

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: P940992

Luminaire Tested: **GALN-SB4B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940992
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-SB4B-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 19453 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

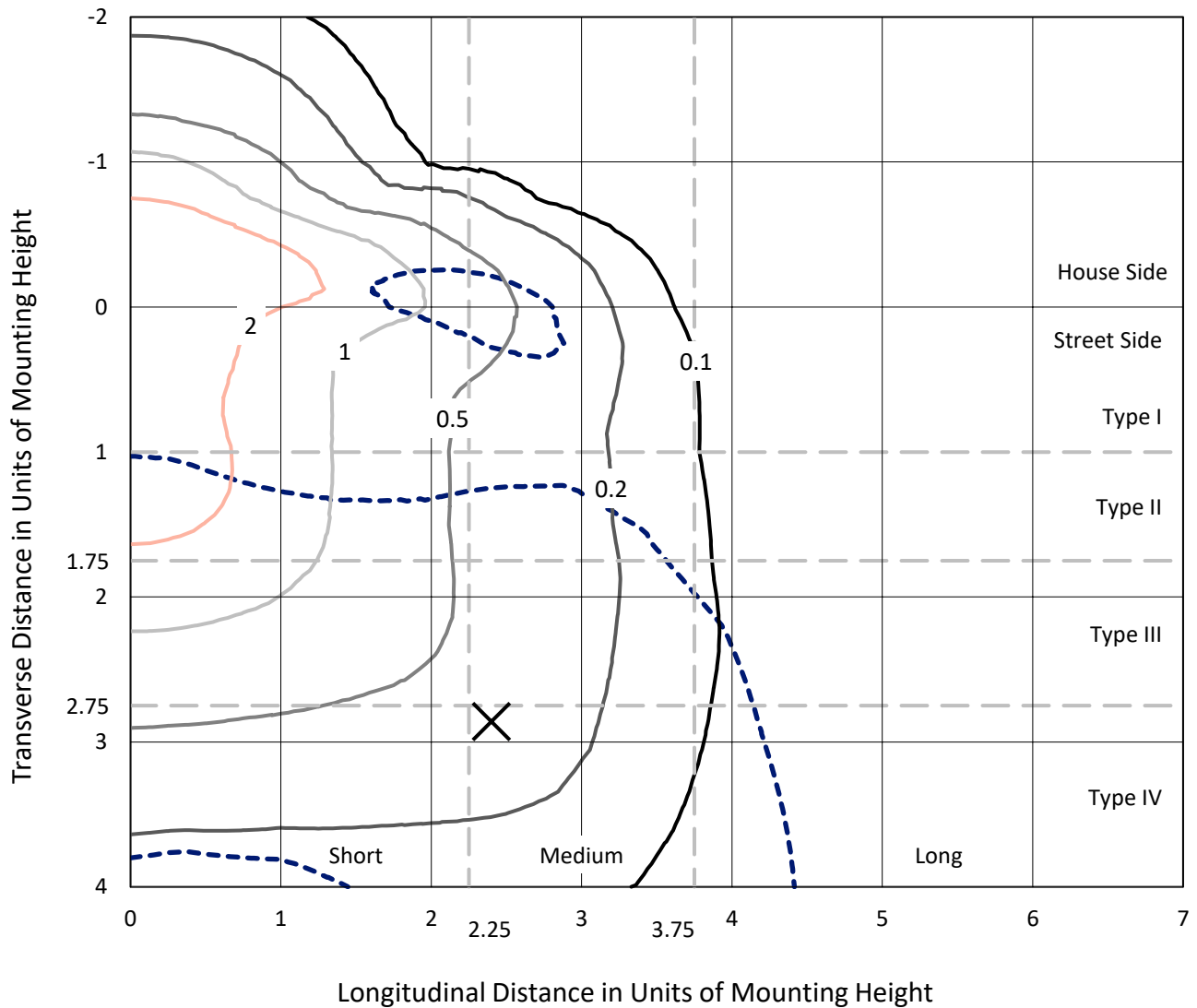
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

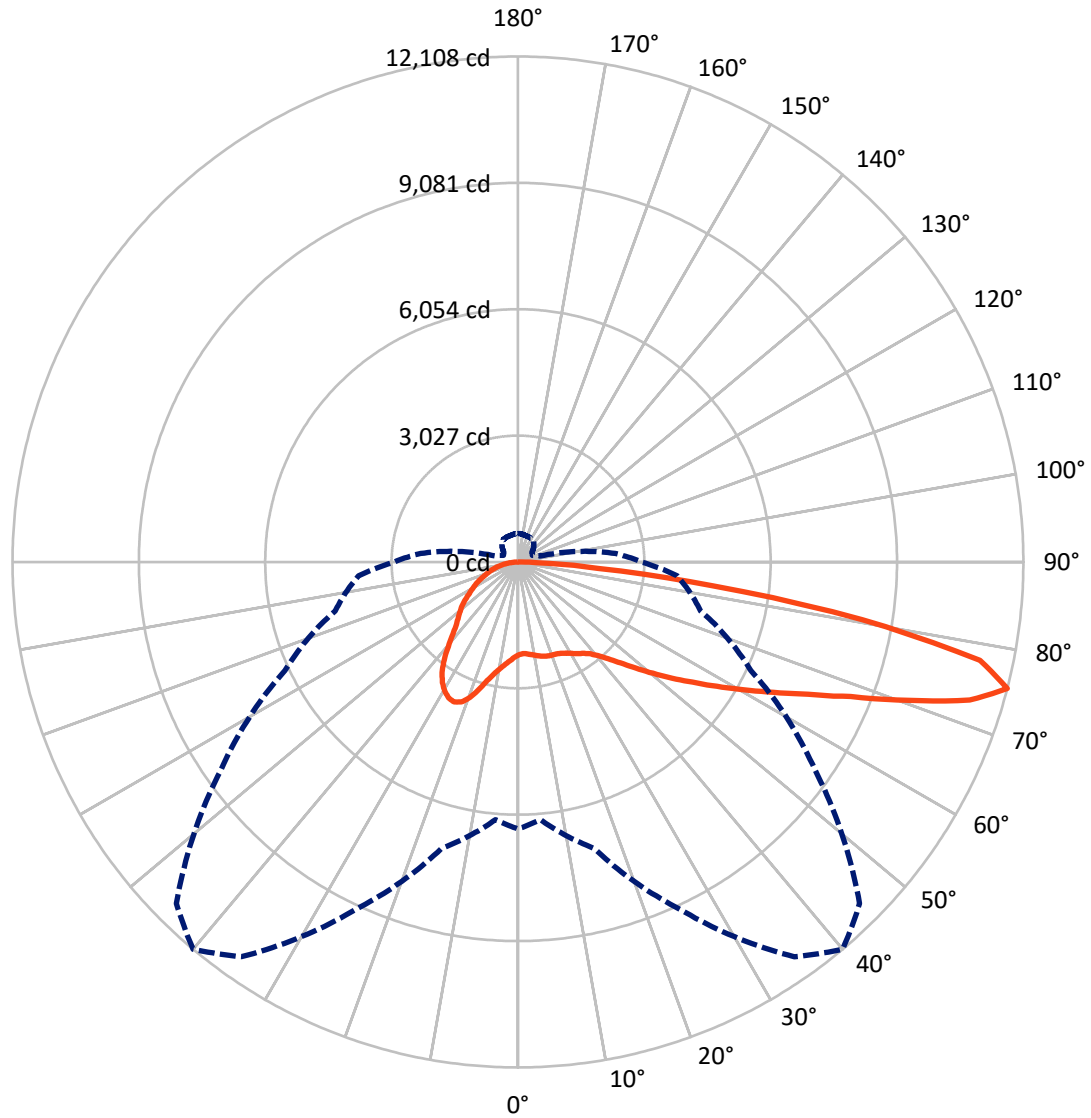
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	6027.2	0.0	6027.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13425.8	0.0	13425.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	19453.0	0.0	19453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.1
10°-20°	745.5	3.8
20°-30°	1361.2	7.0
30°-40°	1930.6	9.9
40°-50°	2606.9	13.4
50°-60°	3507.0	18.0
60°-70°	4451.2	22.9
70°-80°	4039.7	20.8
80°-90°	588.9	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°	19453.0	100.0
0°-180°	19453.0	100.0

Coefficient of Utilization



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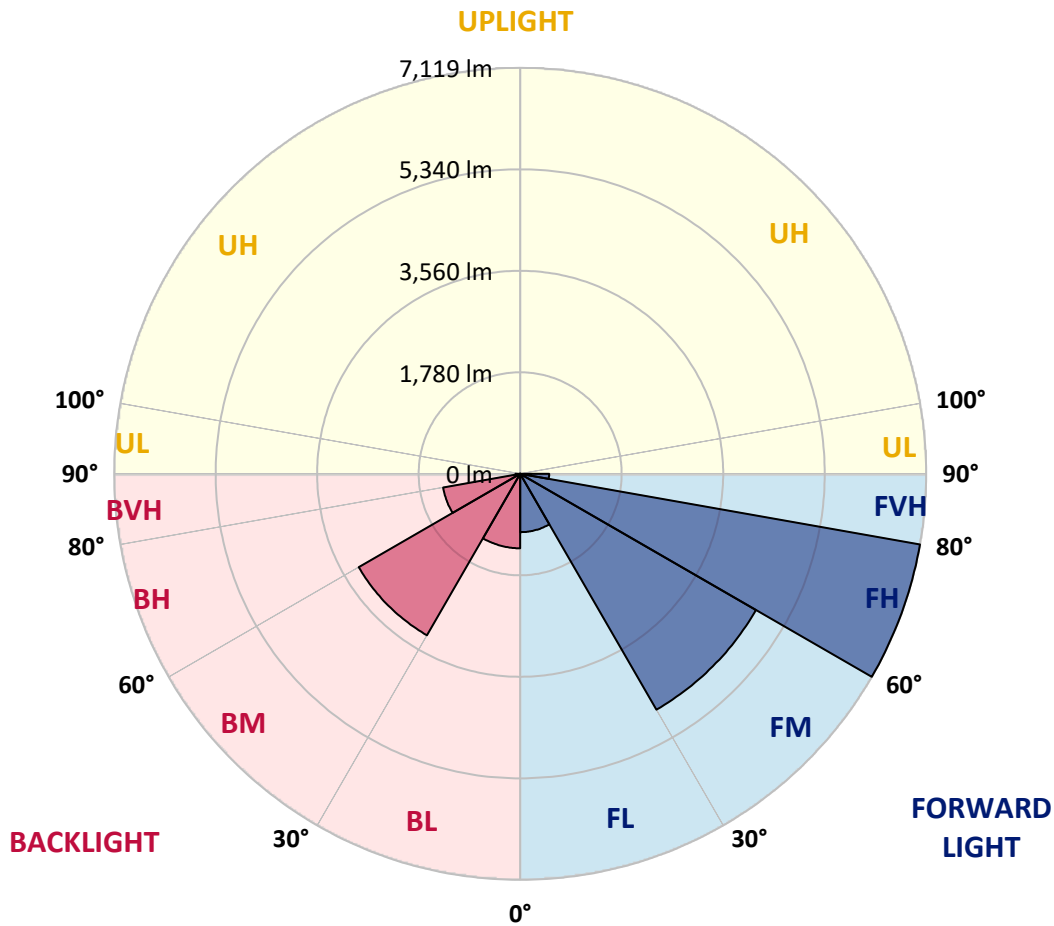
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.2	5.3			
FM (30°-60°)	4775.3	24.5			
FH (60°-80°)	7119.5	36.6			G3/7500
FVH (80°-90°)	507.8	2.6			G4/750
BL (0°-30°)	1305.5	6.7	B3/2500		
BM (30°-60°)	3269.2	16.8	B3/5000		
BH (60°-80°)	1371.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.1	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°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2190.4	2202.8	2199.7	2195.6	2195.6	2196.6	2195.6	2202.8	2210.0	2217.3
