

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: P946085

Luminaire Tested: **GALN-SB1D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946085
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-SB1D-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9269 lumens
Efficiency: N/A
Efficacy: 116.4 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

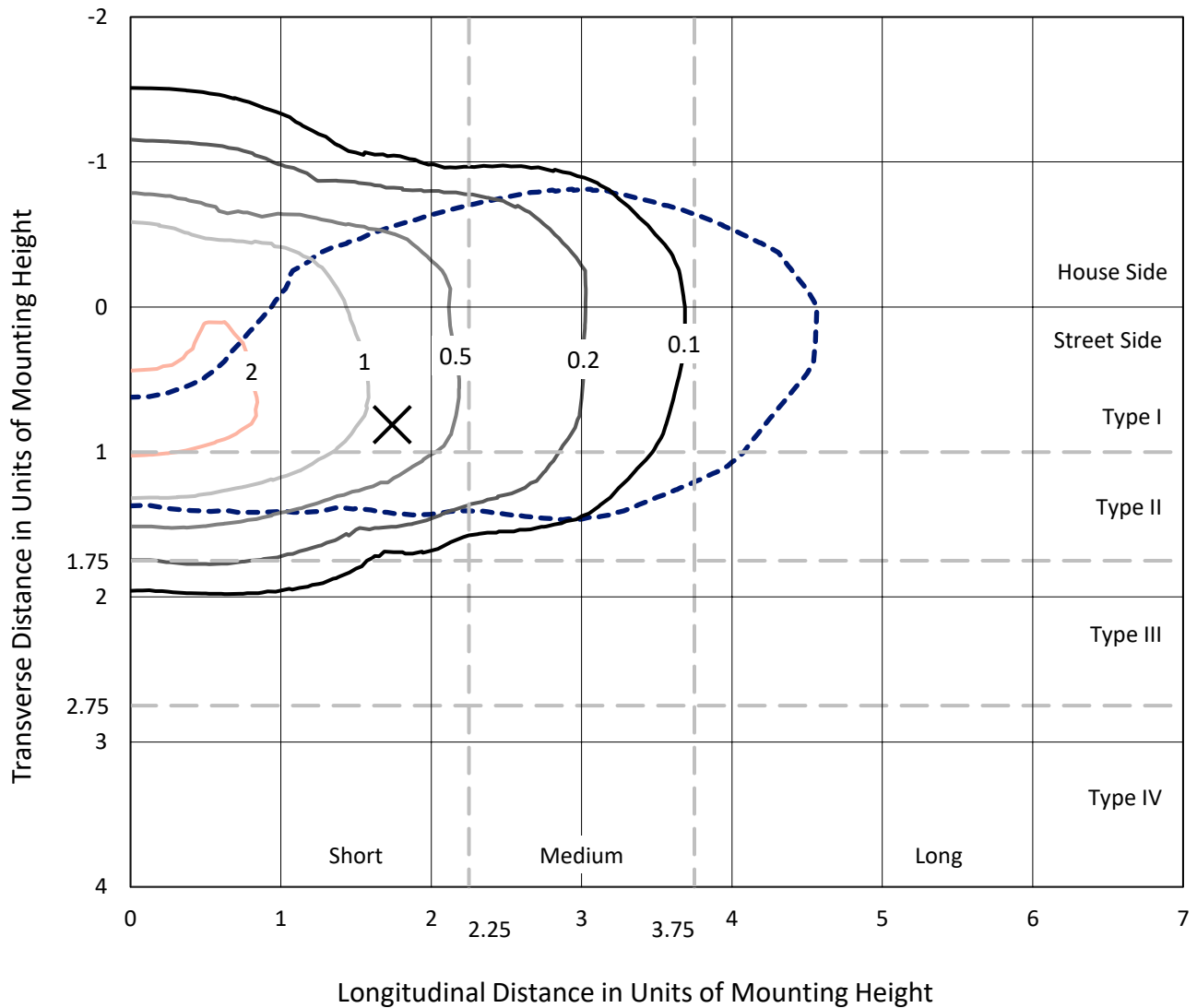
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

