

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: P946883

Luminaire Tested: **GALN-SB2B-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946883
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-SB2B-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6946 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

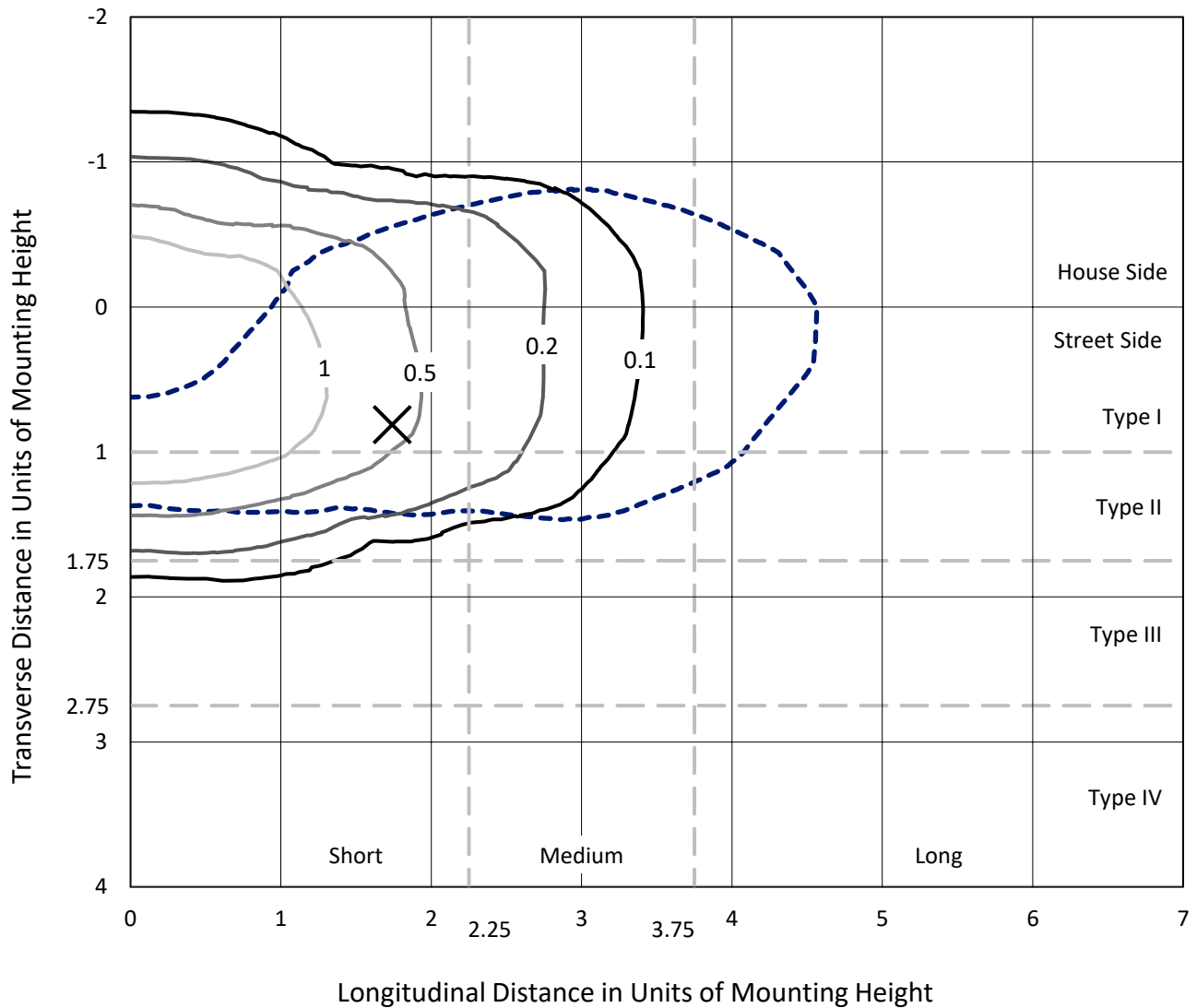
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

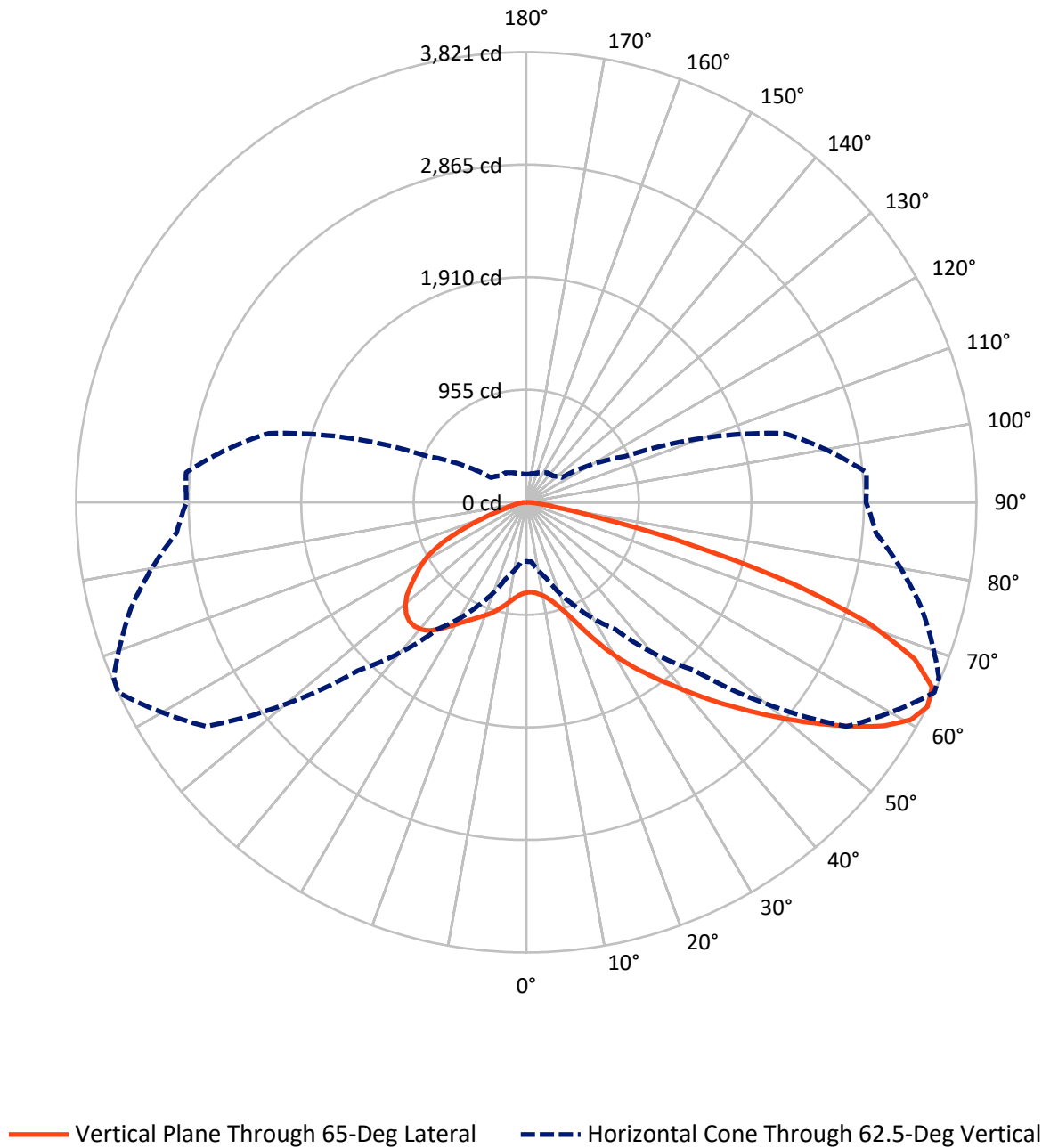
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2191.8	0.0	2191.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4754.1	0.0	4754.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	6946.0	0.0	6946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.1
10°-20°	258.8	3.7
20°-30°	524.7	7.6
30°-40°	908.0	13.1
40°-50°	1374.1	19.8
50°-60°	1611.0	23.2
60°-70°	1350.6	19.4
70°-80°	745.7	10.7
80°-90°	96.9	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°	6946.0	100.0
0°-180°	6946.0	100.0

Coefficient of Utilization



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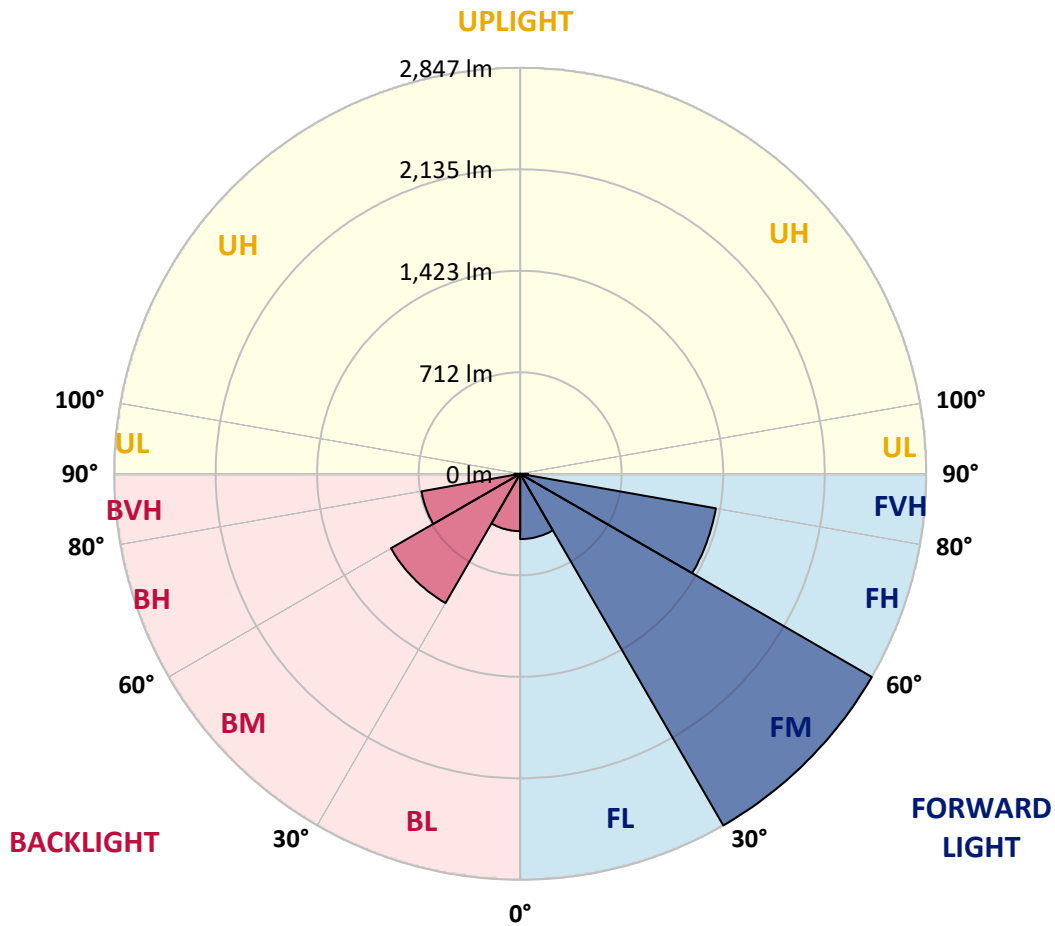
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.8	6.6			
FM (30°-60°)	2846.7	41.0			
FH (60°-80°)	1393.2	20.1			G1/1800
FVH (80°-90°)	56.4	0.8			G1/100
BL (0°-30°)	402.0	5.8	B1/500		
BM (30°-60°)	1046.4	15.1	B2/2500		
BH (60°-80°)	703.1	10.1	B2/1000		G2/1000
