

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: P952136

Luminaire Tested: **GALN-SB6A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952136
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-SB6A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA 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: 18220 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

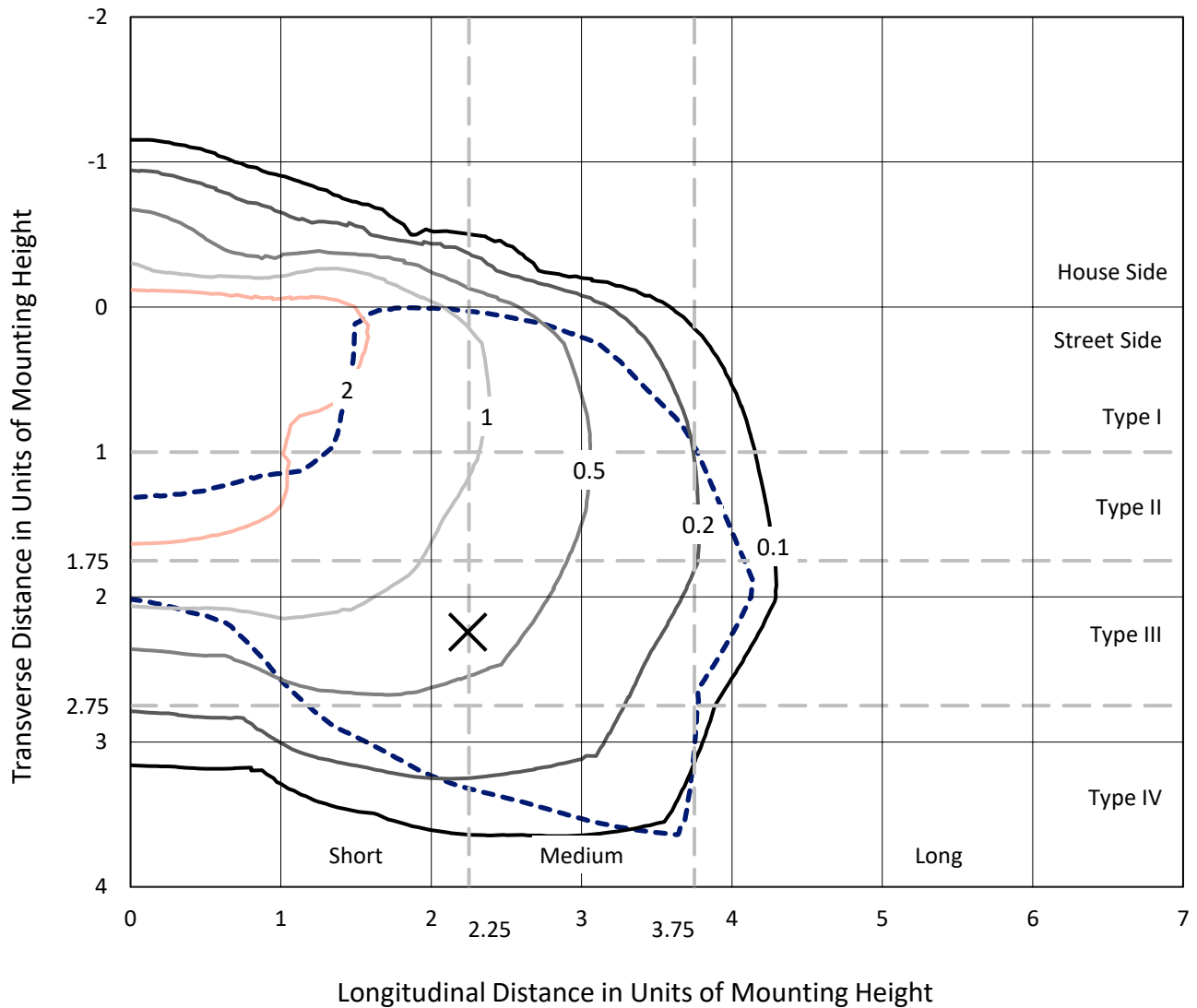
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

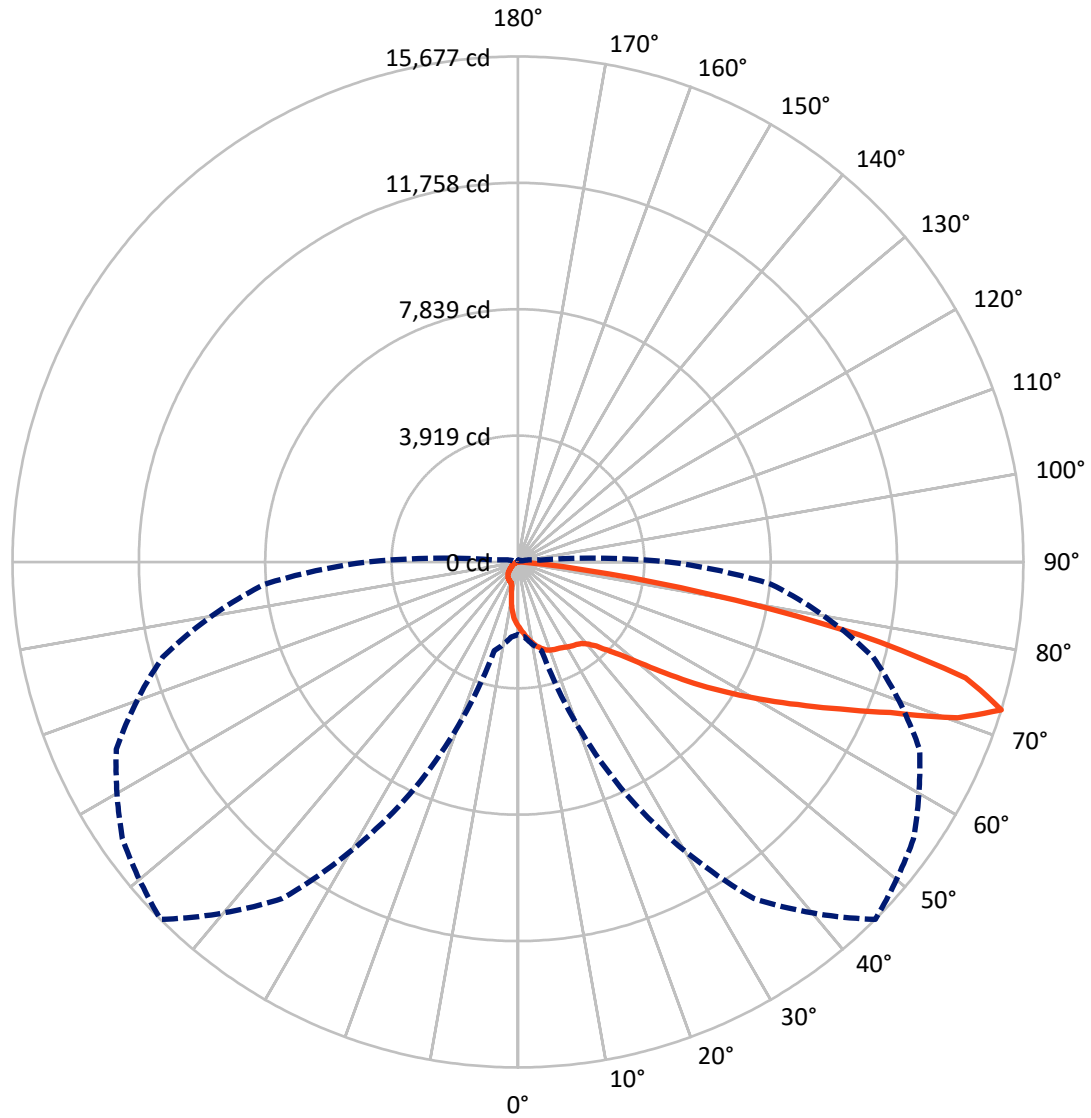
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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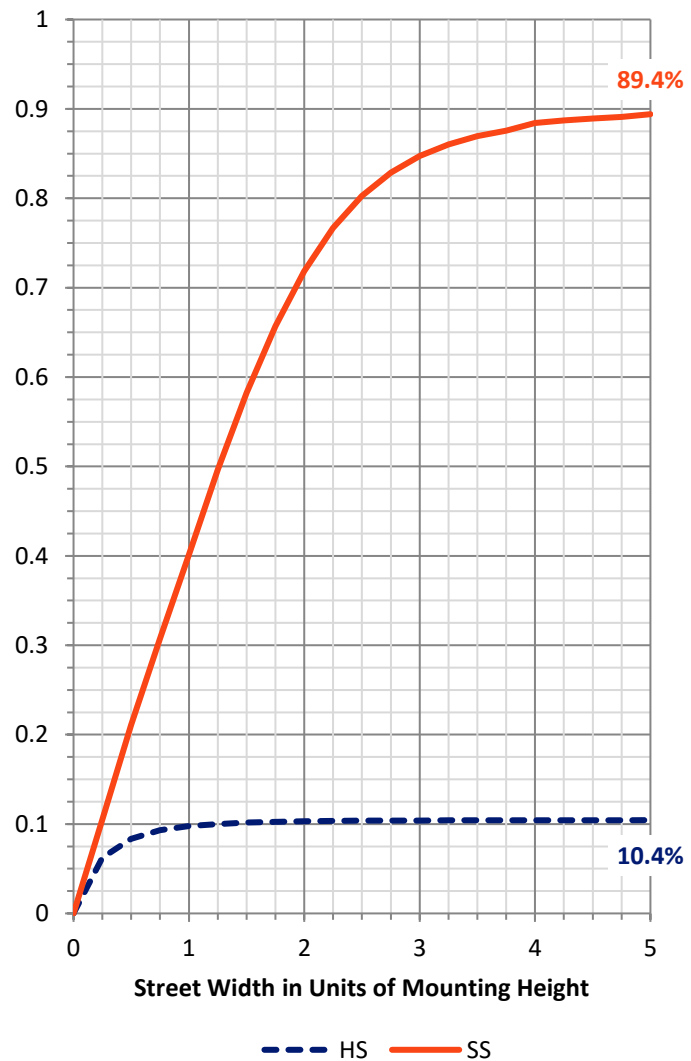
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.4	0.0	1914.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16305.6	0.0	16305.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	18220.0	0.0	18220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	1.0
10°-20°	549.6	3.0
20°-30°	902.6	5.0
30°-40°	1280.1	7.0
40°-50°	2115.9	11.6
50°-60°	3800.9	20.9
60°-70°	5277.8	29.0
70°-80°	3828.3	21.0
80°-90°	276.8	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°	18220.0	100.0
0°-180°	18220.0	100.0

