

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: P947809

Luminaire Tested: **GALN-SB3A-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14618 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

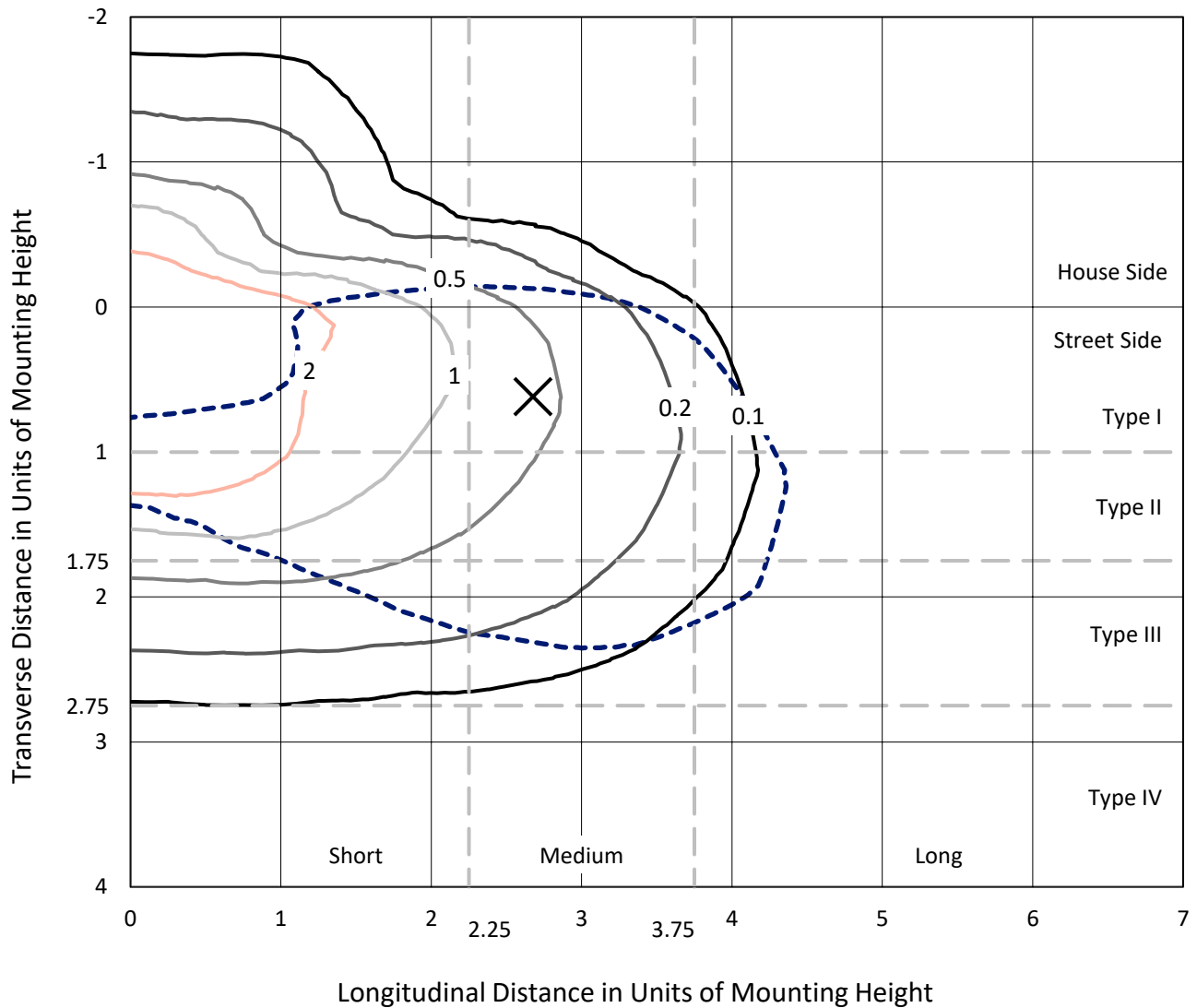
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

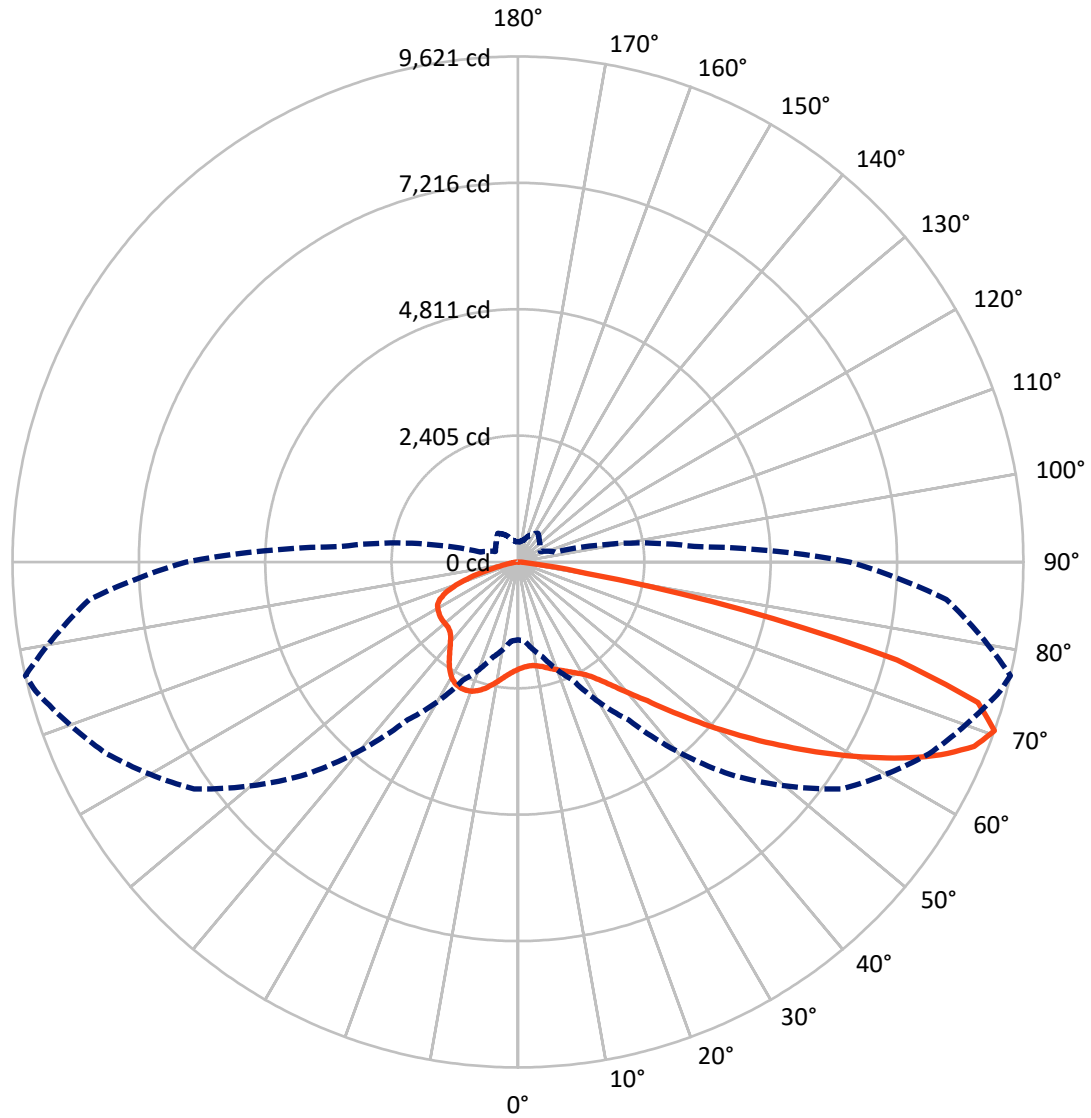
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3201.1	0.0	3201.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11416.9	0.0	11416.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	14618.0	0.0	14618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.3
10°-20°	561.3	3.8
20°-30°	960.0	6.6
30°-40°	1543.7	10.6
40°-50°	2410.2	16.5
50°-60°	3219.4	22.0
60°-70°	3431.4	23.5
70°-80°	2112.4	14.5
80°-90°	185.1	1.3
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°	14618.0	100.0
0°-180°	14618.0	100.0



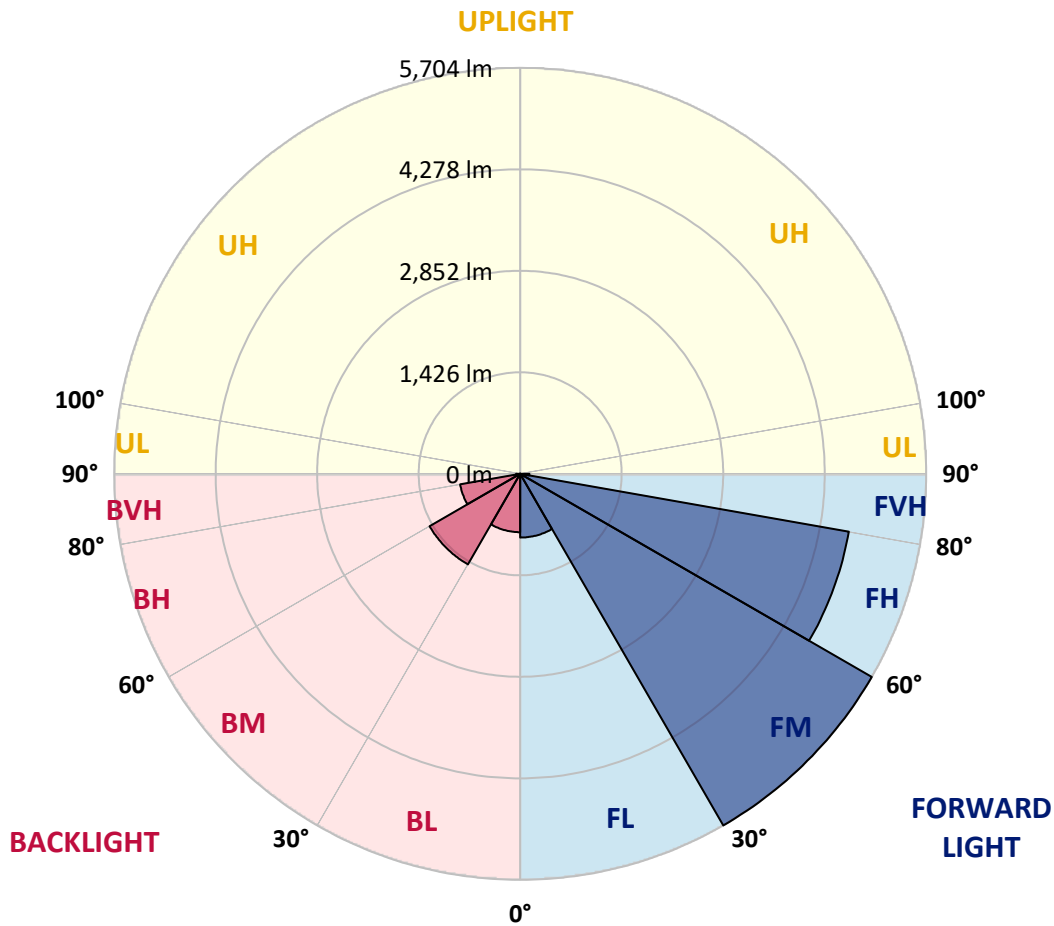
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.6	6.1			
FM (30°-60°)	5703.6	39.0			
FH (60°-80°)	4688.2	32.1			G2/5000
FVH (80°-90°)	129.4	0.9			G2/225
BL (0°-30°)	820.2	5.6	B2/1000		
BM (30°-60°)	1469.7	10.1	B2/2500		
BH (60°-80°)	855.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	55.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3
2.5°	1879.9	1879.1	1888.9	1891.9	1909.8	1922.6	1946.5	1972.0	2004.9	2008.6
5°	1771.3	1771.3	1782.6	1794.5	1817.7	1843.2	1879.9	1924.1	1980.9	1989.9
