

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: P946138

Luminaire Tested: **GALN-SB1D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9678 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

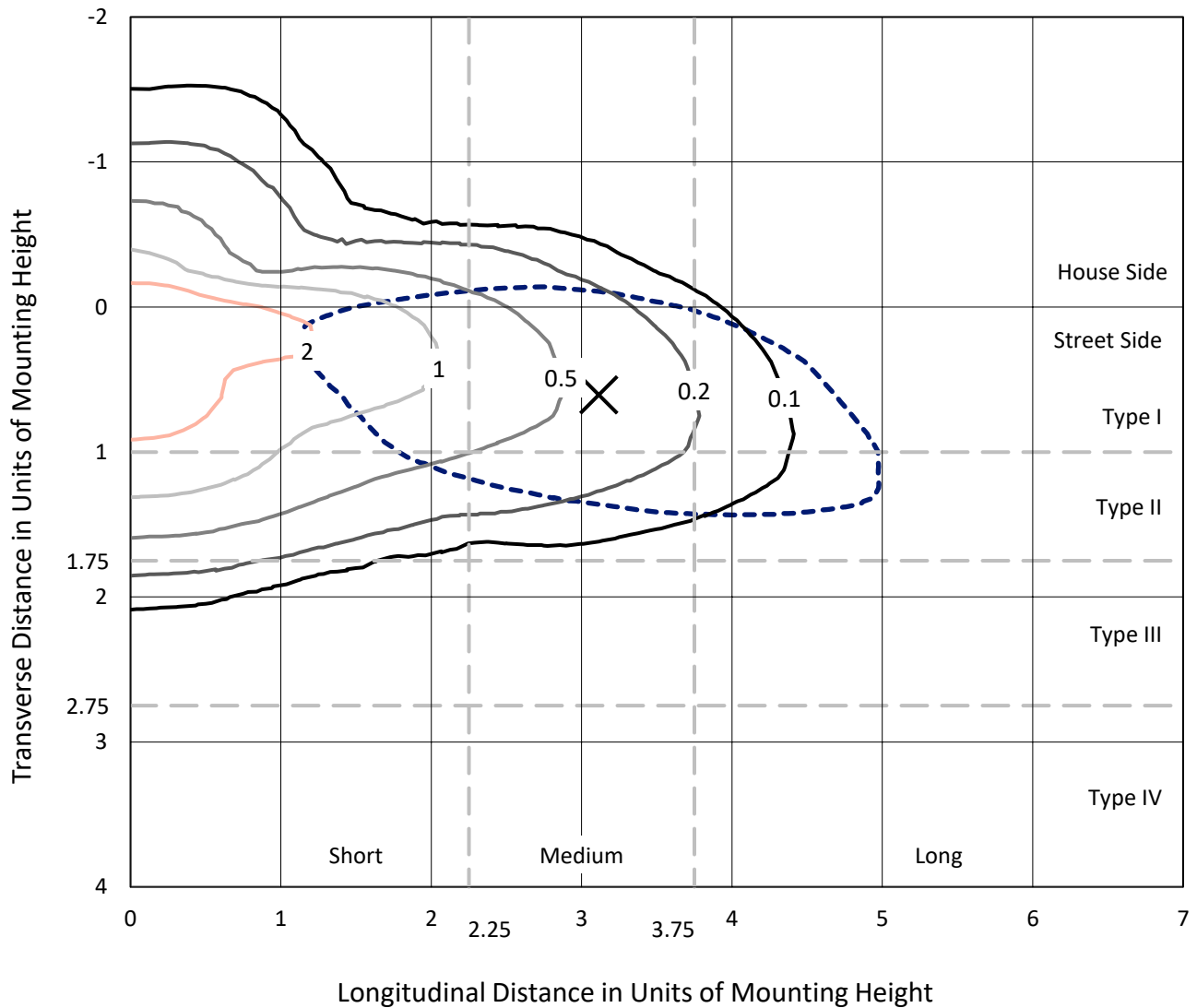
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

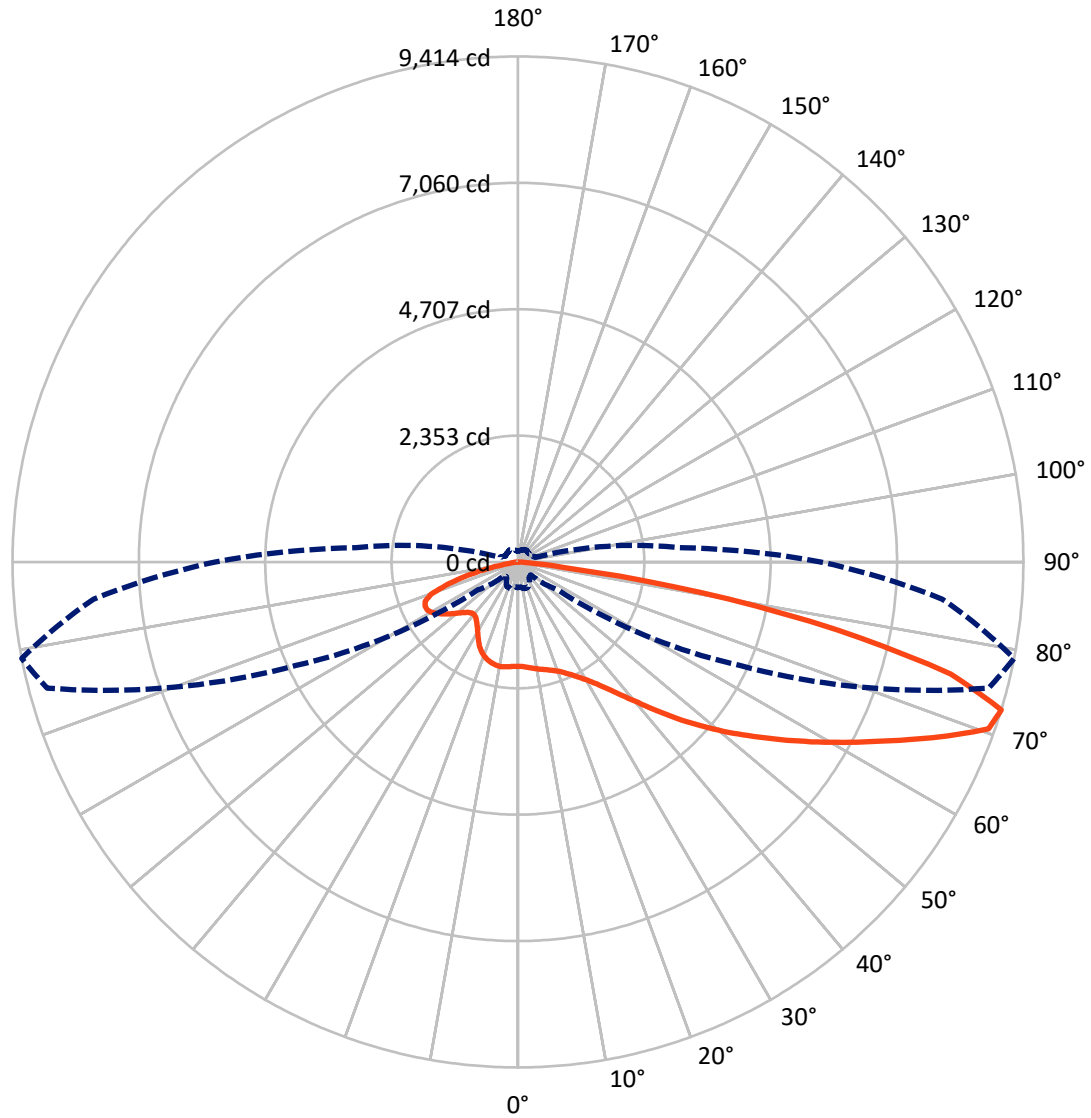
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.7	0.0	2129.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7548.3	0.0	7548.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	9678.0	0.0	9678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.8
10°-20°	461.1	4.8
20°-30°	744.0	7.7
30°-40°	1116.6	11.5
40°-50°	1583.9	16.4
50°-60°	2000.3	20.7
60°-70°	2031.6	21.0
70°-80°	1384.6	14.3
80°-90°	179.6	1.9
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°	9678.0	100.0
0°-180°	9678.0	100.0

Coefficient of Utilization



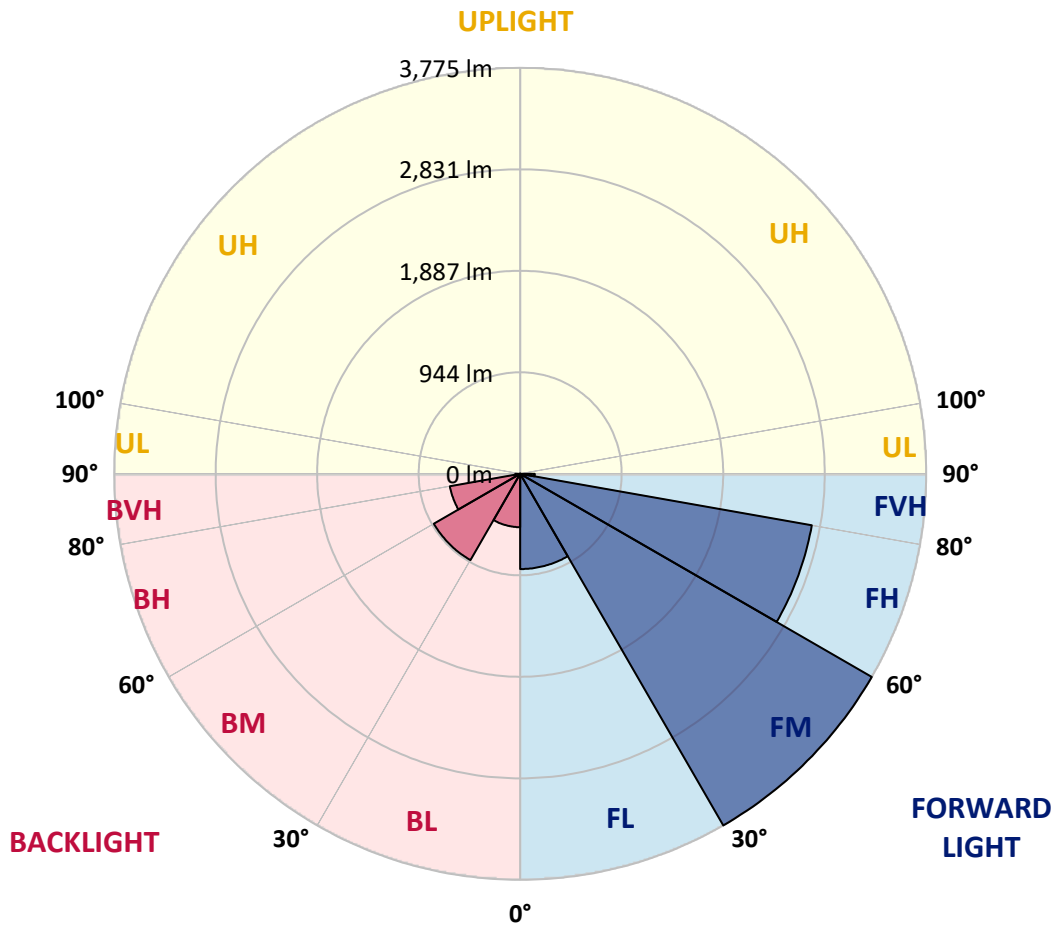
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.3	9.1			
FM (30°-60°)	3774.6	39.0			
FH (60°-80°)	2753.1	28.4			G2/5000
FVH (80°-90°)	135.3	1.4			G2/225
BL (0°-30°)	496.1	5.1	B1/500		
BM (30°-60°)	926.2	9.6	B1/1000		
BH (60°-80°)	663.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	44.3	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8
2.5°	1943.8	1934.6	1940.2	1938.2	1940.7	1943.8	1944.8	1946.3	1951.5	1951.0
