

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: P952598

Luminaire Tested: **GALN-SB6B-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952598
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-SB6B-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 2700K, 450mA 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: 16011 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

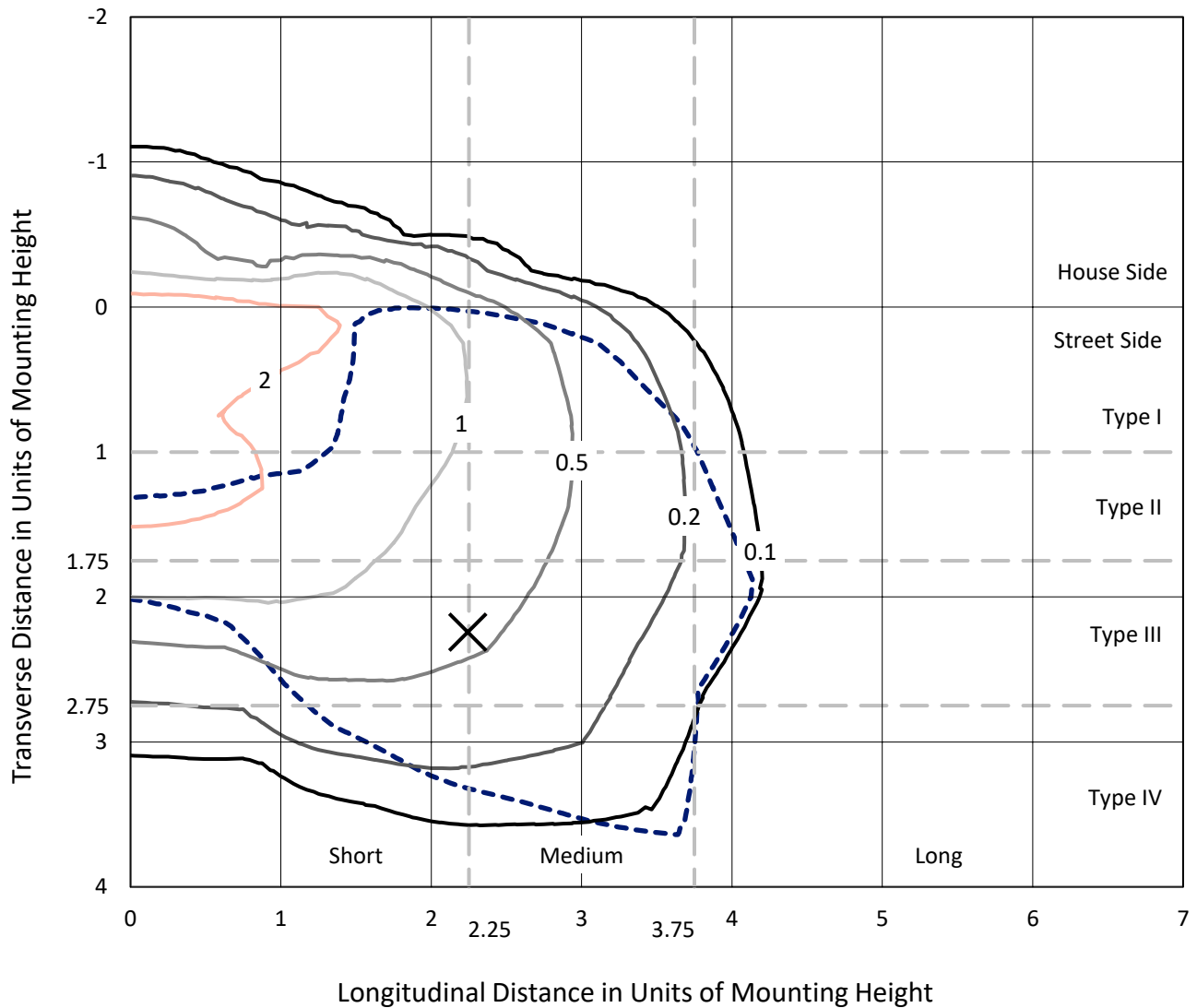
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

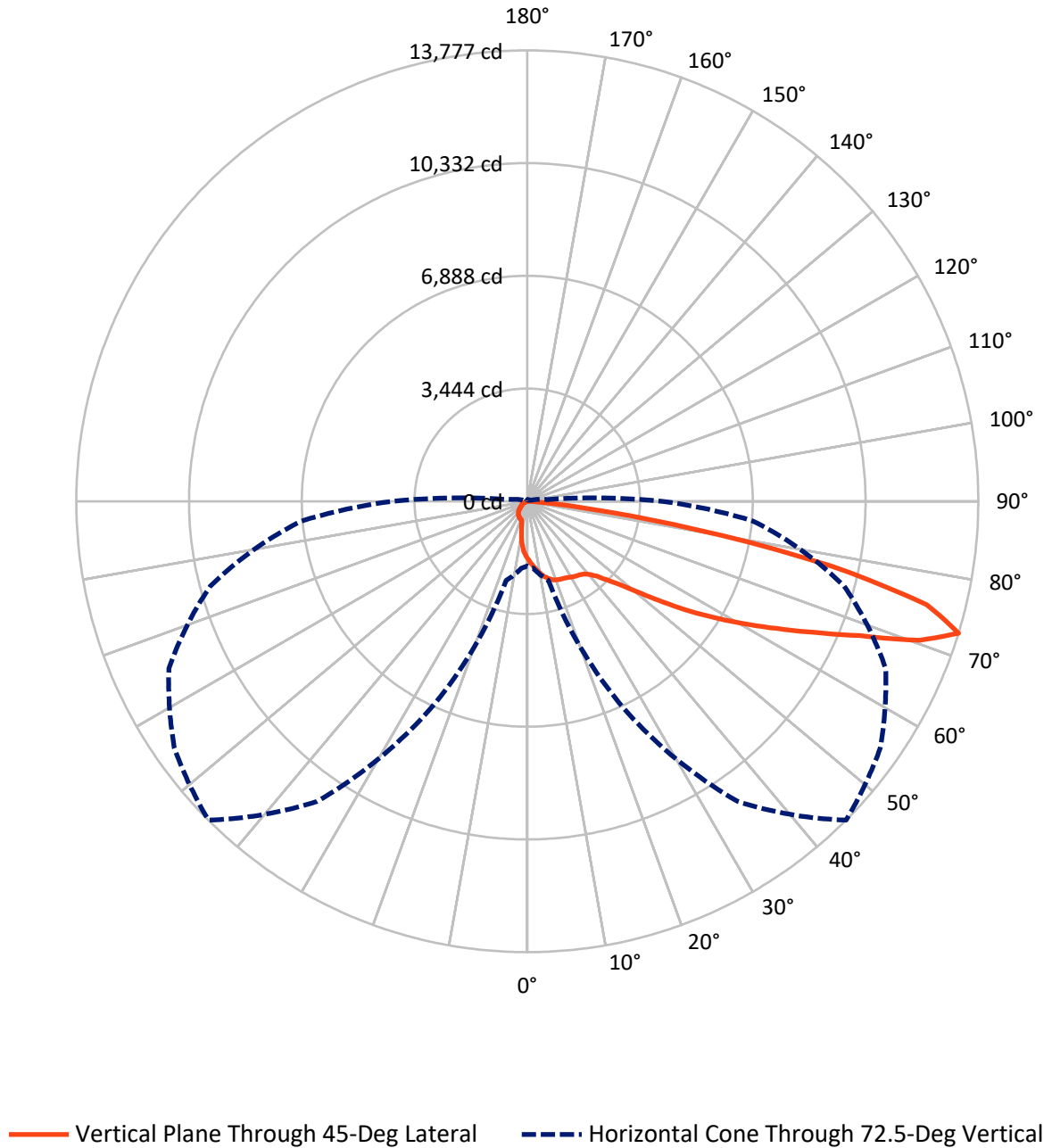
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.3	0.0	1682.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14328.7	0.0	14328.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	16011.0	0.0	16011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	1.0
10°-20°	483.0	3.0
20°-30°	793.2	5.0
30°-40°	1124.9	7.0
40°-50°	1859.3	11.6
50°-60°	3340.1	20.9
60°-70°	4637.9	29.0
70°-80°	3364.2	21.0
80°-90°	243.2	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°	16011.0	100.0
0°-180°	16011.0	100.0

Coefficient of Utilization



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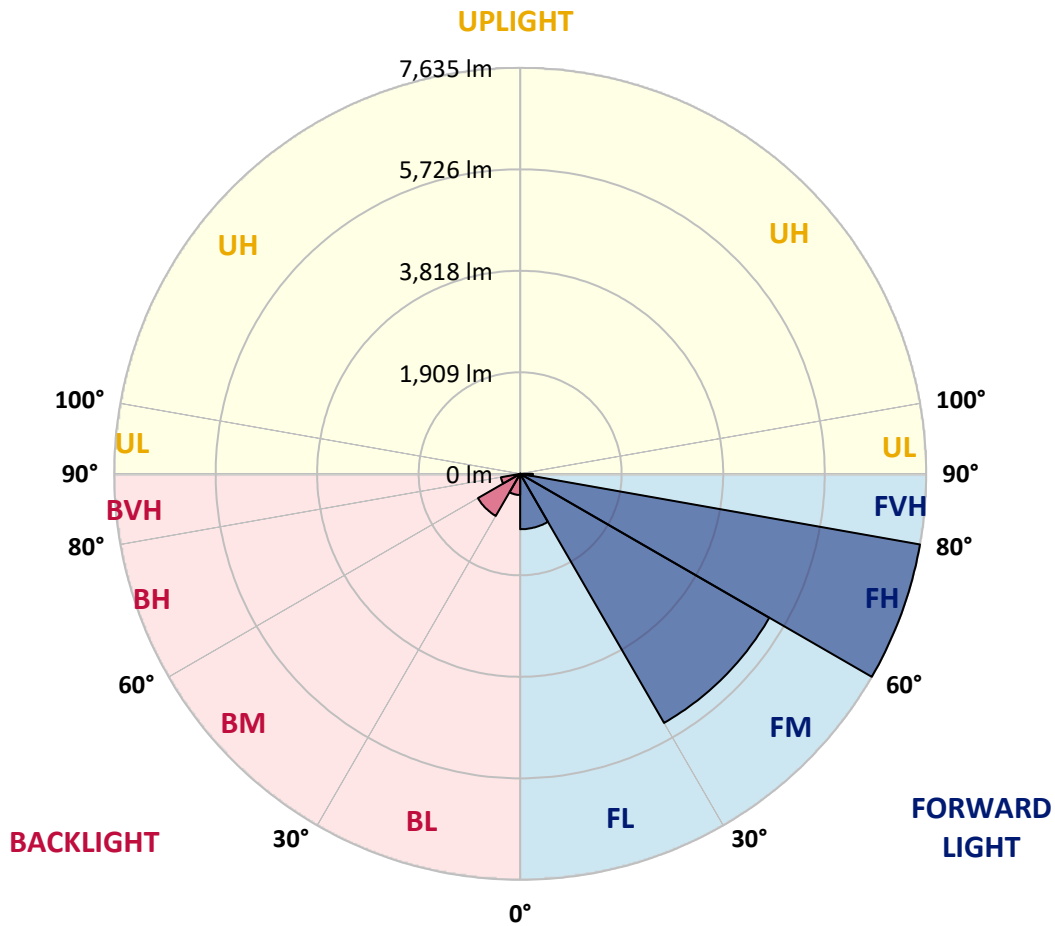
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.0	6.5			
FM (30°-60°)	5409.4	33.8			
FH (60°-80°)	7635.2	47.7			G4/12000
FVH (80°-90°)	241.2	1.5			G3/500
BL (0°-30°)	398.5	2.5	B1/500		
BM (30°-60°)	914.9	5.7	B1/1000		