5°	2213.1	2225.5	2219.3	2214.2	2210.0	2209.0	2205.9	2204.9	2209.0	2218.3
7.5°	2257.5	2269.9	2260.6	2251.3	2243.0	2238.9	2234.8	2228.6	2225.5	2230.7
10°	2307.0	2319.4	2308.0	2291.5	2278.1	2273.0	2268.8	2262.7	2258.5	2261.6
12.5°	2356.5	2368.9	2353.4	2330.7	2313.2	2310.1	2305.0	2302.9	2301.9	2300.8
15°	2403.0	2413.3	2393.7	2366.9	2348.3	2343.1	2338.0	2341.1	2346.2	2352.4
17.5°	2439.1	2449.4	2420.5	2385.4	2367.9	2365.8	2362.7	2373.1	2387.5	2403.0
20°	2472.1	2482.4	2445.3	2397.8	2377.2	2377.2	2378.2	2399.9	2420.5	2443.2
22.5°	2518.5	2526.8	2481.4	2416.4	2386.5	2388.5	2396.8	2418.4	2444.2	2475.2
25°	2587.7	2593.8	2538.1	2451.5	2417.4	2423.6	2430.8	2441.1	2465.9	2502.0
27.5°	2699.1	2704.2	2631.0	2513.4	2461.8	2472.1	2482.4	2475.2	2486.5	2517.5
30°	2855.9	2859.0	2766.2	2610.4	2537.1	2542.3	2544.3	2514.4	2492.7	2517.5
32.5°	3041.6	3040.6	2930.2	2728.0	2622.7	2617.6	2600.0	2541.2	2490.7	2512.3
35°	3329.5	3318.1	3175.8	2893.1	2719.7	2687.7	2646.5	2571.1	2501.0	2507.2
37.5°	3806.2	3771.1	3574.0	3163.4	2864.2	2782.7	2721.8	2619.6	2523.7	2505.1
40°	4343.7	4299.3	4082.7	3533.8	3080.8	2949.8	2851.8	2688.8	2560.8	2514.4
42.5°	4981.3	4918.4	4685.2	3970.2	3355.3	3165.4	3017.9	2776.5	2615.5	2544.3
45°	5764.4	5680.9	5350.7	4462.4	3700.9	3448.1	3251.1	2909.6	2699.1	2602.1
47.5°	6555.8	6576.4	6107.0	5025.7	4115.7	3796.9	3543.1	3109.7	2820.8	2695.0