5°	1939.7	1930.5	1938.2	1935.6	1942.3	1949.4	1955.6	1961.2	1969.4	1973.0
7.5°	1931.0	1924.8	1932.5	1940.2	1952.5	1963.2	1971.9	1984.7	1996.5	1998.6
10°	1880.3	1875.7	1893.6	1913.6	1947.4	1976.6	1995.5	2010.3	2023.1	2025.2
12.5°	1827.6	1822.0	1841.9	1869.0	1923.8	1976.6	2016.5	2035.9	2047.2	2053.9
15°	1818.9	1814.3	1825.5	1849.1	1894.6	1962.7	2030.8	2066.7	2076.4	2084.1
17.5°	1860.9	1852.2	1856.8	1865.0	1891.6	1949.9	2042.1	2101.5	2116.3	2124.5
20°	1958.1	1945.8	1938.7	1922.3	1917.7	1952.0	2041.1	2143.4	2162.9	2173.1
22.5°	2087.6	2079.5	2064.1	2022.6	1977.6	1977.1	2060.5	2197.2	2233.5	2243.3
25°	2244.3	2232.0	2212.6	2156.2	2069.7	2026.7	2093.3	2265.8	2326.7	2329.3
27.5°	2424.5	2406.1	2379.4	2305.2	2188.5	2104.5	2143.4	2344.6	2433.7	2432.7
30°	2614.4	2596.0	2567.8	2477.7	2330.8	2209.5	2213.1	2429.6	2560.7	2555.0
32.5°	2753.1	2739.3	2733.7	2664.1	2494.6	2333.4	2292.9	2523.8	2717.3	2712.2
35°	2859.6	2841.7	2848.4	2813.0	2673.3	2472.1	2390.7	2635.9	2907.8	2907.2
37.5°	2965.1	2949.2	2954.8	2931.3	2838.6	2648.2	2510.0	2773.1	3143.7	3155.0
40°	3061.3	3044.4	3067.0	3044.9	2967.1	2835.6	2645.6	2928.2	3417.1	3438.6
42.5°	3119.2	3105.9	3143.2	3143.7	3078.7	2993.8	2794.6	3099.2	3733.5	3781.6
45°	3139.1	3134.5	3190.8	3202.6	3177.5	3085.4	2928.7	3285.6	4074.4	4160.4
47.5°	3117.6	3108.9	3186.8	3230.3	3250.2	3128.4	3039.8	3487.3	4422.5	4548.5
50°	3009.1	2992.2	3107.9	3199.5	3270.7	3156.5	3151.9	3720.2	4818.3	4956.0