Coefficient of Utilization



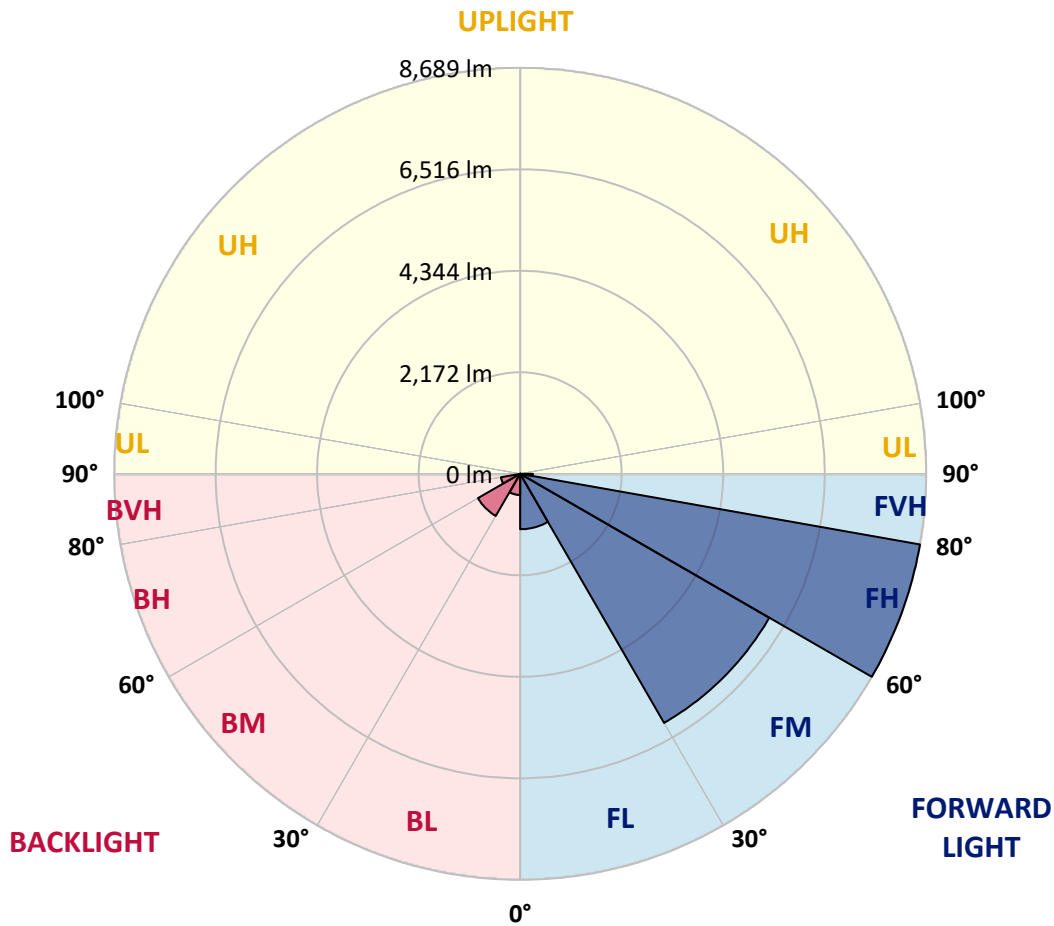
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.9	6.5			
FM (30°-60°)	6155.7	33.8			
FH (60°-80°)	8688.6	47.7			G4/12000
FVH (80°-90°)	274.4	1.5			G3/500
BL (0°-30°)	453.5	2.5	B1/500		
BM (30°-60°)	1041.2	5.7	B2/2500		
BH (60°-80°)	417.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0
2.5°	2180.1	2183.8	2181.3	2166.4	2141.5	2127.9	2120.4	2095.5	2079.4	2050.8
5°	2380.3	2395.2	2386.5	2356.7	2309.4	2275.9	2265.9	2214.9	2168.9	2115.4
7.5°	2593.0	2600.4	2584.3	2545.7	2482.3	2425.1	2416.4	2345.5	2272.1	2190.0
10°	2777.0	2785.8	2760.9	2704.9	2632.8	2561.9	2549.5	2471.1	2384.1	2283.3
12.5°	2931.3	2940.0	2907.6	2840.5	2760.9	2687.5	2675.1	2593.0	2497.2	2385.3
15°	3048.2	3064.3	3020.8	2948.7	2862.9	2789.5	2783.3	2702.4	2609.2	2484.8
17.5°	3116.6	3132.7	3091.7	3004.6	2931.3	2869.1	2861.6	2794.5	2707.4	2588.0
20°	3127.8	3142.7	3099.1	3023.3	2962.3	2912.6	2908.9	2860.4	2796.9	2682.5
22.5°	3094.2	3112.8	3073.0	3012.1	2969.8	2943.7	2938.7	2911.4	2875.3	2778.3
25°	3059.4	3074.3	3044.4	2991.0	2968.6	2966.1	2969.8	2964.8	2957.4	2875.3
27.5°	3056.9	3073.0	3039.5	2988.5	2976.0	3002.1	3005.9	3029.5	3035.7	2963.6
