

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: P950456

Luminaire Tested: **GALN-SB4D-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

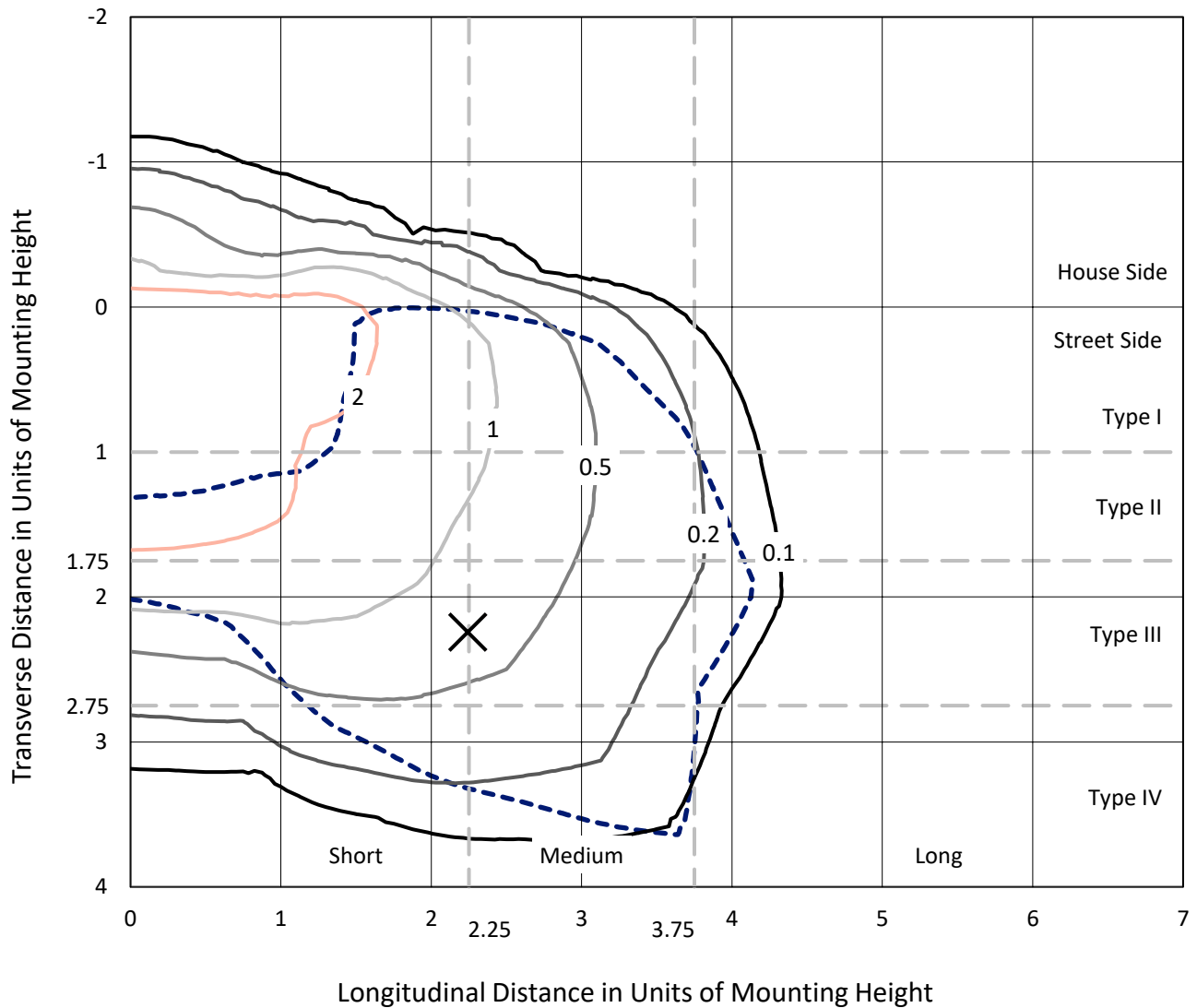
Lumens per Lamp: N/A  
Luminaire Lumens: 19122 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

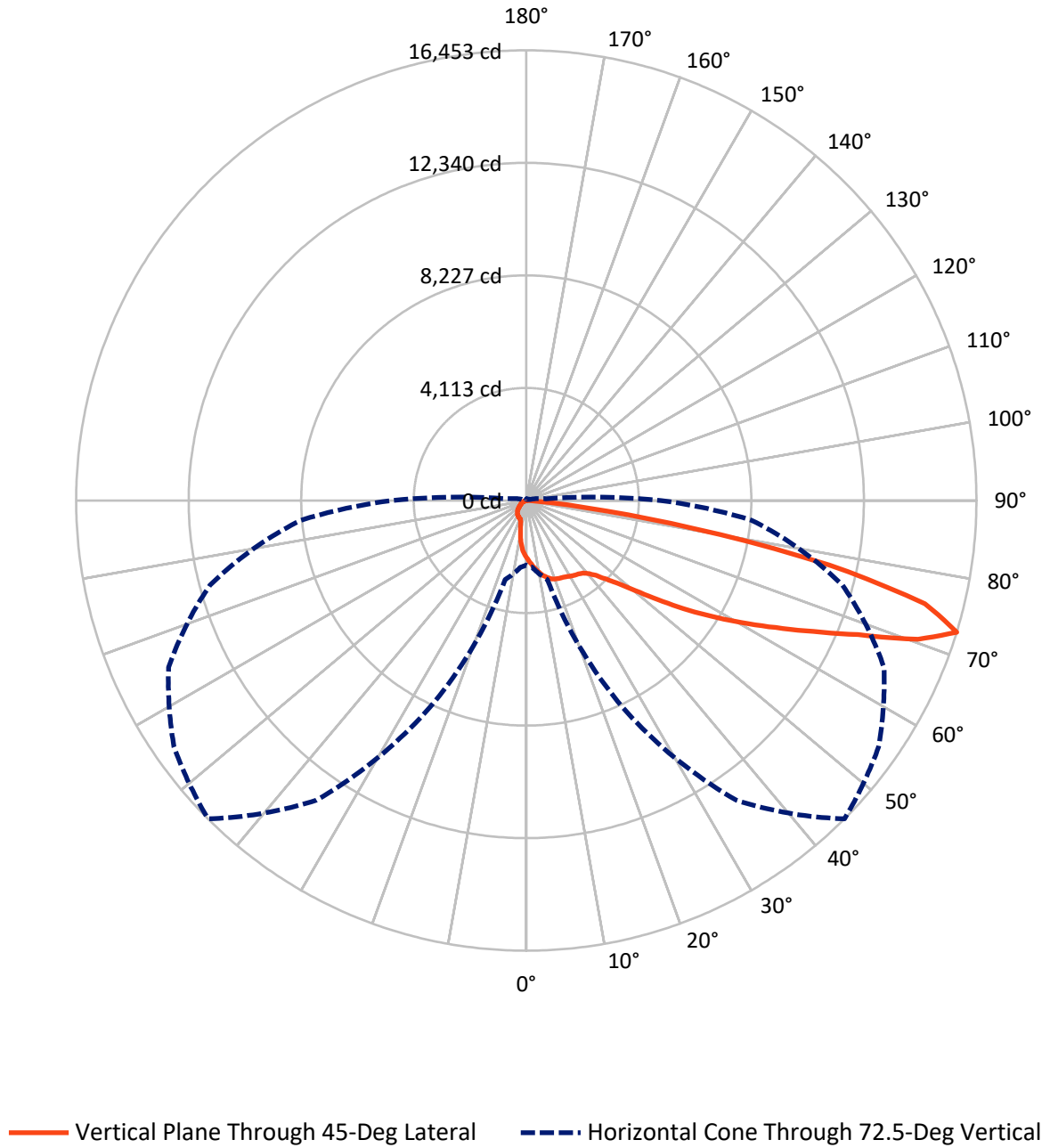
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2009.2	0.0	2009.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	17112.8	0.0	17112.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	19122.0	0.0	19122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.4	1.0
10°-20°	576.9	3.0
20°-30°	947.3	5.0
30°-40°	1343.5	7.0
40°-50°	2220.6	11.6
50°-60°	3989.1	20.9
60°-70°	5539.0	29.0
70°-80°	4017.8	21.0
80°-90°	290.5	1.5
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°	19122.0	100.0
0°-180°	19122.0	100.0

**Coefficient of Utilization**



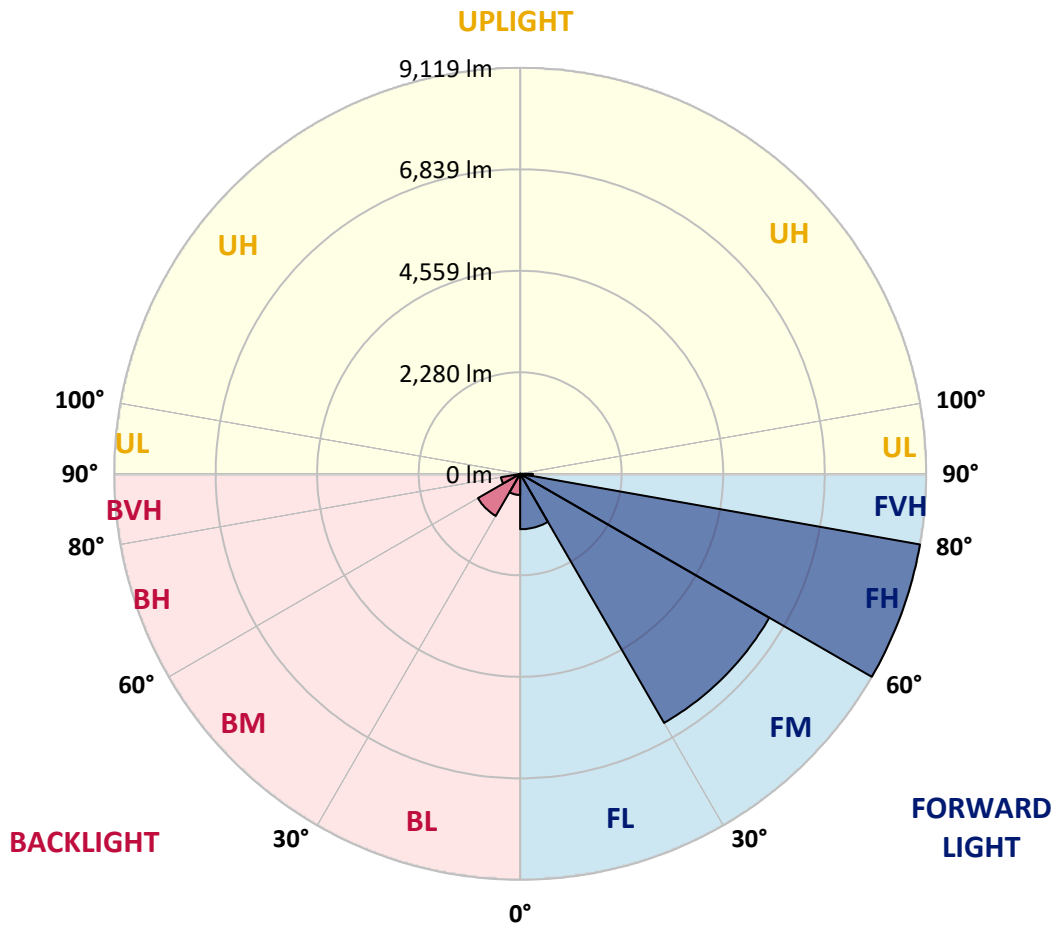
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.6	6.5			
FM (30°-60°)	6460.4	33.8			
FH (60°-80°)	9118.7	47.7			G4/12000
FVH (80°-90°)	288.0	1.5			G3/500
BL (0°-30°)	475.9	2.5	B1/500		
BM (30°-60°)	1092.7	5.7	B2/2500		
BH (60°-80°)	438.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	2288.0	2291.9	2289.3	2273.7	2247.6	2233.2	2225.4	2199.3	2182.3	2152.3
5°	2498.2	2513.8	2504.7	2473.4	2423.8	2388.5	2378.1	2324.6	2276.3	2220.2
