

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: P946833

Luminaire Tested: **GALN-SB2B-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10527 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

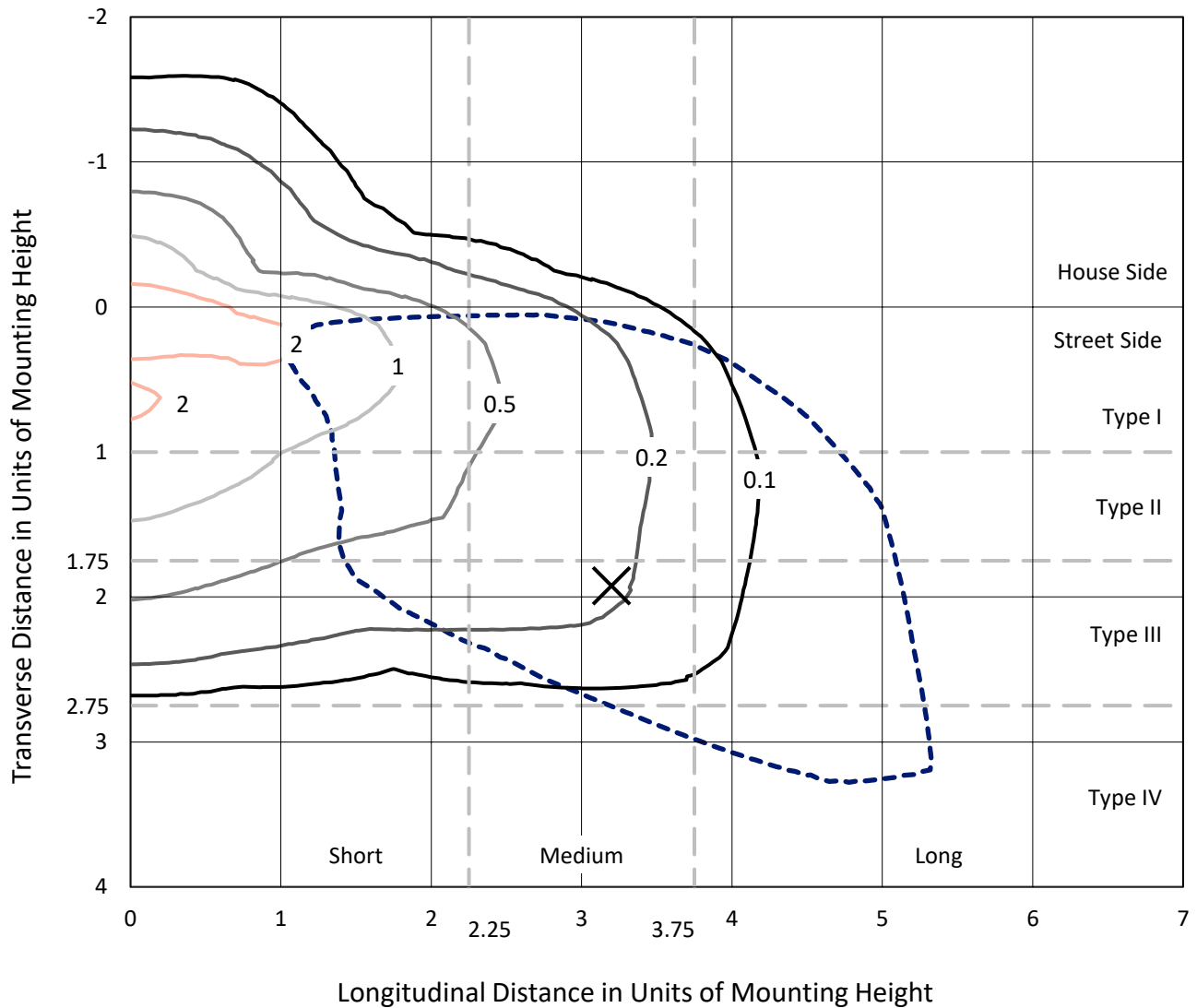
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

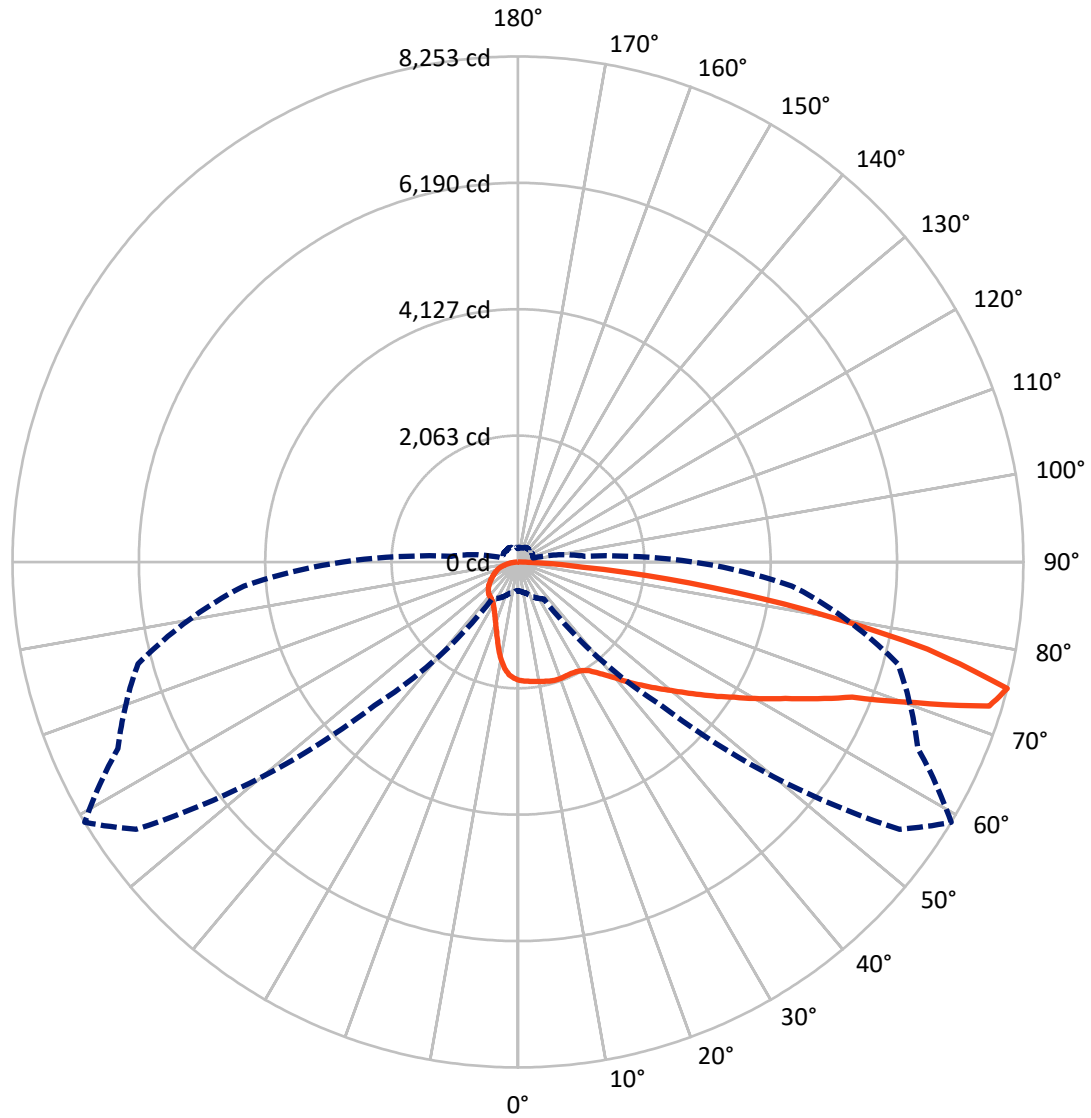
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.4	0.0	1974.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8552.6	0.0	8552.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	10527.0	0.0	10527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.6
10°-20°	442.8	4.2
20°-30°	672.7	6.4
30°-40°	999.9	9.5
40°-50°	1487.0	14.1
50°-60°	2018.4	19.2
60°-70°	2464.2	23.4
70°-80°	1933.8	18.4
80°-90°	335.0	3.2
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°	10527.0	100.0
0°-180°	10527.0	100.0

Coefficient of Utilization



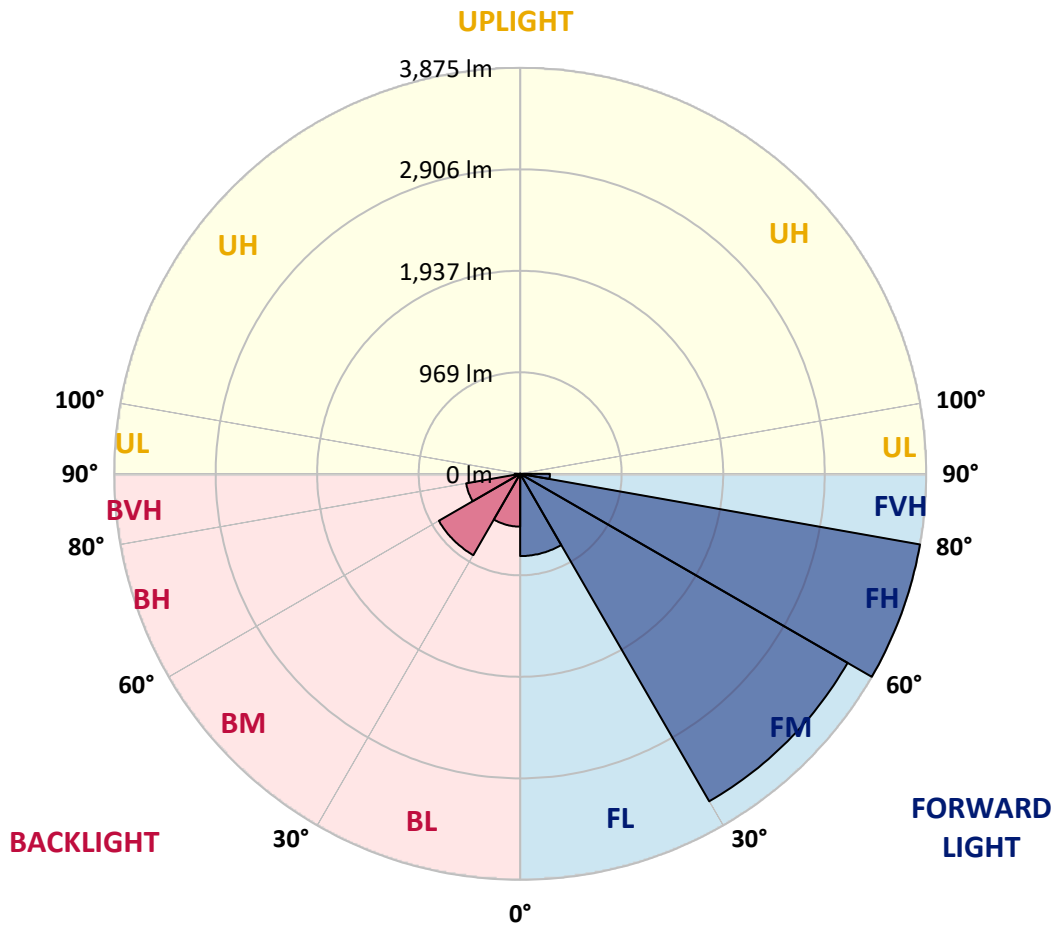
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.9	7.5			
FM (30°-60°)	3609.1	34.3			
FH (60°-80°)	3874.9	36.8			G2/5000
FVH (80°-90°)	283.7	2.7			G3/500
BL (0°-30°)	503.8	4.8	B2/1000		
BM (30°-60°)	896.2	8.5	B1/1000		
BH (60°-80°)	523.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	51.3	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2
2.5°	1948.6	1941.8	1948.6	1945.8	1944.7	1942.4	1943.0	1946.9	1944.7	1947.5
5°	1935.6	1931.6	1938.4	1936.7	1944.1	1945.2	1952.6	1957.1	1960.0	1960.5
