

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: P941722

Luminaire Tested: **GALN-SB5B-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
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-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

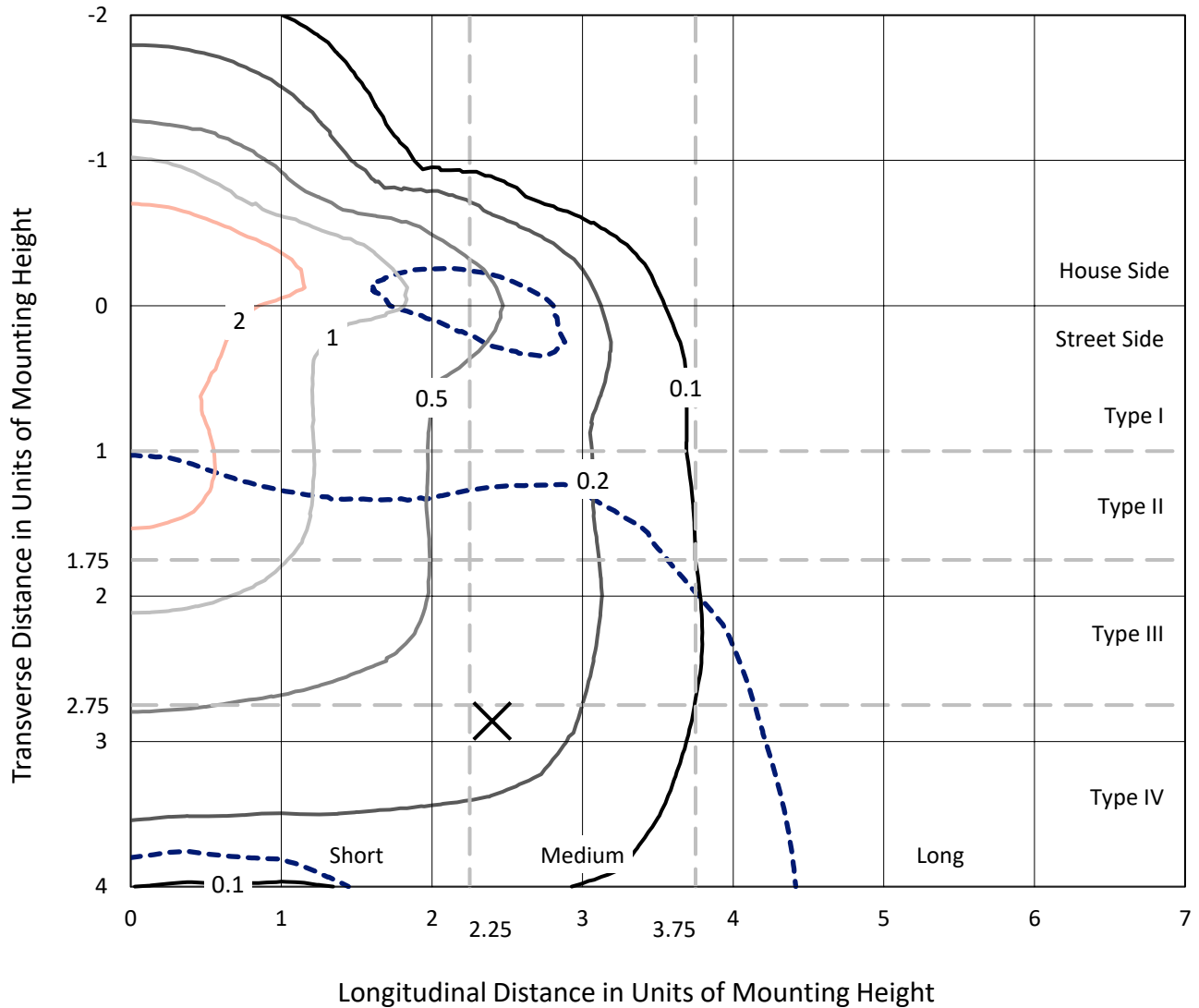
Lumens per Lamp: N/A  
Luminaire Lumens: 17163 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

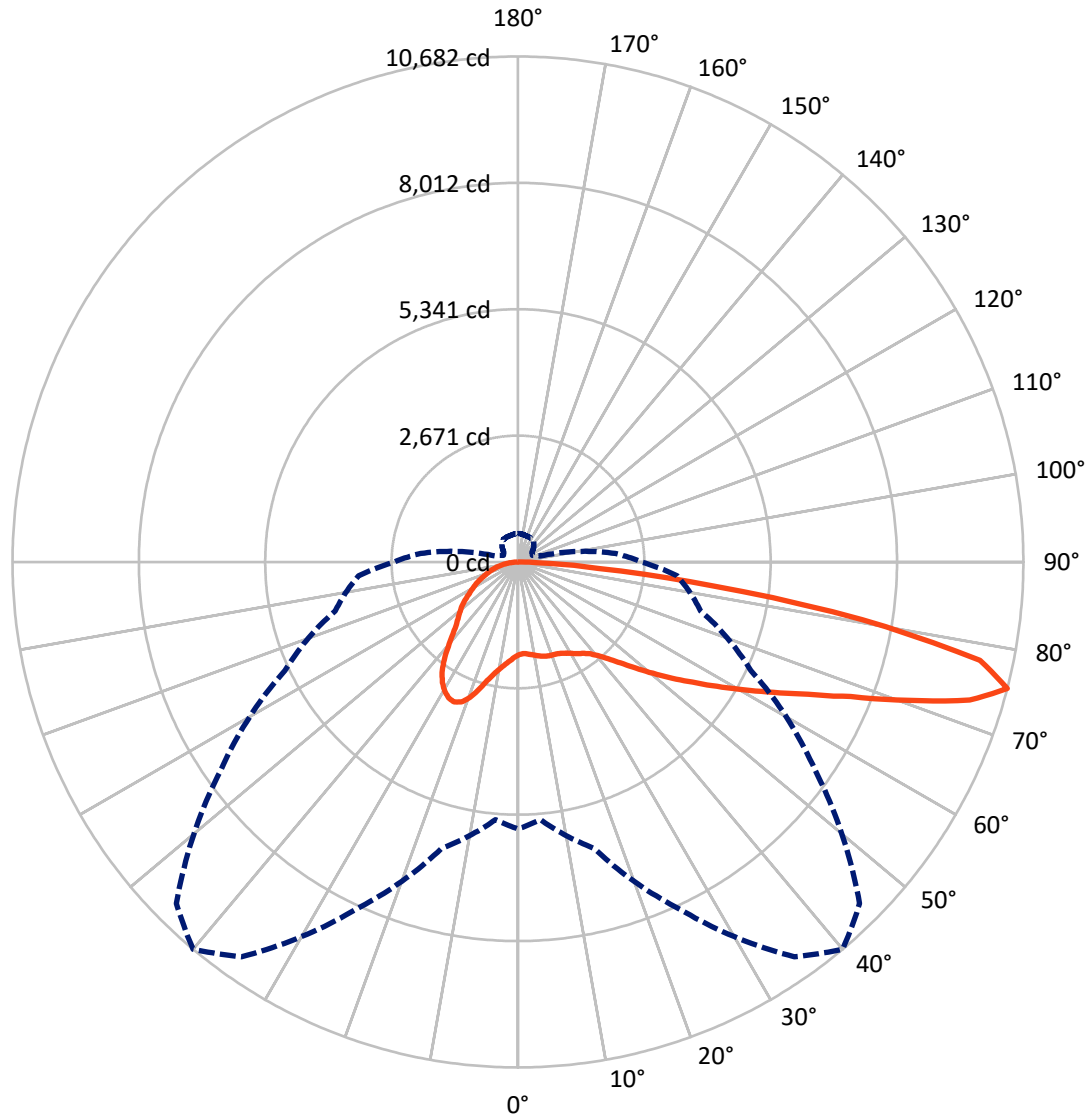
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5317.7	0.0	5317.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	11845.3	0.0	11845.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	17163.0	0.0	17163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	1.1
10°-20°	657.7	3.8
20°-30°	1201.0	7.0
30°-40°	1703.3	9.9
40°-50°	2300.0	13.4
50°-60°	3094.1	18.0
60°-70°	3927.2	22.9
70°-80°	3564.2	20.8
80°-90°	519.5	3.0
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°	17163.0	100.0
0°-180°	17163.0	100.0

**Coefficient of Utilization**



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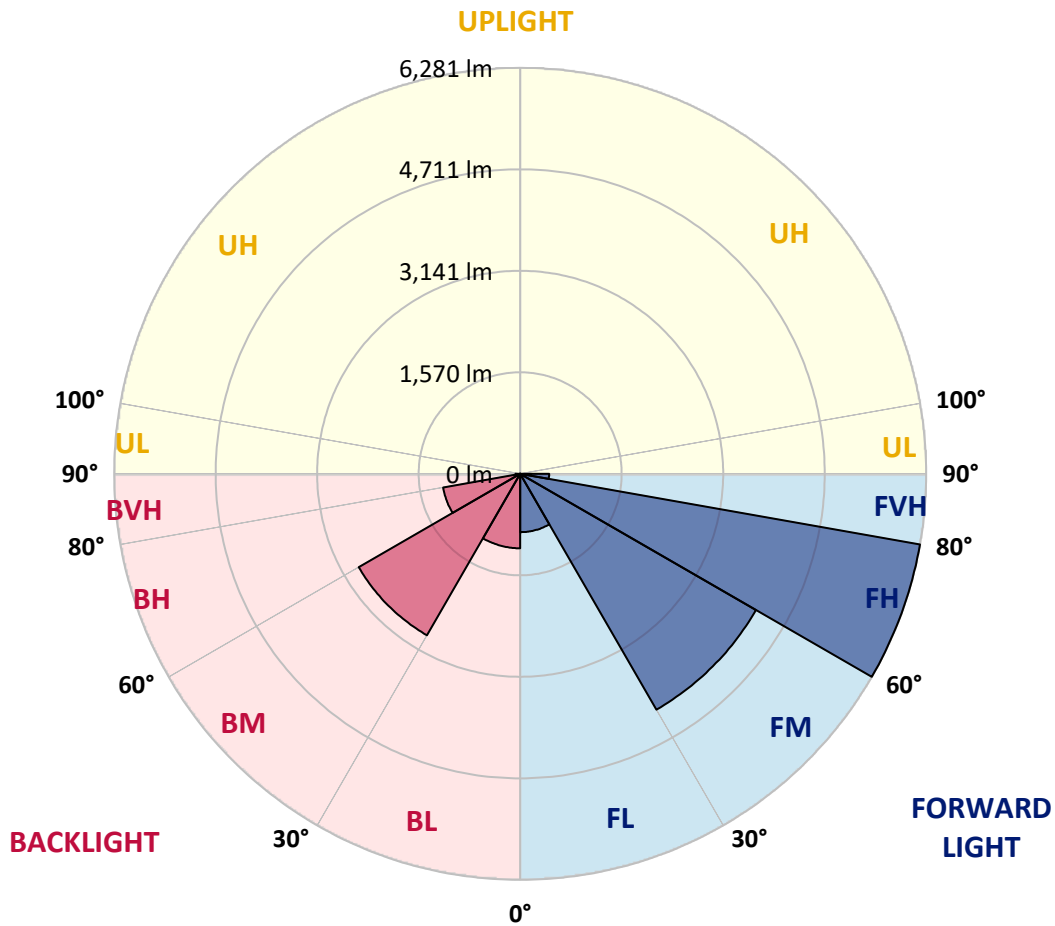
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.8	5.3			
FM (30°-60°)	4213.1	24.5			
FH (60°-80°)	6281.4	36.6			G3/7500
FVH (80°-90°)	448.0	2.6			G3/500
BL (0°-30°)	1151.9	6.7	B3/2500		
BM (30°-60°)	2884.4	16.8	B3/5000		
BH (60°-80°)	1209.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	71.5	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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6