7.5°	1679.2	1685.2	1695.0	1718.2	1745.1	1781.8	1838.0	1900.8	1975.7	1989.9
10°	1605.1	1611.9	1623.8	1642.6	1683.0	1733.9	1807.3	1888.1	1988.4	2010.9
12.5°	1581.9	1588.7	1595.4	1609.6	1647.0	1706.9	1794.5	1894.1	2019.1	2041.6
15°	1635.8	1644.1	1638.8	1635.1	1654.5	1709.2	1800.5	1915.8	2057.3	2089.5
17.5°	1760.1	1763.1	1751.1	1715.9	1712.9	1742.1	1829.0	1945.8	2105.2	2140.4
20°	1960.7	1955.5	1930.8	1861.2	1821.5	1815.5	1877.6	1990.7	2154.6	2192.1
22.5°	2233.2	2227.3	2177.8	2067.8	1979.5	1921.1	1948.0	2049.1	2210.0	2252.0
25°	2573.1	2564.9	2492.3	2342.6	2205.5	2061.1	2043.8	2126.2	2278.2	2317.1
27.5°	2969.9	2963.2	2884.6	2686.9	2489.3	2252.7	2162.9	2216.8	2349.3	2393.5
30°	3396.7	3416.1	3276.9	3064.3	2814.2	2502.8	2323.1	2328.3	2441.4	2481.1
32.5°	3898.3	3932.0	3764.3	3494.7	3153.3	2774.5	2525.2	2484.0	2575.4	2608.3
35°	4395.4	4433.6	4294.3	3996.3	3603.3	3095.0	2736.3	2663.0	2753.6	2789.5
37.5°	4825.1	4876.0	4804.1	4545.1	4084.7	3481.3	3011.9	2873.3	2972.9	3017.8
40°	5164.2	5242.1	5236.9	5075.2	4652.2	3949.9	3361.5	3133.1	3245.4	3294.1
42.5°	5439.7	5507.1	5565.5	5557.3	5244.3	4482.2	3772.5	3470.8	3556.1	3612.3
45°	5629.9	5701.8	5827.6	5963.1	5814.1	5051.9	4243.4	3871.3	3949.2	4033.8
47.5°	5799.9	5881.5	6044.7	6259.5	6297.7	5623.9	4759.2	4337.7	4408.8	4496.4
50°	5814.8	5885.2	6138.2	6443.0	6641.3	6173.4	5313.2	4861.0	4927.7	5021.2
