

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: P948566

Luminaire Tested: **GALN-SB3C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948566
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-SB3C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 15051 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

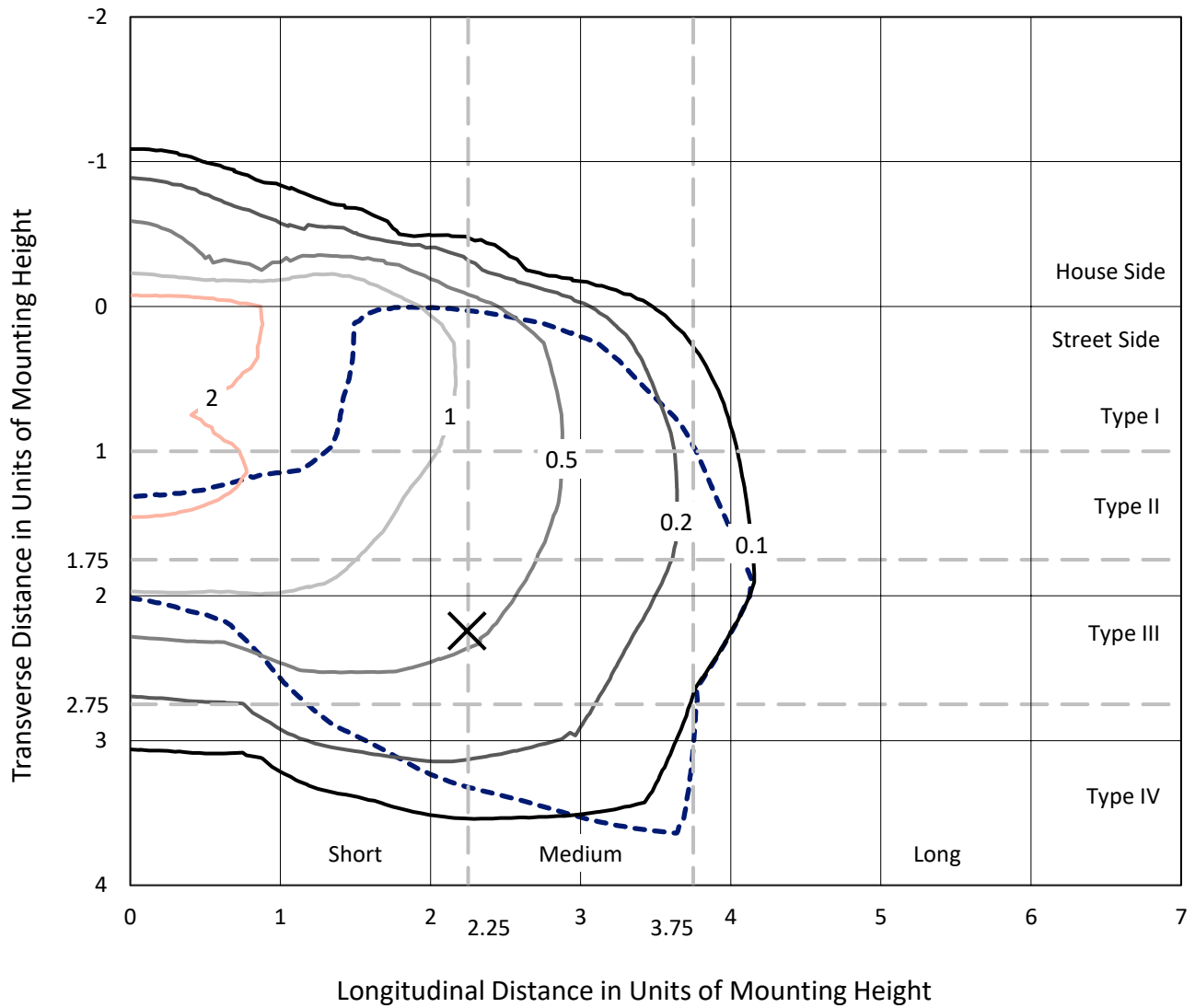
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

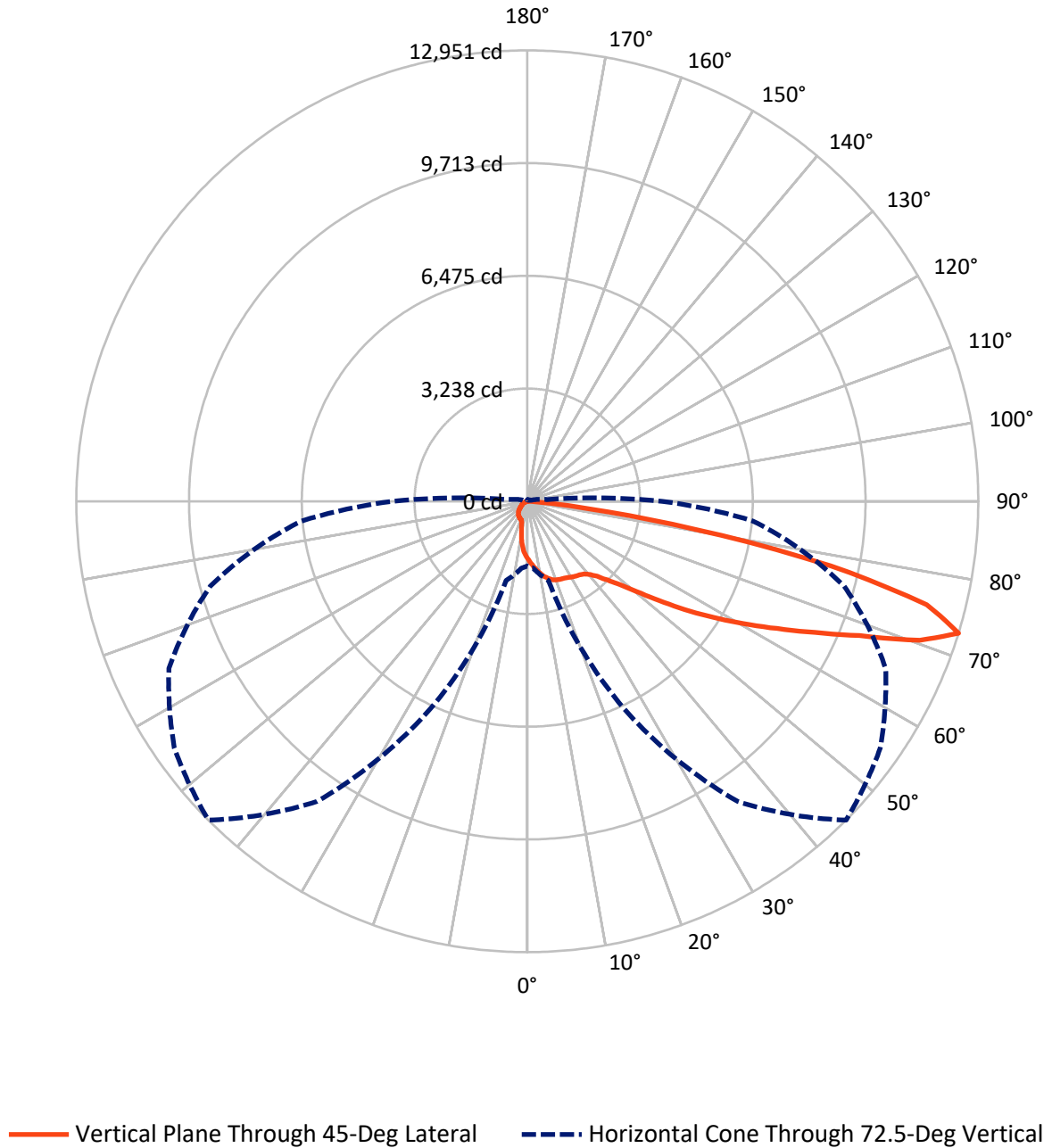
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1581.4	0.0	1581.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13469.6	0.0	13469.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	15051.0	0.0	15051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.0
10°-20°	454.0	3.0
20°-30°	745.6	5.0
30°-40°	1057.4	7.0
40°-50°	1747.8	11.6
50°-60°	3139.8	20.9
60°-70°	4359.8	29.0
70°-80°	3162.5	21.0
80°-90°	228.6	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°	15051.0	100.0
0°-180°	15051.0	100.0

Coefficient of Utilization



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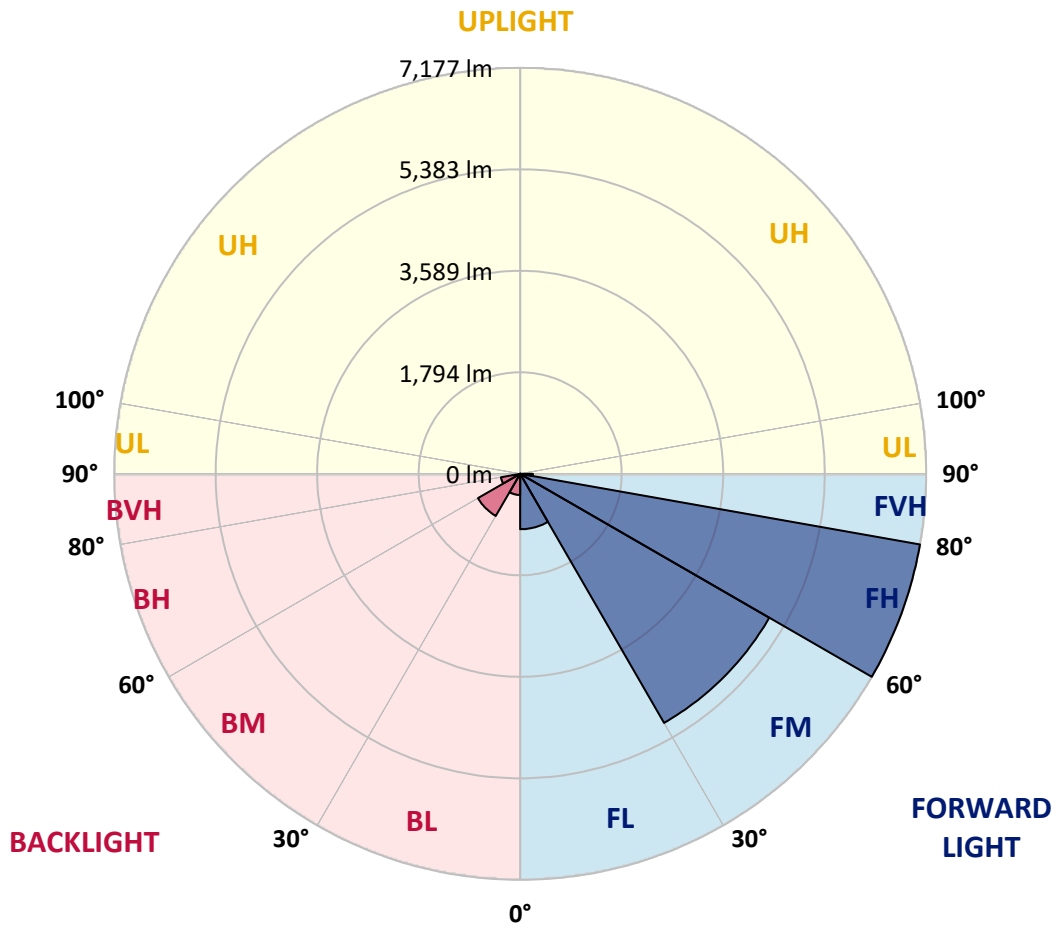
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.4	6.5			
FM (30°-60°)	5085.0	33.8			
FH (60°-80°)	7177.4	47.7			G3/7500
FVH (80°-90°)	226.7	1.5			G3/500
BL (0°-30°)	374.6	2.5	B1/500		
BM (30°-60°)	860.1	5.7	B1/1000		