2.5°	1932.6	1943.5	1940.8	1937.1	1937.1	1938.0	1937.1	1943.5	1949.9	1956.2
5°	1952.6	1963.5	1958.1	1953.5	1949.9	1949.0	1946.2	1945.3	1949.0	1957.2
7.5°	1991.7	2002.7	1994.5	1986.3	1979.0	1975.4	1971.7	1966.3	1963.5	1968.1
10°	2035.4	2046.4	2036.3	2021.8	2009.9	2005.4	2001.8	1996.3	1992.7	1995.4
12.5°	2079.1	2090.1	2076.4	2056.4	2040.9	2038.2	2033.6	2031.8	2030.9	2030.0
15°	2120.1	2129.2	2111.9	2088.2	2071.8	2067.3	2062.7	2065.5	2070.0	2075.5
17.5°	2152.0	2161.1	2135.6	2104.6	2089.1	2087.3	2084.6	2093.7	2106.4	2120.1
20°	2181.1	2190.2	2157.4	2115.5	2097.3	2097.3	2098.2	2117.4	2135.6	2155.6
22.5°	2222.0	2229.3	2189.3	2131.9	2105.5	2107.3	2114.6	2133.7	2156.5	2183.8
25°	2283.0	2288.5	2239.3	2162.9	2132.8	2138.3	2144.7	2153.8	2175.6	2207.5
27.5°	2381.4	2385.9	2321.3	2217.5	2172.0	2181.1	2190.2	2183.8	2193.8	2221.1
30°	2519.7	2522.4	2440.5	2303.1	2238.4	2243.0	2244.8	2218.4	2199.3	2221.1
32.5°	2683.6	2682.7	2585.3	2406.8	2314.0	2309.4	2294.0	2242.1	2197.5	2216.6
35°	2937.5	2927.5	2801.9	2552.5	2399.6	2371.3	2334.9	2268.5	2206.6	2212.0
37.5°	3358.1	3327.2	3153.3	2791.0	2527.0	2455.1	2401.4	2311.3	2226.6	2210.2
40°	3832.4	3793.2	3602.1	3117.8	2718.2	2602.6	2516.1	2372.2	2259.4	2218.4
42.5°	4394.9	4339.4	4133.7	3502.8	2960.3	2792.8	2662.6	2449.6	2307.6	2244.8
45°	5085.9	5012.1	4720.8	3937.1	3265.3	3042.2	2868.4	2567.1	2381.4	2295.8
47.5°	5784.1	5802.3	5388.1	4434.1	3631.2	3349.9	3126.0	2743.7	2488.8	2377.7