52.5°	2814.1	2801.3	2932.8	3092.0	3225.7	3170.4	3277.9	3974.6	5194.0	5372.2
55°	2564.8	2547.9	2692.7	2900.6	3113.5	3165.8	3403.8	4259.2	5637.4	5818.1
57.5°	2169.6	2135.8	2319.0	2564.8	2930.8	3160.1	3534.9	4542.3	6087.8	6304.4
60°	1593.1	1543.0	1767.7	2059.0	2573.5	3105.4	3697.1	4859.7	6628.4	6823.5
62.5°	927.6	898.4	1045.4	1317.2	1939.7	2782.8	3788.3	5228.8	7159.8	7364.6
65°	720.3	712.1	724.9	745.9	1079.7	2083.5	3507.2	5588.7	7835.6	7978.9
67.5°	658.9	652.7	658.3	618.9	547.8	1160.5	2774.6	5679.8	8559.4	8646.5
70°	585.6	578.5	596.9	563.1	431.0	527.8	1792.8	5349.1	9135.4	9298.7
72.5°	477.1	468.9	511.9	496.6	363.0	338.9	900.5	4563.3	9074.9	9413.8
75°	366.5	361.9	413.1	425.9	295.9	266.7	432.1	3392.0	7986.1	8327.5
77.5°	284.6	281.0	307.2	353.7	238.6	206.8	265.7	2151.6	6018.2	6078.1
80°	213.5	203.2	227.3	273.9	185.8	151.0	180.2	1254.7	3804.1	3448.3
82.5°	133.6	128.5	148.5	182.8	131.1	103.9	117.2	693.2	1524.5	897.9
85°	76.3	74.2	80.9	104.4	71.2	59.9	67.1	306.1	278.5	191.5
87.5°	30.7	29.7	36.9	46.6	26.1	22.0	23.5	73.7	61.4	56.8
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°
1942.8	0°	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8	1942.8
1950.4	2.5°	1948.4	1948.4	1941.2	1930.0	1917.2	1909.0	1895.7	1892.1	1878.3	1874.2
1967.9	5°	1971.9	1967.9	1945.8	1914.1	1870.6	1830.7	1786.6	1759.0	1720.1	1706.3
