

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: P949374

Luminaire Tested: **GALN-SB4A-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949374
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-SB4A-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10695 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

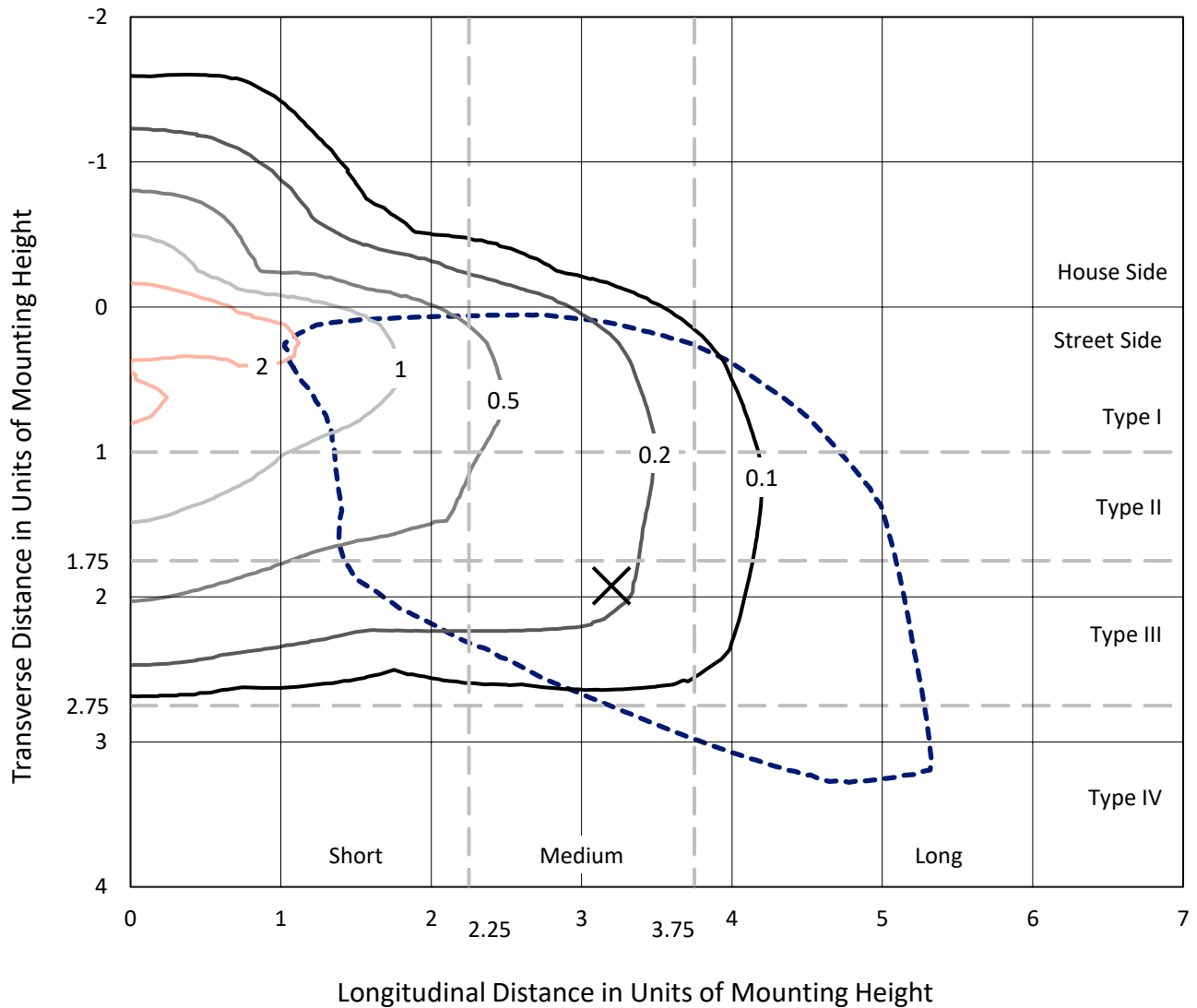
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

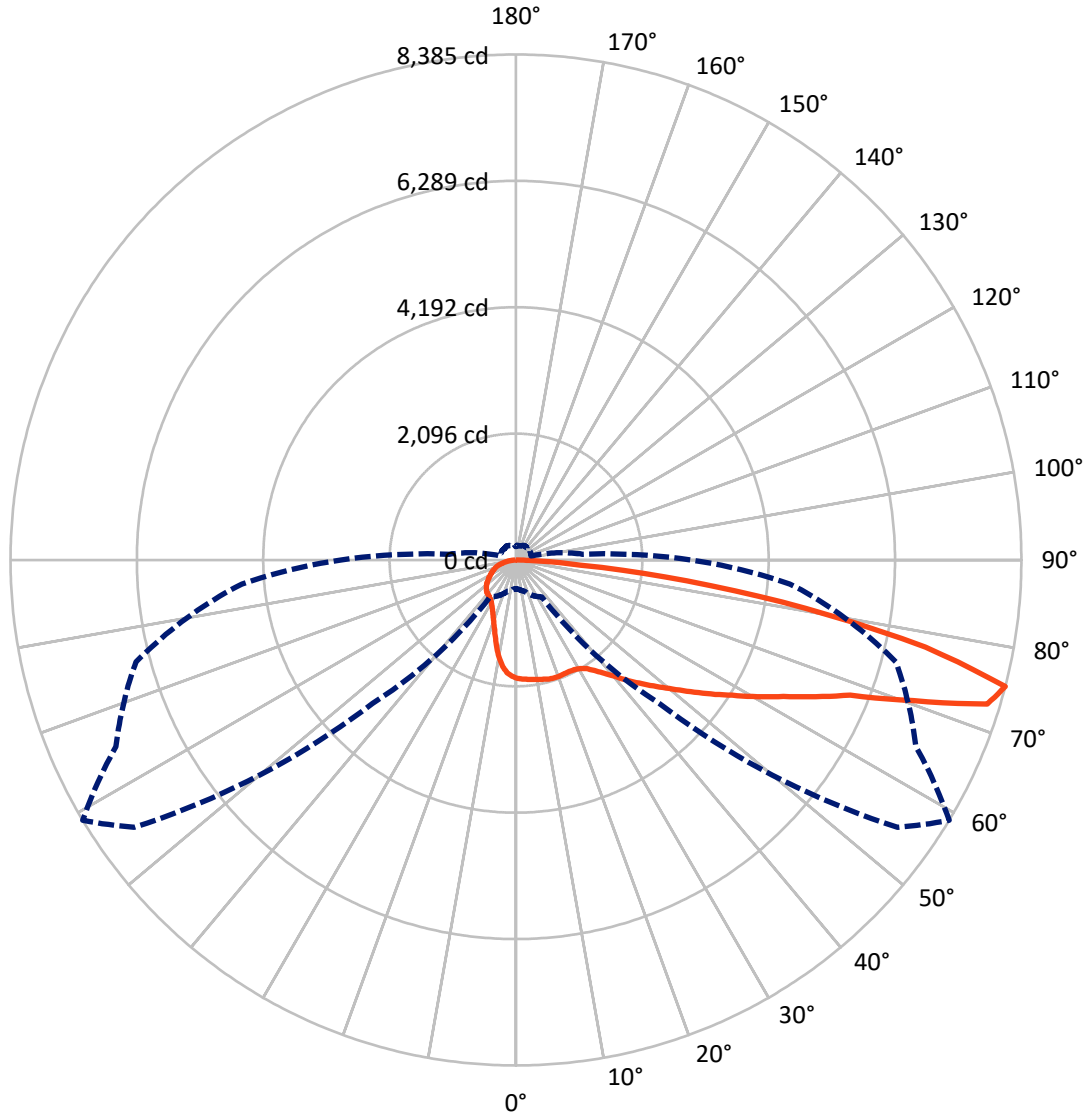
✕ Max cd
 - - - 1/2 Max cd



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	2005.9	0.0	2005.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8689.1	0.0	8689.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	10695.0	0.0	10695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	1.6
10°-20°	449.9	4.2
20°-30°	683.4	6.4
30°-40°	1015.8	9.5
40°-50°	1510.7	14.1
50°-60°	2050.6	19.2
60°-70°	2503.5	23.4
70°-80°	1964.7	18.4
80°-90°	340.3	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°	10695.0	100.0
0°-180°	10695.0	100.0

Coefficient of Utilization



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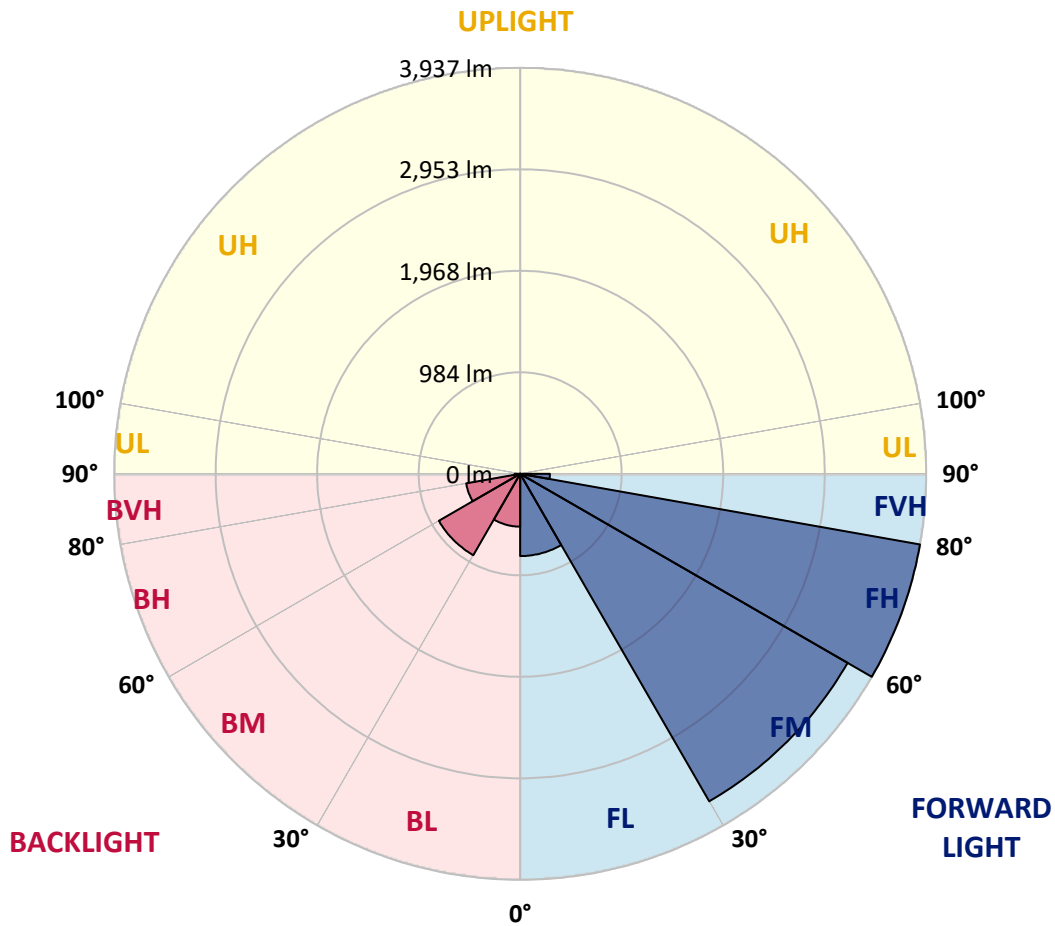
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.4	7.5			
FM (30°-60°)	3666.7	34.3			
FH (60°-80°)	3936.7	36.8			G2/5000
FVH (80°-90°)	288.2	2.7			G3/500
BL (0°-30°)	511.9	4.8	B2/1000		
BM (30°-60°)	910.5	8.5	B1/1000		
