

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: P939137

Luminaire Tested: **GALN-SB1C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

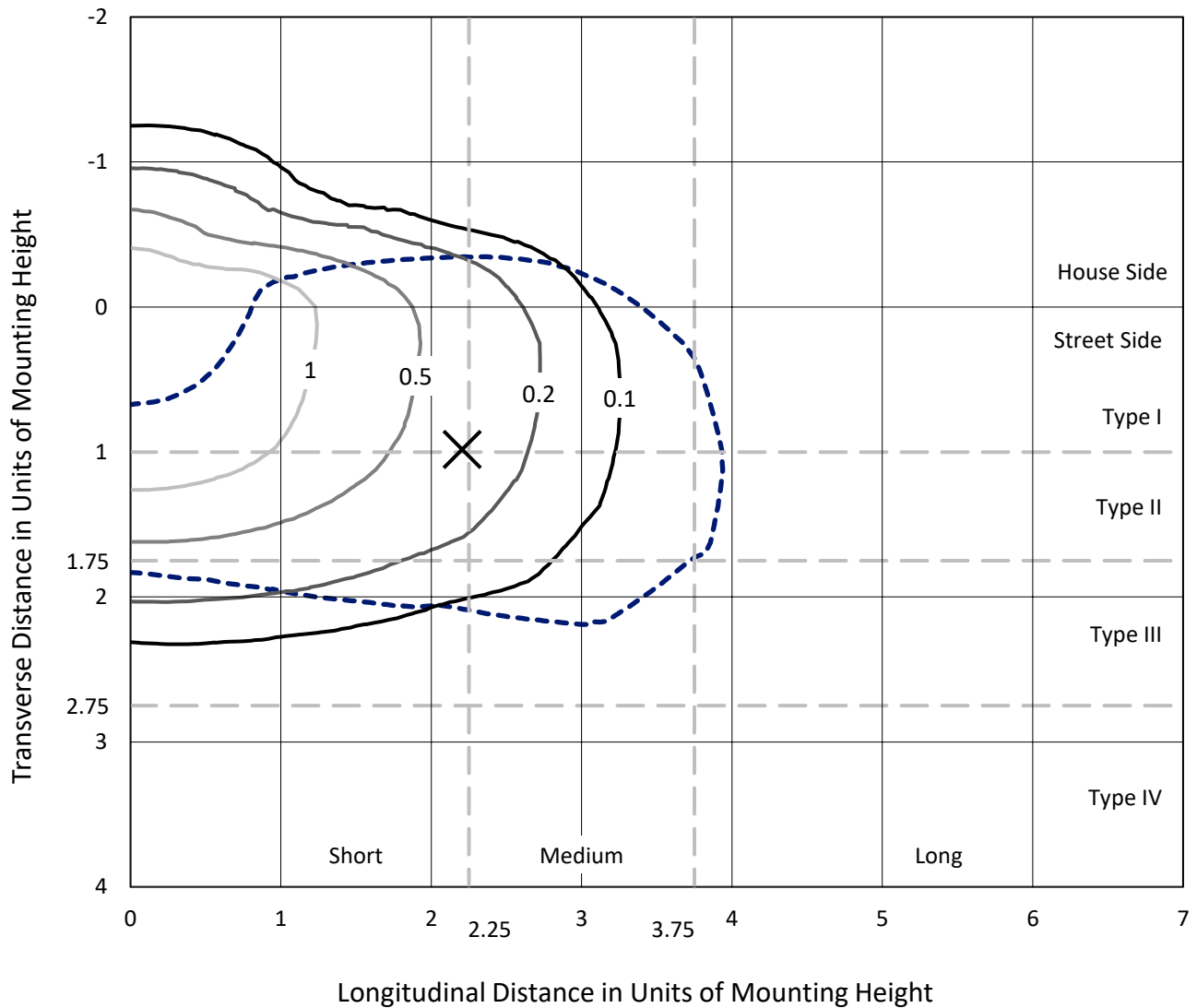
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

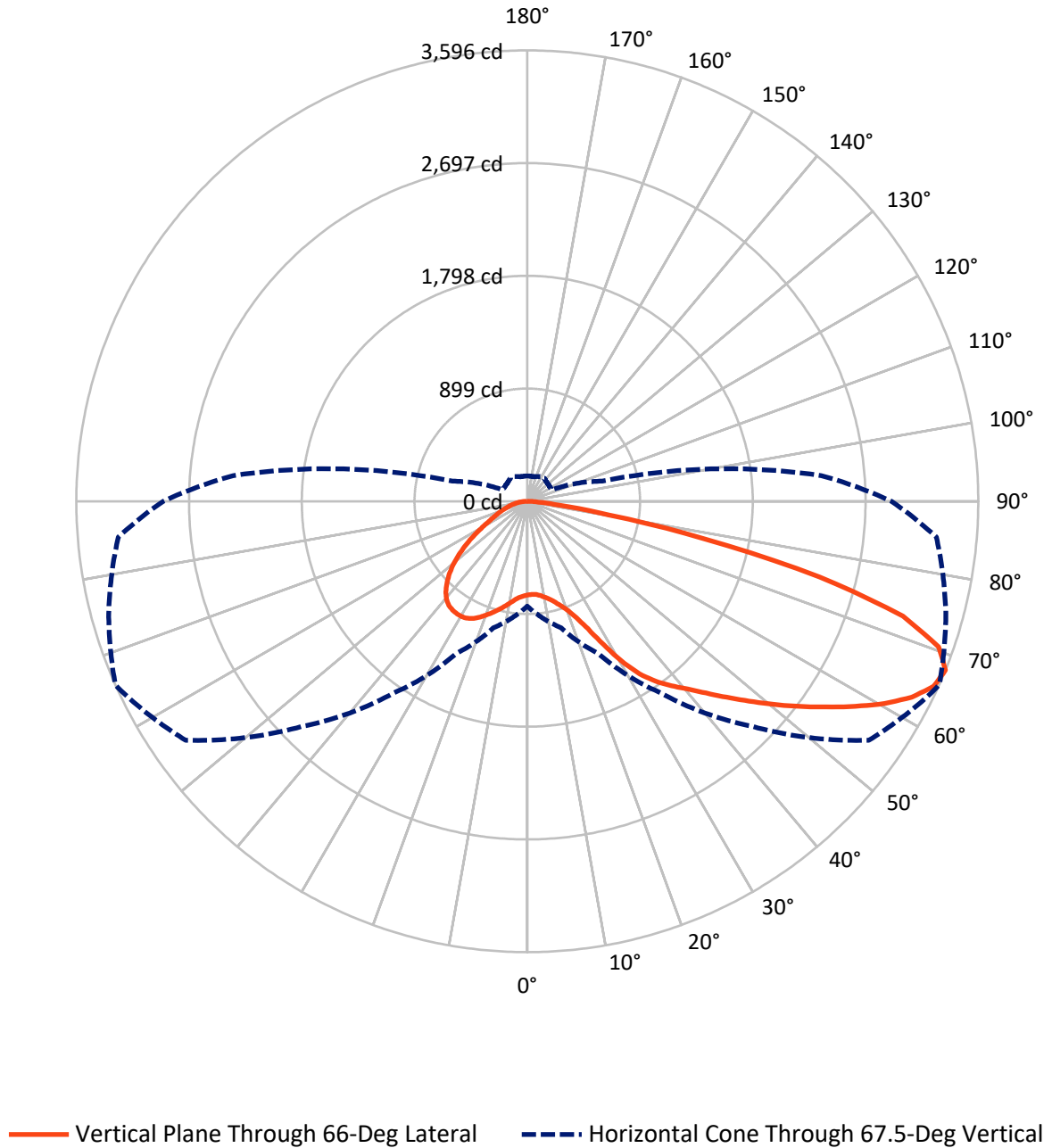
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.9	0.0	1674.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5061.1	0.0	5061.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	6736.0	0.0	6736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.1
10°-20°	244.7	3.6
20°-30°	471.7	7.0
30°-40°	827.1	12.3
40°-50°	1229.6	18.3
50°-60°	1558.6	23.1
60°-70°	1525.0	22.6
70°-80°	727.5	10.8
80°-90°	77.7	1.2
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°	6736.0	100.0
0°-180°	6736.0	100.0

Coefficient of Utilization



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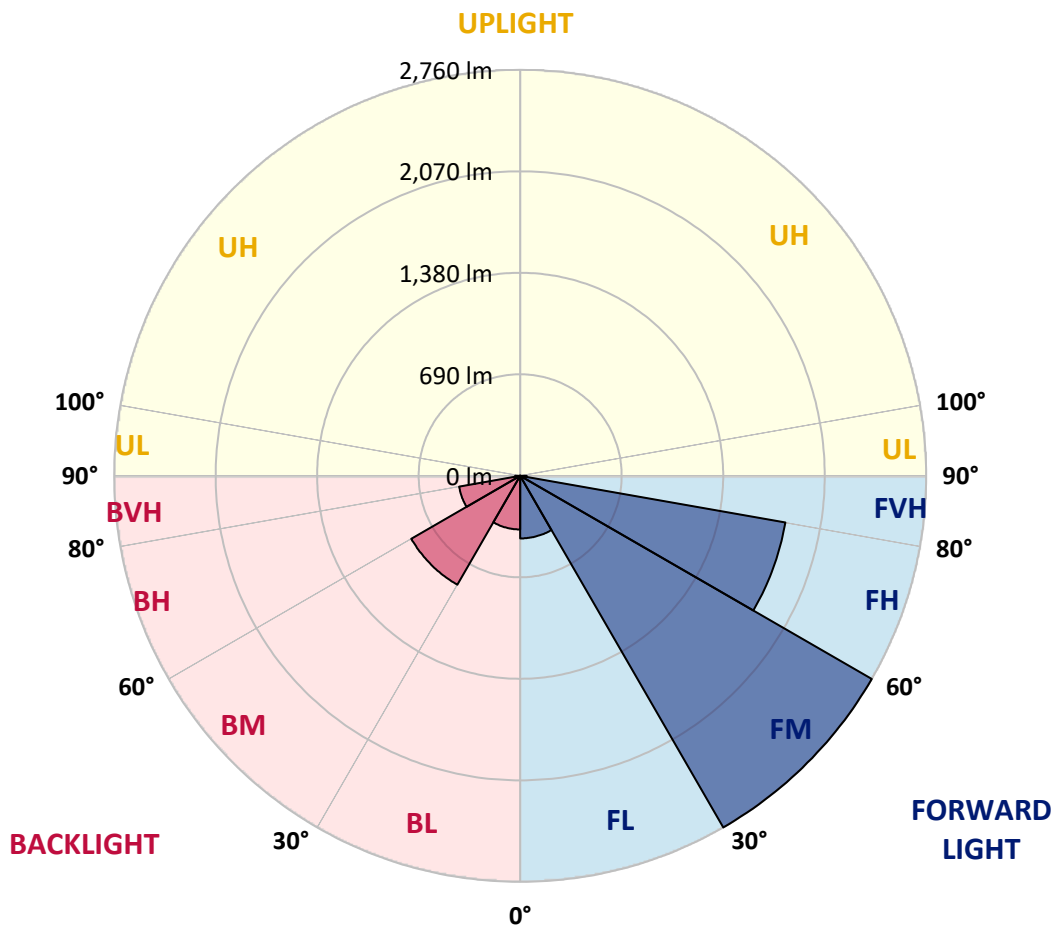
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.6	6.3			
FM (30°-60°)	2760.4	41.0			
FH (60°-80°)	1831.0	27.2			G2/5000
FVH (80°-90°)	44.1	0.7			G1/100
BL (0°-30°)	364.9	5.4	B1/500		
BM (30°-60°)	854.9	12.7	B1/1000		
BH (60°-80°)	421.5	6.3	B1/500		G1/500
BVH (80°-90°)	33.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1
2.5°	739.3	743.6	742.5	740.7	740.4	741.1	742.2	743.2	742.9	744.6