52.5°	5453.2	5564.0	6005.7	6437.7	6799.3	6633.1	5863.5	5405.3	5480.2	5592.5
55°	4232.9	4395.4	5617.2	6237.1	6743.2	6930.3	6386.8	5984.0	6079.9	6197.4
57.5°	3646.0	3717.1	4459.0	5871.7	6487.1	7007.4	6828.5	6568.7	6722.9	6851.7
60°	3276.9	3336.0	3774.7	5303.5	6150.2	6885.4	7169.9	7113.7	7380.3	7533.7
62.5°	2881.6	2937.7	3336.8	4428.3	5719.0	6682.5	7385.5	7616.8	8054.1	8221.8
65°	2489.3	2537.2	2919.8	3720.8	5171.0	6479.6	7497.1	8051.8	8677.7	8851.4
67.5°	2052.1	2091.8	2453.4	3139.1	4504.7	6201.9	7552.5	8394.0	9220.5	9369.5
70°	1480.8	1511.5	1885.1	2482.5	3668.4	5724.2	7530.0	8636.5	9502.0	9621.0
72.5°	700.0	727.7	1166.4	1611.9	2591.1	4794.4	7075.6	8444.1	9216.0	9156.8
75°	373.6	397.5	670.0	884.2	1368.5	3286.6	5790.1	7274.0	7738.9	7451.4
77.5°	253.0	271.8	414.8	530.8	625.1	1560.2	3721.6	5036.2	4845.3	4370.7
80°	200.6	220.1	339.9	359.4	302.5	563.7	1537.7	2331.3	1674.7	1339.3
82.5°	154.2	175.9	286.0	260.5	164.7	231.3	447.7	737.4	429.0	326.4
85°	94.3	117.5	224.6	166.2	92.8	105.6	152.0	205.1	131.0	109.3
87.5°	47.9	67.4	113.8	60.6	41.9	24.7	40.4	40.4	34.4	29.9
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°
2039.3	0°	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3	2039.3
2028.9	2.5°	2046.8	2061.8	2087.3	2111.2	2129.9	2147.9	2165.9	2175.6	2178.6	2190.6
2040.1	5°	2070.8	2098.5	2147.9	2194.3	2223.5	2241.5	2254.2	2261.7	2263.2	2266.9
2070.8	7.5°	2115.0	2159.1	2228.0	2274.4	2296.1	2294.6	2289.4	2270.7	2263.2	2256.5