BH (60°-80°)	531.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	52.1	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°	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0
2.5°	1979.7	1972.8	1979.7	1976.9	1975.7	1973.4	1974.0	1978.0	1975.7	1978.6
5°	1966.5	1962.5	1969.4	1967.6	1975.1	1976.3	1983.8	1988.4	1991.2	1991.8
7.5°	1944.6	1940.6	1950.4	1958.4	1974.6	1979.2	1994.7	2002.2	2006.2	2013.1
10°	1864.7	1862.9	1887.1	1917.6	1955.6	1979.2	2002.7	2015.4	2021.7	2040.1
12.5°	1723.1	1725.4	1757.1	1815.8	1891.7	1967.6	2011.9	2030.4	2040.1	2063.2
15°	1587.9	1587.3	1621.9	1684.6	1791.0	1917.0	2016.5	2048.2	2064.9	2098.8
17.5°	1509.7	1507.4	1531.5	1579.3	1678.3	1839.3	2005.0	2058.0	2093.6	2136.2
20°	1495.3	1490.7	1503.4	1526.9	1597.1	1754.2	1975.1	2058.0	2116.7	2171.9
22.5°	1547.7	1540.2	1535.0	1532.1	1563.2	1684.0	1941.2	2051.1	2150.6	2223.1
25°	1652.9	1641.4	1615.0	1589.1	1579.9	1652.4	1911.3	2049.3	2201.2	2292.1
27.5°	1823.2	1808.9	1755.3	1693.2	1637.4	1668.5	1898.0	2059.7	2257.0	2365.2
30°	2034.4	2018.9	1951.5	1856.0	1755.9	1728.3	1914.7	2090.2	2328.4	2462.4
32.5°	2223.7	2206.4	2148.9	2051.6	1916.4	1831.9	1967.6	2148.3	2440.6	2597.6
35°	2391.7	2371.5	2319.8	2230.0	2113.2	1977.4	2063.2	2251.3	2599.9	2817.4
37.5°	2556.2	2532.6	2476.2	2381.3	2299.6	2171.3	2194.9	2383.6	2811.7	3084.4
40°	2740.3	2706.4	2637.9	2544.1	2464.7	2398.6	2368.1	2545.9	3026.8	3382.4
42.5°	2918.7	2886.5	2804.8	2724.8	2625.3	2606.3	2568.9	2735.7	3262.2	3709.8
45°	3110.8	3072.3	2973.3	2872.1	2809.4	2744.3	2763.3	2925.6	3492.9	4043.5
