

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: P939127

Luminaire Tested: **GALN-SB1C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939127
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-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6519 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

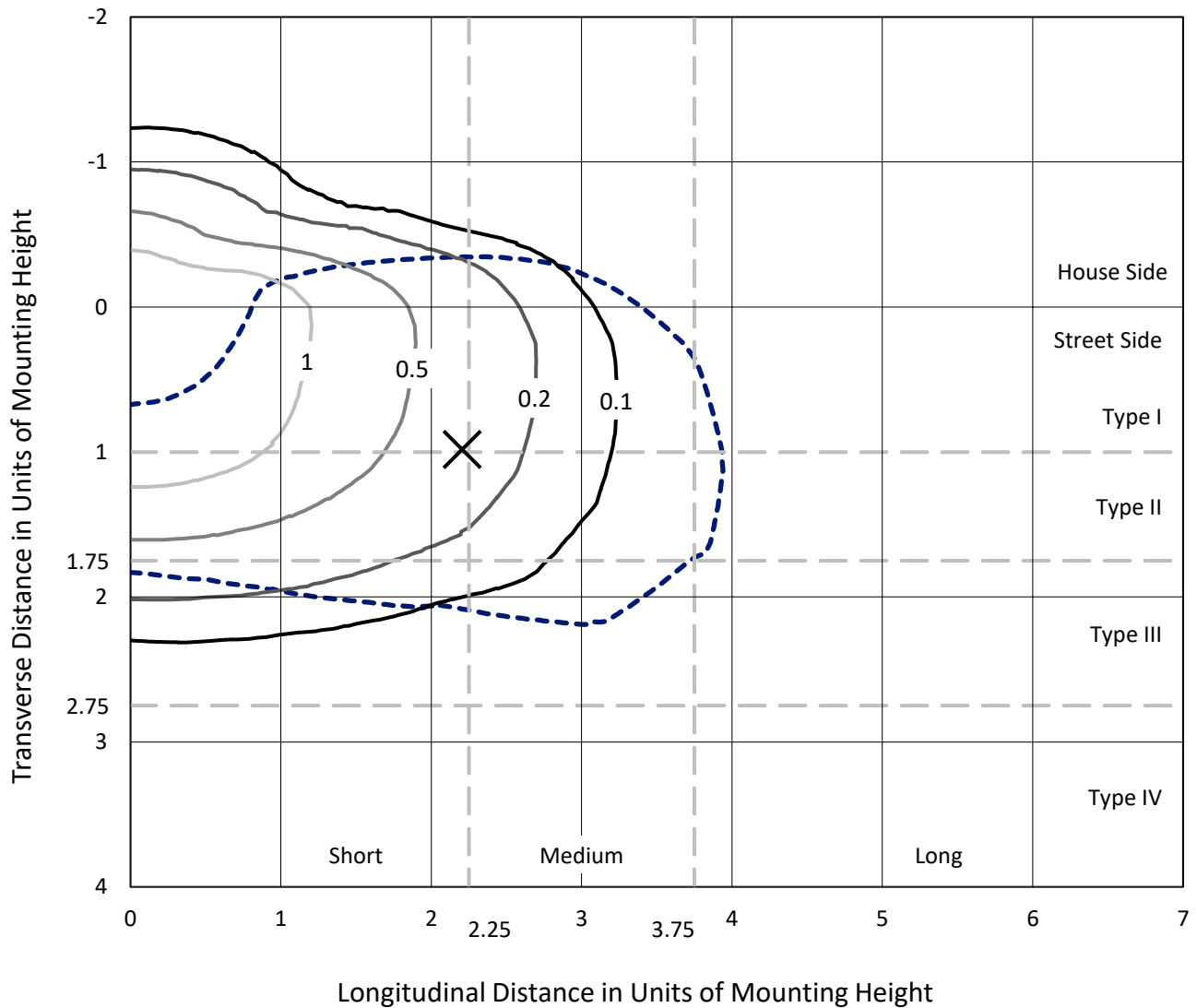
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

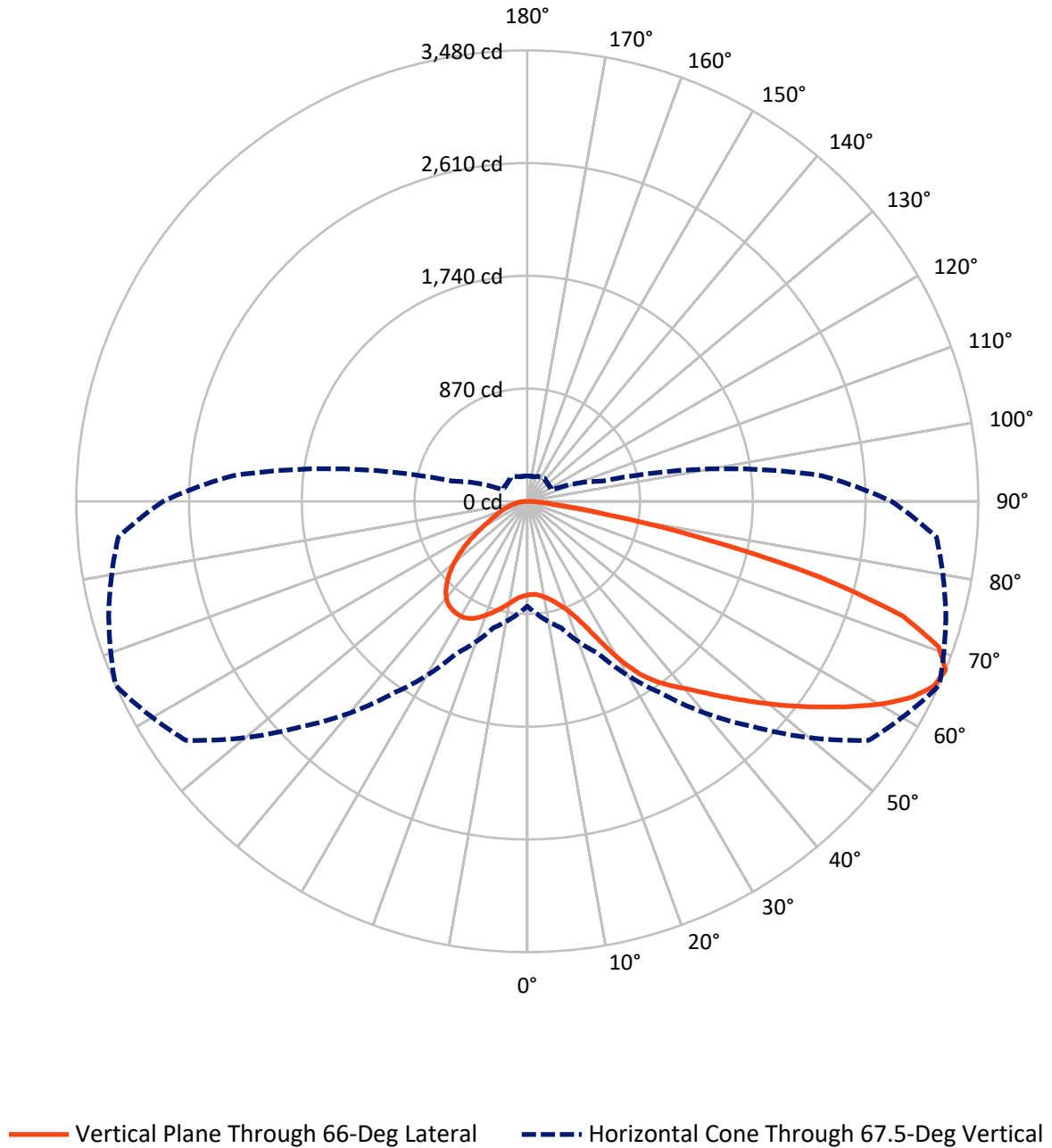
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1620.9	0.0	1620.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4898.1	0.0	4898.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	6519.0	0.0	6519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.1
10°-20°	236.8	3.6
20°-30°	456.5	7.0
30°-40°	800.4	12.3
40°-50°	1190.0	18.3
50°-60°	1508.4	23.1
60°-70°	1475.9	22.6
70°-80°	704.0	10.8
80°-90°	75.2	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°	6519.0	100.0
0°-180°	6519.0	100.0

Coefficient of Utilization



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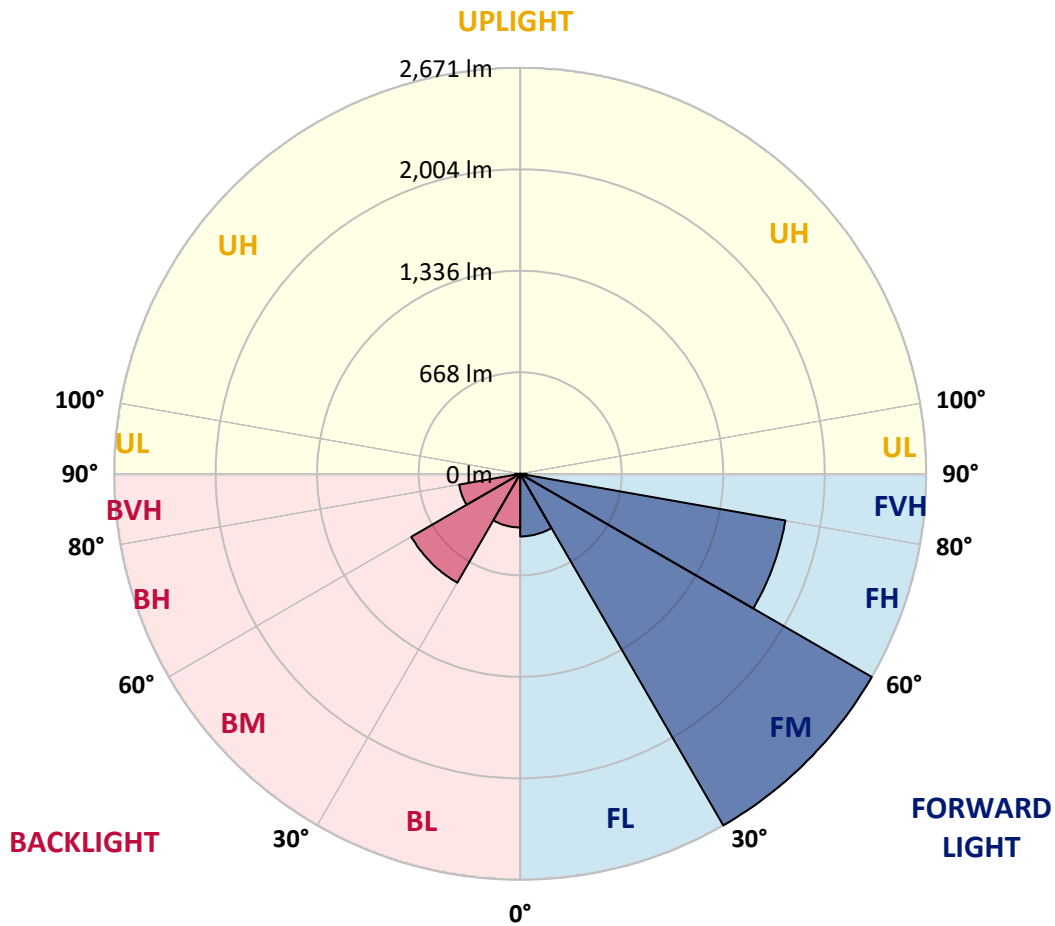
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.9	6.3			
FM (30°-60°)	2671.4	41.0			
FH (60°-80°)	1772.0	27.2			G1/1800
FVH (80°-90°)	42.7	0.7			G1/100
BL (0°-30°)	353.1	5.4	B1/500		
BM (30°-60°)	827.3	12.7	B1/1000		
BH (60°-80°)	407.9	6.3	B1/500		G1/500
