

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: P945728

Luminaire Tested: **GALN-SB1C-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6822 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

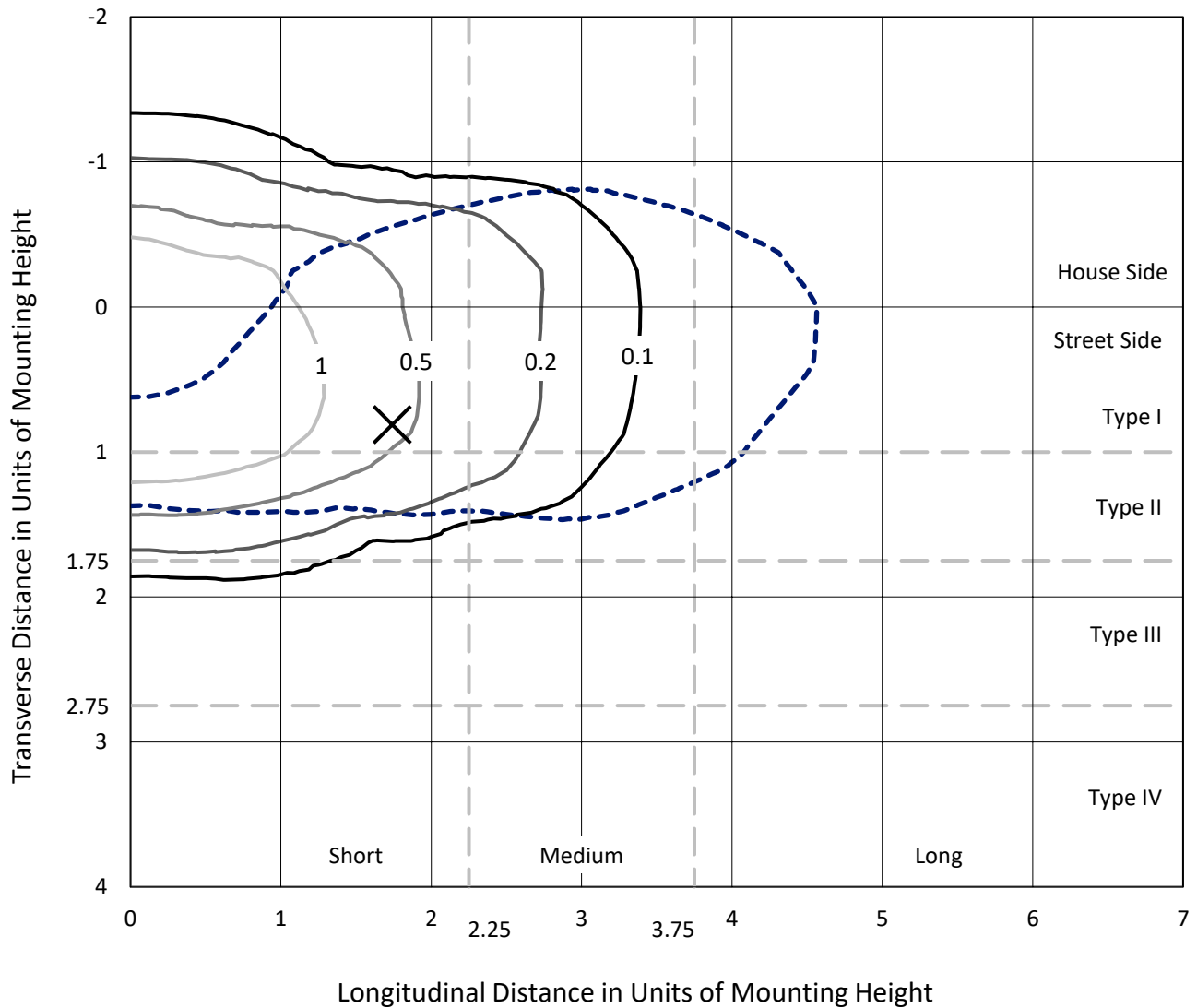
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

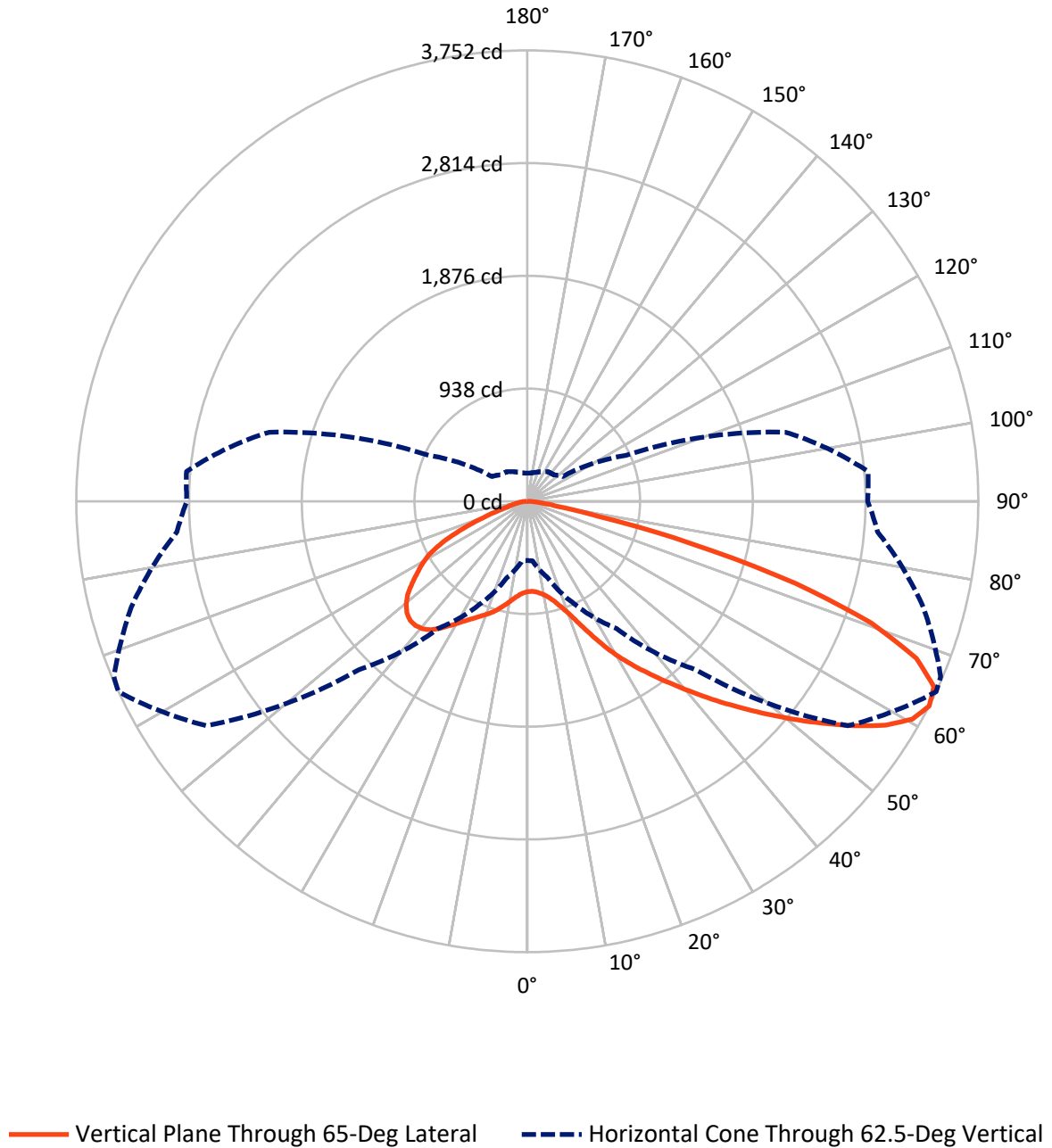
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2152.7	0.0	2152.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4669.3	0.0	4669.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6822.0	0.0	6822.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	1.1
10°-20°	254.2	3.7
20°-30°	515.3	7.6
30°-40°	891.8	13.1
40°-50°	1349.5	19.8
50°-60°	1582.2	23.2
60°-70°	1326.5	19.4
70°-80°	732.3	10.7
80°-90°	95.1	1.4
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°	6822.0	100.0
0°-180°	6822.0	100.0



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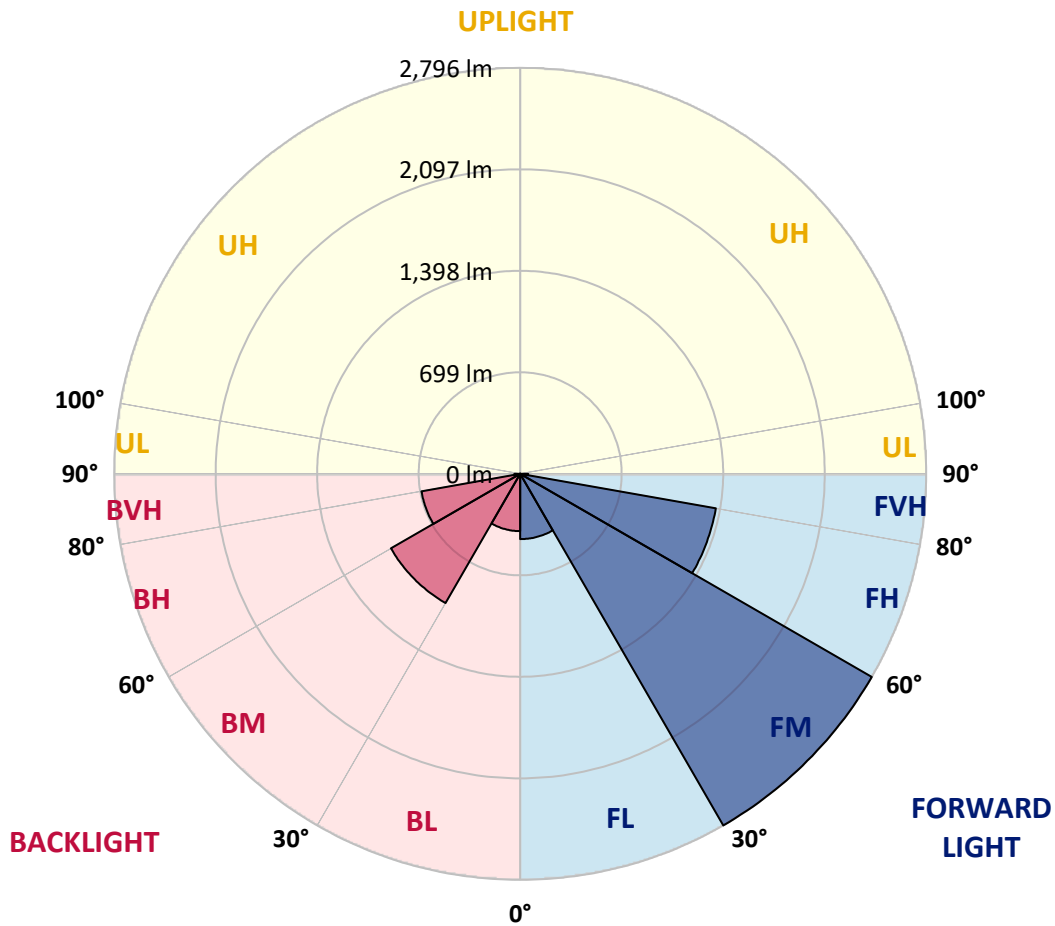
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.7	6.6			
FM (30°-60°)	2795.9	41.0			
FH (60°-80°)	1368.3	20.1			G1/1800
FVH (80°-90°)	55.4	0.8			G1/100
BL (0°-30°)	394.8	5.8	B1/500		
BM (30°-60°)	1027.7	15.1	B2/2500		
BH (60°-80°)	690.6	10.1	B2/1000		G2/1000
BVH (80°-90°)	39.7	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8
2.5°	746.8	744.7	746.4	746.4	747.2	746.8	749.3	750.0	751.0	753.2