BH (60°-80°)	366.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0
2.5°	1915.8	1919.1	1916.9	1903.8	1881.9	1869.9	1863.3	1841.5	1827.3	1802.1
5°	2091.7	2104.8	2097.2	2071.0	2029.4	1999.9	1991.2	1946.4	1905.9	1859.0
7.5°	2278.6	2285.2	2271.0	2237.1	2181.3	2131.1	2123.4	2061.1	1996.7	1924.5
10°	2440.4	2448.0	2426.1	2377.0	2313.6	2251.3	2240.4	2171.5	2095.0	2006.5
12.5°	2575.9	2583.5	2555.1	2496.1	2426.1	2361.7	2350.7	2278.6	2194.5	2096.1
15°	2678.6	2692.8	2654.6	2591.2	2515.8	2451.3	2445.8	2374.8	2292.8	2183.5
17.5°	2738.7	2752.9	2716.8	2640.3	2575.9	2521.2	2514.7	2455.7	2379.2	2274.2
20°	2748.5	2761.7	2723.4	2656.7	2603.2	2559.5	2556.2	2513.6	2457.8	2357.3
22.5°	2719.0	2735.4	2700.5	2646.9	2609.7	2586.8	2582.4	2558.4	2526.7	2441.4
25°	2688.4	2701.5	2675.3	2628.3	2608.7	2606.5	2609.7	2605.4	2598.8	2526.7
27.5°	2686.2	2700.5	2670.9	2626.1	2615.2	2638.2	2641.4	2662.2	2667.7	2604.3
30°	2704.8	2714.7	2686.2	2639.3	2633.8	2686.2	2687.3	2724.5	2733.2	2669.9
32.5°	2745.3	2756.2	2727.8	2658.9	2651.3	2724.5	2727.8	2777.0	2791.2	2739.8
35°	2840.3	2853.5	2820.7	2713.6	2686.2	2760.6	2770.4	2828.3	2856.7	2814.1
37.5°	3077.5	3039.2	2994.4	2823.9	2766.0	2817.4	2833.8	2901.5	2951.8	2902.6
40°	3666.5	3546.3	3406.4	3011.9	2905.9	2938.7	2951.8	3019.6	3088.4	3040.3
42.5°	4550.7	4408.6	4183.5	3444.7	3116.8	3133.2	3143.1	3202.1	3299.3	3261.1
45°	5338.6	5287.3	5057.8	4183.5	3511.4	3430.5	3442.5	3473.1	3616.3	3602.1