7.5°	1914.1	1910.1	1919.7	1927.7	1943.5	1948.1	1963.4	1970.7	1974.7	1981.5
10°	1835.4	1833.7	1857.5	1887.5	1924.8	1948.1	1971.3	1983.7	1990.0	2008.1
12.5°	1696.1	1698.3	1729.5	1787.2	1862.0	1936.7	1980.3	1998.5	2008.1	2030.7
15°	1563.0	1562.4	1596.4	1658.1	1762.9	1886.9	1984.9	2016.0	2032.4	2065.9
17.5°	1486.0	1483.7	1507.5	1554.5	1651.9	1810.5	1973.5	2025.6	2060.8	2102.7
20°	1471.8	1467.3	1479.7	1503.0	1572.0	1726.6	1944.1	2025.6	2083.4	2137.8
22.5°	1523.3	1516.0	1510.9	1508.1	1538.6	1657.6	1910.7	2018.9	2116.8	2188.2
25°	1627.0	1615.6	1589.6	1564.1	1555.1	1626.4	1881.2	2017.2	2166.7	2256.1
27.5°	1794.6	1780.4	1727.8	1666.6	1611.7	1642.3	1868.2	2027.3	2221.6	2328.0
30°	2002.4	1987.1	1920.9	1826.9	1728.3	1701.2	1884.6	2057.4	2291.8	2423.8
32.5°	2188.7	2171.8	2115.1	2019.4	1886.3	1803.1	1936.7	2114.6	2402.2	2556.8
35°	2354.1	2334.3	2283.3	2195.0	2080.0	1946.4	2030.7	2215.9	2559.1	2773.2
37.5°	2516.1	2492.8	2437.3	2343.9	2263.5	2137.2	2160.4	2346.2	2767.5	3035.9
40°	2697.3	2663.9	2596.5	2504.2	2426.0	2360.9	2330.9	2505.9	2979.3	3329.3
42.5°	2872.8	2841.1	2760.7	2682.0	2584.0	2565.3	2528.5	2692.7	3210.9	3651.5
45°	3062.0	3024.0	2926.6	2827.0	2765.2	2701.2	2719.9	2879.6	3438.0	3979.9
47.5°	3239.2	3196.7	3081.8	2970.8	2936.8	2815.6	2895.5	3085.2	3674.1	4312.9
50°	3334.9	3293.0	3197.3	3097.1	3070.5	2956.6	3085.8	3311.1	3921.6	4644.8