BH (60°-80°)	344.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1800.9	1804.0	1801.9	1789.6	1769.1	1757.8	1751.6	1731.1	1717.7	1694.1
5°	1966.3	1978.6	1971.5	1946.8	1907.8	1880.0	1871.8	1829.7	1791.7	1747.5
7.5°	2142.0	2148.2	2134.8	2103.0	2050.6	2003.3	1996.1	1937.5	1876.9	1809.1
10°	2294.0	2301.2	2280.7	2234.4	2174.9	2116.3	2106.0	2041.3	1969.4	1886.2
12.5°	2421.4	2428.6	2401.9	2346.4	2280.7	2220.1	2209.8	2142.0	2062.9	1970.4
15°	2518.0	2531.3	2495.4	2435.8	2364.9	2304.3	2299.2	2232.4	2155.3	2052.6
17.5°	2574.5	2587.9	2553.9	2482.0	2421.4	2370.1	2363.9	2308.4	2236.5	2137.9
20°	2583.7	2596.1	2560.1	2497.4	2447.1	2406.0	2402.9	2362.9	2310.5	2216.0
22.5°	2556.0	2571.4	2538.5	2488.2	2453.3	2431.7	2427.6	2405.0	2375.2	2295.1
25°	2527.2	2539.6	2514.9	2470.7	2452.2	2450.2	2453.3	2449.2	2443.0	2375.2
27.5°	2525.2	2538.5	2510.8	2468.7	2458.4	2480.0	2483.1	2502.6	2507.7	2448.1
30°	2542.6	2551.9	2525.2	2481.0	2475.9	2525.2	2526.2	2561.1	2569.4	2509.8
32.5°	2580.7	2590.9	2564.2	2499.5	2492.3	2561.1	2564.2	2610.5	2623.8	2575.5
35°	2670.0	2682.4	2651.5	2550.9	2525.2	2595.0	2604.3	2658.7	2685.4	2645.4
37.5°	2893.0	2857.0	2814.9	2654.6	2600.2	2648.5	2663.9	2727.6	2774.8	2728.6
40°	3446.7	3333.7	3202.2	2831.3	2731.7	2762.5	2774.8	2838.5	2903.2	2858.0
42.5°	4277.8	4144.3	3932.6	3238.2	2930.0	2945.4	2954.6	3010.1	3101.5	3065.6
45°	5018.5	4970.2	4754.5	3932.6	3300.8	3224.8	3236.1	3264.9	3399.4	3386.1