BVH (80°-90°)	32.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
2.5°	715.5	719.6	718.6	716.9	716.5	717.2	718.2	719.3	718.9	720.6
5°	713.5	717.6	717.2	717.2	718.6	721.3	723.0	724.8	723.0	725.1
7.5°	714.8	717.9	719.3	720.6	724.1	729.2	733.3	737.1	735.0	737.4
10°	732.3	734.7	736.1	736.1	738.5	744.3	748.4	755.2	753.5	757.3
12.5°	764.1	766.5	766.5	765.2	766.9	770.7	772.0	779.6	776.5	782.6
15°	803.2	808.0	804.2	801.8	802.5	806.3	805.9	811.8	808.7	813.8
17.5°	846.3	852.5	846.3	846.0	844.6	848.7	849.1	854.2	848.7	852.5
20°	897.4	905.9	900.8	902.5	899.4	901.1	902.9	910.4	901.8	904.6
22.5°	969.3	979.6	974.1	980.6	978.6	977.2	976.8	990.2	976.8	977.9
25°	1074.1	1086.4	1076.9	1085.8	1085.8	1090.2	1095.4	1112.5	1090.2	1083.7
27.5°	1228.9	1241.3	1222.4	1227.9	1226.2	1237.2	1231.7	1274.1	1250.2	1239.6
30°	1415.3	1437.2	1401.6	1400.2	1398.5	1415.9	1423.8	1451.9	1427.6	1417.0
32.5°	1616.7	1639.6	1597.1	1584.8	1578.3	1588.9	1582.4	1605.0	1588.2	1571.8
35°	1829.7	1852.3	1811.9	1787.9	1761.9	1739.6	1716.3	1722.2	1706.4	1681.4
37.5°	2031.1	2072.5	2029.7	2004.0	1956.1	1912.6	1847.5	1820.5	1805.7	1782.8
40°	2236.3	2259.9	2227.4	2205.4	2153.4	2085.2	1981.1	1923.9	1904.0	1881.8
42.5°	2387.3	2409.9	2392.4	2377.4	2336.6	2257.5	2122.9	2051.3	2022.5	1997.5
45°	2507.2	2524.0	2513.0	2518.5	2501.0	2424.3	2269.8	2188.0	2158.2	2127.7
47.5°	2555.5	2573.3	2590.8	2623.3	2653.1	2596.6	2427.7	2335.9	2304.4	2273.3
