

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: P941502

Luminaire Tested: **GALN-SB5A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941502  
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-SB5A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

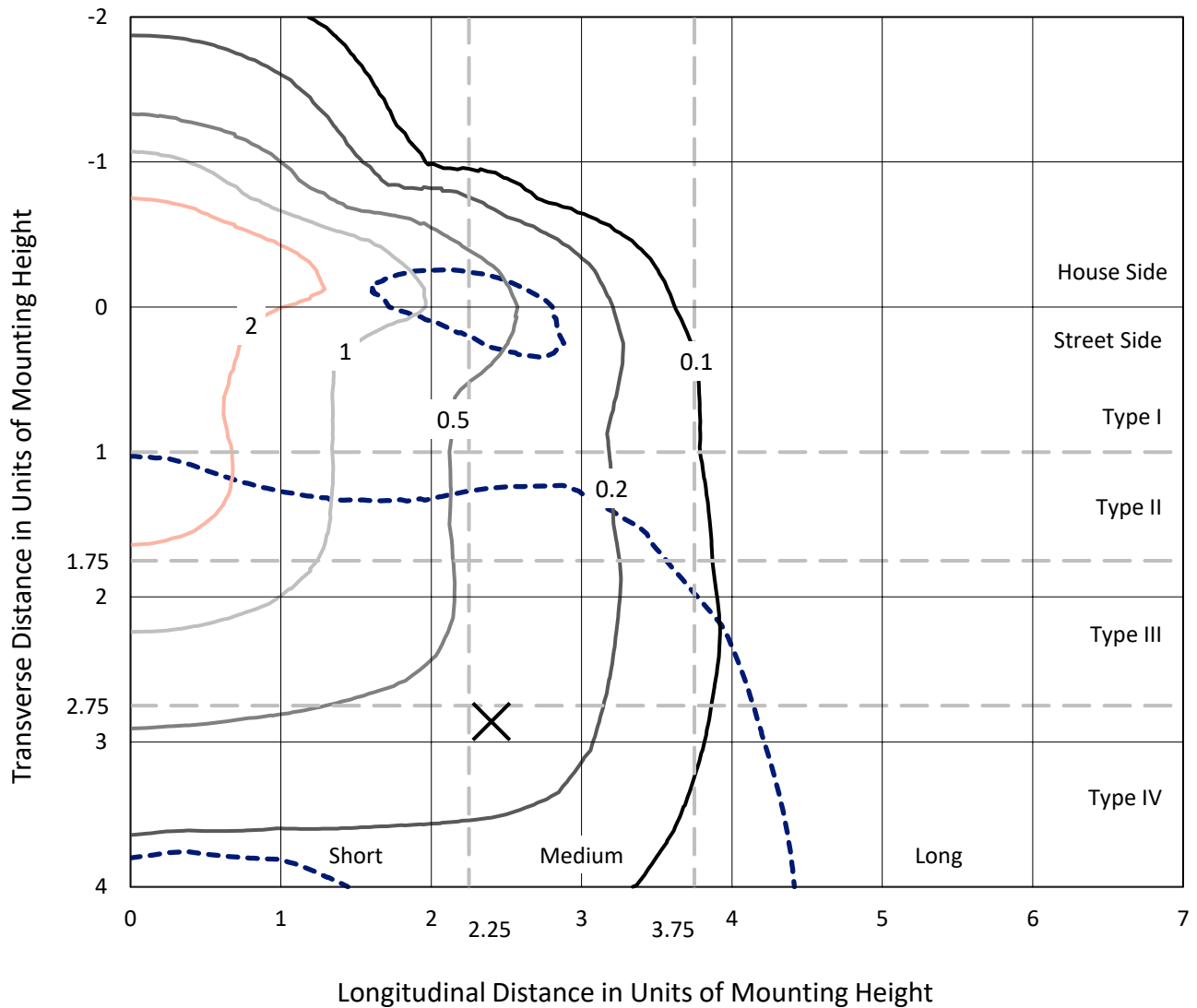
Lumens per Lamp: N/A  
Luminaire Lumens: 19532 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

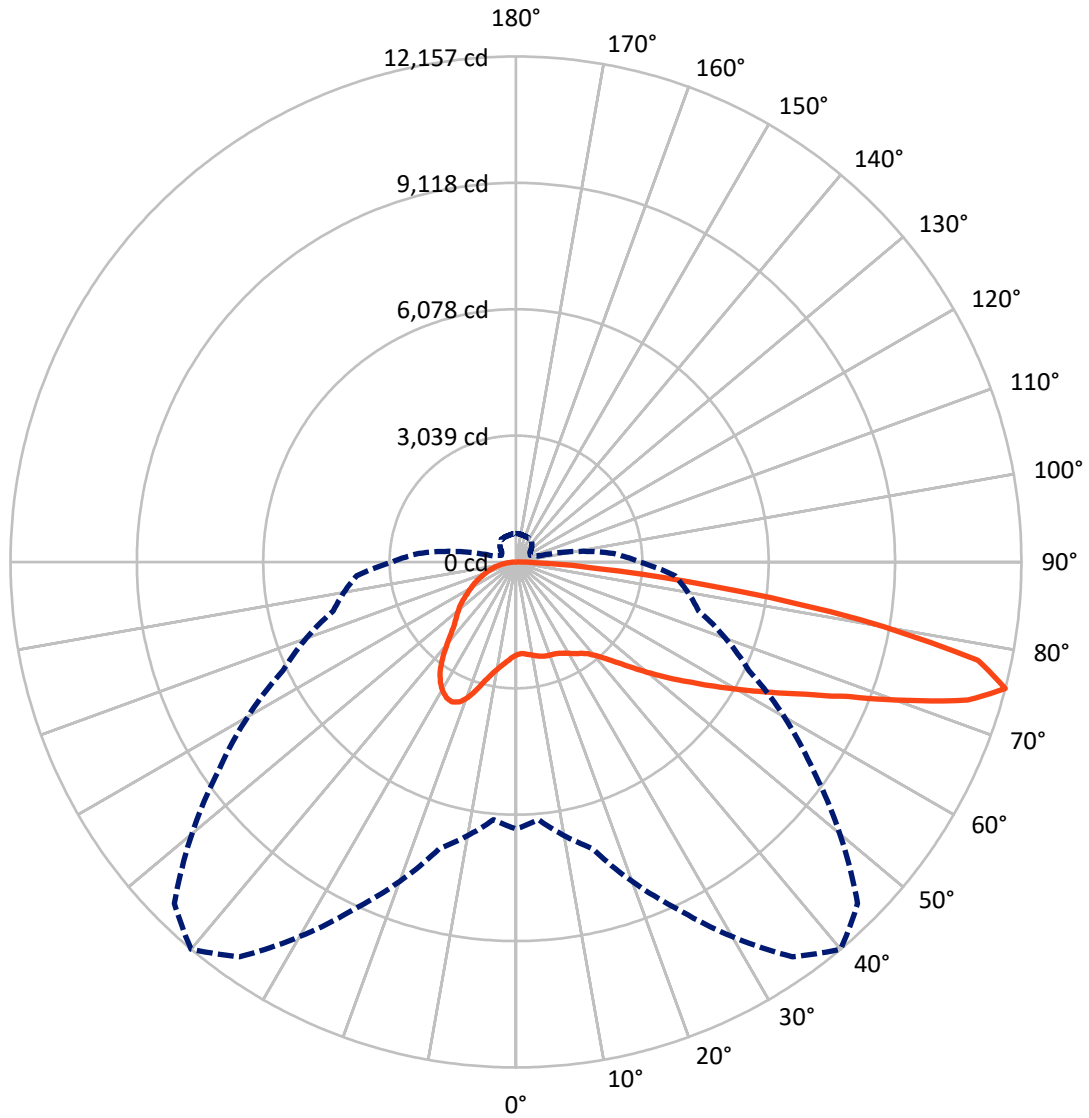
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	6051.7	0.0	6051.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	13480.3	0.0	13480.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	19532.0	0.0	19532.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.9	1.1
10°-20°	748.5	3.8
20°-30°	1366.8	7.0
30°-40°	1938.4	9.9
40°-50°	2617.5	13.4
50°-60°	3521.2	18.0
60°-70°	4469.2	22.9
70°-80°	4056.1	20.8
80°-90°	591.2	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°	19532.0	100.0
0°-180°	19532.0	100.0



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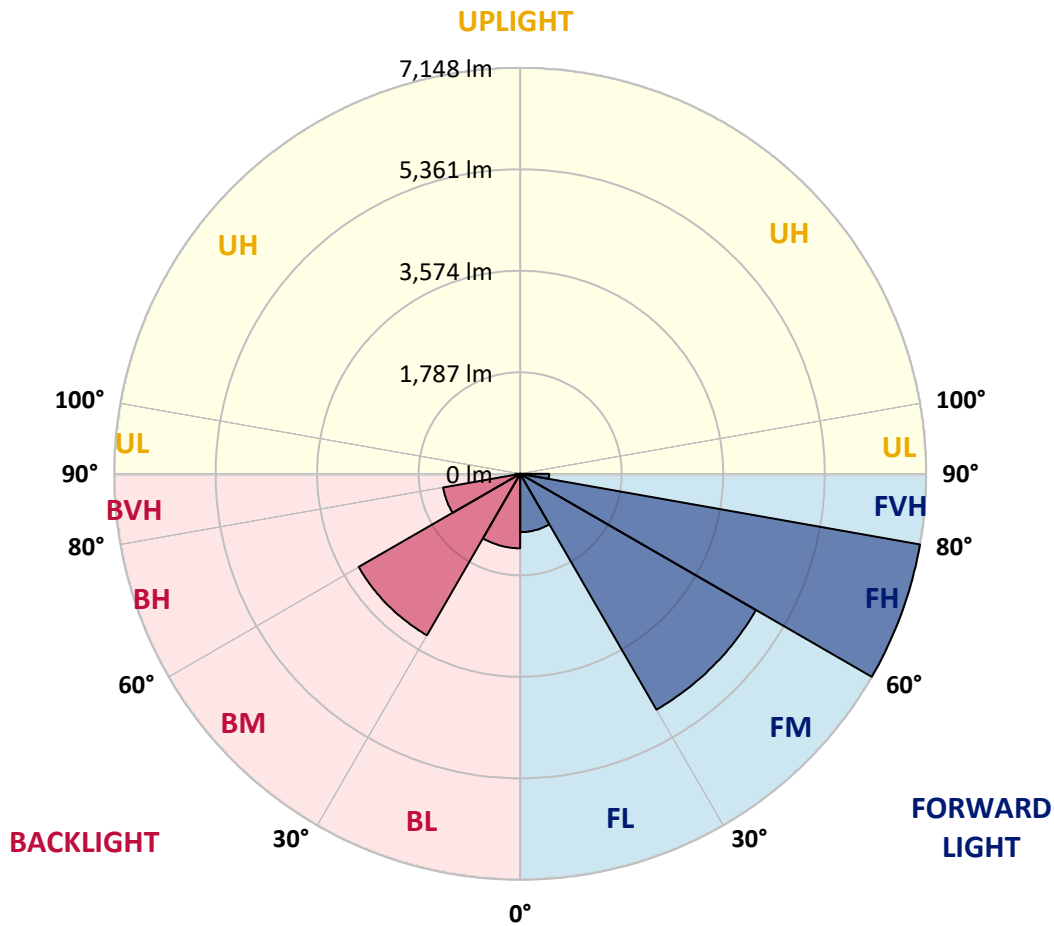
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.4	5.3			
FM (30°-60°)	4794.7	24.5			
FH (60°-80°)	7148.4	36.6			G3/7500
FVH (80°-90°)	509.8	2.6			G4/750
BL (0°-30°)	1310.8	6.7	B3/2500		
BM (30°-60°)	3282.5	16.8	B3/5000		
BH (60°-80°)	1376.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.4	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-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5
