

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: P940359

Luminaire Tested: **GALN-SB3B-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940359  
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-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

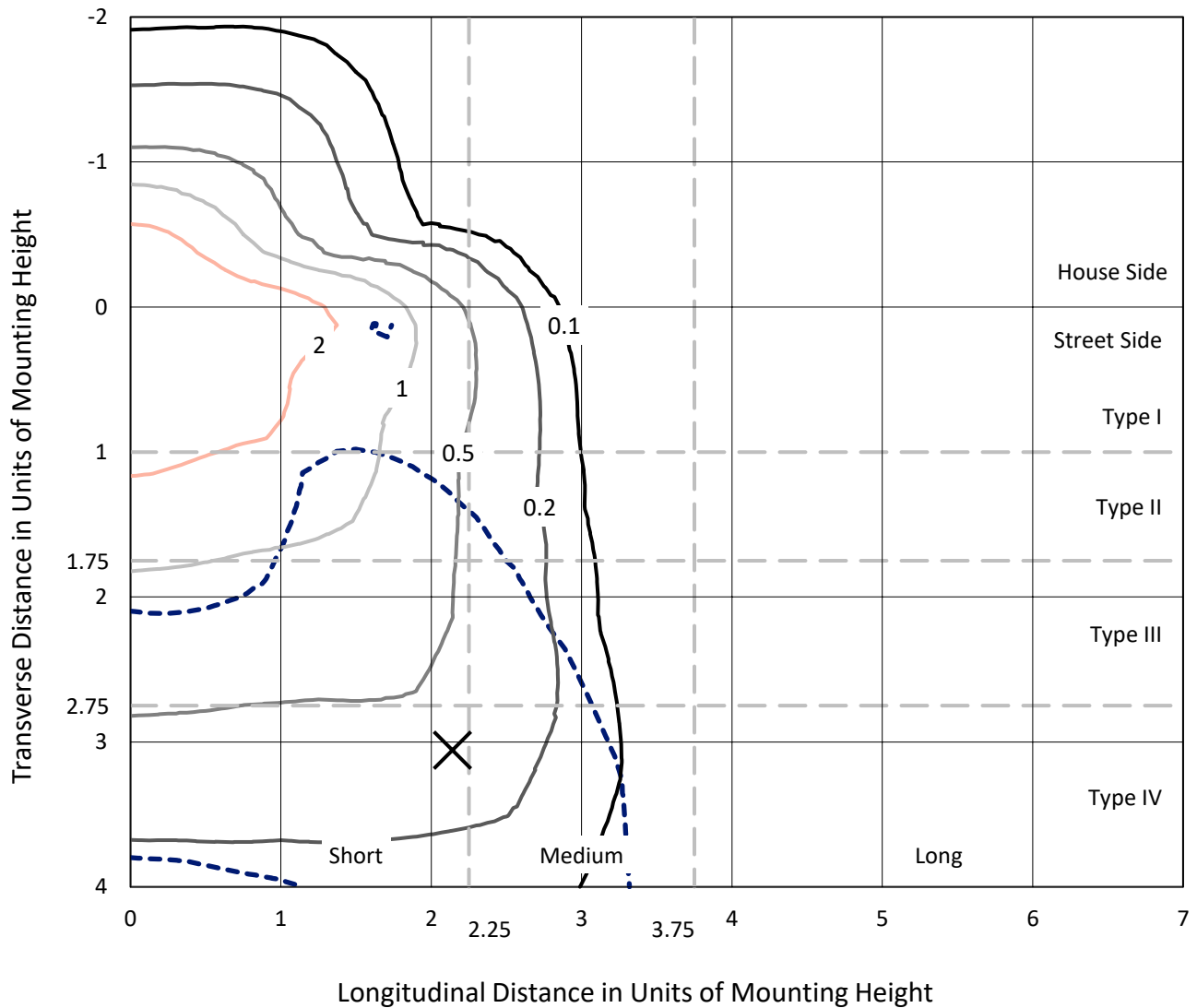
Lumens per Lamp: N/A  
Luminaire Lumens: 15973 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

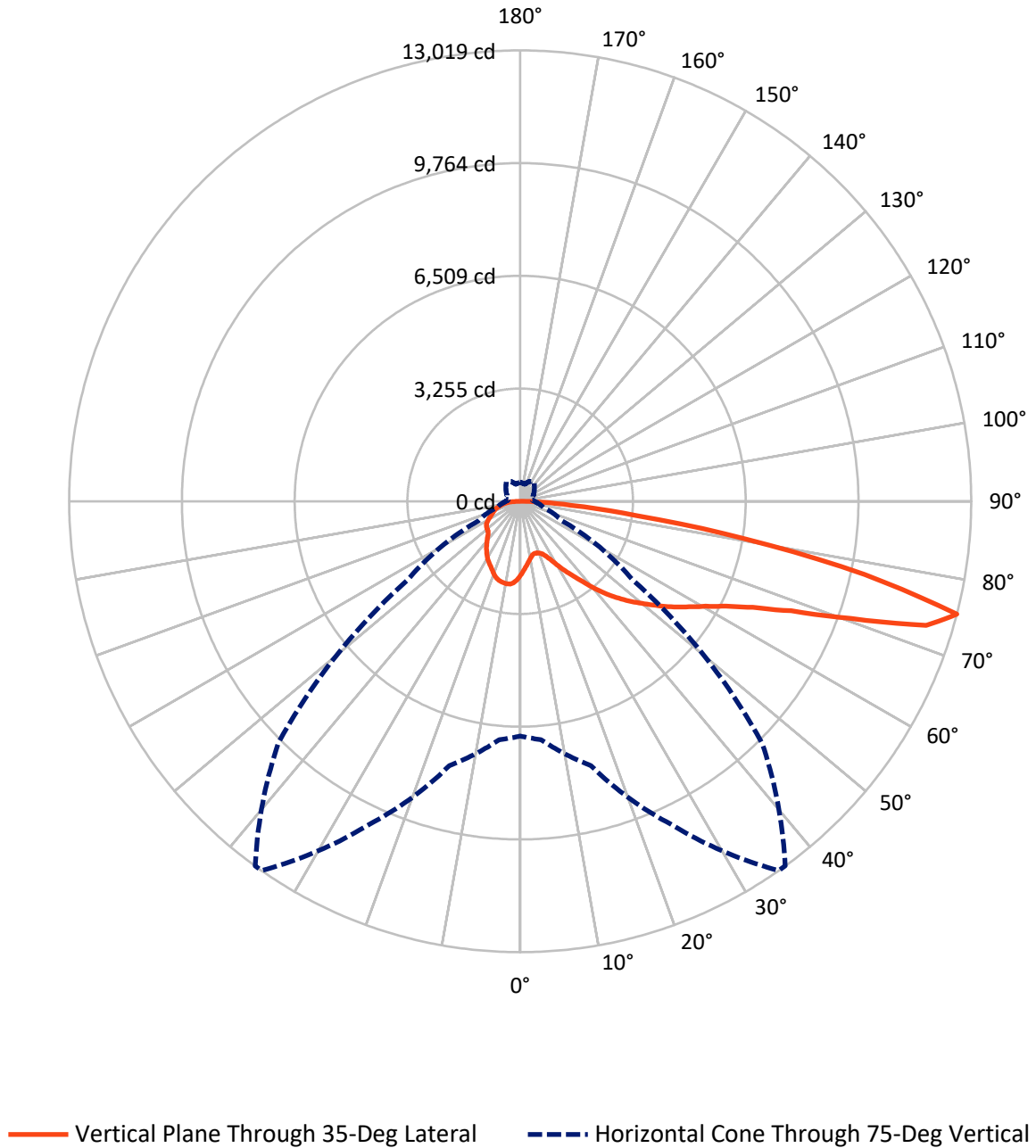
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3801.2	0.0	3801.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	12171.8	0.0	12171.8
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	15973.0	0.0	15973.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	1.3
10°-20°	581.3	3.6
20°-30°	976.1	6.1
30°-40°	1517.1	9.5
40°-50°	2251.7	14.1
50°-60°	3108.6	19.5
60°-70°	3771.5	23.6
70°-80°	3116.8	19.5
80°-90°	448.3	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°	15973.0	100.0
0°-180°	15973.0	100.0



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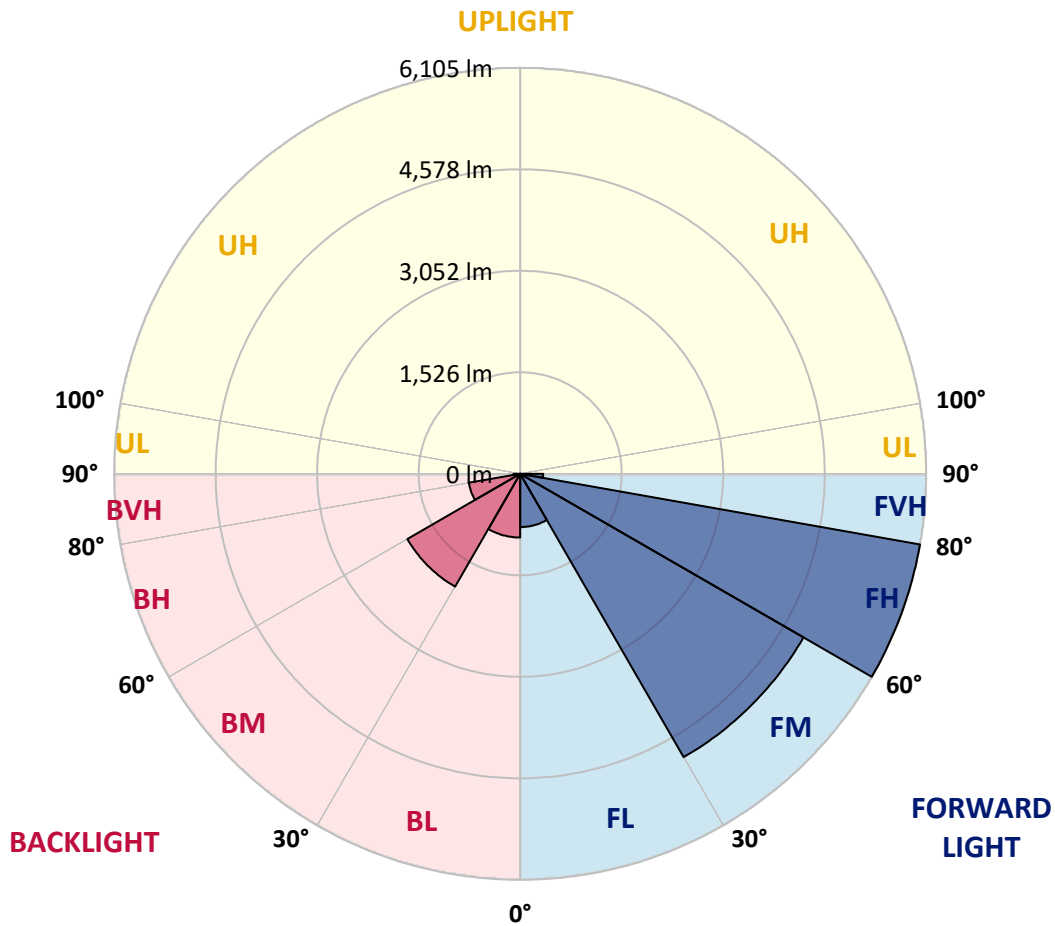
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.0	5.0			
FM (30°-60°)	4918.8	30.8			
FH (60°-80°)	6104.6	38.2			G3/7500
FVH (80°-90°)	347.4	2.2			G3/500
BL (0°-30°)	957.9	6.0	B2/1000		
BM (30°-60°)	1958.6	12.3	B2/2500		
BH (60°-80°)	783.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	100.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5