50°	2550.0	2568.2	2618.8	2688.0	2780.5	2761.7	2594.2	2493.5	2464.4	2428.8
52.5°	2506.2	2526.7	2591.8	2706.9	2854.2	2885.3	2763.7	2656.2	2628.8	2586.3
55°	2391.1	2403.4	2501.0	2664.1	2871.6	2971.6	2929.8	2829.5	2802.1	2742.8
57.5°	2177.7	2195.5	2337.6	2548.6	2827.8	3030.2	3075.8	3011.7	2985.3	2900.1
60°	1899.2	1927.7	2090.4	2354.8	2716.1	3029.9	3208.3	3190.8	3168.9	3054.9
62.5°	1584.1	1617.0	1773.5	2080.8	2520.9	2943.9	3291.2	3340.9	3329.6	3197.7
65°	1216.6	1239.2	1395.1	1726.3	2217.1	2759.3	3300.8	3443.3	3445.3	3306.3
67.5°	810.0	875.1	1010.4	1295.4	1810.2	2457.5	3216.5	3460.1	3479.9	3343.6
70°	395.3	480.9	613.4	841.9	1295.4	1994.8	2996.3	3322.4	3366.6	3234.7
72.5°	164.1	191.8	264.1	415.5	743.6	1346.1	2553.8	2949.0	3030.9	2866.1
75°	110.6	119.9	151.0	213.0	338.7	663.8	1841.7	2198.9	2330.8	2164.7
77.5°	85.3	91.1	109.9	149.0	201.4	251.1	985.8	1325.2	1393.3	1289.9
80°	67.1	71.6	82.2	108.6	142.8	134.3	336.0	600.4	639.8	536.7
82.5°	58.2	59.9	58.9	73.6	94.9	78.4	110.3	221.6	244.6	177.4
85°	42.1	46.9	49.0	45.6	50.3	39.7	45.2	78.4	86.3	77.1
87.5°	17.1	25.3	31.2	29.5	18.5	11.3	14.0	22.9	26.4	28.8
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°
723.0	0°	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
723.4	2.5°	723.7	726.1	727.8	729.9	731.3	733.3	737.4	739.8	740.2	741.9
728.9	5°	730.2	733.7	737.4	742.9	749.1	754.2	762.1	767.6	769.6	771.3