2115.7	10°	2177.1	2235.5	2320.1	2352.3	2338.8	2302.9	2256.5	2201.8	2176.3	2151.6
2177.1	12.5°	2254.2	2328.3	2411.4	2409.9	2343.3	2251.2	2143.4	2059.6	2006.4	1968.2
2252.7	15°	2347.8	2433.1	2496.8	2445.9	2299.9	2134.4	1976.5	1867.2	1819.2	1777.3
2329.1	17.5°	2444.4	2535.7	2564.9	2434.6	2190.6	1961.5	1782.6	1696.5	1649.3	1626.8
2411.4	20°	2538.7	2629.3	2605.3	2370.3	2024.4	1765.3	1605.9	1558.7	1549.0	1554.2
2491.5	22.5°	2638.3	2719.1	2613.6	2246.0	1812.5	1564.7	1477.1	1478.6	1500.3	1516.0
2575.4	25°	2740.1	2794.7	2591.9	2066.3	1584.9	1417.2	1395.5	1419.5	1462.1	1492.8
2669.7	27.5°	2838.2	2862.1	2544.7	1843.9	1389.5	1311.6	1315.4	1364.8	1429.2	1471.9
2784.3	30°	2949.0	2922.0	2454.1	1593.9	1254.0	1221.1	1252.5	1310.2	1374.5	1412.7
2928.8	32.5°	3074.0	2973.7	2310.4	1362.6	1158.2	1148.4	1200.1	1237.5	1266.0	1277.2
3120.4	35°	3229.7	3046.3	2126.2	1200.1	1072.1	1095.3	1144.7	1126.0	1114.8	1108.8
3377.9	37.5°	3431.8	3144.4	1910.6	1094.5	1002.5	1057.1	1077.3	1018.9	974.8	953.0
3690.1	40°	3675.2	3288.1	1703.2	1012.9	958.3	1024.2	989.0	918.6	862.5	831.8
4041.3	42.5°	3945.4	3438.6	1528.8	951.5	933.6	997.2	923.8	840.0	749.4	739.7
4459.8	45°	4229.2	3593.6	1409.7	904.4	921.6	974.0	886.4	750.9	686.5	726.2
4879.8	47.5°	4512.9	3735.8	1337.9	869.2	915.6	947.8	853.5	701.5	655.8	713.5
5329.7	50°	4828.8	3863.1	1305.7	843.7	908.9	937.3	804.1	688.8	623.6	661.8