2.5°	2199.3	2211.8	2208.6	2204.5	2204.5	2205.5	2204.5	2211.8	2219.0	2226.3
5°	2222.1	2234.5	2228.3	2223.2	2219.0	2218.0	2214.9	2213.8	2218.0	2227.3
7.5°	2266.7	2279.1	2269.8	2260.4	2252.2	2248.0	2243.9	2237.7	2234.5	2239.7
10°	2316.4	2328.8	2317.4	2300.8	2287.4	2282.2	2278.1	2271.8	2267.7	2270.8
12.5°	2366.1	2378.5	2363.0	2340.2	2322.6	2319.5	2314.3	2312.2	2311.2	2310.2
15°	2412.7	2423.1	2403.4	2376.5	2357.8	2352.6	2347.5	2350.6	2355.8	2362.0
17.5°	2449.0	2459.3	2430.3	2395.1	2377.5	2375.4	2372.3	2382.7	2397.2	2412.7
20°	2482.1	2492.5	2455.2	2407.5	2386.8	2386.8	2387.9	2409.6	2430.3	2453.1
22.5°	2528.8	2537.0	2491.5	2426.2	2396.2	2398.2	2406.5	2428.3	2454.2	2485.2
25°	2598.2	2604.4	2548.4	2461.4	2427.2	2433.4	2440.7	2451.1	2475.9	2512.2
27.5°	2710.0	2715.2	2641.7	2523.6	2471.8	2482.1	2492.5	2485.2	2496.6	2527.7
30°	2867.5	2870.6	2777.4	2621.0	2547.4	2552.6	2554.7	2524.6	2502.9	2527.7
32.5°	3054.0	3052.9	2942.1	2739.1	2633.4	2628.2	2610.6	2551.5	2500.8	2522.5
35°	3343.0	3331.6	3188.7	2904.8	2730.8	2698.7	2657.2	2581.6	2511.1	2517.4
37.5°	3821.6	3786.4	3588.5	3176.2	2875.8	2794.0	2732.8	2630.3	2533.9	2515.3
40°	4361.4	4316.8	4099.3	3548.1	3093.3	2961.8	2863.4	2699.7	2571.2	2524.6
42.5°	5001.6	4938.4	4704.3	3986.3	3368.9	3178.3	3030.2	2787.7	2626.1	2554.7
45°	5787.9	5703.9	5372.4	4480.5	3716.0	3462.1	3264.3	2921.4	2710.0	2612.7
47.5°	6582.4	6603.2	6131.8	5046.1	4132.4	3812.3	3557.5	3122.4	2832.3	2705.9
50°	7426.7	7441.2	6887.0	5672.9	4604.8	4208.0	3886.9	3347.2	3002.2	2838.5