52.5°	3414.8	3369.5	3244.3	3188.8	3180.9	3110.1	3320.2	3569.4	4169.1	4938.1
55°	3499.7	3449.3	3289.6	3239.8	3276.0	3282.3	3598.3	3862.1	4430.7	5224.1
57.5°	3597.7	3533.7	3333.2	3282.8	3368.9	3483.9	3917.6	4165.7	4687.8	5489.1
60°	3690.0	3625.4	3417.0	3351.3	3469.1	3717.7	4284.0	4533.2	4978.9	5725.3
62.5°	3708.1	3654.9	3483.9	3483.3	3605.1	3990.7	4717.8	4904.1	5233.2	5958.6
65°	3394.4	3361.0	3259.6	3478.2	3799.9	4383.7	5200.9	5378.7	5556.5	6162.5
67.5°	2583.4	2588.0	2580.6	3002.5	3642.4	4948.3	5900.3	5886.7	5955.8	6391.2
70°	1181.3	1207.9	1381.2	2072.6	2918.1	5013.4	7056.6	6880.5	6456.9	6687.4
72.5°	638.2	658.6	729.4	1004.0	1754.4	4457.3	7920.8	8046.0	7123.5	6886.7
75°	468.3	479.7	528.9	638.2	736.8	3312.8	7611.0	8253.2	7206.7	6421.8
77.5°	350.5	355.6	395.8	505.7	377.2	1746.5	6081.5	6835.2	6169.2	5276.2
80°	254.3	259.9	289.9	379.4	264.5	638.8	4175.9	4797.7	4225.1	3363.2
82.5°	175.6	177.8	190.8	258.2	184.6	248.0	2369.4	2813.4	2358.6	1180.2
85°	105.9	108.7	114.4	150.6	104.8	117.8	1022.7	1057.8	705.0	282.0
87.5°	43.6	46.4	51.0	63.4	41.3	32.8	168.8	211.8	131.9	82.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946833
 CATALOG NUMBER: GALN-SB2B-840-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1932.2	0°	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2	1932.2
1937.9	2.5°	1935.0	1931.1	1920.3	1905.6	1892.0	1875.0	1867.6	1861.4	1855.8	1845.0
1953.2	5°	1946.9	1936.2	1907.3	1869.9	1827.4	1781.0	1735.7	1704.6	1677.9	1658.1