47.5°	5944.1	5914.6	5737.5	5031.5	4178.0	3794.4	3828.3	3842.5	4049.0	4099.3
50°	6409.6	6398.7	6240.2	5785.6	5049.0	4331.0	4343.0	4312.4	4621.7	4746.3
52.5°	6848.9	6886.1	6769.2	6486.1	5979.0	5033.7	5031.5	4887.3	5304.7	5492.7
55°	7245.7	7258.8	7270.8	7200.8	6914.5	5833.7	5812.9	5576.9	6097.1	6291.6
57.5°	7618.3	7623.8	7730.9	7874.1	7888.3	6692.7	6654.4	6371.4	6962.6	7101.4
60°	7868.6	7893.7	8119.9	8517.7	8691.5	7579.0	7558.2	7269.7	7843.5	7907.9
62.5°	7507.9	7660.9	8231.4	9020.5	9450.0	8561.5	8551.6	8280.6	8770.2	8717.7
65°	6077.4	6336.4	7339.6	9360.3	10194.2	9658.7	9672.9	9384.4	9722.1	9551.6
67.5°	4251.2	4524.4	5711.3	9387.7	11025.9	10947.2	11029.1	10576.7	10733.0	10350.5
70°	2939.8	3080.8	3853.4	8799.7	11673.9	12722.0	12719.8	12041.1	11738.4	10714.4
72.5°	1977.0	2050.2	2502.6	6981.2	11197.4	13776.6	13713.2	13160.2	12077.2	10020.4
75°	833.9	887.4	1158.4	3923.4	8858.7	12603.9	12432.4	11630.2	10730.8	7890.4
77.5°	264.5	287.4	456.8	1404.3	4879.6	9474.0	9292.6	7263.1	7192.1	3958.3
80°	125.7	146.4	256.8	563.9	1920.2	5152.8	5127.7	3295.0	3093.9	1068.8
82.5°	54.6	64.5	142.1	301.6	859.0	1838.2	1875.3	1121.3	927.8	405.5
85°	17.5	23.0	65.6	138.8	362.8	456.8	451.4	266.7	373.8	220.8
87.5°	0.0	0.0	21.9	31.7	37.2	26.2	29.5	23.0	103.8	61.2
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°
1754.0	0°	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0	1754.0