5°	737.2	741.4	741.1	741.1	742.5	745.3	747.1	748.9	747.1	749.2
7.5°	738.6	741.8	743.2	744.6	748.2	753.5	757.7	761.6	759.5	762.0
10°	756.7	759.1	760.6	760.6	763.0	769.1	773.3	780.4	778.6	782.5
12.5°	789.6	792.1	792.1	790.6	792.4	796.3	797.7	805.5	802.3	808.7
15°	829.9	834.9	831.0	828.5	829.2	833.1	832.8	838.8	835.6	840.9
17.5°	874.5	880.9	874.5	874.2	872.8	877.0	877.4	882.7	877.0	880.9
20°	927.3	936.1	930.8	932.6	929.4	931.1	932.9	940.7	931.9	934.7
22.5°	1001.6	1012.2	1006.5	1013.3	1011.1	1009.7	1009.4	1023.2	1009.4	1010.4
25°	1109.9	1122.6	1112.7	1121.9	1121.9	1126.5	1131.8	1149.5	1126.5	1119.8
27.5°	1269.8	1282.6	1263.1	1268.8	1267.0	1278.3	1272.7	1316.6	1291.8	1280.8
30°	1462.4	1485.0	1448.2	1446.8	1445.0	1463.1	1471.2	1500.2	1475.1	1464.1
32.5°	1670.5	1694.2	1650.3	1637.6	1630.8	1641.8	1635.1	1658.4	1641.1	1624.1
35°	1890.6	1914.0	1872.2	1847.4	1820.5	1797.5	1773.5	1779.5	1763.2	1737.4
37.5°	2098.7	2141.5	2097.3	2070.7	2021.2	1976.3	1909.0	1881.1	1865.8	1842.1
40°	2310.7	2335.1	2301.5	2278.8	2225.1	2154.6	2047.0	1987.9	1967.4	1944.4
42.5°	2466.8	2490.1	2472.1	2456.5	2414.4	2332.6	2193.6	2119.6	2089.9	2064.0
45°	2590.6	2608.0	2596.7	2602.3	2584.3	2505.0	2345.4	2260.8	2230.0	2198.5
47.5°	2640.5	2659.0	2677.0	2710.6	2741.4	2683.0	2508.5	2413.7	2381.1	2348.9
50°	2634.9	2653.6	2706.0	2777.5	2873.1	2853.6	2680.5	2576.5	2546.4	2509.6
