

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: P939305

Luminaire Tested: **GALN-SB1D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9063 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

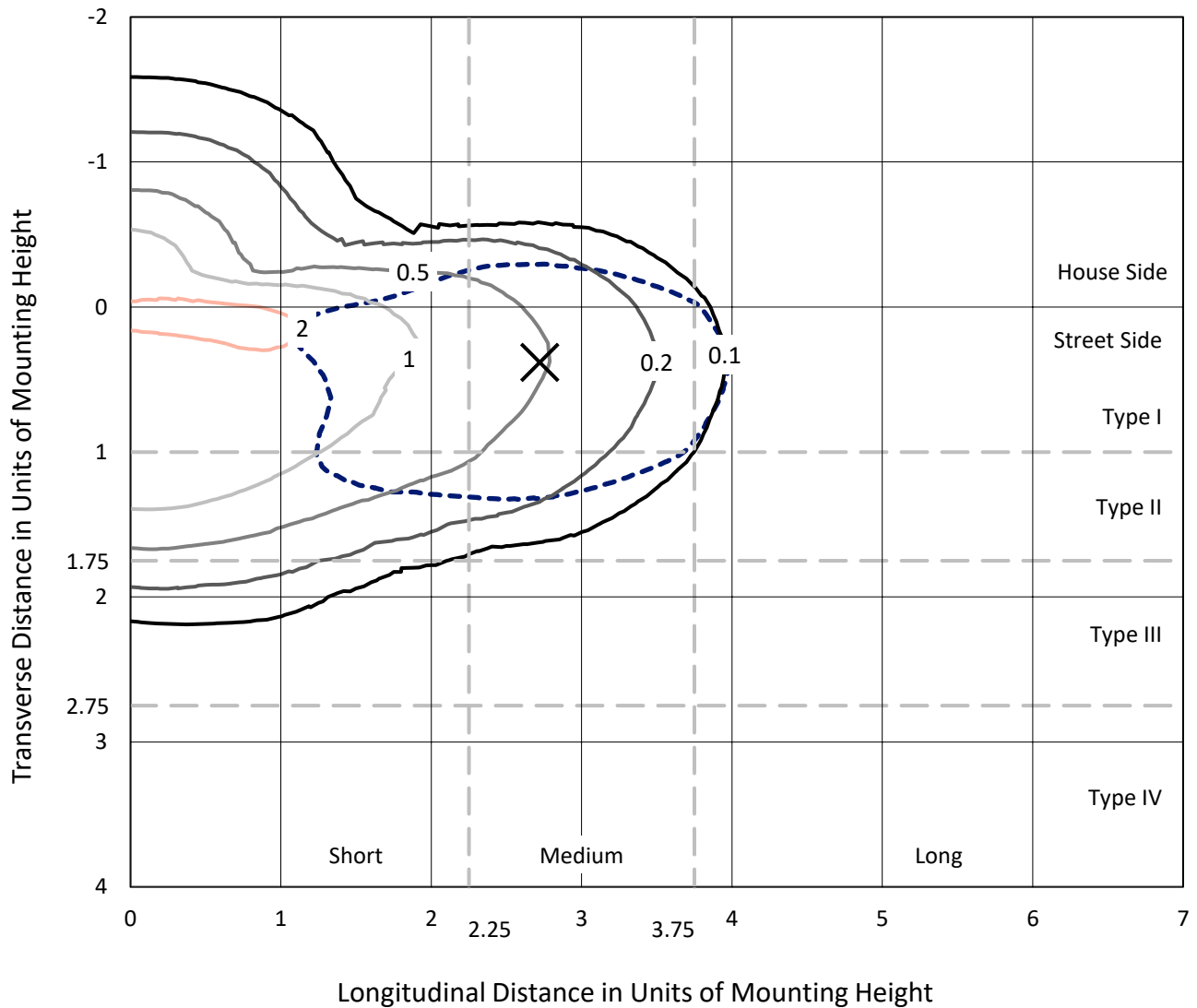
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

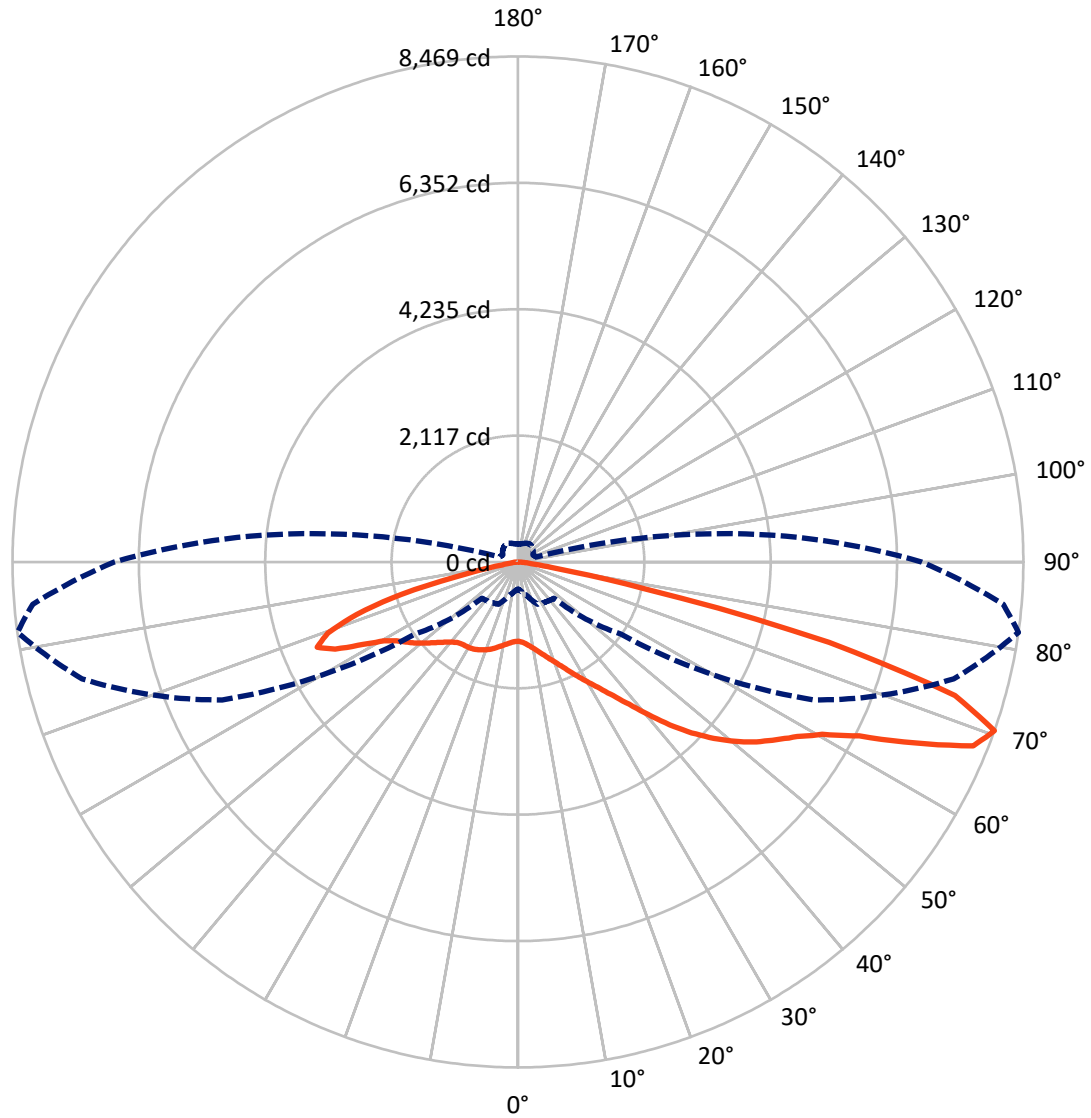
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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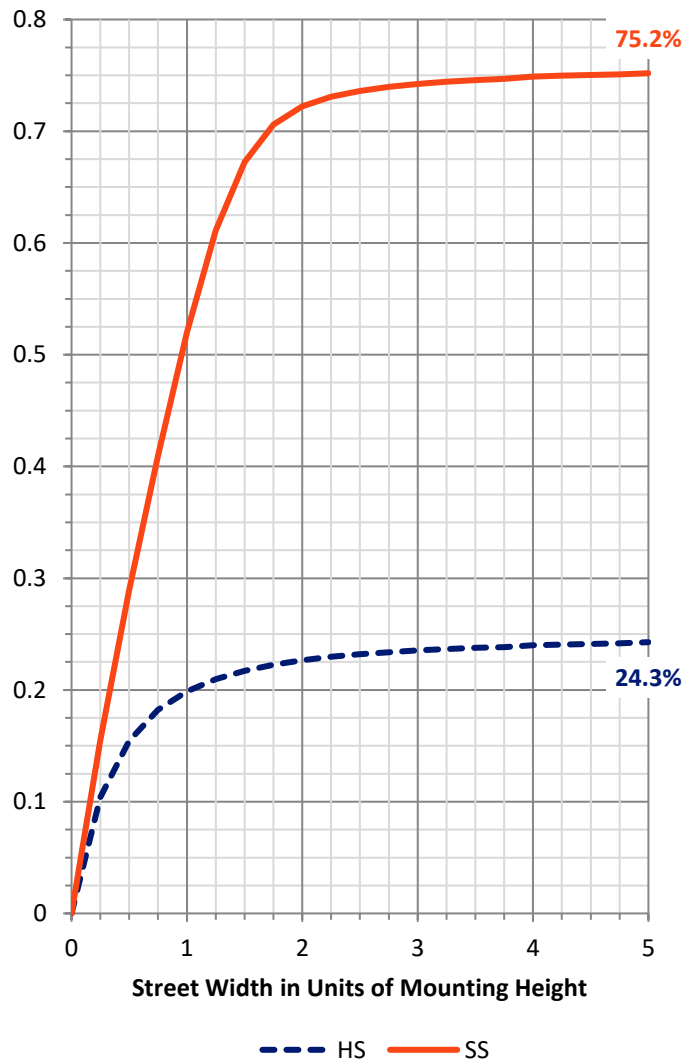
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2234.3	0.0	2234.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6828.7	0.0	6828.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	9063.0	0.0	9063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.4
10°-20°	360.4	4.0
20°-30°	603.0	6.7
30°-40°	942.0	10.4
40°-50°	1500.3	16.6
50°-60°	2087.8	23.0
60°-70°	2184.0	24.1
70°-80°	1141.5	12.6
80°-90°	118.5	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°	9063.0	100.0
0°-180°	9063.0	100.0

Coefficient of Utilization



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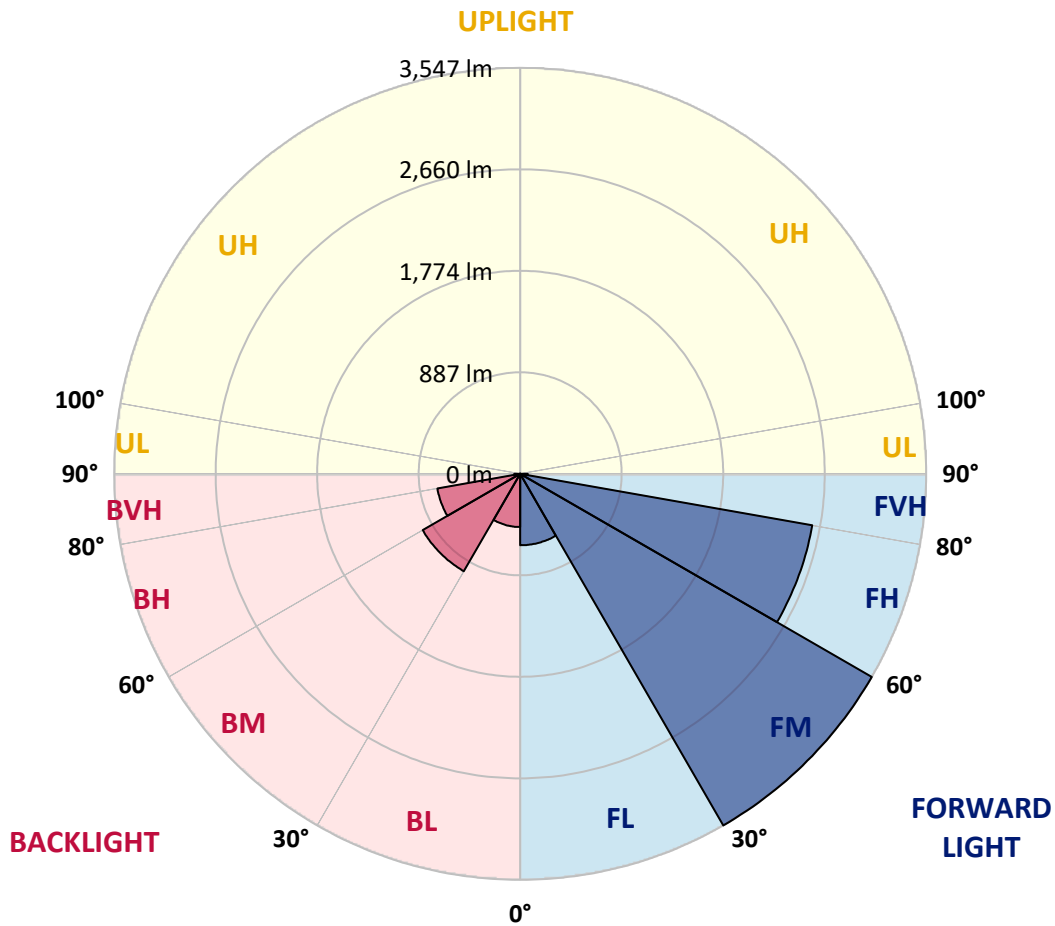
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.1	6.9			