30°	3078.0	3089.2	3056.9	3003.4	2997.2	3056.9	3058.1	3100.4	3110.3	3038.2
32.5°	3124.0	3136.5	3104.1	3025.8	3017.1	3100.4	3104.1	3160.1	3176.3	3117.8
35°	3232.2	3247.1	3209.8	3088.0	3056.9	3141.4	3152.6	3218.5	3250.9	3202.4
37.5°	3502.1	3458.6	3407.6	3213.6	3147.6	3206.1	3224.8	3301.9	3359.1	3303.1
40°	4172.4	4035.6	3876.4	3427.5	3306.8	3344.1	3359.1	3436.2	3514.5	3459.8
42.5°	5178.5	5016.8	4760.6	3919.9	3546.9	3565.5	3576.7	3643.9	3754.5	3711.0
45°	6075.2	6016.7	5755.6	4760.6	3995.8	3903.8	3917.5	3952.3	4115.2	4099.0
47.5°	6764.1	6730.6	6529.1	5725.7	4754.4	4317.9	4356.5	4372.6	4607.7	4664.9
50°	7293.9	7281.5	7101.2	6583.8	5745.6	4928.5	4942.2	4907.4	5259.3	5401.1
52.5°	7793.9	7836.2	7703.1	7381.0	6803.9	5728.2	5725.7	5561.6	6036.6	6250.5
55°	8245.3	8260.2	8273.9	8194.3	7868.5	6638.5	6614.9	6346.3	6938.3	7159.6
57.5°	8669.4	8675.6	8797.5	8960.4	8976.6	7616.0	7572.5	7250.4	7923.2	8081.2
60°	8954.2	8982.8	9240.2	9692.9	9890.7	8624.6	8601.0	8272.7	8925.6	8999.0
62.5°	8543.8	8717.9	9367.1	10265.0	10753.7	9742.7	9731.5	9423.0	9980.2	9920.5
65°	6915.9	7210.6	8352.3	10651.8	11600.7	10991.3	11007.4	10679.1	11063.4	10869.4