5°	739.4	739.0	742.2	745.0	747.9	750.3	753.5	758.1	758.8	761.3
7.5°	736.9	734.8	739.7	743.3	750.0	756.0	764.5	772.3	775.5	776.5
10°	756.0	752.5	757.1	759.2	764.9	770.9	780.8	793.2	796.7	801.0
12.5°	788.6	784.7	791.4	794.6	799.9	805.2	811.9	824.0	825.7	833.5
15°	833.2	828.6	832.8	836.7	845.5	850.5	857.2	868.9	868.9	874.9
17.5°	893.7	887.7	890.9	892.3	897.9	905.4	916.7	927.0	932.3	930.1
20°	983.9	976.5	976.5	969.4	967.3	973.3	988.2	1002.3	1008.0	997.0
22.5°	1119.5	1108.9	1102.9	1078.8	1069.2	1069.9	1084.8	1102.1	1106.8	1087.3
25°	1291.9	1275.2	1267.1	1231.7	1210.1	1191.3	1203.0	1225.3	1231.7	1207.6
27.5°	1464.2	1465.3	1457.5	1415.0	1379.3	1344.9	1338.9	1362.3	1369.0	1341.8
30°	1706.0	1680.8	1666.0	1615.0	1564.0	1515.9	1491.1	1500.7	1502.4	1469.9
32.5°	1914.4	1908.1	1876.2	1831.6	1766.1	1690.7	1649.3	1634.1	1631.3	1584.9
35°	2151.9	2148.4	2114.8	2061.7	1990.9	1886.1	1811.4	1767.9	1764.4	1699.2
37.5°	2393.3	2393.3	2360.4	2302.3	2229.1	2098.1	1984.5	1915.5	1904.2	1819.2
40°	2585.8	2574.2	2580.2	2555.8	2471.9	2332.8	2176.7	2076.5	2061.3	1959.4
42.5°	2695.2	2691.3	2727.4	2754.7	2720.3	2609.2	2388.3	2251.0	2229.8	2113.7
45°	2719.6	2715.4	2779.8	2879.6	2927.7	2882.1	2618.4	2434.7	2408.9	2275.1
47.5°	2663.3	2654.9	2749.4	2906.9	3061.2	3141.5	2867.6	2634.0	2596.5	2432.2
50°	2494.2	2486.0	2629.0	2838.2	3106.1	3317.8	3138.0	2845.3	2787.9	2600.7