FM (30°-60°)	3547.2	39.1			
FH (60°-80°)	2591.1	28.6			G2/5000
FVH (80°-90°)	66.4	0.7			G1/100
BL (0°-30°)	464.8	5.1	B1/500		
BM (30°-60°)	983.0	10.8	B1/1000		
BH (60°-80°)	734.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	52.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1360.5	1368.2	1365.8	1363.4	1363.4	1360.0	1359.5	1354.7	1350.9	1344.6
5°	1377.8	1386.0	1385.0	1386.9	1393.2	1394.6	1396.1	1393.2	1385.5	1377.8
7.5°	1362.4	1371.5	1374.4	1386.0	1405.2	1422.5	1435.5	1440.8	1433.6	1422.5
10°	1310.5	1320.6	1330.7	1358.1	1392.2	1433.1	1467.7	1488.4	1487.0	1476.4
12.5°	1205.2	1215.7	1237.4	1290.8	1353.3	1425.4	1489.9	1533.1	1548.0	1540.3
15°	1121.0	1130.1	1146.5	1201.3	1282.6	1392.2	1498.0	1582.2	1620.2	1615.9
17.5°	1118.6	1122.4	1132.5	1158.5	1221.0	1340.3	1489.4	1630.3	1702.9	1702.4
20°	1160.9	1162.4	1168.1	1173.4	1209.0	1300.9	1467.3	1670.2	1795.7	1795.7
22.5°	1219.6	1218.6	1224.4	1219.6	1236.9	1297.5	1453.3	1705.3	1899.1	1906.8
25°	1307.6	1302.8	1301.3	1290.3	1293.6	1328.7	1468.7	1745.2	2021.7	2037.6
27.5°	1424.9	1417.2	1411.9	1386.5	1377.8	1393.2	1515.8	1793.3	2158.3	2185.7
30°	1577.9	1563.9	1556.2	1512.0	1480.7	1483.1	1587.0	1857.3	2301.1	2345.4