7.5°	2721.4	2729.2	2712.2	2671.8	2605.2	2545.2	2536.0	2461.6	2384.6	2298.5
10°	2914.5	2923.7	2897.6	2838.8	2763.1	2688.7	2675.7	2593.4	2502.1	2396.4
12.5°	3076.4	3085.5	3051.6	2981.1	2897.6	2820.6	2807.5	2721.4	2620.9	2503.4
15°	3199.1	3216.0	3170.3	3094.6	3004.6	2927.6	2921.1	2836.2	2738.3	2607.8
17.5°	3270.8	3287.8	3244.7	3153.4	3076.4	3011.1	3003.3	2932.8	2841.4	2716.1
20°	3282.6	3298.3	3252.6	3173.0	3109.0	3056.8	3052.9	3002.0	2935.4	2815.3
22.5°	3247.4	3266.9	3225.2	3161.2	3116.8	3089.4	3084.2	3055.5	3017.6	2915.8
25°	3210.8	3226.5	3195.1	3139.0	3115.5	3112.9	3116.8	3111.6	3103.8	3017.6
27.5°	3208.2	3225.2	3189.9	3136.4	3123.4	3150.8	3154.7	3179.5	3186.0	3110.3
30°	3230.4	3242.1	3208.2	3152.1	3145.5	3208.2	3209.5	3253.9	3264.3	3188.6
32.5°	3278.7	3291.7	3257.8	3175.6	3166.4	3253.9	3257.8	3316.5	3333.5	3272.2
35°	3392.2	3407.9	3368.7	3240.8	3208.2	3297.0	3308.7	3377.9	3411.8	3360.9
37.5°	3675.5	3629.8	3576.3	3372.7	3303.5	3364.8	3384.4	3465.3	3525.4	3466.6
40°	4379.0	4235.4	4068.3	3597.1	3470.5	3509.7	3525.4	3606.3	3688.5	3631.1
42.5°	5434.9	5265.2	4996.3	4114.0	3722.4	3742.0	3753.8	3824.3	3940.4	3894.7
45°	6375.9	6314.6	6040.5	4996.3	4193.6	4097.0	4111.4	4147.9	4318.9	4302.0
47.5°	7099.0	7063.8	6852.3	6009.2	4989.8	4531.7	4572.1	4589.1	4835.8	4895.8
50°	7655.0	7642.0	7452.7	6909.8	6030.1	5172.5	5186.9	5150.3	5519.7	5668.5