52.5°	2589.6	2610.8	2678.1	2797.0	2949.2	2981.4	2855.7	2744.6	2716.3	2672.4
55°	2470.7	2483.4	2584.3	2752.7	2967.2	3070.6	3027.4	2923.7	2895.4	2834.1
57.5°	2250.2	2268.6	2415.5	2633.5	2921.9	3131.1	3178.1	3112.0	3084.7	2996.6
60°	1962.5	1991.8	2159.9	2433.2	2806.5	3130.7	3315.1	3297.1	3274.4	3156.6
62.5°	1636.8	1670.8	1832.6	2150.0	2604.8	3041.9	3400.8	3452.1	3440.4	3304.1
65°	1257.1	1280.5	1441.5	1783.7	2290.9	2851.1	3410.7	3557.9	3560.0	3416.3
67.5°	837.0	904.2	1044.0	1338.5	1870.4	2539.3	3323.6	3575.2	3595.8	3454.9
70°	408.4	496.9	633.9	869.9	1338.5	2061.2	3096.0	3433.0	3478.6	3342.4
72.5°	169.5	198.2	272.9	429.3	768.3	1390.9	2638.8	3047.2	3131.8	2961.5
75°	114.3	123.9	156.1	220.1	350.0	685.9	1903.0	2272.1	2408.4	2236.7
77.5°	88.1	94.1	113.6	154.0	208.1	259.4	1018.6	1369.3	1439.7	1332.8
80°	69.4	74.0	84.9	112.2	147.6	138.7	347.2	620.4	661.1	554.6
82.5°	60.2	61.9	60.9	76.1	98.0	81.0	114.0	229.0	252.7	183.3
85°	43.5	48.5	50.6	47.1	52.0	41.1	46.7	81.0	89.2	79.6
87.5°	17.7	26.2	32.2	30.4	19.1	11.7	14.5	23.7	27.3	29.7
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°
747.1	0°	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1	747.1
747.5	2.5°	747.8	750.3	752.1	754.2	755.6	757.7	762.0	764.5	764.8	766.6
753.1	5°	754.5	758.1	762.0	767.6	774.0	779.3	787.5	793.1	795.2	797.0
766.9	7.5°	769.1	774.0	781.1	791.0	800.2	807.3	817.2	823.9	830.6	833.1