47.5°	3290.9	3247.8	3131.0	3018.2	2983.7	2860.6	2941.7	3134.4	3732.8	4381.8
50°	3388.1	3345.6	3248.3	3146.5	3119.5	3003.8	3135.0	3364.0	3984.2	4718.9
52.5°	3469.3	3423.2	3296.1	3239.7	3231.7	3159.7	3373.2	3626.3	4235.6	5016.9
55°	3555.6	3504.4	3342.1	3291.5	3328.3	3334.6	3655.7	3923.8	4501.4	5307.5
57.5°	3655.1	3590.1	3386.4	3335.2	3422.7	3539.5	3980.2	4232.2	4762.6	5576.7
60°	3748.9	3683.3	3471.6	3404.8	3524.5	3777.1	4352.4	4605.6	5058.3	5816.6
62.5°	3767.3	3713.2	3539.5	3538.9	3662.6	4054.4	4793.1	4982.4	5316.7	6053.7
65°	3448.6	3414.6	3311.6	3533.7	3860.5	4453.7	5283.9	5464.5	5645.2	6260.8
67.5°	2624.7	2629.3	2621.8	3050.4	3700.6	5027.3	5994.4	5980.6	6050.8	6493.2
70°	1200.1	1227.2	1403.2	2105.7	2964.7	5093.4	7169.3	6990.3	6560.0	6794.1
72.5°	648.4	669.1	741.0	1020.1	1782.4	4528.5	8047.2	8174.4	7237.1	6996.7
75°	475.8	487.3	537.4	648.4	748.5	3365.7	7732.5	8384.9	7321.7	6524.3
77.5°	356.1	361.3	402.2	513.8	383.2	1774.3	6178.5	6944.3	6267.7	5360.4
80°	258.3	264.1	294.6	385.5	268.7	649.0	4242.5	4874.2	4292.6	3416.9
82.5°	178.4	180.7	193.9	262.4	187.6	252.0	2407.2	2858.3	2396.3	1199.0
85°	107.6	110.5	116.2	153.0	106.4	119.7	1039.1	1074.7	716.3	286.5
87.5°	44.3	47.2	51.8	64.4	42.0	33.4	171.4	215.2	134.1	84.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1963.0	0°	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0	1963.0
1968.8	2.5°	1965.9	1961.9	1951.0	1936.0	1922.2	1904.9	1897.5	1891.1	1885.4	1874.4