50°	6526.0	6538.7	6051.7	4984.8	4046.3	3697.6	3415.5	2941.2	2638.1	2494.2
52.5°	7104.9	7106.7	6654.3	5561.0	4478.7	4080.0	3727.7	3166.9	2811.0	2649.0
55°	7467.2	7462.7	7076.7	6106.3	4975.7	4481.4	4073.6	3423.6	3022.2	2831.0
57.5°	7730.3	7716.6	7368.0	6575.1	5505.5	4955.7	4465.0	3714.9	3271.6	3047.7
60°	7830.4	7822.2	7565.5	6980.2	6062.6	5480.0	4916.5	4040.8	3554.7	3303.5
62.5°	7868.7	7884.1	7759.4	7372.5	6658.9	6060.8	5412.7	4430.4	3873.3	3593.0
65°	8003.4	8031.6	8006.1	7885.9	7332.5	6740.8	6070.8	4893.8	4221.1	3903.4
67.5°	8270.1	8298.3	8309.2	8500.4	8155.4	7588.3	6891.9	5470.9	4628.0	4225.6
70°	8263.7	8255.5	8448.5	8989.2	9185.9	8761.7	7998.8	6181.0	5113.2	4493.3
72.5°	7521.8	7456.3	7912.3	8983.8	10043.4	9986.9	9350.6	7096.7	5531.9	4526.0
75°	5643.0	5468.2	6273.8	8096.2	10186.3	10682.4	10210.0	7664.7	5432.7	3999.0
77.5°	2413.2	2237.5	3187.0	5993.4	9116.7	9986.0	9421.6	6687.1	4336.7	2644.4
80°	631.7	630.8	963.1	2717.3	6200.1	7374.4	6469.5	4318.5	2477.8	944.9
82.5°	261.3	254.9	354.1	1056.9	3029.5	4138.2	3377.2	1926.2	894.8	255.8
85°	97.4	96.5	172.0	365.0	1068.7	1706.8	1235.3	492.5	223.0	124.7
87.5°	27.3	26.4	37.3	126.5	260.3	395.1	211.2	81.0	62.8	49.2
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°
1962.6	0°	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6	1962.6
1966.3	2.5°	1969.0	1973.5	1981.7	1988.1	1996.3	2005.4	2018.1	2026.3	2034.5	2040.0
1970.8	5°	1977.2	1987.2	2008.1	2029.1	2053.6	2076.4	2102.8	2121.9	2137.4	2141.9
