

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: P946444

Luminaire Tested: **GALN-SB2A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8275 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

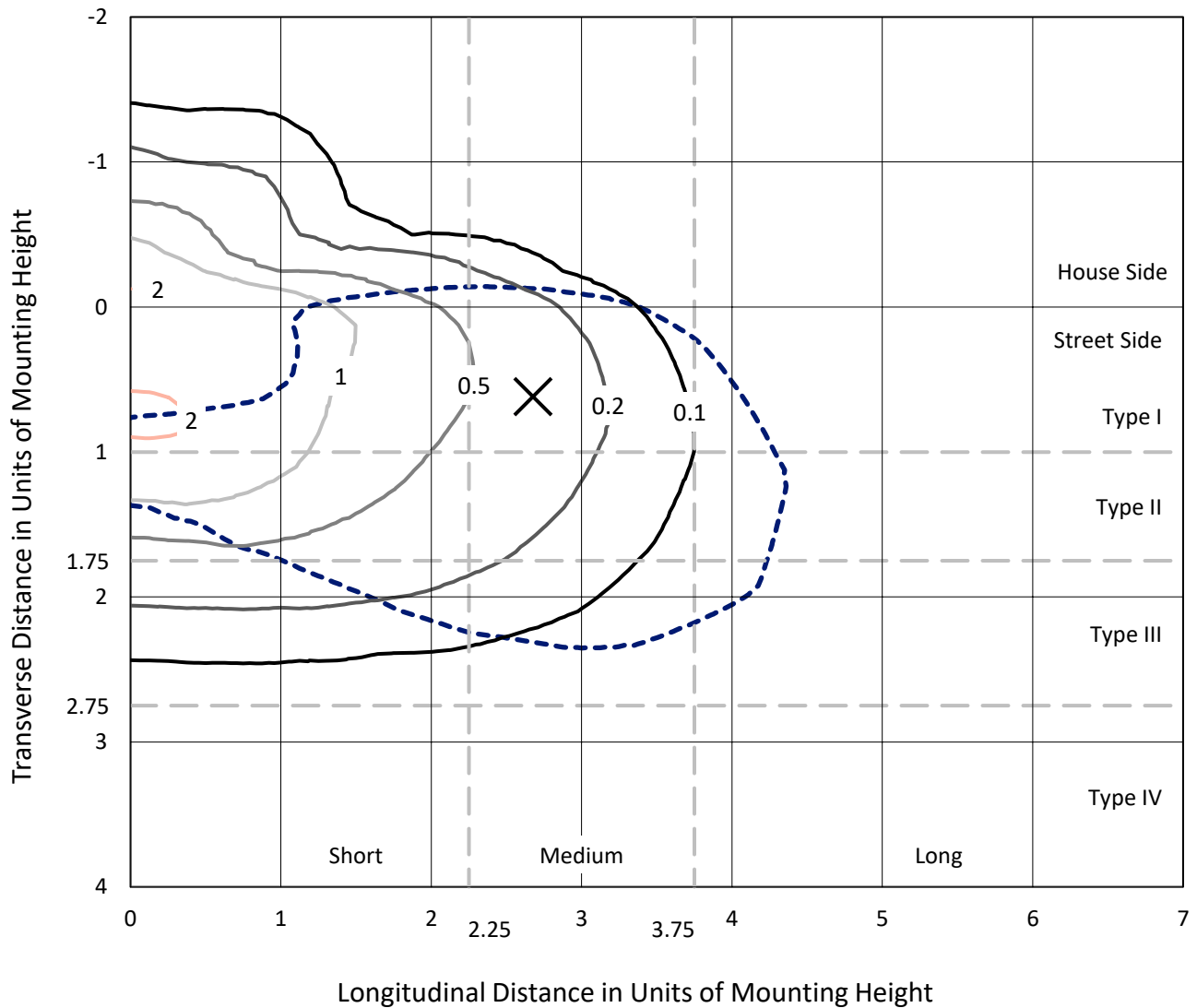
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

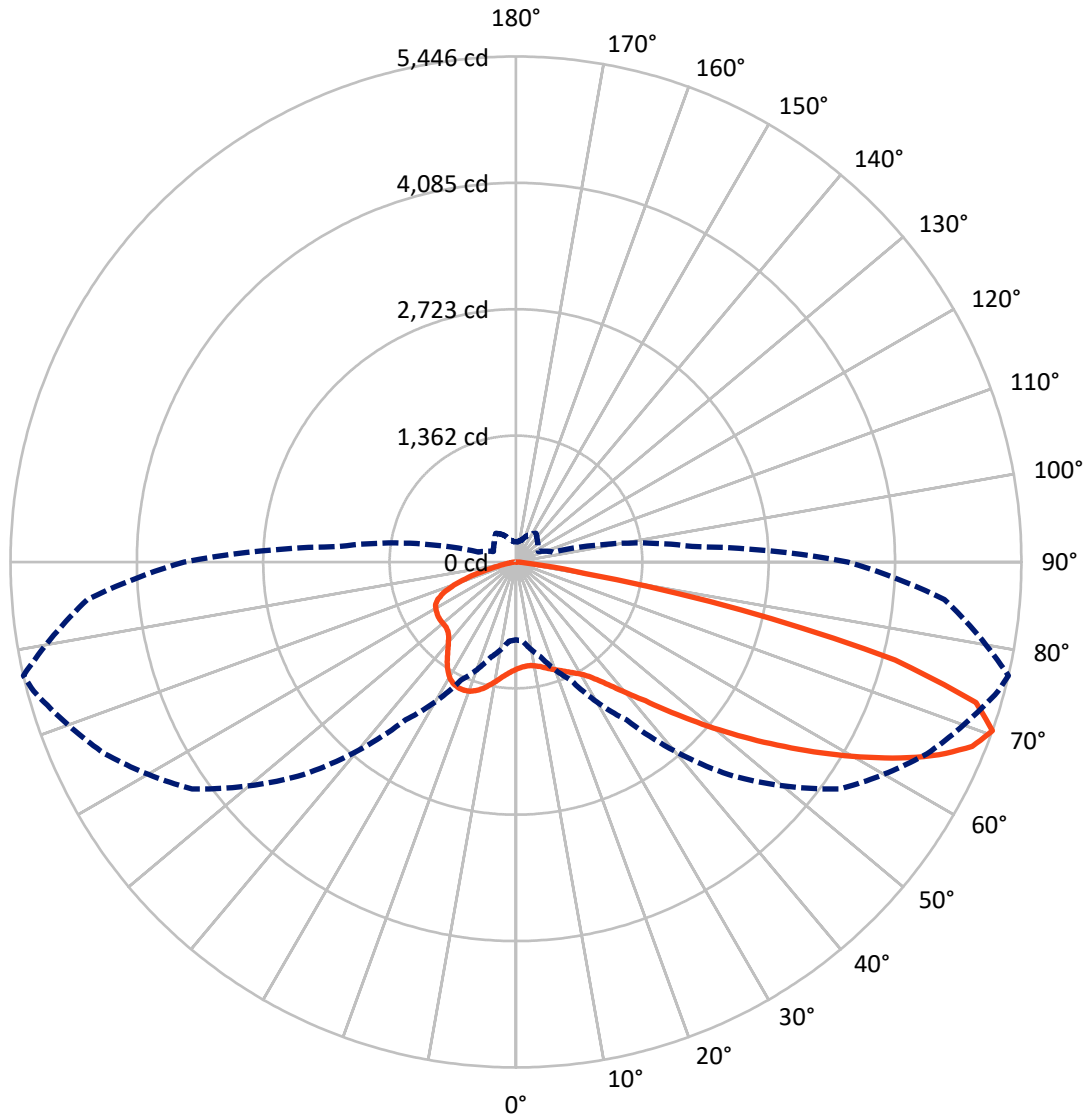
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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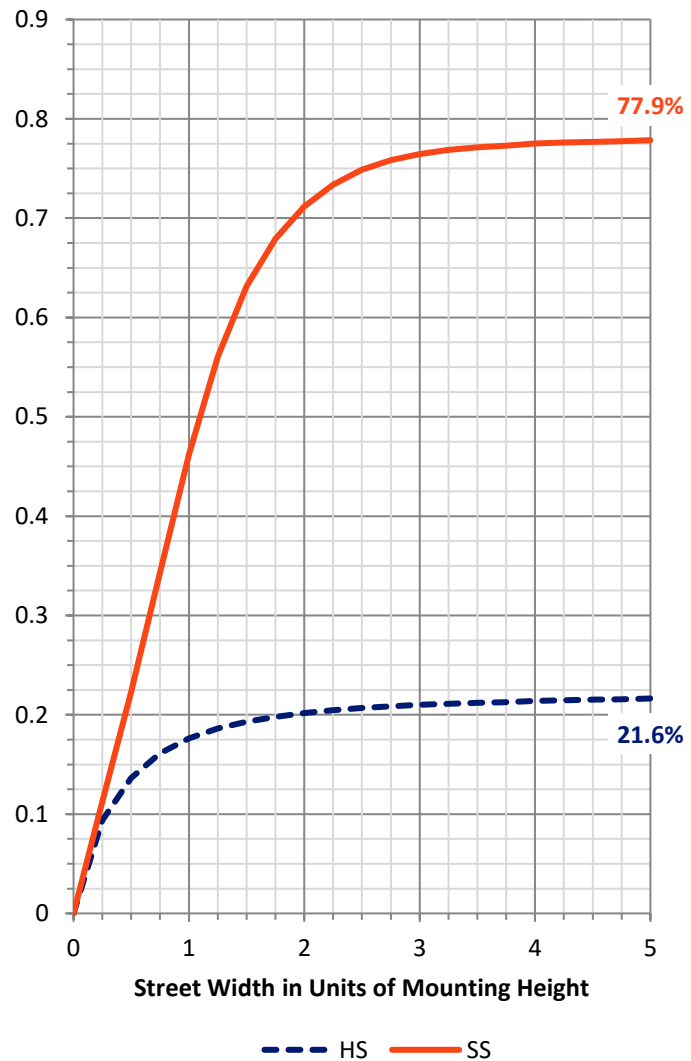
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.1	0.0	1812.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6462.9	0.0	6462.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	8275.0	0.0	8275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.3
10°-20°	317.8	3.8
20°-30°	543.4	6.6
30°-40°	873.9	10.6
40°-50°	1364.4	16.5
50°-60°	1822.5	22.0
60°-70°	1942.5	23.5
70°-80°	1195.8	14.5
80°-90°	104.8	1.3
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°	8275.0	100.0
0°-180°	8275.0	100.0



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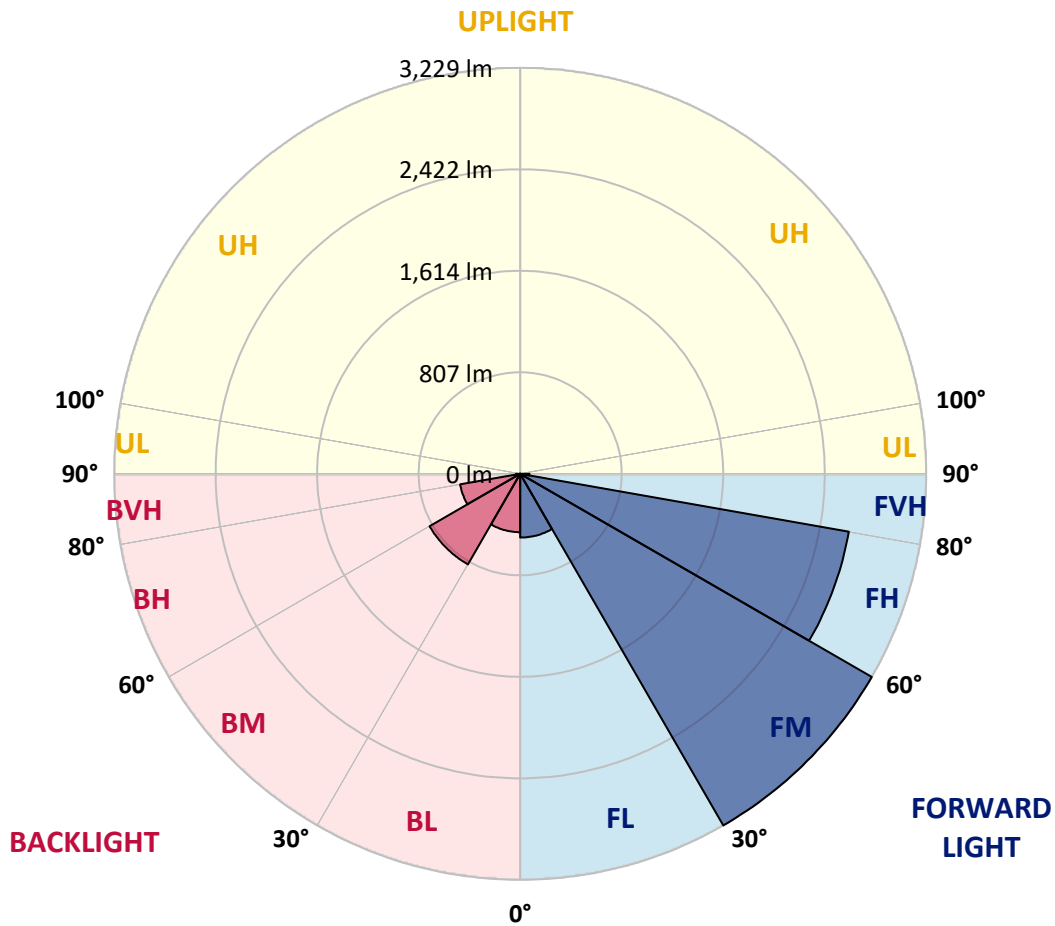
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.0	6.1			