52.5°	8179.7	8224.1	8084.4	7746.4	7140.8	6011.8	6009.2	5836.9	6335.5	6560.0
55°	8653.5	8669.2	8683.5	8600.0	8258.0	6967.2	6942.4	6660.5	7281.7	7514.1
57.5°	9098.6	9105.1	9233.0	9404.0	9421.0	7993.1	7947.4	7609.4	8315.5	8481.2
60°	9397.5	9427.5	9697.7	10172.8	10380.3	9051.6	9026.8	8682.2	9367.5	9444.5
62.5°	8966.8	9149.5	9830.8	10773.2	11286.1	10225.0	10213.2	9889.5	10474.3	10411.6
65°	7258.3	7567.6	8765.8	11179.1	12175.0	11535.4	11552.4	11207.8	11611.1	11407.5
67.5°	5077.3	5403.6	6821.0	11211.7	13168.2	13074.2	13172.1	12631.8	12818.4	12361.6
70°	3511.0	3679.4	4602.2	10509.5	13942.2	15193.9	15191.3	14380.8	14019.2	12796.2
72.5°	2361.1	2448.6	2988.9	8337.7	13373.1	16453.4	16377.7	15717.3	14423.8	11967.4
75°	995.9	1059.8	1383.5	4685.7	10580.0	15052.9	14848.0	13890.0	12815.8	9423.6
77.5°	315.9	343.3	545.6	1677.2	5827.7	11314.8	11098.2	8674.4	8589.6	4727.5
80°	150.1	174.9	306.7	673.5	2293.2	6154.0	6124.0	3935.2	3695.0	1276.5
82.5°	65.3	77.0	169.7	360.2	1025.9	2195.4	2239.7	1339.1	1108.1	484.2
85°	20.9	27.4	78.3	165.8	433.3	545.6	539.1	318.5	446.4	263.7
87.5°	0.0	0.0	26.1	37.9	44.4	31.3	35.2	27.4	124.0	73.1
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°
2094.9	0°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2121.0	2.5°	2105.3	2084.4	2047.9	2013.9	1983.9	1953.9	1935.6	1909.5	1906.9	1906.9
