	17786.1	17777.9	13487.4	5428.9	1810.8	954.4
77.5°	4966.5	5244.9	7008.5	10377.7	13884.9	14093.7	9482.3	1899.3	777.4	611.1
80°	1619.7	1862.7	2793.5	5283.8	9022.2	8983.3	4064.0	745.6	532.0	432.9
82.5°	687.8	716.1	1248.1	2495.0	4630.3	4558.3	1294.1	428.2	374.0	296.1
85°	269.0	300.8	550.9	1153.7	2005.5	1961.8	467.2	212.3	239.5	193.5
87.5°	88.5	107.4	197.0	395.2	624.1	601.6	114.4	73.1	103.8	88.5
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°
2907.9	0°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2916.2	2.5°	2932.7	2951.6	2974.0	3007.0	3035.3	3058.9	3083.7	3099.0	3104.9	3122.6
2920.9	5°	2953.9	2995.2	3050.7	3104.9	3158.0	3189.9	3218.2	3232.3	3245.3	3254.8
2933.9	7.5°	2989.3	3042.4	3129.7	3200.5	3245.3	3271.3	3290.1	3285.4	3290.1	3292.5
2948.0	10°	3020.0	3094.3	3198.1	3265.4	3299.6	3300.8	3296.0	3279.5	3271.3	3272.5
2969.3	12.5°	3056.6	3139.1	3251.2	3307.8	3317.3	3291.3	3271.3	3243.0	3232.3	3227.6
3001.1	15°	3106.1	3200.5	3309.0	3330.3	3306.7	3273.6	3239.4	3193.4	3169.8	3150.9
3055.4	17.5°	3166.3	3270.1	3353.9	3338.5	3287.8	3233.5	3178.1	3108.5	3060.1	3040.1
3129.7	20°	3250.0	3343.2	3388.1	3320.8	3244.1	3161.6	3067.2	2982.2	2937.4	2917.4
3224.1	22.5°	3351.5	3441.1	3421.1	3290.1	3181.6	3049.5	2931.5	2869.0	2846.6	2832.4
3345.6	25°	3473.0	3549.7	3444.7	3245.3	3079.0	2900.9	2810.0	2790.0	2779.3	2768.7
3494.2	27.5°	3631.1	3672.4	3462.4	3179.3	2918.5	2742.8	2709.7	2713.3	2709.7	2692.0
3700.7	30°	3839.9	3831.6	3478.9	3071.9	2734.5	2600.0	2602.4	2617.7	2620.1	2608.3
3988.5	32.5°	4114.7	4031.0	3487.2	2932.7	2558.7	2475.0	2477.3	2493.9	2505.7	2485.6
4364.8	35°	4447.4	4263.4	3474.2	2758.1	2423.1	2355.8	2338.1	2342.9	2346.4	2327.5
4821.4	37.5°	4835.5	4524.1	3416.4	2564.6	2311.0	2239.0	2201.3	2169.4	2150.6	2132.9
5338.1	40°	5261.4	4808.4	3310.2	2375.9	2186.0	2115.2	2058.6	1998.4	1934.7	1911.1
5885.5	42.5°	5707.3	5101.0	3181.6	2195.4	2042.0	1984.2	1924.1	1836.8	1741.2	1692.9
6454.1	45°	6169.8	5400.6	3055.4	2017.3	1894.6	1869.8	1800.2	1695.2	1591.4	1530.1
7023.9	47.5°	6622.8	5683.7	2870.2	1838.0	1756.6	1783.7	1729.4	1632.7	1517.1	1420.3
7588.9	50°	7055.7	5949.2	2567.0	1656.3	1644.5	1757.7	1705.8	1566.6	1434.5	1310.6
8143.4	52.5°	7485.1	6163.9	2178.9	1491.1	1584.3	1750.7	1675.2	1521.8	1360.2	1230.4
8664.8	55°	7849.6	6274.8	1804.9	1349.6	1497.0	1690.5	1638.6	1468.7	1255.2	1117.2
9022.2	57.5°	8057.3	6185.1	1493.5	1210.4	1376.7	1591.4	1576.1	1355.5	1130.1	1024.0
9091.8	60°	7967.6	5821.8	1238.7	1088.9	1262.3	1484.0	1467.5	1243.4	1034.6	934.3
8719.1	62.5°	7473.3	5129.3	1036.9	982.7	1158.5	1374.3	1359.0	1157.3	961.4	864.7
7729.3	65°	6477.7	4172.6	880.0	894.2	1053.5	1242.2	1264.6	1085.3	903.6	809.3
5979.8	67.5°	4940.5	3022.4	757.4	817.5	950.8	1112.4	1177.3	1033.4	855.3	765.6
3460.0	70°	2815.9	1716.4	653.5	743.2	860.0	992.1	1110.1	992.1	803.4	729.0
1296.5	72.5°	1067.6	788.0	565.1	668.9	772.7	890.7	1035.8	927.2	743.2	687.8
670.1	75°	569.8	480.1	475.4	581.6	672.4	791.6	942.6	863.5	698.4	726.7
463.6	77.5°	388.1	339.7	397.6	497.8	562.7	681.9	843.5	766.8	605.2	602.8
320.9	80°	269.0	240.7	323.2	401.1	435.3	573.3	736.1	658.3	493.1	460.1
198.2	82.5°	161.6	156.9	241.8	299.6	307.9	442.4	609.9	552.1	403.5	351.5
118.0	85°	88.5	93.2	154.5	175.8	179.3	309.1	477.8	427.0	310.3	260.7
42.5	87.5°	24.8	31.9	56.6	69.6	86.1	160.4	284.3	253.6	155.7	108.5
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>
2907.9
3121.5
3257.1
3296.0
3274.8
3225.3
3156.8
3041.2
2915.0
2834.8
2768.7
2695.6
2614.2
2495.0
2340.5
2144.7
1921.7
1698.7
1525.3
1409.7
1300.0
1216.3
1105.4
1009.8
920.2
849.4
793.9
751.5
719.6
678.3
750.3
555.6
440.0
353.9
263.1
108.5
0.0

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