50°	7396.7	7411.1	6859.1	5649.9	4586.2	4191.0	3871.2	3333.6	2990.0	2827.0
52.5°	8052.9	8055.0	7542.2	6303.0	5076.3	4624.4	4225.1	3589.5	3186.1	3002.4
55°	8463.5	8458.4	8020.9	6921.1	5639.6	5079.4	4617.1	3880.5	3425.4	3208.8
57.5°	8761.7	8746.2	8351.1	7452.4	6240.1	5616.9	5060.8	4210.6	3708.1	3454.3
60°	8875.2	8865.9	8575.0	7911.5	6871.5	6211.2	5572.5	4580.0	4029.0	3744.3
62.5°	8918.5	8936.1	8794.7	8356.2	7547.3	6869.5	6134.9	5021.6	4390.1	4072.4
65°	9071.2	9103.2	9074.3	8938.1	8310.8	7640.2	6880.8	5546.7	4784.3	4424.2
67.5°	9373.5	9405.5	9417.9	9634.6	9243.5	8600.8	7811.5	6200.9	5245.5	4789.4
70°	9366.3	9357.0	9575.8	10188.6	10411.5	9930.7	9066.1	7005.7	5795.4	5092.8
72.5°	8525.4	8451.2	8968.1	10182.4	11383.4	11319.4	10598.2	8043.6	6270.0	5129.9
75°	6395.9	6197.8	7110.9	9176.5	11545.4	12107.7	11572.2	8687.4	6157.5	4532.5
77.5°	2735.2	2536.1	3612.2	6793.1	10333.1	11318.4	10678.7	7579.3	4915.3	2997.3
80°	716.0	715.0	1091.6	3079.8	7027.3	8358.3	7332.7	4894.7	2808.5	1071.0
82.5°	296.1	288.9	401.4	1197.9	3433.7	4690.4	3827.8	2183.2	1014.2	289.9
85°	110.4	109.4	195.0	413.7	1211.3	1934.6	1400.1	558.2	252.8	141.4
87.5°	31.0	29.9	42.3	143.4	295.1	447.8	239.4	91.8	71.2	55.7
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°
2224.5	0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2228.6	2.5°	2231.7	2236.9	2246.1	2253.4	2262.7	2273.0	2287.4	2296.7	2306.0	2312.2
2233.8	5°	2241.0	2252.3	2276.1	2299.8	2327.7	2353.4	2383.4	2405.0	2422.6	2427.7