1970.7	7.5°	1965.1	1944.7	1892.0	1815.6	1718.1	1618.5	1528.4	1464.4	1416.3	1398.8
1995.6	10°	1983.7	1959.4	1867.6	1732.9	1564.7	1411.2	1291.7	1226.0	1187.5	1175.1
2025.1	12.5°	2005.8	1970.1	1829.7	1617.9	1393.1	1224.9	1120.7	1082.2	1062.4	1055.6
2061.3	15°	2038.1	1979.2	1772.5	1474.1	1229.4	1089.0	1021.6	995.0	984.8	984.2
2098.7	17.5°	2062.5	1980.9	1683.6	1320.0	1103.7	1006.9	951.4	941.2	948.0	958.2
2135.5	20°	2089.6	1965.6	1566.9	1179.6	1015.4	935.0	911.7	918.5	935.0	949.7
2184.2	22.5°	2108.9	1937.9	1425.9	1070.3	938.9	893.6	892.5	906.6	915.7	923.1
2241.4	25°	2125.9	1890.9	1276.4	978.6	876.1	868.7	881.2	876.6	870.4	876.6
2298.6	27.5°	2138.3	1816.7	1142.8	898.1	831.9	851.7	844.3	834.2	833.6	837.0
2366.0	30°	2134.4	1717.6	1032.9	821.7	800.7	820.0	802.4	800.7	799.0	800.7
2467.4	32.5°	2134.4	1604.9	948.5	769.0	780.9	773.6	771.9	767.9	761.1	760.5
2605.0	35°	2146.3	1492.2	876.1	740.7	764.5	746.9	748.1	738.5	724.3	717.5
2787.3	37.5°	2170.6	1401.6	804.1	727.1	735.6	735.1	730.5	714.1	689.2	667.7
3015.0	40°	2229.5	1375.0	754.9	720.9	722.0	728.8	716.9	685.2	628.6	593.5
3246.0	42.5°	2321.8	1419.7	744.1	705.6	713.0	719.8	696.5	622.9	582.7	561.8
3488.4	45°	2439.0	1497.9	767.3	683.5	691.4	703.3	634.3	599.1	581.0	581.6
3728.5	47.5°	2587.4	1580.0	810.4	664.3	660.3	667.1	592.9	571.4	546.5	552.7
3959.0	50°	2759.0	1663.2	851.1	638.2	625.8	603.7	566.3	545.9	514.2	499.5