BVH (80°-90°)	40.4	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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	760.4	758.2	760.0	760.0	760.7	760.4	762.9	763.6	764.7	766.9
5°	752.8	752.4	755.7	758.6	761.5	764.0	767.2	771.9	772.6	775.1
7.5°	750.3	748.1	753.2	756.8	763.6	769.7	778.4	786.3	789.6	790.6
10°	769.7	766.1	770.8	773.0	778.8	784.9	795.0	807.6	811.2	815.5
12.5°	802.9	798.9	805.8	809.0	814.4	819.8	826.7	838.9	840.7	848.7
15°	848.3	843.6	847.9	851.9	860.9	866.0	872.8	884.7	884.7	890.8
17.5°	909.9	903.8	907.0	908.5	914.3	921.8	933.4	943.8	949.2	947.0
20°	1001.8	994.3	994.3	987.0	984.9	991.0	1006.1	1020.6	1026.3	1015.2
22.5°	1139.8	1129.0	1122.9	1098.4	1088.7	1089.4	1104.5	1122.2	1126.9	1107.0
25°	1315.3	1298.4	1290.1	1254.1	1232.1	1213.0	1224.9	1247.6	1254.1	1229.6
27.5°	1490.8	1491.9	1484.0	1440.7	1404.3	1369.4	1363.3	1387.1	1393.9	1366.2
30°	1737.0	1711.4	1696.2	1644.4	1592.5	1543.5	1518.2	1528.0	1529.8	1496.6
32.5°	1949.2	1942.7	1910.3	1864.9	1798.2	1721.5	1679.3	1663.8	1660.9	1613.7
35°	2191.0	2187.4	2153.2	2099.1	2027.1	1920.4	1844.4	1800.0	1796.4	1730.1
37.5°	2436.8	2436.8	2403.3	2344.2	2269.6	2136.3	2020.6	1950.3	1938.8	1852.3
40°	2632.8	2620.9	2627.1	2602.2	2516.8	2375.2	2216.3	2114.3	2098.8	1995.0
42.5°	2744.2	2740.2	2777.0	2804.7	2769.8	2656.6	2431.8	2291.9	2270.3	2152.1
45°	2769.1	2764.7	2830.3	2931.9	2981.0	2934.5	2666.0	2479.0	2452.7	2316.4