52.5°	8085.6	8087.7	7572.8	6328.6	5096.9	4643.1	4242.2	3604.1	3199.0	3014.6
55°	8497.9	8492.7	8053.5	6949.2	5662.5	5100.0	4635.9	3896.2	3439.4	3221.8
57.5°	8797.3	8781.8	8385.0	7482.7	6265.4	5639.7	5081.3	4227.7	3723.2	3468.4
60°	8911.2	8901.9	8609.8	7943.7	6899.4	6236.4	5595.2	4598.6	4045.4	3759.5
62.5°	8954.8	8972.4	8830.4	8390.2	7578.0	6897.4	6159.8	5042.0	4408.0	4088.9
65°	9108.1	9140.2	9111.2	8974.4	8344.6	7671.2	6908.8	5569.3	4803.7	4442.2
67.5°	9411.6	9443.7	9456.2	9673.7	9281.1	8635.7	7843.2	6226.1	5266.8	4808.9
70°	9404.4	9395.0	9614.7	10230.0	10453.8	9971.0	9102.9	7034.1	5818.9	5113.5
72.5°	8560.1	8485.5	9004.5	10223.8	11429.6	11365.4	10641.3	8076.3	6295.5	5150.7
75°	6421.9	6223.0	7139.8	9213.7	11592.3	12156.9	11619.2	8722.7	6182.6	4550.9
77.5°	2746.3	2546.4	3626.9	6820.7	10375.0	11364.4	10722.1	7610.1	4935.3	3009.4
80°	718.9	717.9	1096.0	3092.3	7055.9	8392.2	7362.5	4914.6	2819.9	1075.3
82.5°	297.3	290.1	403.0	1202.7	3447.6	4709.4	3843.4	2192.1	1018.3	291.1
85°	110.8	109.8	195.8	415.4	1216.2	1942.4	1405.8	560.4	253.8	141.9
87.5°	31.1	30.0	42.5	144.0	296.3	449.6	240.3	92.2	71.5	55.9
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°
2233.5	0°	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5	2233.5
2237.7	2.5°	2240.8	2245.9	2255.3	2262.5	2271.8	2282.2	2296.7	2306.0	2315.4	2321.6
2242.8	5°	2250.1	2261.5	2285.3	2309.1	2337.1	2363.0	2393.0	2414.8	2432.4	2437.6
2261.5	7.5°	2270.8	2289.5	2329.9	2370.3	2414.8	2457.3	2500.8	2538.1	2568.1	2579.5
