

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: P947862

Luminaire Tested: **GALN-SB3A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947862
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-SB3A-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 11819 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

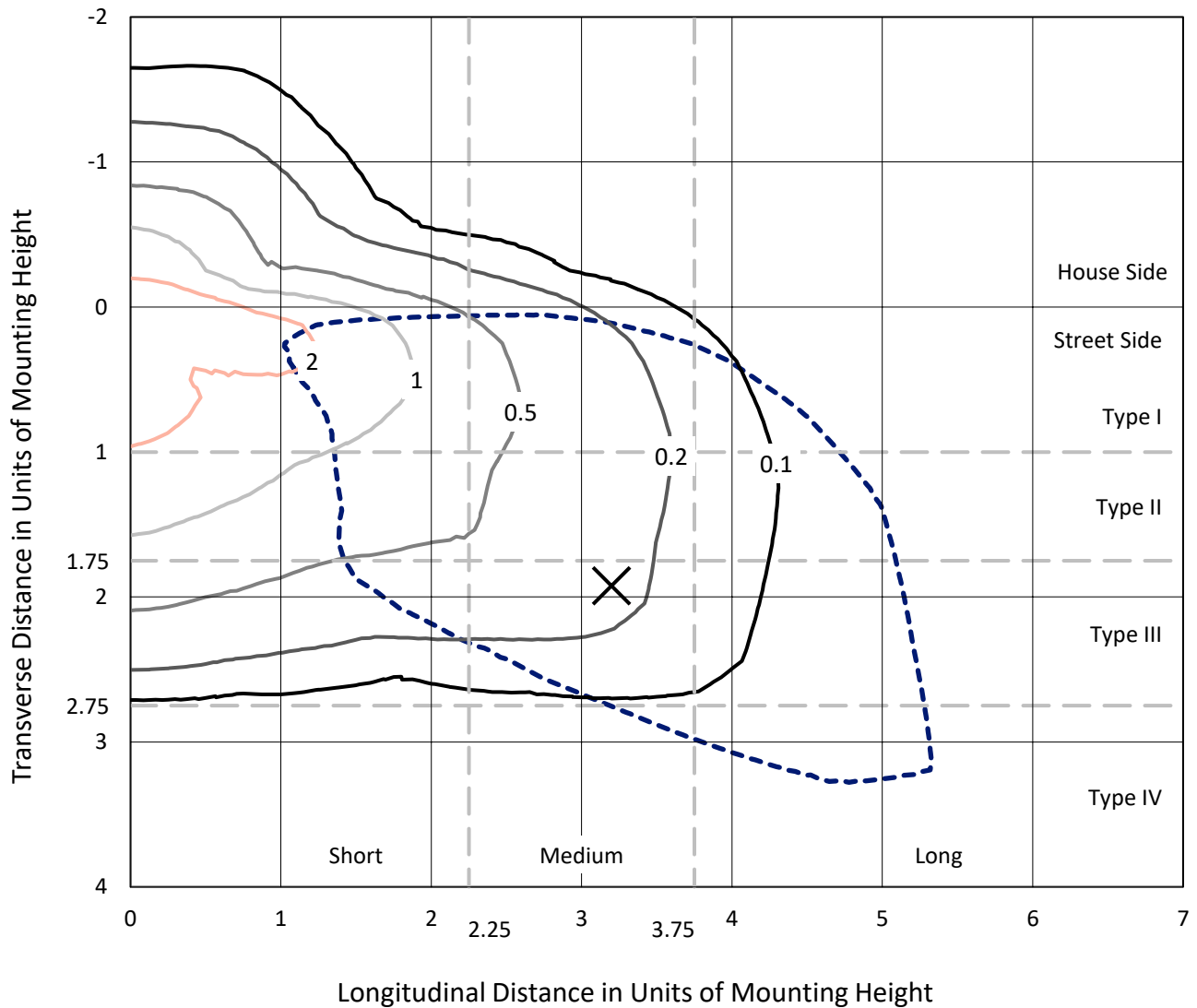
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

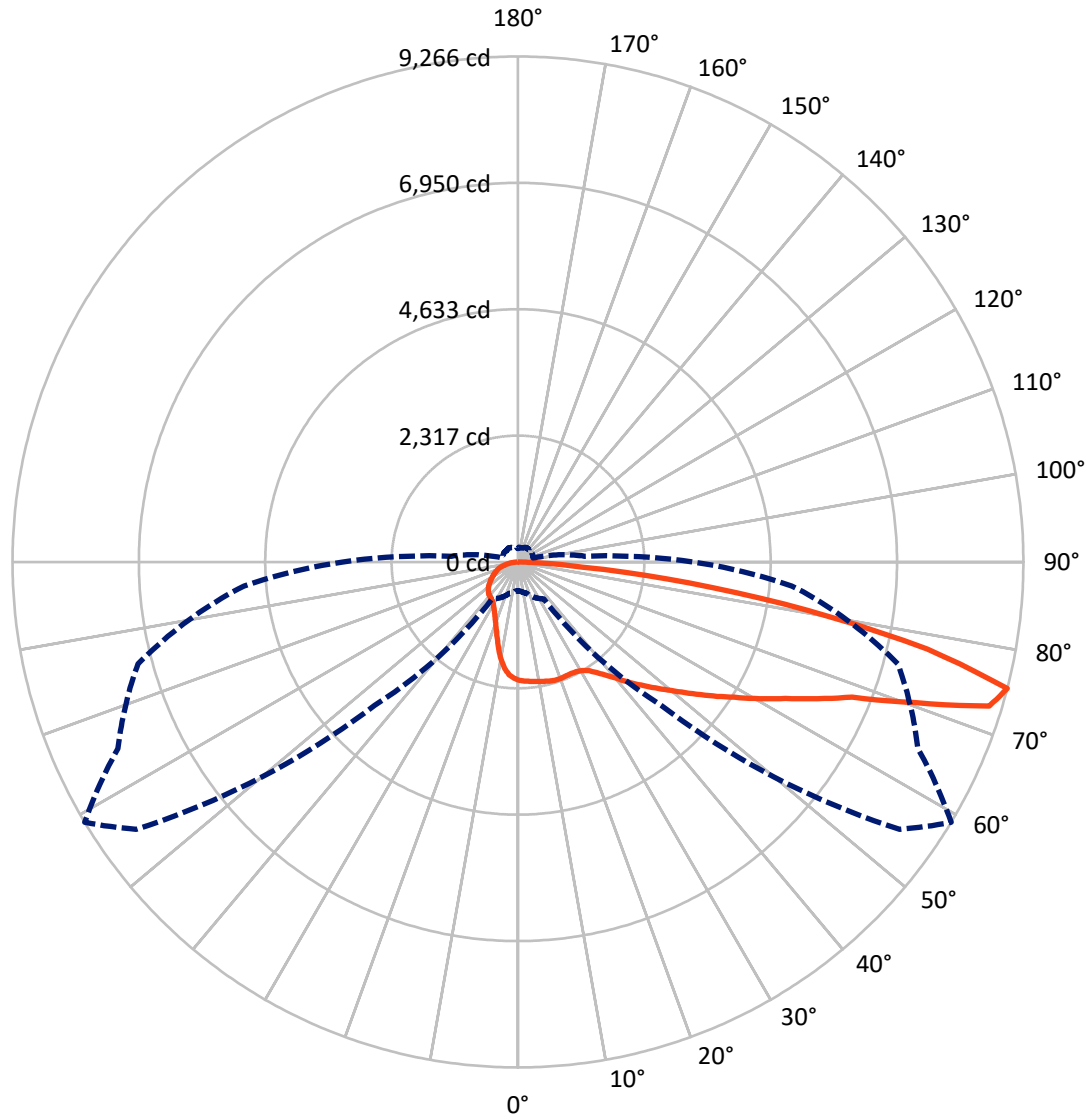
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	2216.7	0.0	2216.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9602.3	0.0	9602.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	11819.0	0.0	11819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.6
10°-20°	497.2	4.2
20°-30°	755.2	6.4
30°-40°	1122.6	9.5
40°-50°	1669.5	14.1
50°-60°	2266.1	19.2
60°-70°	2766.6	23.4
70°-80°	2171.2	18.4
80°-90°	376.1	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°	11819.0	100.0
0°-180°	11819.0	100.0

Coefficient of Utilization



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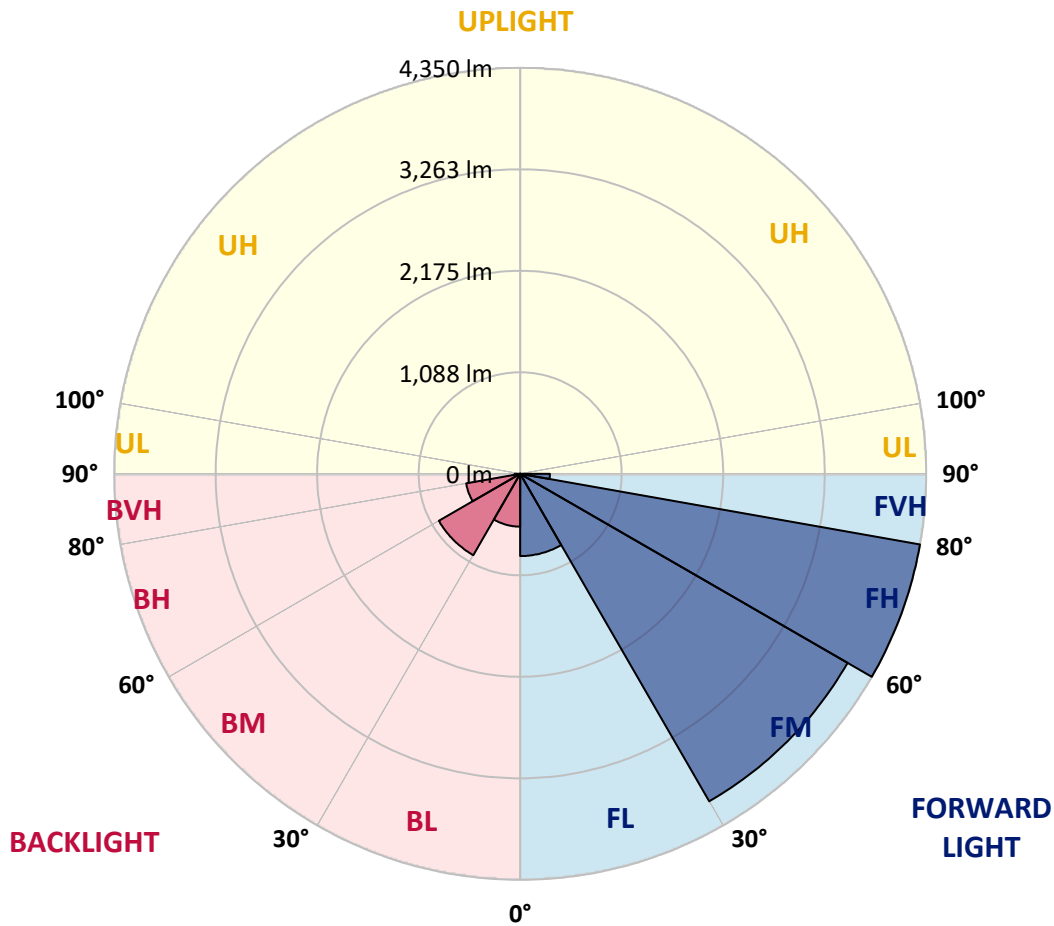
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.2	7.5			
FM (30°-60°)	4052.0	34.3			
FH (60°-80°)	4350.5	36.8			G2/5000
FVH (80°-90°)	318.5	2.7			G3/500
BL (0°-30°)	565.7	4.8	B2/1000		
BM (30°-60°)	1006.2	8.5	B2/2500		