52.5°	2126.4	2130.3	2354.4	2641.8	3047.0	3427.5	3370.9	3067.9	2998.9	2773.1
55°	1656.4	1664.9	1940.3	2256.7	2810.6	3410.9	3529.8	3297.2	3228.6	2935.2
57.5°	1186.0	1223.5	1481.6	1794.8	2356.5	3147.2	3564.5	3515.3	3448.7	3112.1
60°	768.7	775.5	1040.9	1356.6	1794.4	2678.6	3494.0	3680.6	3628.5	3292.6
62.5°	492.7	497.3	659.0	948.9	1291.5	1981.7	3256.9	3752.4	3736.5	3411.9
65°	362.1	358.5	442.8	627.2	870.0	1222.1	2796.4	3717.7	3749.2	3486.6
67.5°	302.3	297.3	338.7	434.3	641.0	694.1	2069.1	3492.3	3607.6	3478.1
70°	275.4	271.1	296.2	322.4	500.1	464.7	1043.0	3036.0	3213.7	3381.5
72.5°	233.2	225.8	260.1	286.3	389.0	356.4	431.1	2332.1	2548.7	3071.8
75°	180.9	175.9	205.3	252.0	292.3	278.2	272.5	1416.1	1652.5	2375.6
77.5°	143.3	136.6	163.5	196.4	263.0	209.9	198.6	609.8	844.1	1516.6
80°	107.9	101.9	124.2	155.4	202.1	158.2	128.5	248.8	318.2	768.4
82.5°	76.8	71.5	86.7	114.0	135.9	141.9	78.9	139.4	156.8	296.2
85°	49.2	46.0	58.0	71.5	86.4	91.3	48.1	72.9	80.0	122.1
87.5°	26.9	21.9	31.1	33.3	40.0	36.5	23.0	26.5	28.7	44.2
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°
751.8	0°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8
753.2	2.5°	754.6	755.6	759.2	760.2	762.7	765.9	768.0	770.2	770.2	772.3
764.5	5°	764.9	767.3	774.8	778.7	785.0	791.4	795.3	799.9	802.7	804.1
782.5	7.5°	784.7	788.6	799.2	805.9	816.9	825.7	831.7	838.1	839.5	843.4