2154.9	5°	2119.7	2085.7	2020.5	1951.3	1871.7	1796.0	1720.3	1647.2	1623.7	1606.7
2209.7	7.5°	2161.4	2107.9	2004.8	1873.0	1721.6	1555.8	1439.6	1314.3	1266.0	1239.9
2282.8	10°	2221.5	2148.4	1991.7	1760.7	1515.3	1289.5	1123.8	988.0	935.8	913.6
2362.4	12.5°	2288.0	2198.0	1968.3	1621.1	1289.5	1019.4	857.5	794.9	787.0	787.0
2457.7	15°	2367.6	2258.0	1927.8	1456.6	1053.3	806.6	749.2	751.8	759.6	764.9
2550.4	17.5°	2449.9	2322.0	1863.8	1272.6	844.5	725.7	727.0	730.9	737.4	742.7
2650.9	20°	2538.6	2385.9	1779.0	1076.8	724.4	702.2	706.1	710.0	715.3	717.9
2744.8	22.5°	2633.9	2446.0	1678.5	884.9	683.9	682.6	683.9	687.8	694.4	694.4
2854.5	25°	2735.7	2512.5	1563.6	745.3	663.0	663.0	665.7	668.3	673.5	673.5
2960.2	27.5°	2840.1	2573.9	1442.3	672.2	644.8	643.5	643.5	647.4	650.0	651.3
3064.6	30°	2955.0	2645.7	1320.9	656.5	630.4	623.9	620.0	622.6	625.2	626.5
3174.3	32.5°	3072.5	2714.8	1212.5	663.0	616.1	604.3	591.3	588.6	588.6	593.9
3287.8	35°	3203.0	2790.5	1129.0	685.2	608.2	575.6	554.7	543.0	544.3	552.1
3423.6	37.5°	3359.6	2881.9	1067.7	704.8	603.0	543.0	509.0	494.7	485.5	494.7
3610.2	40°	3564.5	3016.3	1023.3	720.5	596.5	505.1	459.4	435.9	419.0	424.2
3900.0	42.5°	3866.0	3227.8	1006.3	721.8	582.1	460.7	408.5	377.2	352.4	353.7
4335.9	45°	4288.9	3561.9	1093.8	704.8	550.8	412.4	355.0	313.2	297.6	293.7
4987.2	47.5°	4868.4	4048.7	1296.1	669.6	505.1	365.5	302.8	267.6	255.8	249.3