47.5°	2711.8	2703.1	2799.3	2959.7	3116.8	3198.6	2919.7	2681.8	2643.7	2476.4
50°	2539.5	2531.2	2676.8	2889.8	3162.6	3378.1	3195.0	2897.0	2838.6	2648.0
52.5°	2165.1	2169.0	2397.2	2689.8	3102.4	3489.8	3432.1	3123.7	3053.4	2823.5
55°	1686.5	1695.2	1975.5	2297.7	2861.7	3472.9	3593.9	3357.2	3287.3	2988.5
57.5°	1207.6	1245.8	1508.5	1827.4	2399.3	3204.4	3629.3	3579.2	3511.4	3168.7
60°	782.7	789.6	1059.8	1381.3	1827.1	2727.3	3557.5	3747.5	3694.5	3352.5
62.5°	501.6	506.3	671.0	966.1	1315.0	2017.7	3316.1	3820.6	3804.4	3473.9
65°	368.7	365.1	450.8	638.6	885.8	1244.3	2847.3	3785.3	3817.4	3550.0
67.5°	307.8	302.7	344.9	442.2	652.6	706.7	2106.7	3555.7	3673.2	3541.3
70°	280.4	276.0	301.6	328.3	509.2	473.2	1062.0	3091.2	3272.1	3442.9
72.5°	237.5	229.9	264.9	291.5	396.0	362.9	438.9	2374.5	2595.0	3127.6
75°	184.1	179.1	209.0	256.6	297.7	283.2	277.5	1441.8	1682.6	2418.8
77.5°	145.9	139.1	166.5	200.0	267.8	213.7	202.2	620.9	859.5	1544.2
80°	109.9	103.8	126.5	158.2	205.8	161.1	130.8	253.3	324.0	782.4
82.5°	78.2	72.8	88.3	116.0	138.4	144.5	80.4	142.0	159.6	301.6
85°	50.1	46.8	59.1	72.8	87.9	93.0	49.0	74.2	81.4	124.3
87.5°	27.4	22.3	31.7	33.9	40.7	37.1	23.4	27.0	29.2	45.0
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°
765.4	0°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
766.9	2.5°	768.3	769.4	773.0	774.1	776.6	779.8	782.0	784.2	784.2	786.3
778.4	5°	778.8	781.3	788.8	792.8	799.3	805.8	809.7	814.4	817.3	818.8