32.5°	1786.6	1764.9	1744.3	1671.6	1614.4	1595.7	1678.9	1945.8	2456.0	2526.7
35°	2020.3	2003.0	1980.9	1868.8	1780.8	1737.5	1802.9	2069.3	2637.3	2749.4
37.5°	2245.4	2230.5	2241.0	2090.0	1976.5	1913.5	1965.5	2235.3	2860.9	3026.4
40°	2478.1	2466.6	2468.0	2323.7	2191.5	2120.8	2162.6	2443.5	3117.2	3355.8
42.5°	2731.1	2722.4	2693.6	2565.6	2417.0	2351.2	2389.6	2683.9	3392.3	3730.9
45°	3014.3	3009.0	2982.1	2835.4	2665.2	2591.1	2643.1	2949.4	3668.8	4083.9
47.5°	3259.1	3263.4	3260.1	3136.5	2960.0	2851.3	2913.3	3226.4	3926.1	4415.7
50°	3376.9	3399.5	3432.7	3394.2	3284.6	3174.0	3186.0	3493.8	4171.4	4726.8
52.5°	3315.4	3358.2	3448.6	3510.1	3552.5	3529.4	3497.2	3759.3	4402.2	5007.7
55°	3086.0	3146.1	3296.1	3444.7	3660.7	3828.5	3870.8	4053.6	4627.3	5254.9
57.5°	2668.1	2765.7	2900.4	3200.9	3564.5	3973.3	4306.5	4461.9	4865.8	5518.9
60°	1951.5	2082.3	2249.7	2696.9	3227.9	3895.8	4677.3	5089.0	5204.9	5860.8
62.5°	1248.9	1329.7	1483.6	1904.9	2515.1	3499.1	4790.8	5872.8	5779.6	6421.6
65°	855.1	907.0	1047.9	1284.5	1626.0	2604.6	4486.9	6460.5	6692.3	7310.3
67.5°	621.3	660.8	781.0	988.3	1059.4	1541.3	3481.8	6433.6	7579.6	8225.9
70°	453.0	480.9	581.9	781.0	815.1	857.5	2109.3	5468.9	7560.4	8469.3
