

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: P940289

Luminaire Tested: **GALN-SB3B-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3B-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

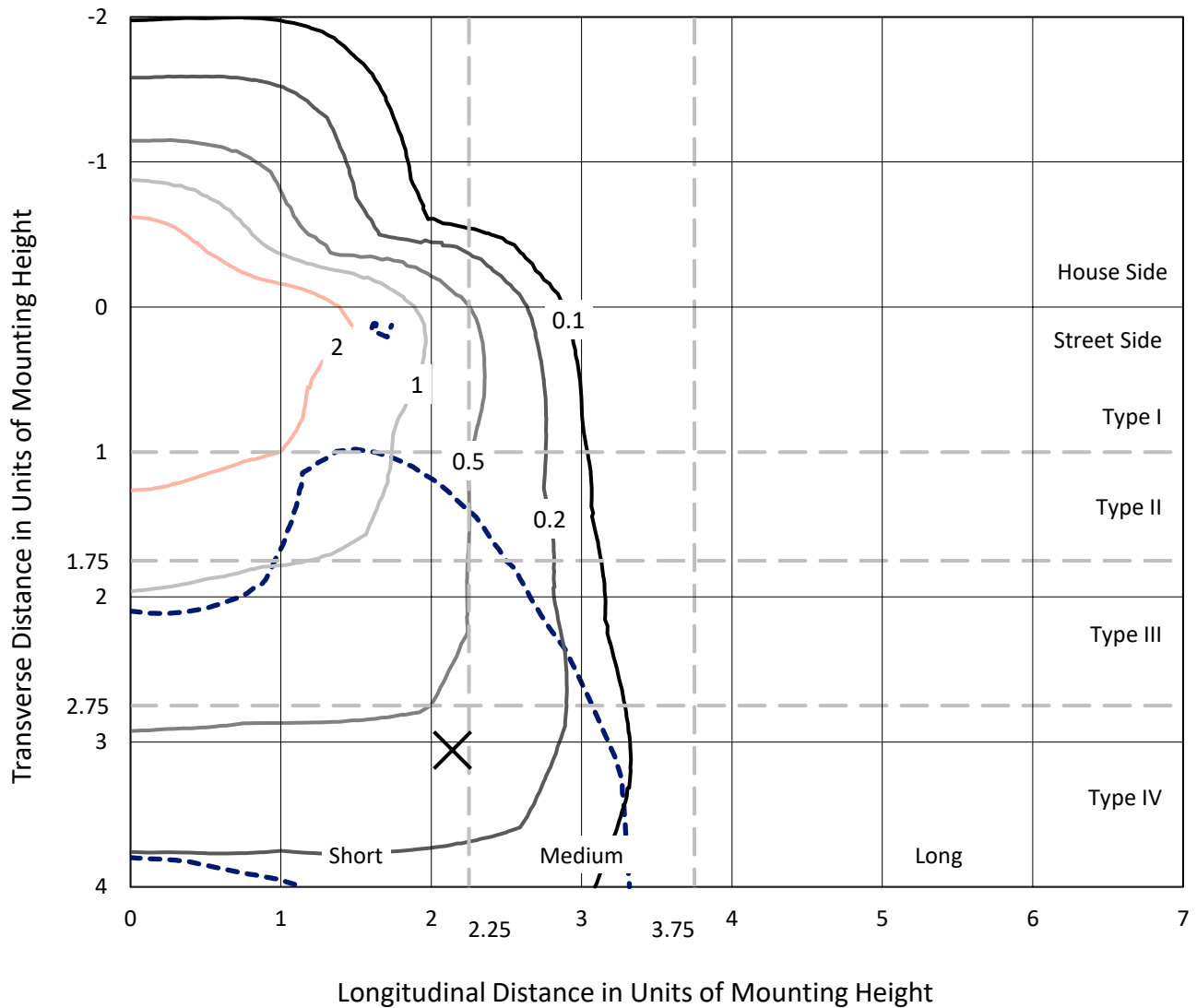
Lumens per Lamp: N/A  
Luminaire Lumens: 17667 lumens  
Efficiency: N/A  
Efficacy: 161.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

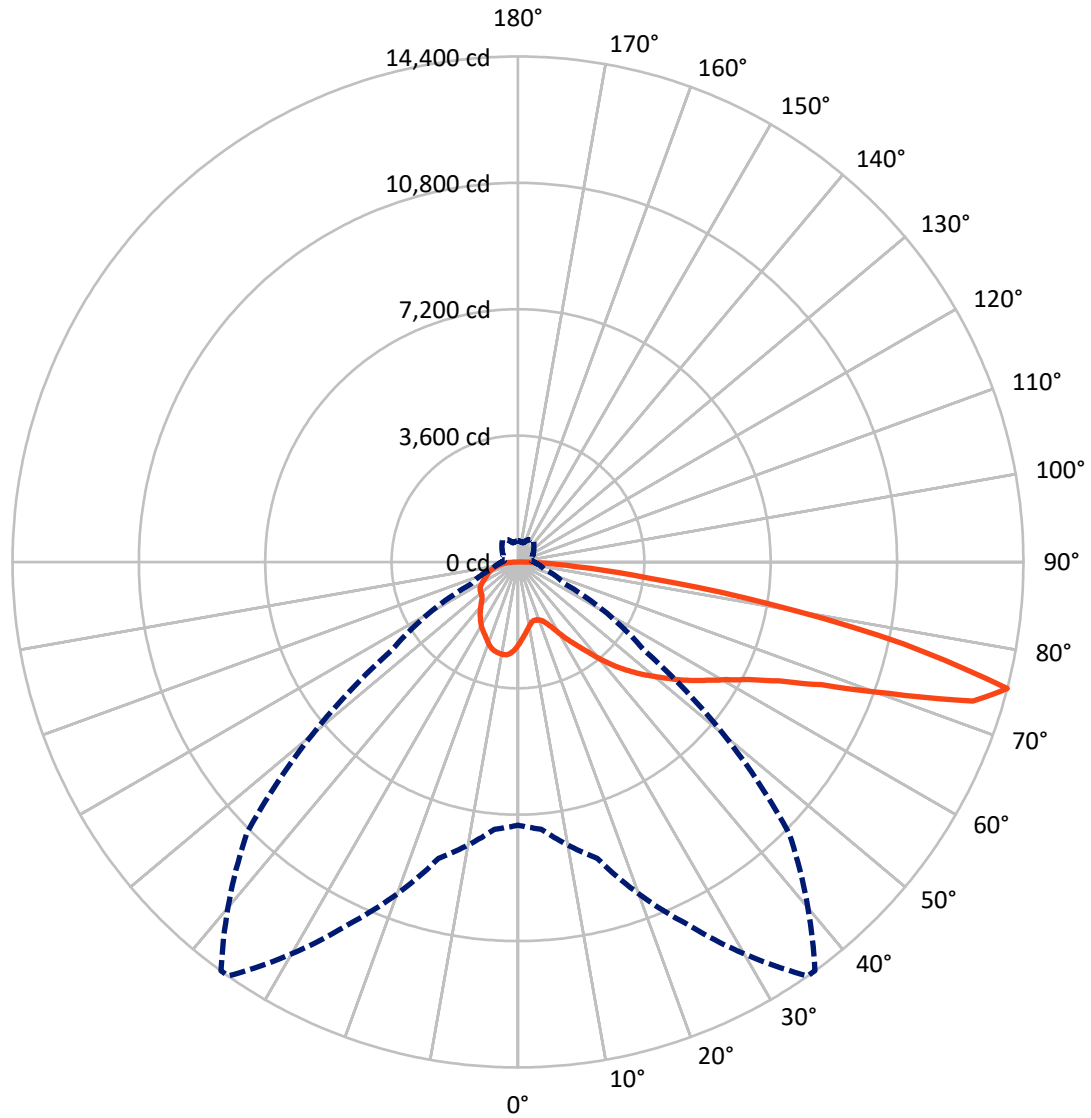
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4204.3	0.0	4204.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	13462.7	0.0	13462.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	17667.0	0.0	17667.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.9	1.3
10°-20°	642.9	3.6
20°-30°	1079.7	6.1
30°-40°	1678.0	9.5
40°-50°	2490.5	14.1
50°-60°	3438.3	19.5
60°-70°	4171.5	23.6
70°-80°	3447.4	19.5
80°-90°	495.8	2.8
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°	17667.0	100.0
0°-180°	17667.0	100.0



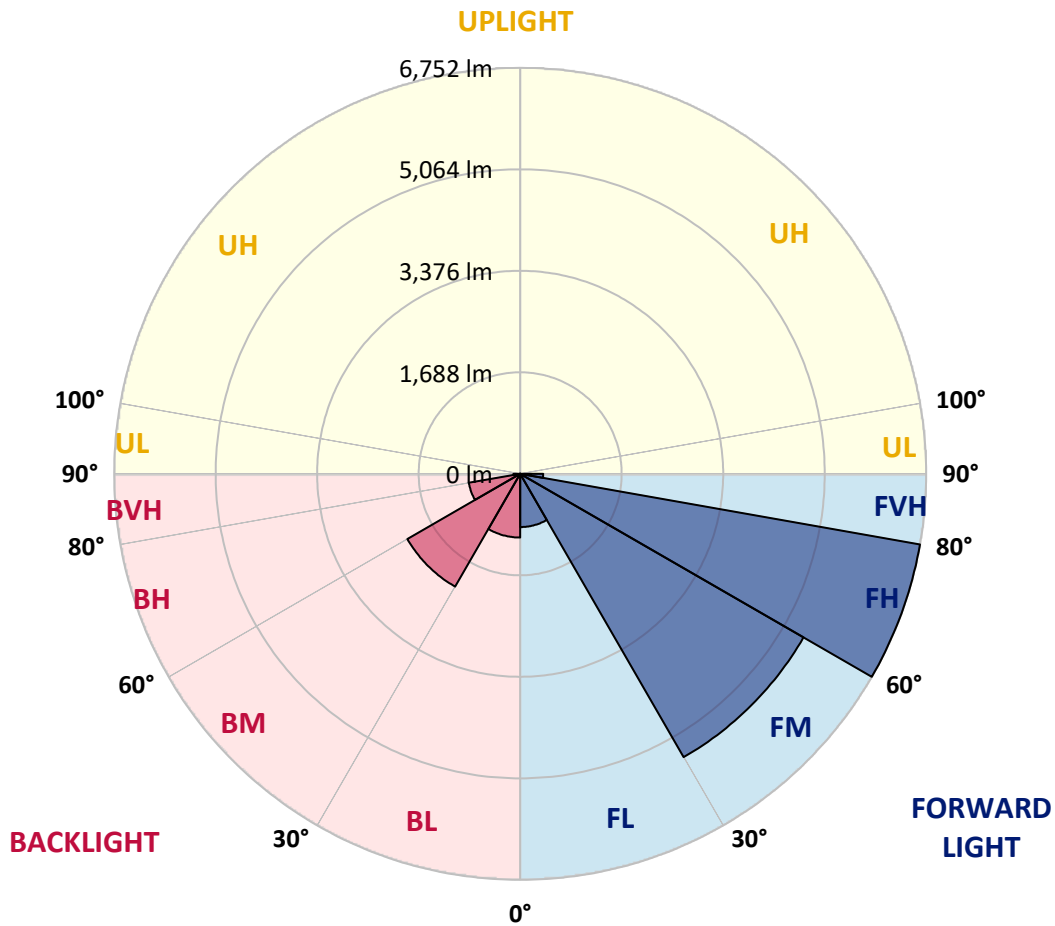
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.0	5.0			
FM (30°-60°)	5440.5	30.8			
FH (60°-80°)	6752.1	38.2			G3/7500
FVH (80°-90°)	384.2	2.2			G3/500
BL (0°-30°)	1059.5	6.0	B3/2500		
BM (30°-60°)	2166.3	12.3	B2/2500		
BH (60°-80°)	866.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	111.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2
2.5°	2170.9	2184.2	2190.0	2187.1	2201.4	2199.5	2219.6	2244.4	2278.8	2312.2