5842.1	50°	5645.0	4673.9	1520.6	630.4	459.4	321.1	259.7	237.5	229.7	223.2
6856.2	52.5°	6545.6	5308.3	1704.6	591.3	413.8	281.9	232.3	219.3	212.7	207.5
7835.2	55°	7371.8	5745.5	1694.2	549.5	369.4	250.6	212.7	204.9	197.1	191.9
8678.3	57.5°	7886.1	5806.9	1396.6	503.8	318.5	225.8	194.5	189.3	180.1	173.6
9407.9	60°	8122.3	5457.1	978.9	443.8	267.6	202.3	174.9	172.3	160.5	151.4
10098.4	62.5°	8165.4	4807.1	652.6	369.4	223.2	180.1	155.3	151.4	135.7	120.1
10659.6	65°	7990.5	3877.8	451.6	288.5	190.6	156.6	133.1	125.3	108.3	92.7
10792.7	67.5°	7437.1	2722.7	314.6	207.5	161.8	124.0	105.7	103.1	90.1	77.0
10114.0	70°	6422.9	1551.9	210.1	155.3	127.9	84.8	83.5	86.1	73.1	62.6
8263.3	72.5°	4924.5	710.0	130.5	113.6	87.4	57.4	66.6	67.9	56.1	47.0
5155.6	75°	2898.9	304.1	82.2	73.1	44.4	37.9	48.3	49.6	37.9	30.0
1884.7	77.5°	986.7	114.9	52.2	43.1	22.2	20.9	31.3	31.3	20.9	11.7
378.5	80°	224.5	43.1	26.1	17.0	10.4	9.1	10.4	9.1	5.2	1.3
116.2	82.5°	64.0	17.0	10.4	6.5	3.9	3.9	1.3	0.0	0.0	0.0
40.5	85°	18.3	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	7.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2094.9
1913.4
1614.5
1243.9
913.6
787.0
764.9
742.7
719.2
697.0
674.8
652.6
629.1
597.8
556.0
492.1
421.6
348.5
288.5
245.4
221.9
206.2
189.3
172.3
148.8
112.2
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