2.5°	1962.7	1974.8	1980.0	1977.4	1990.4	1988.6	2006.8	2029.2	2060.3	2090.5
5°	1811.6	1824.6	1835.8	1846.1	1871.2	1879.0	1907.5	1950.6	2007.6	2065.5
7.5°	1670.9	1682.1	1699.4	1718.4	1760.7	1768.4	1815.9	1883.3	1962.7	2047.3
10°	1556.0	1567.2	1585.4	1607.0	1659.6	1669.1	1729.6	1819.4	1923.0	2030.1
12.5°	1506.8	1510.2	1520.6	1542.2	1588.0	1594.0	1660.5	1763.3	1884.1	2017.1
15°	1504.2	1511.1	1512.0	1523.2	1561.2	1563.8	1625.1	1727.0	1860.0	2014.5
17.5°	1530.1	1535.3	1527.5	1534.4	1566.4	1570.7	1619.0	1709.7	1852.2	2025.8
20°	1599.2	1603.5	1580.2	1570.7	1594.0	1597.5	1645.0	1720.9	1860.0	2049.1
22.5°	1746.0	1748.6	1691.6	1652.7	1654.5	1656.2	1697.6	1766.7	1890.2	2091.4
25°	1974.8	1973.1	1882.4	1807.3	1764.1	1754.6	1782.2	1841.0	1941.1	2147.5
27.5°	2242.5	2229.5	2138.9	2026.6	1932.5	1918.7	1912.6	1937.7	2013.7	2221.8
30°	2544.7	2532.6	2435.1	2288.3	2157.9	2135.4	2078.4	2065.5	2121.6	2322.8
32.5°	2876.3	2868.5	2752.0	2574.1	2399.6	2373.7	2277.9	2243.4	2287.4	2475.6
35°	3154.3	3147.4	3050.7	2867.7	2654.4	2622.4	2524.9	2486.0	2508.4	2671.6
37.5°	3405.6	3402.2	3319.3	3175.1	2954.9	2916.0	2806.4	2793.4	2789.1	2929.8
40°	3638.8	3630.1	3543.8	3467.8	3304.6	3269.2	3172.5	3161.2	3128.4	3247.6
42.5°	3896.9	3874.5	3749.3	3713.9	3669.8	3640.5	3582.6	3584.4	3511.8	3605.9
45°	4107.6	4094.7	3966.0	3945.3	3992.8	3980.7	4030.8	4043.7	3903.0	3981.6
47.5°	4333.9	4321.8	4213.0	4198.3	4327.0	4330.4	4507.4	4511.8	4284.7	4371.9
50°	4612.8	4595.5	4487.6	4505.7	4649.9	4662.9	4986.7	4957.3	4636.1	4768.2