2002.2	7.5°	2001.6	1990.4	1952.5	1882.9	1791.7	1702.2	1609.0	1538.3	1470.8	1446.7
2030.3	10°	2028.8	2012.9	1948.4	1826.6	1668.9	1513.8	1365.3	1261.4	1182.6	1150.3
2061.5	12.5°	2055.9	2026.7	1921.3	1732.9	1494.3	1283.9	1125.7	1044.8	996.2	957.3
2087.1	15°	2081.5	2040.5	1879.3	1607.5	1302.9	1089.4	972.7	908.2	869.3	843.7
2124.5	17.5°	2111.2	2052.3	1816.3	1448.2	1120.6	954.7	859.5	820.6	812.9	809.9
2175.7	20°	2152.7	2063.1	1733.4	1270.1	986.5	847.2	798.1	794.5	794.0	792.5
2237.1	22.5°	2197.2	2075.9	1623.8	1108.3	872.3	780.2	771.5	764.3	759.7	759.2
2311.4	25°	2249.9	2080.0	1486.6	975.7	775.1	748.4	738.2	727.4	724.4	724.4
2395.8	27.5°	2301.1	2066.1	1326.9	860.6	720.3	719.3	705.9	702.4	701.9	703.4
2492.1	30°	2352.3	2040.0	1168.2	754.1	688.5	688.5	683.9	686.5	688.5	693.7
2624.1	32.5°	2421.4	2012.4	1035.6	675.2	660.9	655.8	660.4	665.5	667.6	674.2
2797.7	35°	2522.8	1992.9	930.2	632.2	632.2	625.6	628.1	627.1	622.5	619.4
3007.6	37.5°	2656.9	1991.9	843.1	612.3	608.2	607.1	607.7	601.0	583.1	561.6
3261.5	40°	2818.2	2019.6	776.1	598.4	595.4	601.5	598.4	580.5	531.4	494.0
3573.8	42.5°	3034.7	2098.4	733.1	581.6	590.8	598.4	586.2	524.2	490.9	465.9
3929.6	45°	3289.6	2226.4	711.1	563.6	582.1	591.3	531.9	504.8	478.1	447.9
4317.6	47.5°	3578.4	2387.6	705.9	546.7	562.6	568.2	508.9	496.6	466.4	433.6
4707.7	50°	3892.7	2578.6	719.8	526.8	534.5	515.0	501.2	489.9	458.7	426.4