788.9	10°	790.6	797.7	808.0	821.4	831.3	840.5	850.8	856.5	863.2	866.0
815.1	12.5°	817.5	825.0	838.4	857.2	866.4	872.8	876.3	874.9	876.3	878.8
846.6	15°	848.3	856.5	871.7	891.9	898.2	892.6	884.8	877.7	876.6	877.4
884.8	17.5°	884.8	890.8	908.5	925.5	920.9	897.5	880.5	869.2	863.5	861.8
933.6	20°	935.7	935.7	950.3	960.9	930.1	890.4	863.9	845.5	833.8	828.9
1000.2	22.5°	997.7	992.0	1001.2	993.8	928.3	870.6	833.8	802.0	784.3	777.2
1093.2	25°	1076.3	1069.5	1067.0	1021.0	915.6	839.1	779.3	740.7	725.2	721.3
1227.4	27.5°	1194.8	1177.8	1145.6	1035.9	892.2	789.6	715.6	679.9	671.0	671.4
1399.7	30°	1352.7	1318.7	1239.8	1038.4	854.0	719.5	650.5	625.0	620.8	622.5
1544.5	32.5°	1498.8	1466.6	1336.0	1027.1	795.2	650.8	592.1	575.1	568.7	570.9
1654.9	35°	1613.5	1604.6	1425.2	1011.1	723.0	586.4	539.7	525.2	512.8	510.0
1759.0	37.5°	1721.8	1718.3	1492.1	988.8	651.6	540.8	497.6	478.5	460.4	450.5
1874.0	40°	1840.7	1837.2	1536.0	954.5	588.2	501.1	459.7	434.6	412.3	394.3
2004.2	42.5°	1974.5	1953.6	1556.9	905.3	534.4	467.5	428.9	395.0	365.6	349.0
2151.4	45°	2120.6	2073.6	1556.5	842.7	489.1	436.7	396.0	347.9	320.6	305.1
2302.6	47.5°	2275.7	2188.2	1537.4	773.3	445.2	402.8	345.1	308.3	290.2	280.7
2466.8	50°	2435.6	2295.5	1504.8	693.7	400.3	364.2	313.2	288.1	274.3	265.4
2629.6	52.5°	2586.0	2392.8	1465.6	603.4	354.6	326.7	299.1	279.6	265.1	255.2