4181.5	52.5°	2944.7	1743.6	867.6	606.5	588.4	562.9	548.2	523.3	484.8	460.4
4391.6	55°	3120.9	1816.7	849.4	568.6	551.0	531.2	528.9	513.6	472.3	438.3
4578.5	57.5°	3287.4	1877.8	804.1	530.1	513.1	501.2	516.5	509.1	457.0	413.4
4755.2	60°	3428.4	1919.7	738.5	491.0	479.1	472.9	496.1	493.8	435.5	386.8
4913.8	62.5°	3540.5	1936.2	666.0	453.6	450.8	439.4	467.8	467.8	408.3	360.7
5053.1	65°	3628.3	1920.3	592.3	416.8	422.5	405.5	433.2	429.8	379.4	337.5
5213.3	67.5°	3705.9	1868.2	510.8	380.6	393.6	372.1	397.0	389.0	347.7	314.3
5352.1	70°	3740.4	1747.0	417.9	344.3	360.2	339.2	360.7	346.0	312.0	289.4
5199.7	72.5°	3462.9	1452.0	329.0	306.4	320.0	303.0	321.7	304.7	273.5	263.3
4490.2	75°	2864.9	1089.6	253.1	265.0	275.2	262.2	274.7	262.2	233.9	241.2
3316.8	77.5°	2080.6	735.6	193.7	221.4	226.0	219.2	229.9	215.8	190.3	188.6
1653.0	80°	1034.6	431.0	151.8	175.0	173.3	168.8	181.2	174.4	152.9	162.0
446.2	82.5°	299.6	184.6	110.4	122.9	119.5	120.6	129.7	133.1	199.3	197.6
138.7	85°	94.0	72.5	66.3	68.5	65.1	66.8	76.5	151.8	140.4	82.1
43.0	87.5°	24.4	24.9	16.4	17.6	18.1	21.5	24.4	92.3	44.2	28.9
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>
1932.2
1839.9
1641.7
1368.2
1155.8
1057.3
986.5
962.1
954.8
927.0
880.6
842.7
807.0
767.9
724.3
675.0
598.0
561.8
584.4
568.6
503.4
459.8
438.3
411.1
385.1
359.0
335.2
312.0
284.8
254.8
220.3
180.1
160.3
202.2
88.9
30.6
0.0

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