5°	2003.7	2018.1	2030.5	2041.9	2069.6	2078.2	2109.7	2157.5	2220.5	2284.5
7.5°	1848.1	1860.5	1879.6	1900.6	1947.4	1956.0	2008.5	2083.0	2170.9	2264.5
10°	1721.0	1733.5	1753.5	1777.4	1835.6	1846.2	1913.0	2012.3	2126.9	2245.4
12.5°	1666.6	1670.4	1681.9	1705.8	1756.4	1763.1	1836.6	1950.3	2084.0	2231.0
15°	1663.7	1671.4	1672.3	1684.7	1726.8	1729.6	1797.4	1910.1	2057.2	2228.2
17.5°	1692.4	1698.1	1689.5	1697.2	1732.5	1737.3	1790.8	1891.0	2048.6	2240.6
20°	1768.8	1773.6	1747.8	1737.3	1763.1	1766.9	1819.4	1903.5	2057.2	2266.4
22.5°	1931.2	1934.0	1871.0	1828.0	1829.9	1831.8	1877.7	1954.1	2090.6	2313.2
25°	2184.2	2182.3	2082.1	1999.0	1951.2	1940.7	1971.3	2036.2	2147.0	2375.3
27.5°	2480.3	2466.0	2365.7	2241.5	2137.4	2122.2	2115.5	2143.2	2227.2	2457.4
30°	2814.6	2801.2	2693.3	2530.9	2386.7	2361.9	2298.9	2284.5	2346.6	2569.1
32.5°	3181.3	3172.7	3043.8	2847.1	2654.1	2625.5	2519.5	2481.3	2530.0	2738.2
35°	3488.9	3481.2	3374.3	3171.8	2935.9	2900.5	2792.6	2749.6	2774.5	2955.0
37.5°	3766.8	3763.0	3671.3	3511.8	3268.2	3225.3	3104.0	3089.7	3084.9	3240.6
40°	4024.7	4015.1	3919.6	3835.6	3655.1	3615.9	3508.9	3496.5	3460.2	3592.0
42.5°	4310.2	4285.4	4146.9	4107.8	4059.0	4026.6	3962.6	3964.5	3884.3	3988.4
45°	4543.3	4528.9	4386.6	4363.7	4416.2	4402.9	4458.3	4472.6	4316.9	4403.8
47.5°	4793.5	4780.1	4659.8	4643.5	4785.9	4789.7	4985.5	4990.2	4739.1	4835.5
50°	5102.0	5082.9	4963.5	4983.6	5143.1	5157.4	5515.5	5483.1	5127.8	5273.9
52.5°	5305.4	5316.9	5291.1	5323.6	5541.3	5554.7	6037.0	5953.9	5512.7	5706.5