2252.3	7.5°	2261.6	2280.2	2320.4	2360.7	2405.0	2447.3	2490.7	2527.8	2557.7	2569.1
2285.4	10°	2297.7	2322.5	2379.2	2436.0	2494.8	2559.8	2615.5	2669.2	2711.5	2729.0
2324.6	12.5°	2343.1	2374.1	2448.4	2526.8	2608.3	2698.1	2770.3	2836.3	2888.9	2912.7
2379.2	15°	2401.9	2442.2	2537.1	2642.3	2762.0	2886.9	2978.7	3051.9	3110.8	3139.6
2436.0	17.5°	2465.9	2519.6	2639.2	2798.1	2969.4	3133.5	3240.8	3294.4	3355.3	3383.1
2488.6	20°	2527.8	2593.8	2765.1	2996.2	3224.3	3398.6	3485.3	3499.7	3503.9	3507.0
2538.1	22.5°	2591.8	2680.5	2923.0	3245.9	3490.4	3611.2	3623.5	3561.6	3475.0	3434.7
2586.6	25°	2661.9	2779.6	3129.3	3521.4	3719.5	3733.9	3639.0	3488.4	3324.3	3249.0
2625.8	27.5°	2730.0	2894.1	3377.0	3784.5	3884.6	3757.7	3553.4	3339.8	3141.7	3062.3
2653.7	30°	2798.1	3025.1	3650.4	4014.6	3959.9	3698.9	3418.2	3179.9	2980.8	2897.2
2678.5	32.5°	2867.3	3177.8	3965.1	4180.7	3946.5	3574.0	3250.0	3000.4	2825.0	2737.3
2700.1	35°	2945.7	3365.6	4263.2	4271.5	3856.7	3390.4	3028.2	2785.8	2633.1	2562.9
2725.9	37.5°	3047.8	3603.9	4526.3	4294.2	3699.9	3121.1	2752.7	2531.9	2406.1	2374.1
2764.1	40°	3174.7	3890.8	4727.5	4258.1	3467.7	2794.0	2451.5	2275.0	2203.8	2211.1
2815.7	42.5°	3339.8	4211.6	4868.9	4165.2	3144.8	2456.6	2187.3	2108.9	2143.0	2171.9
2893.1	45°	3554.4	4544.9	4956.6	4007.4	2779.6	2170.8	2031.5	2050.1	2075.9	2079.0
3017.9	47.5°	3828.9	4882.3	5014.4	3769.0	2407.1	1969.6	1932.5	1936.6	1931.5	1909.8
3204.6	50°	4171.4	5210.4	5065.9	3453.3	2090.3	1843.8	1794.2	1779.8	1708.6	1638.4