1984.3	5°	1978.0	1967.1	1937.7	1899.8	1856.6	1809.4	1763.4	1731.8	1704.7	1684.6
2002.2	7.5°	1996.4	1975.7	1922.2	1844.5	1745.6	1644.3	1552.8	1487.8	1438.9	1421.1
2027.5	10°	2015.4	1990.7	1897.5	1760.5	1589.7	1433.7	1312.3	1245.6	1206.5	1193.8
2057.4	12.5°	2037.8	2001.6	1858.9	1643.7	1415.3	1244.4	1138.6	1099.5	1079.3	1072.4
2094.2	15°	2070.6	2010.8	1800.8	1497.6	1249.1	1106.4	1037.9	1010.9	1000.5	999.9
2132.2	17.5°	2095.4	2012.5	1710.5	1341.1	1121.3	1022.9	966.6	956.2	963.1	973.5
2169.6	20°	2123.0	1997.0	1592.0	1198.4	1031.6	949.9	926.3	933.2	949.9	964.8
2219.1	22.5°	2142.5	1968.8	1448.7	1087.4	953.9	907.9	906.7	921.1	930.3	937.8
2277.2	25°	2159.8	1921.0	1296.8	994.2	890.0	882.6	895.2	890.6	884.3	890.6
2335.3	27.5°	2172.5	1845.7	1161.0	912.5	845.2	865.3	857.8	847.5	846.9	850.3
2403.8	30°	2168.4	1745.0	1049.4	834.8	813.5	833.1	815.2	813.5	811.8	813.5
2506.7	32.5°	2168.4	1630.5	963.7	781.3	793.4	785.9	784.2	780.2	773.3	772.7
2646.5	35°	2180.5	1516.0	890.0	752.5	776.7	758.9	760.0	750.2	735.9	728.9
2831.8	37.5°	2205.3	1424.0	817.0	738.7	747.4	746.8	742.2	725.5	700.2	678.3
3063.1	40°	2265.1	1396.9	766.9	732.4	733.6	740.5	728.4	696.2	638.6	603.0
3297.8	42.5°	2358.9	1442.4	756.0	716.9	724.3	731.3	707.7	632.9	592.0	570.7
3544.1	45°	2478.0	1521.8	779.6	694.4	702.5	714.6	644.4	608.7	590.3	590.9
3788.0	47.5°	2628.7	1605.2	823.3	674.9	670.8	677.7	602.4	580.5	555.2	561.5
4022.2	50°	2803.0	1689.8	864.7	648.4	635.7	613.3	575.3	554.6	522.4	507.4