1987.2	7.5°	1995.4	2011.8	2047.3	2082.8	2121.9	2159.2	2197.5	2230.2	2256.6	2266.7
2016.3	10°	2027.2	2049.1	2099.2	2149.2	2201.1	2258.5	2307.6	2355.0	2392.3	2407.7
2050.9	12.5°	2067.3	2094.6	2160.1	2229.3	2301.2	2380.4	2444.2	2502.4	2548.8	2569.8
2099.2	15°	2119.2	2154.7	2238.4	2331.3	2436.9	2547.0	2628.0	2692.7	2744.6	2770.1
2149.2	17.5°	2175.6	2223.0	2328.6	2468.7	2619.9	2764.6	2859.3	2906.6	2960.3	2984.9
2195.6	20°	2230.2	2288.5	2439.6	2643.5	2844.7	2998.5	3075.0	3087.7	3091.4	3094.1
2239.3	22.5°	2286.7	2365.0	2578.9	2863.8	3079.6	3186.1	3197.0	3142.4	3065.9	3030.4
2282.1	25°	2348.6	2452.4	2760.9	3106.9	3281.6	3294.4	3210.6	3077.7	2933.0	2866.5
2316.7	27.5°	2408.7	2553.4	2979.4	3339.0	3427.3	3315.3	3135.1	2946.6	2771.9	2701.8
2341.3	30°	2468.7	2669.0	3220.6	3542.0	3493.7	3263.4	3015.8	2805.6	2629.9	2556.1
2363.1	32.5°	2529.7	2803.7	3498.3	3688.5	3481.9	3153.3	2867.5	2647.2	2492.4	2415.0
2382.3	35°	2598.9	2969.4	3761.4	3768.7	3402.7	2991.3	2671.7	2457.8	2323.1	2261.2
2405.0	37.5°	2689.0	3179.7	3993.5	3788.7	3264.3	2753.7	2428.7	2233.9	2122.8	2094.6
2438.7	40°	2801.0	3432.8	4171.0	3756.8	3059.5	2465.1	2162.9	2007.2	1944.4	1950.8
2484.2	42.5°	2946.6	3715.9	4295.7	3674.9	2774.6	2167.4	1929.8	1860.7	1890.7	1916.2
2552.5	45°	3136.0	4009.9	4373.1	3535.6	2452.4	1915.3	1792.4	1808.8	1831.5	1834.3
2662.6	47.5°	3378.1	4307.6	4424.1	3325.3	2123.7	1737.8	1705.0	1708.6	1704.1	1685.0
2827.4	50°	3680.4	4597.0	4469.6	3046.8	1844.3	1626.7	1583.0	1570.3	1507.5	1445.6