2787.4	55°	2725.8	2476.7	1410.0	511.1	317.5	301.5	292.3	276.1	259.4	247.7
2947.7	57.5°	2850.1	2531.2	1314.1	424.3	290.9	284.2	285.3	270.0	250.9	241.0
3105.6	60°	2953.4	2571.2	1172.2	344.0	269.3	267.2	274.3	258.7	236.4	225.1
3239.0	62.5°	3015.3	2570.5	998.0	281.7	250.9	251.6	259.8	244.6	221.9	211.3
3308.7	65°	3010.0	2507.5	806.9	241.0	233.2	233.9	244.6	229.0	209.9	203.5
3273.7	67.5°	2903.5	2353.9	619.0	214.5	213.8	216.9	229.3	218.4	202.4	201.7
3064.9	70°	2615.1	2035.0	445.9	193.2	193.6	198.2	214.5	211.6	198.5	200.0
2576.8	72.5°	2096.9	1551.6	299.4	170.9	171.3	178.7	200.3	206.3	194.7	213.4
1828.3	75°	1396.5	967.6	192.5	147.2	147.6	157.1	187.9	196.1	184.0	212.7
951.3	77.5°	671.0	435.0	139.4	123.9	123.9	132.7	162.4	175.5	156.8	165.3
305.8	80°	231.8	163.5	109.7	99.8	97.7	103.7	137.0	152.2	135.2	124.6
99.8	82.5°	91.3	84.9	88.1	77.5	70.4	74.3	106.5	125.6	99.4	89.9
56.3	85°	52.4	55.2	62.3	51.3	40.7	45.7	78.2	90.2	75.0	66.2
18.4	87.5°	14.2	19.5	28.7	26.5	18.4	19.5	37.2	49.9	43.2	33.3
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

<u>180°</u>
747.1
766.2
796.7
833.5
867.4
879.5
879.8
864.3
827.8
776.1
722.0
672.4
628.6
573.7
512.1
450.9
396.0
350.0
304.4
278.5
262.2
250.9
243.1
234.6
220.1
208.1
203.1
202.8
199.6
216.2
214.5
151.5
116.8
89.5
67.6
34.3
0.0

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