72.5°	335.7	354.9	422.7	605.9	659.8	579.0	1044.1	3974.7	6496.6	7660.4
75°	242.9	257.3	307.3	463.6	528.0	441.0	520.8	2322.8	4531.6	5388.6
77.5°	185.6	196.7	229.4	339.5	422.7	330.9	323.2	1068.6	2148.7	2159.3
80°	149.1	156.3	174.1	239.0	324.1	247.7	210.6	431.4	679.0	574.7
82.5°	109.6	121.7	147.2	167.8	231.8	170.7	128.4	217.9	258.2	222.2
85°	62.5	70.7	89.0	120.2	148.1	104.4	73.6	96.7	120.2	98.6
87.5°	22.1	28.9	31.3	47.1	64.4	43.3	28.4	27.9	39.4	29.3
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°
1328.7	0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
1343.2	2.5°	1338.4	1336.0	1326.3	1313.4	1299.9	1286.9	1282.6	1273.4	1267.2	1263.8
1374.4	5°	1365.3	1357.6	1335.0	1306.1	1275.8	1243.1	1220.1	1198.9	1183.5	1169.1
1417.2	7.5°	1403.8	1390.3	1351.4	1300.9	1247.0	1192.7	1152.3	1121.5	1100.8	1087.3
1467.3	10°	1448.5	1427.8	1368.2	1292.7	1209.5	1131.6	1084.0	1057.5	1044.5	1037.3
1524.5	12.5°	1500.0	1470.6	1385.5	1273.9	1152.3	1063.3	1030.6	1022.9	1023.4	1023.9
1596.6	15°	1563.4	1522.6	1399.4	1233.0	1077.7	1010.9	1005.1	1017.6	1030.6	1036.8
1678.4	17.5°	1635.1	1577.4	1401.8	1165.7	1004.6	977.2	995.5	1022.4	1042.1	1050.8