FM (30°-60°)	3228.7	39.0			
FH (60°-80°)	2653.9	32.1			G2/5000
FVH (80°-90°)	73.3	0.9			G1/100
BL (0°-30°)	464.3	5.6	B1/500		
BM (30°-60°)	832.0	10.1	B1/1000		
BH (60°-80°)	484.3	5.9	B1/500		G1/500
BVH (80°-90°)	31.5	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
2.5°	1064.2	1063.7	1069.3	1070.9	1081.1	1088.3	1101.9	1116.3	1134.9	1137.1
5°	1002.7	1002.7	1009.1	1015.9	1029.0	1043.4	1064.2	1089.2	1121.4	1126.5
7.5°	950.6	954.0	959.5	972.6	987.9	1008.6	1040.4	1076.0	1118.4	1126.5
10°	908.6	912.4	919.2	929.8	952.7	981.5	1023.1	1068.8	1125.6	1138.3
12.5°	895.5	899.3	903.1	911.2	932.4	966.3	1015.9	1072.2	1143.0	1155.7
15°	926.0	930.7	927.7	925.6	936.6	967.5	1019.2	1084.5	1164.6	1182.8
17.5°	996.4	998.1	991.3	971.4	969.7	986.2	1035.3	1101.5	1191.7	1211.7
20°	1109.9	1107.0	1093.0	1053.6	1031.1	1027.7	1062.9	1126.9	1219.7	1240.9
22.5°	1264.2	1260.8	1232.8	1170.5	1120.5	1087.5	1102.7	1159.9	1251.1	1274.8
25°	1456.6	1451.9	1410.8	1326.1	1248.5	1166.7	1157.0	1203.6	1289.6	1311.7
27.5°	1681.2	1677.4	1632.9	1521.0	1409.1	1275.2	1224.4	1254.9	1329.9	1354.9
30°	1922.8	1933.8	1855.0	1734.6	1593.1	1416.8	1315.1	1318.0	1382.0	1404.5
32.5°	2206.7	2225.8	2130.9	1978.3	1785.1	1570.6	1429.5	1406.2	1457.9	1476.5