BH (60°-80°)	587.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	57.6	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°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2.5°	2187.8	2180.2	2187.8	2184.6	2183.3	2180.8	2181.4	2185.9	2183.3	2186.5
5°	2173.2	2168.7	2176.3	2174.4	2182.7	2184.0	2192.2	2197.3	2200.5	2201.1
7.5°	2149.0	2144.6	2155.4	2164.3	2182.1	2187.2	2204.3	2212.6	2217.0	2224.7
10°	2060.6	2058.7	2085.4	2119.1	2161.1	2187.2	2213.2	2227.2	2234.2	2254.5
12.5°	1904.2	1906.8	1941.7	2006.6	2090.5	2174.4	2223.4	2243.7	2254.5	2280.0
15°	1754.8	1754.2	1792.3	1861.6	1979.2	2118.5	2228.5	2263.4	2281.9	2319.4
17.5°	1668.3	1665.8	1692.5	1745.3	1854.6	2032.7	2215.8	2274.3	2313.7	2360.7
20°	1652.4	1647.4	1661.3	1687.4	1765.0	1938.6	2182.7	2274.3	2339.1	2400.1
22.5°	1710.3	1702.0	1696.3	1693.1	1727.5	1861.0	2145.2	2266.6	2376.6	2456.7
25°	1826.7	1813.9	1784.7	1756.1	1745.9	1826.0	2112.1	2264.7	2432.6	2533.0
27.5°	2014.9	1999.0	1939.8	1871.2	1809.5	1843.8	2097.5	2276.2	2494.2	2613.8
30°	2248.2	2231.0	2156.6	2051.1	1940.5	1909.9	2115.9	2309.9	2573.1	2721.2
32.5°	2457.4	2438.3	2374.7	2267.3	2117.9	2024.4	2174.4	2374.1	2697.1	2870.6
35°	2643.0	2620.8	2563.5	2464.4	2335.3	2185.2	2280.0	2487.9	2873.2	3113.5
37.5°	2824.9	2798.8	2736.5	2631.6	2541.3	2399.5	2425.6	2634.1	3107.2	3408.5
40°	3028.3	2990.8	2915.1	2811.5	2723.8	2650.7	2617.0	2813.4	3344.9	3737.9
42.5°	3225.4	3189.8	3099.5	3011.2	2901.2	2880.2	2838.8	3023.2	3605.0	4099.6
45°	3437.8	3395.2	3285.8	3173.9	3104.6	3032.8	3053.7	3233.0	3859.9	4468.4