52.5°	4796.7	4807.1	4783.8	4813.1	5010.0	5022.1	5458.1	5383.0	4984.1	5159.4
55°	4932.3	4953.0	5025.5	5092.9	5389.9	5402.0	5902.8	5788.0	5272.5	5522.0
57.5°	5106.7	5077.3	5212.9	5344.2	5750.9	5782.8	6335.4	6178.3	5528.1	5834.6
60°	5357.1	5336.4	5441.7	5636.0	6155.0	6205.9	6793.1	6529.7	5715.5	6082.4
62.5°	5864.8	5813.0	5829.4	6001.3	6664.4	6731.8	7309.5	6836.3	5808.7	6179.2
65°	6623.9	6534.9	6452.0	6571.2	7382.0	7448.5	7892.3	7077.2	5774.2	5991.8
67.5°	7579.7	7491.7	7389.8	7502.0	8438.9	8491.6	8611.6	7212.8	5502.2	5269.9
70°	8368.1	8335.3	8457.1	8919.0	10127.0	10128.8	9533.8	7100.5	4757.0	3736.3
72.5°	8263.6	8243.8	8885.3	10313.6	12254.7	12208.9	10406.8	6250.8	3204.4	1685.5
75°	6779.3	6907.9	7901.8	10288.5	13018.9	13012.8	9872.3	3973.8	1325.5	698.6
77.5°	3635.3	3839.1	5130.0	7596.1	10163.3	10316.2	6940.8	1390.2	569.0	447.3
80°	1185.6	1363.5	2044.8	3867.6	6604.0	6575.5	2974.7	545.7	389.4	316.9
82.5°	503.4	524.1	913.6	1826.3	3389.2	3336.5	947.3	313.4	273.7	216.7
85°	196.9	220.2	403.3	844.5	1467.9	1436.0	341.9	155.4	175.3	141.6
87.5°	64.8	78.6	144.2	289.3	456.8	440.4	83.8	53.5	76.0	64.8
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°
2128.5	0°	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5	2128.5
2134.6	2.5°	2146.6	2160.5	2176.9	2201.0	2221.8	2239.0	2257.2	2268.4	2272.7	2285.7
2138.0	5°	2162.2	2192.4	2233.0	2272.7	2311.6	2334.9	2355.6	2366.0	2375.5	2382.4