3046.8	52.5°	4024.4	4862.8	4488.7	2700.9	1626.7	1533.9	1462.9	1382.7	1265.3	1246.2
3322.6	55°	4406.8	5108.6	4439.5	2275.8	1443.7	1414.6	1307.2	1210.7	1198.0	1181.6
3685.8	57.5°	4863.7	5373.5	4339.4	1801.5	1256.2	1275.3	1170.6	1181.6	1158.8	1133.3
4152.8	60°	5363.5	5647.5	4163.7	1369.1	1062.3	1101.5	1135.1	1134.2	1127.9	1106.9
4645.3	62.5°	5813.2	5827.8	3817.8	1048.7	892.1	966.7	1058.7	1057.8	1052.3	1040.5
5159.6	65°	6080.8	5800.4	3240.7	825.6	751.9	855.7	954.9	962.2	963.1	962.2
5546.5	67.5°	6033.5	5480.9	2448.7	657.2	636.3	742.8	852.0	862.1	869.3	871.2
5595.6	70°	5498.2	4779.1	1596.7	524.3	533.4	643.6	754.6	764.7	771.0	778.3
4855.6	72.5°	4285.7	3513.8	913.9	424.2	443.3	558.0	658.1	670.0	673.6	687.3
3379.0	75°	2611.7	2066.4	493.4	334.1	364.1	477.0	562.6	576.2	582.6	599.0
1659.5	77.5°	1241.7	894.8	281.3	260.3	293.1	389.6	475.2	490.7	473.4	482.5
457.9	80°	419.6	332.3	177.5	198.4	223.9	304.0	380.5	396.0	359.6	357.7
152.0	82.5°	146.6	134.7	112.9	132.0	144.7	217.6	287.7	307.7	267.6	266.7
68.3	85°	57.3	54.6	62.8	71.9	86.5	133.8	189.3	199.4	164.8	132.9
20.0	87.5°	11.8	12.7	15.5	16.4	26.4	46.4	68.3	83.7	66.5	56.4
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>
1962.6
2036.3
2143.8
2267.6
2408.7
2569.8
2768.2
2984.0
3101.4
3040.4
2876.6
2710.0
2564.3
2425.0
2274.8
2114.6
1972.6
1939.9
1852.5
1699.5
1453.8
1252.6
1184.3
1128.8
1099.6
1035.9
962.2
873.0
781.9
692.7
600.8
475.2
354.1
254.0
131.1
51.9
0.0

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