47.5°	3636.8	3589.1	3460.0	3335.4	3297.3	3161.2	3250.8	3463.8	4125.1	4842.3
50°	3744.2	3697.2	3589.7	3477.2	3447.3	3319.5	3464.5	3717.5	4402.9	5214.8
52.5°	3833.9	3783.0	3642.5	3580.2	3571.3	3491.8	3727.7	4007.5	4680.8	5544.2
55°	3929.2	3872.7	3693.4	3637.4	3678.1	3685.1	4039.9	4336.2	4974.5	5865.3
57.5°	4039.2	3967.4	3742.3	3685.7	3782.4	3911.4	4398.5	4676.9	5263.2	6162.8
60°	4142.9	4070.4	3836.4	3762.7	3894.9	4174.0	4809.8	5089.6	5590.0	6427.9
62.5°	4163.2	4103.5	3911.4	3910.8	4047.5	4480.5	5296.9	5506.0	5875.4	6689.9
65°	3811.0	3773.5	3659.7	3905.1	4266.2	4921.7	5839.2	6038.8	6238.5	6918.8
67.5°	2900.5	2905.6	2897.3	3371.0	4089.5	5555.6	6624.4	6609.1	6686.7	7175.6
70°	1326.3	1356.2	1550.7	2327.0	3276.3	5628.7	7922.7	7725.0	7249.4	7508.2
72.5°	716.5	739.4	818.9	1127.3	1969.7	5004.4	8892.9	9033.5	7997.7	7732.0
75°	525.8	538.5	593.8	716.5	827.2	3719.4	8545.2	9266.2	8091.2	7210.0
77.5°	393.6	399.3	444.4	567.8	423.4	1960.8	6827.9	7674.1	6926.4	5923.8
80°	285.5	291.8	325.5	426.0	296.9	717.2	4688.4	5386.5	4743.7	3776.0
82.5°	197.1	199.6	214.3	289.9	207.3	278.5	2660.2	3158.7	2648.1	1325.0
85°	118.9	122.1	128.4	169.1	117.6	132.2	1148.3	1187.7	791.6	316.6
87.5°	49.0	52.1	57.2	71.2	46.4	36.9	189.5	237.8	148.1	92.8
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°
2169.4	0°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2175.7	2.5°	2172.5	2168.1	2156.0	2139.5	2124.2	2105.1	2096.9	2089.9	2083.5	2071.4