807.7	10°	811.6	816.2	828.2	840.9	854.0	865.0	870.7	875.3	877.0	877.8
839.9	12.5°	842.4	849.1	864.7	880.2	894.0	903.6	905.0	903.9	899.0	894.7
879.5	15°	880.2	886.2	903.6	920.6	934.0	935.8	927.0	921.3	915.3	914.2
923.8	17.5°	925.5	928.7	944.6	961.3	962.3	956.3	943.2	937.9	932.3	928.4
981.5	20°	978.3	977.2	988.5	995.6	988.2	969.8	950.0	941.1	935.4	930.8
1052.2	22.5°	1041.3	1033.1	1031.7	1029.9	1010.1	971.5	944.6	933.3	924.5	918.1
1151.0	25°	1132.9	1101.8	1080.2	1068.2	1023.6	962.0	927.7	902.5	885.9	874.9
1271.7	27.5°	1247.6	1195.2	1140.7	1111.4	1023.6	942.5	886.6	845.9	818.6	807.3
1388.5	30°	1357.0	1302.1	1221.8	1163.4	1021.1	910.7	820.4	763.8	731.9	720.6
1488.3	32.5°	1450.4	1390.6	1307.8	1220.4	1015.1	859.0	738.3	675.7	644.9	631.4
1587.0	35°	1537.1	1473.4	1394.1	1283.0	999.2	783.3	648.1	600.3	565.9	544.3
1687.6	37.5°	1626.0	1550.2	1475.9	1339.6	970.5	694.8	578.7	538.0	497.6	468.6
1794.4	40°	1722.6	1632.0	1563.3	1373.3	923.4	610.5	524.9	487.7	444.9	414.1
1917.6	42.5°	1835.5	1730.0	1660.7	1390.6	859.0	550.7	489.8	453.4	413.0	387.9
2049.6	45°	1953.4	1838.0	1749.5	1390.3	787.1	522.8	478.5	442.4	397.8	371.6
2185.2	47.5°	2076.9	1950.9	1826.3	1367.6	724.9	526.7	472.1	418.7	369.5	344.0
2322.2	50°	2200.8	2074.4	1900.6	1325.1	698.3	518.2	448.4	385.4	327.4	304.4
2450.6	52.5°	2323.6	2205.7	1964.7	1264.6	671.4	486.7	418.0	342.3	310.0	294.1