2294.6	10°	2307.1	2331.9	2388.9	2445.9	2504.9	2570.2	2626.1	2680.0	2722.5	2740.1
2334.0	12.5°	2352.6	2383.7	2458.3	2537.0	2618.9	2709.0	2781.5	2847.8	2900.7	2924.5
2388.9	15°	2411.7	2452.1	2547.4	2653.1	2773.2	2898.6	2990.8	3064.3	3123.4	3152.4
2445.9	17.5°	2475.9	2529.8	2650.0	2809.5	2981.5	3146.2	3253.9	3307.8	3368.9	3396.9
2498.7	20°	2538.1	2604.4	2776.3	3008.4	3237.3	3412.4	3499.4	3513.9	3518.1	3521.2
2548.4	22.5°	2602.3	2691.4	2934.8	3259.1	3504.6	3625.8	3638.3	3576.1	3489.1	3448.7
2597.1	25°	2672.8	2790.9	3142.0	3535.7	3734.6	3749.1	3653.8	3502.6	3337.8	3262.2
2636.5	27.5°	2741.1	2905.8	3390.7	3799.9	3900.4	3772.9	3567.8	3353.4	3154.5	3074.7
2664.5	30°	2809.5	3037.4	3665.2	4030.9	3976.0	3713.9	3432.1	3192.8	2992.9	2909.0
2689.3	32.5°	2878.9	3190.7	3981.2	4197.7	3962.5	3588.5	3263.2	3012.5	2836.4	2748.4
2711.1	35°	2957.6	3379.3	4280.5	4288.8	3872.4	3404.1	3040.5	2797.1	2643.7	2573.3
2737.0	37.5°	3060.2	3618.6	4544.7	4311.6	3714.9	3133.8	2763.9	2542.2	2415.8	2383.7
2775.3	40°	3187.6	3906.6	4746.7	4275.4	3481.8	2805.4	2461.4	2284.3	2212.8	2220.0
2827.1	42.5°	3353.4	4228.8	4888.7	4182.1	3157.6	2466.6	2196.2	2117.5	2151.7	2180.7
2904.8	45°	3568.9	4563.4	4976.7	4023.6	2790.9	2179.6	2039.8	2058.4	2084.3	2087.4
3030.2	47.5°	3844.4	4902.1	5034.7	3784.3	2416.9	1977.6	1940.3	1944.5	1939.3	1917.5
3217.7	50°	4188.3	5231.6	5086.5	3467.3	2098.8	1851.2	1801.5	1787.0	1715.5	1645.1
3467.3	52.5°	4579.9	5534.0	5108.3	3073.7	1851.2	1745.6	1664.8	1573.6	1440.0	1418.2
3781.2	55°	5015.0	5813.8	5052.3	2589.9	1643.0	1609.9	1487.6	1377.8	1363.3	1344.7