35°	2488.1	2509.8	2430.9	2262.3	2039.8	1752.0	1549.0	1507.5	1558.7	1579.1
37.5°	2731.4	2760.2	2719.5	2572.9	2312.3	1970.7	1705.0	1626.6	1682.9	1708.3
40°	2923.4	2967.5	2964.5	2873.0	2633.5	2236.0	1902.9	1773.6	1837.2	1864.7
42.5°	3079.3	3117.5	3150.5	3145.9	2968.7	2537.3	2135.5	1964.7	2013.1	2044.8
45°	3187.0	3227.7	3298.9	3375.6	3291.3	2859.8	2402.1	2191.5	2235.6	2283.4
47.5°	3283.2	3329.4	3421.8	3543.4	3565.0	3183.6	2694.1	2455.5	2495.8	2545.4
50°	3291.7	3331.5	3474.8	3647.2	3759.6	3494.7	3007.7	2751.7	2789.5	2842.4
52.5°	3087.0	3149.7	3399.7	3644.3	3849.0	3754.9	3319.2	3059.9	3102.2	3165.8
55°	2396.2	2488.1	3179.8	3530.7	3817.2	3923.1	3615.5	3387.5	3441.7	3508.2
57.5°	2063.9	2104.2	2524.2	3323.9	3672.2	3966.8	3865.5	3718.4	3805.7	3878.6
60°	1855.0	1888.5	2136.8	3002.2	3481.5	3897.7	4058.8	4027.0	4177.8	4264.7
62.5°	1631.2	1663.0	1888.9	2506.8	3237.4	3782.9	4180.8	4311.8	4559.3	4654.2
65°	1409.1	1436.3	1652.8	2106.3	2927.2	3668.0	4244.0	4558.0	4912.3	5010.6
67.5°	1161.6	1184.1	1388.8	1777.0	2550.0	3510.8	4275.3	4751.7	5219.6	5303.9
70°	838.3	855.7	1067.1	1405.3	2076.6	3240.4	4262.6	4889.0	5378.9	5446.3