796.8	7.5°	798.9	802.9	813.7	820.6	831.7	840.7	846.9	853.3	854.8	858.8
822.4	10°	826.3	831.0	843.3	856.2	869.6	880.7	886.5	891.2	893.0	893.7
855.2	12.5°	857.7	864.5	880.4	896.2	910.3	920.0	921.5	920.4	915.3	911.0
895.5	15°	896.2	902.4	920.0	937.3	951.0	952.8	943.8	938.0	931.9	930.8
940.6	17.5°	942.4	945.6	961.8	978.8	979.8	973.7	960.4	955.0	949.2	945.2
999.3	20°	996.1	995.0	1006.5	1013.7	1006.1	987.4	967.2	958.2	952.4	947.8
1071.4	22.5°	1060.2	1051.9	1050.5	1048.7	1028.5	989.2	961.8	950.3	941.3	934.8
1171.9	25°	1153.5	1121.8	1099.8	1087.6	1042.2	979.5	944.5	918.9	902.0	890.8
1294.8	27.5°	1270.3	1217.0	1161.5	1131.6	1042.2	959.7	902.7	861.3	833.5	822.0
1413.7	30°	1381.6	1325.8	1244.0	1184.5	1039.7	927.2	835.3	777.7	745.2	733.7
1515.3	32.5°	1476.8	1415.9	1331.6	1242.5	1033.5	874.6	751.7	687.9	656.6	642.9
1615.9	35°	1565.1	1500.2	1419.5	1306.3	1017.3	797.5	659.8	611.2	576.2	554.2
1718.2	37.5°	1655.5	1578.4	1502.7	1364.0	988.1	707.4	589.2	547.8	506.7	477.1
1827.1	40°	1753.9	1661.7	1591.7	1398.2	940.2	621.6	534.4	496.6	453.0	421.6
1952.5	42.5°	1868.9	1761.5	1690.8	1415.9	874.6	560.7	498.7	461.6	420.5	395.0
2086.9	45°	1988.9	1871.4	1781.3	1415.5	801.5	532.3	487.2	450.5	405.1	378.4
2224.9	47.5°	2114.6	1986.3	1859.5	1392.5	738.0	536.2	480.7	426.3	376.2	350.3
2364.4	50°	2240.8	2112.1	1935.2	1349.2	711.0	527.6	456.6	392.4	333.3	309.9