67.5°	4837.8	5148.7	6499.3	10682.9	12547.1	12457.5	12550.8	12035.9	12213.8	11778.5
70°	3345.4	3505.8	4385.1	10013.8	13284.5	14477.2	14474.7	13702.4	13357.9	12192.6
72.5°	2249.7	2333.1	2847.9	7944.4	12742.3	15677.3	15605.2	14975.9	13743.4	11402.9
75°	948.9	1009.8	1318.3	4464.7	10080.9	14342.9	14147.6	13234.8	12211.3	8979.1
77.5°	301.0	327.1	519.8	1598.1	5552.8	10781.1	10574.7	8265.2	8184.4	4504.5
80°	143.0	166.6	292.3	641.7	2185.1	5863.8	5835.2	3749.6	3520.7	1216.3
82.5°	62.2	73.4	161.7	343.2	977.5	2091.8	2134.1	1276.0	1055.8	461.4
85°	19.9	26.1	74.6	157.9	412.9	519.8	513.6	303.4	425.3	251.2
87.5°	0.0	0.0	24.9	36.1	42.3	29.8	33.6	26.1	118.1	69.6
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°
1996.0	0°	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0	1996.0
2020.9	2.5°	2006.0	1986.1	1951.3	1918.9	1890.3	1861.7	1844.3	1819.4	1817.0	1817.0
2053.2	5°	2019.7	1987.3	1925.2	1859.2	1783.4	1711.2	1639.1	1569.5	1547.1	1530.9
2105.5	7.5°	2059.5	2008.5	1910.2	1784.6	1640.4	1482.4	1371.7	1252.3	1206.3	1181.5
2175.1	10°	2116.7	2047.0	1897.8	1677.7	1443.9	1228.7	1070.8	941.4	891.7	870.5
2251.0	12.5°	2180.1	2094.3	1875.4	1544.6	1228.7	971.3	817.1	757.4	749.9	749.9