47.5°	5587.7	5559.9	5393.5	4729.8	3927.5	3566.9	3598.7	3612.1	3806.3	3853.5
50°	6025.3	6015.0	5866.1	5438.7	4746.3	4071.3	4082.6	4053.9	4344.6	4461.7
52.5°	6438.3	6473.2	6363.3	6097.2	5620.5	4731.9	4729.8	4594.2	4986.7	5163.4
55°	6811.2	6823.5	6834.8	6769.1	6499.9	5483.9	5464.4	5242.5	5731.5	5914.4
57.5°	7161.5	7166.7	7267.4	7401.9	7415.3	6291.4	6255.4	5989.3	6545.1	6675.6
60°	7396.8	7420.4	7633.1	8007.0	8170.4	7124.6	7105.0	6833.8	7373.2	7433.8
62.5°	7057.8	7201.6	7737.9	8479.6	8883.3	8048.1	8038.9	7784.1	8244.3	8195.0
65°	5713.0	5956.5	6899.6	8799.1	9583.0	9079.6	9092.9	8821.7	9139.2	8978.9
67.5°	3996.3	4253.2	5368.8	8824.8	10364.8	10290.8	10367.8	9942.5	10089.4	9729.9
70°	2763.5	2896.1	3622.4	8272.1	10974.0	11959.2	11957.1	11319.2	11034.6	10072.0
72.5°	1858.4	1927.3	2352.6	6562.6	10526.1	12950.6	12891.0	12371.1	11353.1	9419.6
75°	783.9	834.2	1089.0	3688.1	8327.6	11848.2	11686.9	10932.9	10087.4	7417.3
77.5°	248.6	270.2	429.4	1320.1	4587.0	8905.9	8735.4	6827.7	6760.9	3721.0
80°	118.1	137.7	241.4	530.1	1805.0	4843.9	4820.2	3097.4	2908.4	1004.7
82.5°	51.4	60.6	133.6	283.5	807.5	1728.0	1762.9	1054.0	872.2	381.1
85°	16.4	21.6	61.6	130.5	341.1	429.4	424.3	250.7	351.3	207.5
87.5°	0.0	0.0	20.5	29.8	34.9	24.7	27.7	21.6	97.6	57.5
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°
1648.9	0°	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9	1648.9