72.5°	396.3	411.9	660.3	912.4	1466.8	2714.0	4005.4	4780.1	5217.0	5183.5
75°	211.5	225.0	379.3	500.5	774.7	1860.5	3277.7	4117.7	4380.8	4218.1
77.5°	143.2	153.8	234.8	300.5	353.9	883.2	2106.7	2850.9	2742.8	2474.2
80°	113.6	124.6	192.4	203.4	171.2	319.1	870.5	1319.7	948.0	758.2
82.5°	87.3	99.6	161.9	147.5	93.2	131.0	253.4	417.4	242.8	184.8
85°	53.4	66.5	127.1	94.1	52.6	59.8	86.0	116.1	74.2	61.9
87.5°	27.1	38.1	64.4	34.3	23.7	14.0	22.9	22.9	19.5	17.0
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°
1154.4	0°	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
1148.5	2.5°	1158.7	1167.2	1181.6	1195.1	1205.7	1215.9	1226.1	1231.6	1233.3	1240.0
1154.9	5°	1172.2	1187.9	1215.9	1242.2	1258.7	1268.9	1276.1	1280.3	1281.2	1283.3
1172.2	7.5°	1197.2	1222.2	1261.2	1287.5	1299.8	1299.0	1296.0	1285.4	1281.2	1277.3
1197.7	10°	1232.4	1265.5	1313.4	1331.6	1324.0	1303.6	1277.3	1246.4	1232.0	1218.0
1232.4	12.5°	1276.1	1318.0	1365.1	1364.2	1326.5	1274.4	1213.3	1165.9	1135.8	1114.2
1275.2	15°	1329.0	1377.4	1413.4	1384.6	1301.9	1208.3	1118.8	1057.0	1029.8	1006.1
1318.4	17.5°	1383.7	1435.4	1451.9	1378.2	1240.0	1110.4	1009.1	960.3	933.6	920.9