2192.9	5°	2185.9	2173.8	2141.4	2099.4	2051.7	1999.6	1948.7	1913.8	1883.9	1861.6
2212.6	7.5°	2206.2	2183.3	2124.2	2038.4	1929.0	1817.1	1716.0	1644.2	1590.1	1570.4
2240.6	10°	2227.2	2199.9	2096.9	1945.5	1756.7	1584.4	1450.3	1376.5	1333.3	1319.3
2273.6	12.5°	2252.0	2211.9	2054.3	1816.5	1564.1	1375.2	1258.2	1215.0	1192.8	1185.1
2314.3	15°	2288.2	2222.1	1990.1	1655.0	1380.3	1222.6	1147.0	1117.1	1105.7	1105.0
2356.3	17.5°	2315.6	2224.0	1890.2	1482.1	1239.2	1130.5	1068.1	1056.7	1064.3	1075.8
2397.6	20°	2346.1	2206.9	1759.3	1324.4	1140.0	1049.7	1023.6	1031.3	1049.7	1066.2
2452.3	22.5°	2367.7	2175.7	1600.9	1201.7	1054.2	1003.3	1002.0	1017.9	1028.1	1036.4
2516.5	25°	2386.8	2122.9	1433.1	1098.7	983.6	975.3	989.3	984.2	977.2	984.2
2580.7	27.5°	2400.8	2039.6	1283.0	1008.4	934.0	956.2	948.0	936.5	935.9	939.7
2656.4	30°	2396.3	1928.4	1159.7	922.5	899.0	920.6	900.9	899.0	897.1	899.0
2770.2	32.5°	2396.3	1801.9	1065.0	863.4	876.8	868.5	866.6	862.1	854.5	853.9
2924.7	35°	2409.7	1675.3	983.6	831.6	858.3	838.6	839.9	829.1	813.2	805.6
3129.4	37.5°	2437.0	1573.6	902.8	816.4	825.9	825.3	820.2	801.7	773.8	749.6
3385.0	40°	2503.1	1543.7	847.5	809.4	810.6	818.3	804.9	769.3	705.7	666.3
3644.4	42.5°	2606.8	1594.0	835.4	792.2	800.5	808.1	782.0	699.4	654.2	630.7
3916.5	45°	2738.4	1681.7	861.5	767.4	776.3	789.7	712.1	672.7	652.3	653.0
4186.1	47.5°	2905.0	1773.9	909.8	745.8	741.3	749.0	665.7	641.5	613.5	620.5
4444.9	50°	3097.6	1867.3	955.6	716.5	702.6	677.8	635.8	612.9	577.3	560.8