1769.7	20°	1712.0	1633.2	1384.5	1070.5	944.5	949.8	982.5	1017.1	1038.8	1049.8
1874.1	22.5°	1800.0	1692.8	1343.2	970.5	895.5	920.0	958.4	992.1	1014.7	1025.8
1996.7	25°	1900.5	1759.6	1278.3	886.3	853.1	886.3	924.8	952.7	971.0	981.1
2133.8	27.5°	2012.1	1829.4	1191.7	819.5	816.1	851.7	883.4	905.1	914.7	922.4
2279.5	30°	2124.2	1892.9	1086.9	769.0	783.9	817.5	840.1	849.8	852.7	854.1
2442.1	32.5°	2245.4	1947.7	976.7	727.1	753.1	784.4	797.8	802.2	788.7	779.6
2639.2	35°	2392.0	2006.3	869.0	694.0	722.8	749.7	754.1	750.2	734.3	715.6
2886.4	37.5°	2573.3	2079.4	782.9	670.4	694.4	712.2	706.9	706.0	707.4	685.3
3183.6	40°	2795.5	2174.7	719.9	652.1	671.3	675.2	660.3	668.5	675.7	642.0
3509.7	42.5°	3042.2	2289.6	680.0	639.6	652.1	643.0	619.9	629.0	628.1	583.8
3837.2	45°	3293.7	2414.6	666.1	630.5	634.3	616.0	590.6	593.0	572.8	532.8
4151.2	47.5°	3543.8	2548.8	674.7	622.8	612.2	591.5	571.8	561.2	531.4	501.6
4452.2	50°	3789.1	2689.7	706.5	607.4	581.9	569.9	555.4	536.7	505.0	479.5
4736.9	52.5°	4016.5	2831.6	742.0	581.9	543.9	551.1	542.0	520.3	489.1	463.1
5006.3	55°	4232.0	2973.5	756.0	546.8	508.3	534.8	529.5	489.6	452.1	430.9
5288.1	57.5°	4466.7	3144.2	740.6	502.1	479.5	516.0	495.8	451.6	429.9	414.1