5795.4	52.5°	5142.5	3961.9	1281.7	818.3	899.1	929.1	780.1	673.8	584.7	586.9
6264.0	55°	5455.5	4026.3	1255.5	784.6	877.4	911.1	777.9	657.3	555.5	545.0
6759.6	57.5°	5789.4	4063.0	1223.3	747.2	840.0	865.4	775.6	644.6	546.5	529.3
7266.5	60°	6129.3	4116.9	1181.4	701.5	789.8	810.8	770.4	640.1	541.3	512.1
7744.1	62.5°	6434.0	4135.6	1131.2	658.1	725.4	756.9	759.1	636.4	527.1	476.9
8140.9	65°	6633.9	4054.7	1043.6	608.7	655.8	701.5	737.4	623.6	501.6	451.4
8337.1	67.5°	6625.6	3824.1	906.6	545.0	588.4	640.1	706.0	601.9	470.9	420.0
8188.8	70°	6317.2	3369.0	732.9	470.9	514.3	574.2	665.6	569.7	434.2	385.6
7281.4	72.5°	5418.0	2636.8	532.3	384.1	428.2	506.1	613.2	530.8	396.8	354.9
5381.4	75°	3870.6	1668.8	360.9	295.0	333.2	429.0	548.0	485.1	362.4	356.4
2695.2	77.5°	1977.2	797.3	238.8	215.6	232.1	338.4	460.4	433.5	367.6	294.2
766.6	80°	643.1	294.2	150.5	146.7	154.2	225.3	356.4	355.6	278.5	199.9
185.7	82.5°	205.1	126.5	98.1	94.3	90.6	141.5	248.6	281.5	187.9	126.5
66.6	85°	81.6	75.6	57.6	53.2	38.2	66.6	130.3	187.2	140.0	91.3
17.2	87.5°	29.9	29.9	15.7	11.2	8.2	22.5	35.2	56.1	80.1	47.2
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°
2039.3
2197.3
2272.9
2258.0
2144.2
1959.2
1772.8
1633.6
1552.0
1519.8
1501.1
1482.3
1421.7
1283.2
1114.8
958.3
834.0
749.4
747.2
740.4
690.3
602.7
552.5
531.5
514.3
476.9
451.4
422.2
390.1
352.6
336.1
262.0
176.7
125.8
93.6
46.4
0.0

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