1669.4	2.5°	1657.1	1640.7	1611.9	1585.2	1561.5	1537.9	1523.5	1503.0	1500.9	1500.9
1696.1	5°	1668.4	1641.7	1590.3	1535.9	1473.2	1413.6	1354.0	1296.5	1278.0	1264.6
1739.3	7.5°	1701.3	1659.1	1578.0	1474.2	1355.1	1224.6	1133.1	1034.5	996.5	976.0
1796.8	10°	1748.5	1691.0	1567.7	1385.9	1192.7	1015.0	884.5	777.7	736.6	719.1
1859.5	12.5°	1800.9	1730.0	1549.2	1275.9	1015.0	802.3	675.0	625.6	619.5	619.5
1934.5	15°	1863.6	1777.3	1517.4	1146.5	829.1	634.9	589.7	591.7	597.9	602.0
2007.4	17.5°	1928.3	1827.6	1467.0	1001.6	664.7	571.2	572.2	575.3	580.4	584.6
2086.5	20°	1998.2	1878.0	1400.3	847.5	570.2	552.7	555.8	558.9	563.0	565.0
2160.5	22.5°	2073.2	1925.2	1321.1	696.5	538.3	537.3	538.3	541.4	546.5	546.5
2246.8	25°	2153.3	1977.6	1230.7	586.6	521.9	521.9	523.9	526.0	530.1	530.1
2330.0	27.5°	2235.5	2025.9	1135.2	529.1	507.5	506.5	506.5	509.6	511.6	512.6
2412.2	30°	2325.9	2082.4	1039.7	516.7	496.2	491.1	488.0	490.0	492.1	493.1
2498.5	32.5°	2418.3	2136.9	954.4	521.9	484.9	475.7	465.4	463.3	463.3	467.4
2587.9	35°	2521.1	2196.4	888.6	539.3	478.7	453.1	436.6	427.4	428.4	434.6
2694.7	37.5°	2644.4	2268.4	840.4	554.8	474.6	427.4	400.7	389.4	382.2	389.4
2841.6	40°	2805.6	2374.2	805.4	567.1	469.5	397.6	361.6	343.1	329.8	333.9
3069.7	42.5°	3043.0	2540.6	792.1	568.1	458.2	362.6	321.6	296.9	277.4	278.4
3412.8	45°	3375.8	2803.6	860.9	554.8	433.5	324.6	279.4	246.6	234.2	231.1