3453.3	52.5°	4561.4	5511.7	5087.6	3061.2	1843.8	1738.5	1658.0	1567.2	1434.1	1412.5
3765.9	55°	4994.8	5790.2	5031.9	2579.4	1636.4	1603.4	1481.6	1372.2	1357.8	1339.2
4177.6	57.5°	5512.7	6090.5	4918.4	2041.9	1423.8	1445.5	1326.8	1339.2	1313.4	1284.5
4706.9	60°	6079.1	6401.0	4719.3	1551.8	1204.1	1248.4	1286.6	1285.6	1278.4	1254.6
5265.1	62.5°	6588.8	6605.3	4327.2	1188.6	1011.1	1095.7	1199.9	1198.9	1192.7	1179.3
5848.0	65°	6892.2	6574.4	3673.1	935.8	852.2	969.9	1082.3	1090.6	1091.6	1090.6
6286.5	67.5°	6838.5	6212.2	2775.4	744.9	721.2	841.9	965.7	977.1	985.3	987.4
6342.2	70°	6231.8	5416.7	1809.7	594.3	604.6	729.5	855.3	866.7	873.9	882.2
5503.4	72.5°	4857.5	3982.6	1035.9	480.8	502.5	632.5	746.0	759.4	763.5	779.0
3829.9	75°	2960.1	2342.1	559.2	378.7	412.7	540.6	637.6	653.1	660.3	678.9
1880.9	77.5°	1407.3	1014.2	318.8	295.1	332.2	441.6	538.6	556.1	536.5	546.8
519.0	80°	475.6	376.6	201.2	224.9	253.8	344.6	431.3	448.8	407.5	405.5
172.3	82.5°	166.1	152.7	127.9	149.6	164.0	246.6	326.0	348.7	303.3	302.3
77.4	85°	65.0	61.9	71.2	81.5	98.0	151.7	214.6	226.0	186.7	150.6
22.7	87.5°	13.4	14.4	17.5	18.6	29.9	52.6	77.4	94.9	75.3	64.0
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>
2224.5
2308.0
2429.8
2570.1
2730.0
2912.7
3137.6
3382.1
3515.2
3446.1
3260.4
3071.6
2906.5
2748.6
2578.4
2396.8
2235.8
2198.7
2099.6
1926.3
1647.7
1419.7
1342.3
1279.4
1246.4
1174.1
1090.6
989.5
886.3
785.2
<i>681.0</i>
538.6
401.4
287.9
148.6
58.8
0.0

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