742.2	7.5°	744.3	749.1	755.9	765.5	774.4	781.3	790.9	797.4	803.9	806.3
763.5	10°	765.2	772.0	782.0	795.0	804.6	813.5	823.4	828.9	835.4	838.1
788.8	12.5°	791.2	798.4	811.4	829.6	838.5	844.6	848.1	846.7	848.1	850.5
819.3	15°	821.0	828.9	843.6	863.1	869.3	863.8	856.3	849.4	848.4	849.1
856.3	17.5°	856.3	862.1	879.2	895.7	891.2	868.6	852.2	841.2	835.7	834.0
903.5	20°	905.6	905.6	919.6	929.9	900.1	861.8	836.1	818.3	807.0	802.2
967.9	22.5°	965.5	960.1	969.0	961.8	898.4	842.6	807.0	776.1	759.0	752.2
1058.0	25°	1041.6	1035.1	1032.7	988.1	886.1	812.1	754.2	716.9	701.8	698.0
1187.8	27.5°	1156.3	1139.9	1108.7	1002.5	863.5	764.1	692.6	658.0	649.4	649.7
1354.6	30°	1309.1	1276.2	1199.8	1004.9	826.5	696.3	629.5	604.9	600.8	602.5
1494.7	32.5°	1450.5	1419.4	1293.0	994.0	769.6	629.9	573.0	556.6	550.4	552.5
1601.6	35°	1561.5	1553.0	1379.3	978.6	699.8	567.5	522.3	508.3	496.3	493.6
1702.3	37.5°	1666.3	1662.9	1444.0	957.0	630.6	523.4	481.6	463.1	445.6	436.0
1813.6	40°	1781.4	1778.0	1486.5	923.8	569.3	485.0	444.9	420.6	399.0	381.6
1939.6	42.5°	1910.9	1890.7	1506.7	876.1	517.2	452.5	415.1	382.2	353.8	337.7
2082.1	45°	2052.3	2006.8	1506.4	815.5	473.4	422.7	383.3	336.7	310.3	295.2
2228.4	47.5°	2202.4	2117.8	1487.9	748.4	430.9	389.8	333.9	298.3	280.9	271.6
2387.3	50°	2357.2	2221.5	1456.4	671.3	387.4	352.4	303.1	278.8	265.4	256.9