3925.4	47.5°	3832.0	3186.8	1020.1	527.0	397.6	287.7	238.3	210.6	201.4	196.2
4598.3	50°	4443.2	3678.9	1196.8	496.2	361.6	252.7	204.4	187.0	180.8	175.7
5396.6	52.5°	5152.1	4178.2	1341.7	465.4	325.7	221.9	182.9	172.6	167.5	163.3
6167.1	55°	5802.4	4522.3	1333.5	432.5	290.7	197.2	167.5	161.3	155.1	151.0
6830.7	57.5°	6207.1	4570.6	1099.2	396.6	250.7	177.7	153.1	149.0	141.8	136.6
7405.0	60°	6393.1	4295.3	770.5	349.3	210.6	159.2	137.7	135.6	126.4	119.2
7948.5	62.5°	6427.0	3783.7	513.7	290.7	175.7	141.8	122.3	119.2	106.8	94.5
8390.2	65°	6289.3	3052.2	355.5	227.0	150.0	123.3	104.8	98.6	85.3	72.9
8495.0	67.5°	5853.7	2143.0	247.6	163.3	127.4	97.6	83.2	81.2	70.9	60.6
7960.8	70°	5055.5	1221.5	165.4	122.3	100.7	66.8	65.7	67.8	57.5	49.3
6504.0	72.5°	3876.1	558.9	102.7	89.4	68.8	45.2	52.4	53.4	44.2	37.0
4058.0	75°	2281.7	239.4	64.7	57.5	34.9	29.8	38.0	39.0	29.8	23.6
1483.5	77.5°	776.7	90.4	41.1	33.9	17.5	16.4	24.7	24.7	16.4	9.2
297.9	80°	176.7	33.9	20.5	13.4	8.2	7.2	8.2	7.2	4.1	1.0
91.4	82.5°	50.3	13.4	8.2	5.1	3.1	3.1	1.0	0.0	0.0	0.0
31.8	85°	14.4	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	6.2	1.0	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>
1648.9
1506.1
1270.8
979.0
719.1
619.5
602.0
584.6
566.1
548.6
531.1
513.7
495.2
470.5
437.6
387.3
331.8
274.3
227.0
193.1
174.6
162.3
149.0
135.6
117.1
88.4
68.8
57.5
45.2
32.9
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