55°	5455.4	5478.3	5558.5	5633.0	5961.5	5974.9	6528.9	6401.8	5831.7	6107.7
57.5°	5648.3	5615.8	5765.8	5910.9	6360.8	6396.1	7007.3	6833.5	6114.4	6453.4
60°	5925.3	5902.3	6018.9	6233.7	6807.7	6864.1	7513.5	7222.2	6321.6	6727.5
62.5°	6486.8	6429.5	6447.7	6637.7	7371.2	7445.7	8084.7	7561.3	6424.8	6834.5
65°	7326.3	7228.0	7136.3	7268.1	8164.9	8238.4	8729.3	7827.8	6386.6	6627.2
67.5°	8383.6	8286.2	8173.5	8297.6	9333.9	9392.2	9524.9	7977.7	6085.7	5828.8
70°	9255.6	9219.3	9354.0	9864.9	11201.1	11203.0	10544.9	7853.5	5261.5	4132.6
72.5°	9140.0	9118.1	9827.7	11407.4	13554.4	13503.7	11510.5	6913.8	3544.3	1864.3
75°	7498.3	7640.6	8739.8	11379.7	14399.6	14392.9	10919.3	4395.2	1466.0	772.7
77.5°	4020.8	4246.2	5674.1	8401.7	11241.2	11410.2	7676.9	1537.7	629.4	494.7
80°	1311.3	1508.1	2261.6	4277.8	7304.4	7272.9	3290.2	603.6	430.7	350.5
82.5°	556.8	579.7	1010.5	2020.0	3748.6	3690.4	1047.7	346.7	302.8	239.7
85°	217.8	243.5	446.0	934.1	1623.6	1588.3	378.2	171.9	193.9	156.6
87.5°	71.6	86.9	159.5	319.9	505.2	487.1	92.6	59.2	84.0	71.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940289  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2354.2	0°	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2	2354.2
2360.9	2.5°	2374.3	2389.6	2407.7	2434.5	2457.4	2476.5	2496.6	2509.0	2513.7	2528.1
2364.8	5°	2391.5	2424.9	2469.8	2513.7	2556.7	2582.5	2605.4	2616.9	2627.4	2635.0