2147.5	7.5°	2188.1	2226.9	2290.8	2342.7	2375.5	2394.5	2408.3	2404.8	2408.3	2410.0
2157.9	10°	2210.5	2264.9	2340.9	2390.1	2415.2	2416.1	2412.6	2400.5	2394.5	2395.3
2173.4	12.5°	2237.3	2297.8	2379.8	2421.2	2428.1	2409.1	2394.5	2373.7	2366.0	2362.5
2196.7	15°	2273.6	2342.7	2422.1	2437.6	2420.4	2396.2	2371.2	2337.5	2320.2	2306.4
2236.4	17.5°	2317.6	2393.6	2454.9	2443.7	2406.6	2366.8	2326.3	2275.3	2239.9	2225.2
2290.8	20°	2378.9	2447.1	2480.0	2430.7	2374.6	2314.2	2245.1	2182.9	2150.1	2135.4
2359.9	22.5°	2453.2	2518.8	2504.1	2408.3	2328.8	2232.1	2145.8	2100.0	2083.6	2073.2
2448.9	25°	2542.1	2598.3	2521.4	2375.5	2253.7	2123.3	2056.8	2042.2	2034.4	2026.6
2557.7	27.5°	2657.8	2688.1	2534.4	2327.1	2136.3	2007.6	1983.4	1986.0	1983.4	1970.5
2708.8	30°	2810.7	2804.6	2546.4	2248.5	2001.6	1903.1	1904.9	1916.1	1917.8	1909.2
2919.5	32.5°	3011.9	2950.6	2552.5	2146.6	1872.9	1811.6	1813.3	1825.4	1834.1	1819.4
3194.9	35°	3255.4	3120.7	2543.0	2018.8	1773.6	1724.4	1711.4	1714.9	1717.5	1703.7
3529.1	37.5°	3539.5	3311.5	2500.7	1877.2	1691.6	1638.9	1611.3	1588.0	1574.1	1561.2
3907.3	40°	3851.2	3519.6	2423.0	1739.1	1600.1	1548.2	1506.8	1462.8	1416.1	1398.9
4308.0	42.5°	4177.6	3733.7	2328.8	1607.0	1494.7	1452.4	1408.4	1344.5	1274.5	1239.1
4724.2	45°	4516.1	3953.1	2236.4	1476.6	1386.8	1368.6	1317.7	1240.8	1164.9	1120.0
5141.2	47.5°	4847.6	4160.3	2100.9	1345.3	1285.7	1305.6	1265.9	1195.1	1110.5	1039.6
5554.9	50°	5164.6	4354.6	1879.0	1212.3	1203.7	1286.6	1248.6	1146.7	1050.0	959.3