1775.9	2.5°	1762.8	1745.3	1714.7	1686.3	1661.1	1636.0	1620.7	1598.9	1596.7	1596.7
1804.3	5°	1774.8	1746.4	1691.7	1633.8	1567.2	1503.8	1440.4	1379.2	1359.5	1345.3
1850.2	7.5°	1809.8	1765.0	1678.6	1568.3	1441.5	1302.7	1205.4	1100.5	1060.1	1038.2
1911.4	10°	1860.0	1798.8	1667.7	1474.3	1268.8	1079.7	941.0	827.3	783.6	765.0
1978.1	12.5°	1915.8	1840.4	1648.0	1357.3	1079.7	853.5	718.0	665.6	659.0	659.0
2057.9	15°	1982.4	1890.6	1614.2	1219.6	881.9	675.4	627.3	629.5	636.0	640.4
2135.4	17.5°	2051.3	1944.2	1560.6	1065.5	707.1	607.6	608.7	612.0	617.5	621.8
2219.6	20°	2125.6	1997.7	1489.6	901.6	606.5	588.0	591.2	594.5	598.9	601.1
2298.3	22.5°	2205.4	2048.0	1405.4	741.0	572.7	571.6	572.7	575.9	581.4	581.4
2390.1	25°	2290.6	2103.8	1309.2	624.0	555.2	555.2	557.4	559.5	563.9	563.9
2478.6	27.5°	2378.1	2155.1	1207.6	562.8	539.9	538.8	538.8	542.1	544.2	545.3
2566.0	30°	2474.2	2215.2	1106.0	549.7	527.9	522.4	519.1	521.3	523.5	524.6
2657.8	32.5°	2572.6	2273.1	1015.3	555.2	515.8	506.0	495.1	492.9	492.9	497.3
2752.9	35°	2681.9	2336.5	945.3	573.8	509.3	482.0	464.5	454.6	455.7	462.3
2866.6	37.5°	2813.0	2413.0	894.0	590.1	504.9	454.6	426.2	414.2	406.5	414.2
3022.8	40°	2984.6	2525.6	856.8	603.3	499.4	422.9	384.7	365.0	350.8	355.2
3265.5	42.5°	3237.0	2702.6	842.6	604.4	487.4	385.8	342.1	315.8	295.1	296.2
3630.5	45°	3591.1	2982.4	915.8	590.1	461.2	345.3	297.3	262.3	249.2	245.9