4694.8	52.5°	3306.2	1957.6	974.0	680.9	660.6	632.0	615.5	587.5	544.2	516.9
4930.6	55°	3503.9	2039.6	953.7	638.3	618.6	596.4	593.8	576.7	530.3	492.1
5140.4	57.5°	3690.8	2108.3	902.8	595.1	576.0	562.7	579.9	571.6	513.1	464.1
5338.8	60°	3849.1	2155.4	829.1	551.2	537.9	530.9	557.0	554.4	488.9	434.3
5516.8	62.5°	3975.0	2173.8	747.7	509.3	506.1	493.4	525.2	525.2	458.4	405.0
5673.2	65°	4073.6	2156.0	665.0	467.9	474.3	455.2	486.4	482.6	426.0	378.9
5853.2	67.5°	4160.7	2097.5	573.5	427.3	441.9	417.7	445.7	436.8	390.4	352.9
6008.9	70°	4199.5	1961.4	469.2	386.6	404.4	380.8	405.0	388.5	350.3	324.9
5837.9	72.5°	3887.9	1630.2	369.4	344.0	359.2	340.2	361.1	342.1	307.1	295.6
5041.3	75°	3216.5	1223.3	284.2	297.6	309.0	294.4	308.4	294.4	262.6	270.9
3723.9	77.5°	2335.9	825.9	217.4	248.6	253.7	246.1	258.1	242.2	213.6	211.7
1855.9	80°	1161.6	483.8	170.4	196.5	194.6	189.5	203.5	195.8	171.7	181.8
501.0	82.5°	336.3	207.3	124.0	138.0	134.2	135.4	145.6	149.4	223.8	221.9
155.8	85°	105.5	81.4	74.4	76.9	73.1	75.0	85.8	170.4	157.7	92.2
48.3	87.5°	27.3	28.0	18.4	19.7	20.3	24.2	27.3	103.6	49.6	32.4
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

<u>180°</u>
2169.4
2065.7
1843.2
1536.1
1297.7
1187.0
1107.6
1080.2
1072.0
1040.8
988.7
946.1
906.0
862.1
813.2
757.9
671.4
630.7
656.1
638.3
565.2
516.3
492.1
461.6
432.3
403.1
376.4
350.3
319.8
286.1
247.3
202.2
179.9
227.0
99.8
34.3
0.0

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