5960.7	52.5°	5478.9	4511.8	1594.9	1091.5	1159.7	1281.4	1226.2	1113.9	995.6	900.6
6342.4	55°	5745.7	4592.9	1321.1	987.8	1095.8	1237.4	1199.4	1075.0	918.8	817.7
6604.0	57.5°	5897.7	4527.3	1093.2	885.9	1007.7	1164.9	1153.6	992.2	827.2	749.5
6654.9	60°	5832.0	4261.3	906.7	797.0	923.9	1086.3	1074.2	910.1	757.3	683.9
6382.1	62.5°	5470.2	3754.5	759.0	719.3	848.0	1006.0	994.7	847.1	703.7	632.9
5657.6	65°	4741.4	3054.2	644.2	654.5	771.1	909.3	925.7	794.4	661.4	592.4
4377.0	67.5°	3616.3	2212.3	554.4	598.4	696.0	814.3	861.8	756.4	626.0	560.4
2532.6	70°	2061.2	1256.4	478.4	544.0	629.5	726.2	812.5	726.2	588.0	533.6
949.0	72.5°	781.5	576.8	413.6	489.6	565.6	651.9	758.1	678.7	544.0	503.4
490.5	75°	417.1	351.4	348.0	425.7	492.2	579.4	689.9	632.1	511.2	531.9
339.4	77.5°	284.1	248.7	291.0	364.4	411.9	499.1	617.4	561.3	443.0	441.2
234.9	80°	196.9	176.2	236.6	293.6	318.6	419.7	538.8	481.8	360.9	336.8
145.1	82.5°	118.3	114.8	177.0	219.3	225.4	323.8	446.4	404.1	295.3	257.3
86.3	85°	64.8	68.2	113.1	128.7	131.3	226.2	349.7	312.6	227.1	190.8
31.1	87.5°	18.1	23.3	41.4	50.9	63.0	117.4	208.1	185.7	114.0	79.4
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>
2128.5
2284.8
2384.1
2412.6
2397.1
2360.8
2310.7
2226.1
2133.7
2075.0
2026.6
1973.1
1913.5
1826.3
1713.2
1569.8
1406.6
1243.4
1116.5
1031.9
951.6
890.3
809.1
739.2
673.5
621.7
581.1
550.0
526.7
496.5
549.2
406.7
322.1
259.0
192.6
79.4
0.0

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