5655.0	60°	4791.8	3412.0	707.4	446.8	452.1	488.1	453.5	435.2	411.7	393.9
6205.2	62.5°	5331.8	3911.7	654.0	391.9	419.8	446.8	433.3	415.0	391.0	373.7
7145.8	65°	6130.1	4606.1	553.5	349.1	383.8	406.4	411.7	393.4	368.4	350.1
7970.1	67.5°	6803.4	5041.8	418.9	313.6	346.7	373.7	388.6	370.8	344.3	326.5
8162.9	70°	6766.4	4725.4	319.8	278.4	314.0	341.4	360.7	346.7	318.4	301.5
7414.6	72.5°	6009.9	3953.1	258.7	242.9	280.9	307.8	330.9	320.3	291.4	275.1
5431.9	75°	4415.2	2806.1	206.8	206.8	239.5	272.7	298.2	291.4	265.0	253.4
2280.5	77.5°	1861.1	1177.3	162.1	171.7	199.1	234.2	265.9	268.3	245.3	259.7
603.1	80°	494.9	324.6	123.6	135.1	156.3	193.3	231.3	230.4	205.3	191.9
224.1	82.5°	188.5	127.9	88.0	95.2	113.0	148.1	183.2	189.0	164.0	141.9
88.0	85°	72.6	54.8	54.3	57.2	65.9	98.1	138.5	143.3	123.6	104.8
24.5	87.5°	18.8	16.4	20.2	19.2	30.3	52.4	79.3	82.2	75.5	43.8
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>
1328.7
1267.7
1174.9
1090.2
1039.2
1024.8
1036.4
1052.7
1052.7
1028.7
983.9
925.3
857.5
782.4
716.6
686.7
643.0
583.3
534.3
501.6
477.5
463.6
429.0
412.6
392.9
373.7
351.1
327.0
303.0
275.1
250.1
235.6
178.4
141.9
108.2
62.5
0.0

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