2375.3	7.5°	2420.1	2463.1	2533.8	2591.1	2627.4	2648.4	2663.7	2659.9	2663.7	2665.6
2386.7	10°	2445.0	2505.1	2589.2	2643.6	2671.3	2672.3	2668.5	2655.1	2648.4	2649.4
2403.9	12.5°	2474.6	2541.4	2632.2	2678.0	2685.7	2664.6	2648.4	2625.5	2616.9	2613.1
2429.7	15°	2514.7	2591.1	2679.0	2696.2	2677.1	2650.3	2622.6	2585.4	2566.3	2551.0
2473.6	17.5°	2563.4	2647.5	2715.3	2702.8	2661.8	2617.8	2573.0	2516.6	2477.5	2461.2
2533.8	20°	2631.2	2706.7	2743.0	2688.5	2626.4	2559.6	2483.2	2414.4	2378.1	2361.9
2610.2	22.5°	2713.4	2785.9	2769.7	2663.7	2575.8	2468.9	2373.3	2322.7	2304.6	2293.1
2708.6	25°	2811.7	2873.8	2788.8	2627.4	2492.7	2348.5	2275.0	2258.7	2250.1	2241.5
2828.9	27.5°	2939.7	2973.1	2803.1	2573.9	2362.8	2220.5	2193.8	2196.7	2193.8	2179.5
2996.1	30°	3108.8	3102.1	2816.5	2487.0	2213.9	2105.0	2106.9	2119.3	2121.2	2111.7
3229.1	32.5°	3331.3	3263.5	2823.2	2374.3	2071.5	2003.7	2005.6	2019.0	2028.6	2012.3
3533.8	35°	3600.6	3451.6	2812.7	2233.0	1961.7	1907.3	1892.9	1896.8	1899.6	1884.4
3903.4	37.5°	3914.8	3662.7	2765.9	2076.3	1871.0	1812.7	1782.2	1756.4	1741.1	1726.8
4321.7	40°	4259.6	3892.9	2679.9	1923.5	1769.7	1712.4	1666.6	1617.9	1566.3	1547.2
4764.8	42.5°	4620.6	4129.7	2575.8	1777.4	1653.2	1606.4	1557.7	1487.0	1409.7	1370.5
5225.2	45°	4995.0	4372.3	2473.6	1633.2	1533.8	1513.8	1457.4	1372.4	1288.4	1238.7
5686.5	47.5°	5361.8	4601.5	2323.7	1488.0	1422.1	1444.1	1400.1	1321.8	1228.2	1149.9
6144.0	50°	5712.3	4816.4	2078.2	1340.9	1331.4	1423.1	1381.0	1268.3	1161.4	1061.1