4248.3	52.5°	2991.7	1771.5	881.4	616.2	597.8	571.9	556.9	531.6	492.5	467.7
4461.7	55°	3170.7	1845.7	863.0	577.6	559.8	539.7	537.4	521.8	479.8	445.3
4651.6	57.5°	3339.8	1907.8	817.0	538.5	521.3	509.2	524.7	517.2	464.3	420.0
4831.1	60°	3483.1	1950.4	750.2	498.8	486.7	480.4	504.0	501.7	442.4	393.0
4992.2	62.5°	3597.0	1967.1	676.6	460.8	458.0	446.5	475.2	475.2	414.8	366.5
5133.7	65°	3686.2	1951.0	601.8	423.4	429.2	411.9	440.1	436.7	385.5	342.9
5296.5	67.5°	3765.0	1898.0	519.0	386.6	399.9	378.0	403.3	395.3	353.3	319.3
5437.5	70°	3800.1	1774.9	424.6	349.8	365.9	344.6	366.5	351.5	317.0	294.0
5282.7	72.5°	3518.2	1475.2	334.3	311.3	325.1	307.8	326.8	309.5	277.9	267.5
4561.8	75°	2910.6	1106.9	257.2	269.3	279.6	266.4	279.0	266.4	237.6	245.1
3369.7	77.5°	2113.8	747.4	196.8	225.0	229.6	222.7	233.6	219.2	193.3	191.6
1679.4	80°	1051.1	437.8	154.2	177.8	176.1	171.4	184.1	177.2	155.3	164.5
453.4	82.5°	304.4	187.6	112.2	124.8	121.4	122.5	131.8	135.2	202.5	200.8
141.0	85°	95.5	73.6	67.3	69.6	66.2	67.9	77.7	154.2	142.7	83.4
43.7	87.5°	24.7	25.3	16.7	17.8	18.4	21.9	24.7	93.8	44.9	29.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
1963.0
1869.3
1667.9
1390.0
1174.3
1074.2
1002.2
977.5
970.0
941.8
894.6
856.1
819.9
780.2
735.9
685.8
607.6
570.7
593.7
577.6
511.5
467.2
445.3
417.7
391.2
364.8
340.6
317.0
289.4
258.9
223.8
183.0
162.8
205.4
90.3
31.1
0.0

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