1365.1	20°	1437.1	1488.4	1474.8	1341.8	1146.0	999.3	909.1	882.4	876.8	879.8
1410.4	22.5°	1493.5	1539.3	1479.5	1271.4	1026.0	885.7	836.2	837.0	849.3	858.2
1457.9	25°	1551.1	1582.1	1467.2	1169.7	897.2	802.3	790.0	803.5	827.7	845.1
1511.3	27.5°	1606.6	1620.2	1440.5	1043.8	786.6	742.5	744.6	772.6	809.0	833.2
1576.1	30°	1669.4	1654.1	1389.2	902.3	709.9	691.2	709.0	741.7	778.1	799.7
1657.9	32.5°	1740.1	1683.3	1307.9	771.3	655.6	650.1	679.4	700.5	716.7	723.0
1766.4	35°	1828.3	1724.5	1203.6	679.4	606.9	620.0	648.0	637.4	631.0	627.7
1912.2	37.5°	1942.7	1780.0	1081.5	619.6	567.5	598.4	609.9	576.8	551.8	539.5
2088.9	40°	2080.4	1861.3	964.2	573.4	542.5	579.8	559.8	520.0	488.2	470.8
2287.7	42.5°	2233.4	1946.5	865.4	538.7	528.5	564.5	523.0	475.5	424.2	418.7
2524.6	45°	2394.1	2034.3	798.0	512.0	521.7	551.4	501.8	425.1	388.6	411.1
2762.3	47.5°	2554.7	2114.8	757.3	492.0	518.3	536.5	483.1	397.1	371.3	403.9
3017.0	50°	2733.5	2186.8	739.1	477.6	514.5	530.6	455.2	389.9	353.0	374.6
3280.7	52.5°	2911.1	2242.8	725.5	463.2	509.0	525.9	441.6	381.4	331.0	332.3
3546.0	55°	3088.2	2279.2	710.7	444.1	496.7	515.8	440.3	372.1	314.5	308.5
3826.5	57.5°	3277.3	2300.0	692.5	423.0	475.5	489.9	439.1	364.9	309.4	299.6