2544.9	52.5°	2502.7	2315.7	1418.3	584.0	343.2	316.1	289.4	270.6	256.5	247.0
2697.6	55°	2638.0	2396.9	1364.6	494.6	307.2	291.8	282.9	267.2	251.1	239.8
2852.8	57.5°	2758.3	2449.6	1271.7	410.7	281.5	275.0	276.1	261.3	242.8	233.3
3005.5	60°	2858.3	2488.4	1134.4	332.9	260.7	258.6	265.4	250.4	228.8	217.8
3134.7	62.5°	2918.2	2487.7	965.9	272.6	242.8	243.5	251.4	236.7	214.8	204.5
3202.1	65°	2913.1	2426.7	780.9	233.3	225.7	226.4	236.7	221.6	203.1	196.9
3168.2	67.5°	2810.0	2278.0	599.1	207.6	206.9	210.0	221.9	211.3	195.9	195.2
2966.2	70°	2530.8	1969.4	431.6	187.0	187.4	191.8	207.6	204.8	192.1	193.5
2493.8	72.5°	2029.4	1501.6	289.8	165.4	165.8	173.0	193.9	199.7	188.4	206.5
1769.4	75°	1351.6	936.4	186.3	142.5	142.8	152.1	181.9	189.8	178.1	205.8
920.7	77.5°	649.4	420.9	134.9	119.9	119.9	128.4	157.2	169.9	151.7	160.0
295.9	80°	224.3	158.2	106.2	96.6	94.5	100.4	132.6	147.3	130.8	120.6
96.6	82.5°	88.4	82.2	85.3	75.0	68.2	71.9	103.1	121.6	96.2	87.0
54.5	85°	50.7	53.4	60.3	49.7	39.4	44.2	75.7	87.3	72.6	64.0
17.8	87.5°	13.7	18.8	27.7	25.7	17.8	18.8	36.0	48.3	41.8	32.2
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

<u>180°</u>
723.0
741.5
771.0
806.6
839.5
851.1
851.5
836.4
801.1
751.1
698.7
650.8
608.3
555.2
495.6
436.4
383.3
338.7
294.6
269.6
253.8
242.8
235.3
227.1
213.0
201.4
196.6
196.3
193.2
209.3
207.6
146.6
113.0
86.7
65.4
33.2
0.0

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