6592.8	52.5°	6059.9	4990.2	1764.0	1207.2	1282.7	1417.3	1356.2	1232.0	1101.2	996.1
7015.0	55°	6355.0	5080.0	1461.3	1092.6	1212.0	1368.6	1326.6	1189.1	1016.2	904.5
7304.4	57.5°	6523.1	5007.4	1209.1	979.9	1114.6	1288.4	1276.0	1097.4	915.0	829.0
7360.7	60°	6450.5	4713.3	1002.8	881.5	1021.9	1201.5	1188.1	1006.6	837.6	756.4
7058.9	62.5°	6050.4	4152.6	839.5	795.6	937.9	1112.7	1100.2	936.9	778.4	700.1
6257.6	65°	5244.3	3378.1	712.5	723.9	852.9	1005.7	1023.8	878.7	731.6	655.2
4841.2	67.5°	3999.8	2446.9	613.2	661.9	769.8	900.6	953.2	836.6	692.4	619.8
2801.2	70°	2279.8	1389.6	529.1	601.7	696.2	803.2	898.7	803.2	650.4	590.2
1049.6	72.5°	864.3	638.0	457.5	541.5	625.6	721.1	838.6	750.7	601.7	556.8
542.5	75°	461.3	388.7	384.9	470.8	544.4	640.9	763.1	699.1	565.4	588.3
375.3	77.5°	314.2	275.1	321.9	403.0	455.6	552.0	682.9	620.8	490.0	488.0
259.8	80°	217.8	194.8	261.7	324.7	352.4	464.2	596.0	532.9	399.2	372.5
160.5	82.5°	130.8	127.0	195.8	242.6	249.3	358.2	493.8	447.0	326.6	284.6
95.5	85°	71.6	75.5	125.1	142.3	145.2	250.2	386.8	345.7	251.2	211.1
34.4	87.5°	20.1	25.8	45.8	56.3	69.7	129.9	230.2	205.3	126.1	87.9
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>
2354.2
2527.1
2636.9
2668.5
2651.3
2611.2
2555.8
2462.2
2360.0
2295.0
2241.5
2182.3
2116.4
2020.0
1894.9
1736.3
1555.8
1375.3
1234.9
1141.3
1052.5
984.7
894.9
817.5
745.0
687.7
642.8
608.4
582.6
549.2
607.4
449.8
356.2
286.5
213.0
87.9
0.0

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