4194.6	57.5°	5535.1	6115.2	4938.4	2050.1	1429.6	1451.4	1332.2	1344.7	1318.8	1289.8
4726.0	60°	6103.8	6427.0	4738.4	1558.1	1209.0	1253.5	1291.8	1290.8	1283.5	1259.7
5286.5	62.5°	6615.6	6632.2	4344.8	1193.4	1015.2	1100.2	1204.8	1203.8	1197.6	1184.1
5871.8	65°	6920.2	6601.1	3688.0	939.6	855.7	973.8	1086.7	1095.0	1096.0	1095.0
6312.0	67.5°	6866.3	6237.5	2786.7	748.0	724.1	845.3	969.7	981.0	989.3	991.4
6368.0	70°	6257.1	5438.7	1817.1	596.7	607.1	732.4	858.8	870.2	877.5	885.7
5525.8	72.5°	4877.3	3998.8	1040.1	482.8	504.5	635.0	749.0	762.5	766.6	782.1
3845.4	75°	2972.1	2351.6	561.5	380.2	414.4	542.8	640.2	655.8	663.0	681.7
1888.5	77.5°	1413.0	1018.3	320.1	296.3	333.6	443.4	540.8	558.4	538.7	549.1
521.1	80°	477.6	378.1	202.0	225.8	254.8	346.0	433.0	450.6	409.2	407.1
173.0	82.5°	166.8	153.3	128.5	150.2	164.7	247.6	327.4	350.2	304.6	303.5
77.7	85°	65.3	62.2	71.5	81.8	98.4	152.3	215.5	226.9	187.5	151.2
22.8	87.5°	13.5	14.5	17.6	18.6	30.0	52.8	77.7	95.3	75.6	64.2
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>
2233.5
2317.4
2439.7
2580.6
2741.1
2924.5
3150.3
3395.8
3529.5
3460.1
3273.6
3084.0
2918.3
2759.8
2588.8
2406.5
2244.9
2207.6
2108.2
1934.1
1654.4
1425.5
1347.8
1284.6
1251.4
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1095.0
993.5
889.9
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683.7
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403.0
289.0
149.2
59.0
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