4113.4	60°	3469.7	2330.5	668.8	397.1	447.1	459.0	436.1	362.4	306.4	289.9
4383.8	62.5°	3642.2	2341.1	640.4	372.5	410.7	428.5	429.7	360.2	298.4	270.0
4608.4	65°	3755.3	2295.3	590.8	344.6	371.3	397.1	417.4	353.0	283.9	255.6
4719.5	67.5°	3750.7	2164.8	513.2	308.5	333.1	362.4	399.6	340.7	266.6	237.8
4635.6	70°	3576.0	1907.1	414.9	266.6	291.2	325.1	376.8	322.5	245.8	218.3
4121.9	72.5°	3067.1	1492.6	301.3	217.4	242.4	286.5	347.1	300.5	224.6	200.9
3046.3	75°	2191.1	944.7	204.3	167.0	188.6	242.8	310.2	274.6	205.1	201.7
1525.7	77.5°	1119.3	451.3	135.2	122.1	131.4	191.6	260.6	245.4	208.1	166.6
434.0	80°	364.0	166.6	85.2	83.1	87.3	127.6	201.7	201.3	157.7	113.2
105.1	82.5°	116.1	71.6	55.5	53.4	51.3	80.1	140.7	159.3	106.4	71.6
37.7	85°	46.2	42.8	32.6	30.1	21.6	37.7	73.7	106.0	79.3	51.7
9.7	87.5°	17.0	17.0	8.9	6.4	4.7	12.7	19.9	31.8	45.3	26.7
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>
1154.4
1243.9
1286.7
1278.2
1213.8
1109.1
1003.6
924.7
878.5
860.3
849.7
839.1
804.8
726.4
631.0
542.5
472.1
424.2
423.0
419.1
390.7
341.2
312.8
300.9
291.2
270.0
255.6
239.0
220.8
199.6
190.3
148.3
100.0
71.2
53.0
26.3
0.0

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