2495.2	52.5°	2365.8	2245.8	2000.4	1287.6	683.6	495.5	425.6	348.5	315.7	299.5
2630.3	55°	2491.6	2378.1	2071.4	1197.9	615.1	458.0	373.7	331.9	301.6	286.9
2762.6	57.5°	2617.7	2530.9	2138.8	1108.1	529.0	411.9	345.2	311.7	287.6	275.0
2873.2	60°	2748.9	2705.6	2208.3	1025.6	444.0	352.8	324.3	295.5	271.0	256.9
2979.5	62.5°	2884.0	2898.1	2262.7	919.3	365.8	316.8	305.6	276.0	252.3	238.9
3067.4	65°	3020.2	3083.7	2298.4	771.9	296.6	282.5	285.4	254.8	230.6	219.1
3131.9	67.5°	3122.9	3217.4	2288.3	584.2	243.2	250.1	260.2	232.4	209.7	200.7
3121.5	70°	3134.5	3201.5	2188.9	400.0	203.6	218.4	232.1	210.5	187.0	180.5
2974.5	72.5°	2981.0	2985.3	1911.7	261.3	172.3	191.7	202.5	188.1	165.4	158.9
2602.2	75°	2578.4	2468.9	1403.6	172.3	144.1	164.7	174.8	164.7	142.7	144.1
1947.1	77.5°	1953.5	1748.5	852.3	122.5	120.4	138.4	152.1	144.9	126.1	141.6
979.1	80°	1006.5	946.0	380.2	91.5	95.1	110.6	125.0	115.7	99.8	95.1
218.7	82.5°	230.6	268.1	149.9	65.6	68.8	79.6	95.5	86.8	71.7	60.5
91.2	85°	80.7	88.3	66.3	41.1	40.4	49.7	64.9	58.0	48.6	38.9
38.6	87.5°	25.6	33.5	24.9	16.6	17.3	22.3	29.9	27.4	22.7	14.8
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>
765.4
786.3
819.5
857.3
891.9
911.0
930.8
945.6
948.1
937.0
895.2
827.8
740.6
649.7
561.5
485.1
427.8
400.0
382.7
353.9
311.4
299.5
285.4
272.8
255.9
238.6
218.7
201.1
180.9
158.6
139.1
124.7
86.8
59.8
41.1
15.5
0.0

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