2341.8	15°	2256.0	2151.5	1836.9	1387.9	1003.6	768.6	713.8	716.3	723.8	728.8
2430.1	17.5°	2334.3	2212.4	1775.9	1212.5	804.6	691.5	692.7	696.4	702.7	707.6
2525.8	20°	2418.9	2273.4	1695.1	1026.0	690.2	669.1	672.8	676.5	681.5	684.0
2615.4	22.5°	2509.7	2330.6	1599.3	843.2	651.7	650.4	651.7	655.4	661.6	661.6
2719.8	25°	2606.7	2394.0	1489.9	710.1	631.8	631.8	634.3	636.7	641.7	641.7
2820.6	27.5°	2706.2	2452.5	1374.2	640.5	614.4	613.1	613.1	616.8	619.3	620.6
2920.1	30°	2815.6	2520.9	1258.6	625.6	600.7	594.5	590.7	593.2	595.7	596.9
3024.5	32.5°	2927.5	2586.8	1155.3	631.8	587.0	575.8	563.4	560.9	560.9	565.9
3132.7	35°	3051.9	2658.9	1075.7	652.9	579.5	548.4	528.5	517.4	518.6	526.1
3262.1	37.5°	3201.1	2746.0	1017.3	671.6	574.6	517.4	485.0	471.3	462.6	471.3
3439.9	40°	3396.4	2874.0	975.0	686.5	568.3	481.3	437.8	415.4	399.2	404.2
3716.0	42.5°	3683.7	3075.5	958.8	687.7	554.7	439.0	389.3	359.4	335.8	337.0
4131.4	45°	4086.6	3393.9	1042.2	671.6	524.8	393.0	338.3	298.5	283.5	279.8
4751.9	47.5°	4638.8	3857.8	1234.9	638.0	481.3	348.2	288.5	254.9	243.8	237.5
5566.5	50°	5378.7	4453.5	1448.8	600.7	437.8	305.9	247.5	226.3	218.9	212.7
6532.8	52.5°	6236.8	5057.9	1624.2	563.4	394.2	268.6	221.4	208.9	202.7	197.7