4175.8	47.5°	4076.4	3390.0	1085.2	560.6	422.9	306.0	253.5	224.0	214.2	208.7
4891.6	50°	4726.6	3913.5	1273.2	527.9	384.7	268.8	217.5	198.9	192.3	186.9
5740.8	52.5°	5480.7	4444.7	1427.3	495.1	346.4	236.1	194.5	183.6	178.1	173.8
6560.4	55°	6172.5	4810.8	1418.5	460.1	309.3	209.8	178.1	171.6	165.0	160.7
7266.4	57.5°	6603.1	4862.1	1169.4	421.8	266.7	189.1	162.8	158.5	150.8	145.4
7877.3	60°	6800.9	4569.2	819.6	371.6	224.0	169.4	146.4	144.3	134.4	126.8
8455.5	62.5°	6836.9	4025.0	546.4	309.3	186.9	150.8	130.1	126.8	113.7	100.5
8925.4	65°	6690.5	3246.9	378.1	241.5	159.6	131.1	111.5	104.9	90.7	77.6
9036.9	67.5°	6227.1	2279.7	263.4	173.8	135.5	103.8	88.5	86.3	75.4	64.5
8468.6	70°	5378.0	1299.4	176.0	130.1	107.1	71.0	69.9	72.1	61.2	52.5
6918.9	72.5°	4123.4	594.5	109.3	95.1	73.2	48.1	55.7	56.8	47.0	39.3
4316.8	75°	2427.2	254.6	68.9	61.2	37.2	31.7	40.4	41.5	31.7	25.1
1578.1	77.5°	826.2	96.2	43.7	36.1	18.6	17.5	26.2	26.2	17.5	9.8
316.9	80°	188.0	36.1	21.9	14.2	8.7	7.7	8.7	7.7	4.4	1.1
97.3	82.5°	53.6	14.2	8.7	5.5	3.3	3.3	1.1	0.0	0.0	0.0
33.9	85°	15.3	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	6.6	1.1	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>
1754.0
1602.1
1351.9
1041.5
765.0
659.0
640.4
621.8
602.2
583.6
565.0
546.4
526.8
500.5
465.6
412.0
353.0
291.8
241.5
205.5
185.8
172.7
158.5
144.3
124.6
94.0
73.2
61.2
48.1
35.0
21.9
7.7
0.0
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