5107.5	52.5°	4217.8	2789.0	747.4	499.6	506.3	484.8	498.1	488.4	454.1	410.6
5520.6	55°	4537.2	3000.9	774.0	467.9	477.6	457.7	489.4	482.2	433.1	383.9
5961.4	57.5°	4861.8	3211.8	800.1	439.7	450.0	431.6	475.6	465.9	409.5	359.4
6442.6	60°	5199.1	3416.6	812.4	412.6	419.8	407.5	454.6	437.7	382.9	334.3
6915.6	62.5°	5515.0	3587.1	792.5	385.5	390.1	385.0	426.9	404.4	356.3	306.1
7408.6	65°	5831.9	3688.4	731.0	358.9	359.9	357.3	388.0	368.6	325.1	281.6
7840.2	67.5°	6119.1	3745.3	633.3	330.2	327.6	326.6	351.7	329.7	294.9	257.0
8168.3	70°	6180.0	3600.9	483.8	296.4	296.4	293.8	311.8	289.2	261.6	230.9
7933.3	72.5°	5644.5	3029.1	343.5	258.0	262.1	257.0	271.8	252.9	227.8	207.3
6837.3	75°	4551.6	2221.3	249.8	218.6	225.8	217.1	230.9	217.6	196.1	195.6
4711.8	77.5°	3127.4	1373.5	181.2	180.2	185.3	174.1	189.9	182.8	163.3	154.6
2050.8	80°	1334.6	547.8	132.1	139.2	139.2	129.0	147.4	149.5	132.6	128.5
395.7	82.5°	265.7	155.6	92.7	95.7	90.1	87.0	104.4	115.7	159.7	177.6
119.3	85°	79.9	57.3	55.8	52.2	46.1	46.6	61.4	116.2	143.3	81.9
39.4	87.5°	22.0	14.3	14.8	11.8	9.7	12.8	21.0	88.1	48.1	20.5
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>
1942.8
1880.8
1716.5
1449.8
1157.5
970.1
848.3
811.9
797.6
764.8
727.4
707.5
697.2
679.8
626.6
562.1
493.0
464.8
445.9
431.0
422.9
407.5
381.4
358.3
332.8
305.6
278.5
253.9
229.9
201.2
176.1
144.9
128.5
178.2
70.6
17.4
0.0

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