7465.6	55°	7024.1	5474.5	1614.2	523.6	351.9	238.8	202.7	195.3	187.8	182.8
8269.0	57.5°	7514.1	5532.9	1330.7	480.0	303.4	215.1	185.3	180.3	171.6	165.4
8964.1	60°	7739.2	5199.7	932.7	422.8	254.9	192.8	166.6	164.2	153.0	144.3
9622.0	62.5°	7780.2	4580.3	621.8	351.9	212.7	171.6	148.0	144.3	129.3	114.4
10156.8	65°	7613.6	3694.8	430.3	274.8	181.6	149.2	126.9	119.4	103.2	88.3
10283.6	67.5°	7086.3	2594.2	299.7	197.7	154.2	118.1	100.7	98.2	85.8	73.4
9637.0	70°	6119.9	1478.7	200.2	148.0	121.9	80.8	79.6	82.1	69.6	59.7
7873.5	72.5°	4692.2	676.5	124.4	108.2	83.3	54.7	63.4	64.7	53.5	44.8
4912.4	75°	2762.1	289.8	78.3	69.6	42.3	36.1	46.0	47.3	36.1	28.6
1795.8	77.5°	940.2	109.4	49.7	41.0	21.1	19.9	29.8	29.8	19.9	11.2
360.7	80°	213.9	41.0	24.9	16.2	9.9	8.7	9.9	8.7	5.0	1.2
110.7	82.5°	60.9	16.2	9.9	6.2	3.7	3.7	1.2	0.0	0.0	0.0
38.6	85°	17.4	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	7.5	1.2	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>
1996.0
1823.2
1538.4
1185.2
870.5
749.9
728.8
707.6
685.2
664.1
643.0
621.8
599.4
569.6
529.8
468.9
401.7
332.1
274.8
233.8
211.4
196.5
180.3
164.2
141.8
107.0
83.3
69.6
54.7
39.8
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