2583.4	55°	2447.1	2335.6	2034.4	1176.5	604.2	449.8	367.0	326.0	296.2	281.7
2713.3	57.5°	2571.0	2485.7	2100.6	1088.3	519.6	404.5	339.1	306.2	282.4	270.1
2821.9	60°	2699.8	2657.3	2168.9	1007.3	436.0	346.5	318.5	290.2	266.2	252.4
2926.3	62.5°	2832.5	2846.3	2222.3	902.9	359.2	311.1	300.1	271.1	247.8	234.7
3012.7	65°	2966.3	3028.6	2257.4	758.1	291.3	277.5	280.3	250.2	226.5	215.2
3076.0	67.5°	3067.2	3159.9	2247.5	573.7	238.9	245.6	255.5	228.3	206.0	197.1
3065.8	70°	3078.5	3144.3	2149.8	392.9	200.0	214.5	227.9	206.7	183.7	177.3
2921.4	72.5°	2927.7	2932.0	1877.6	256.6	169.2	188.3	198.9	184.8	162.5	156.1
2555.8	75°	2532.4	2424.8	1378.6	169.2	141.6	161.7	171.7	161.7	140.2	141.6
1912.3	77.5°	1918.7	1717.3	837.1	120.3	118.2	135.9	149.4	142.3	123.9	139.1
961.6	80°	988.5	929.1	373.4	89.9	93.4	108.7	122.8	113.6	98.0	93.4
214.8	82.5°	226.5	263.3	147.2	64.4	67.6	78.2	93.8	85.3	70.4	59.5
89.5	85°	79.3	86.7	65.1	40.3	39.6	48.8	63.7	57.0	47.8	38.2
37.9	87.5°	25.1	32.9	24.4	16.3	17.0	21.9	29.4	26.9	22.3	14.5
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>
751.8
772.3
804.8
842.0
876.0
894.7
914.2
928.7
931.2
920.2
879.2
813.0
727.3
638.1
551.4
476.4
420.1
392.9
375.9
347.6
305.8
294.1
280.3
267.9
251.3
234.3
214.8
197.5
177.7
155.7
136.6
122.5
85.3
58.8
40.3
15.2
0.0

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