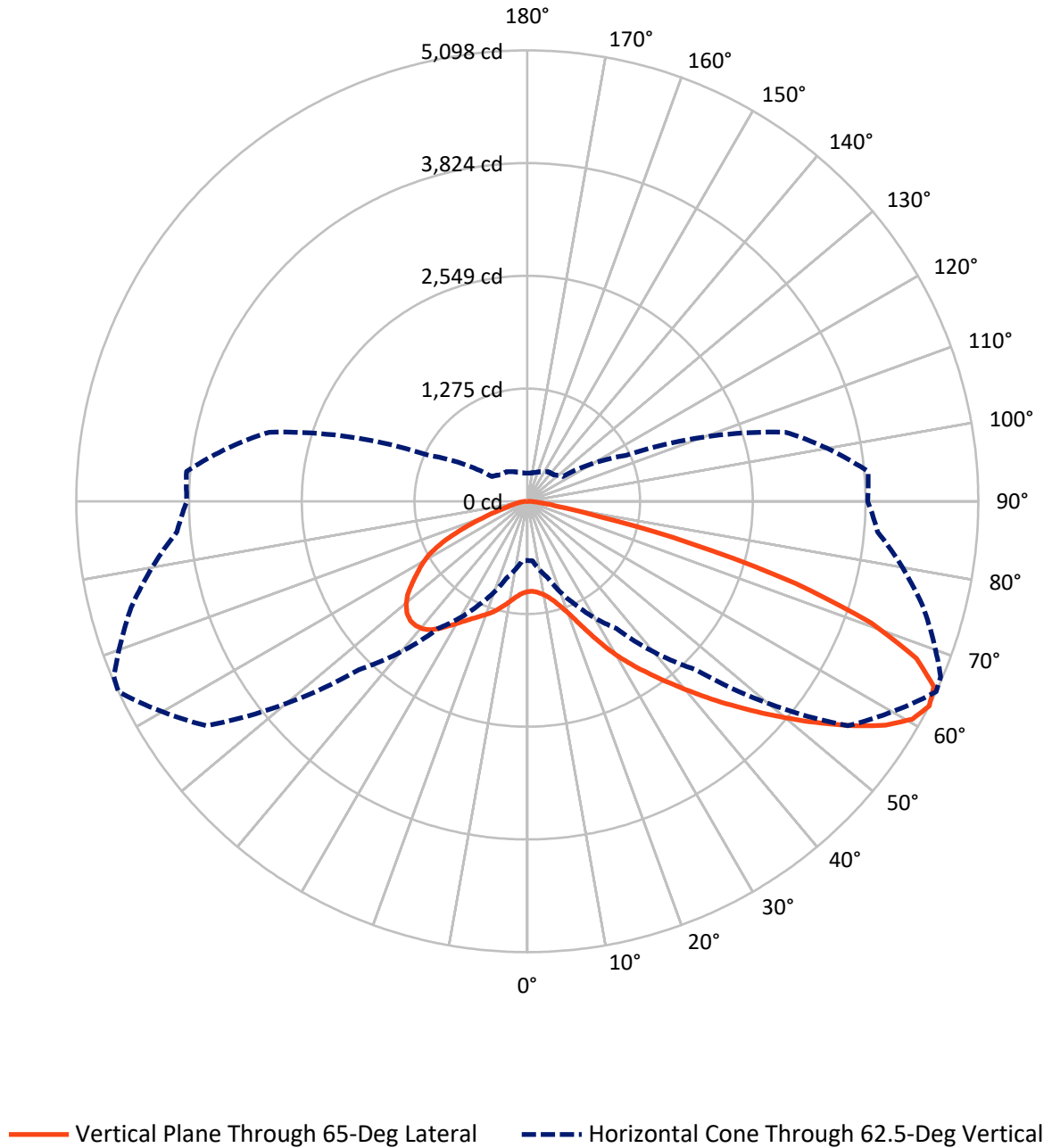
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2924.9	0.0	2924.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6344.1	0.0	6344.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	9269.0	0.0	9269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.1
10°-20°	345.3	3.7
20°-30°	700.2	7.6
30°-40°	1211.7	13.1
40°-50°	1833.6	19.8
50°-60°	2149.8	23.2
60°-70°	1802.3	19.4
70°-80°	995.0	10.7
80°-90°	129.2	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°	9269.0	100.0
0°-180°	9269.0	100.0

Coefficient of Utilization

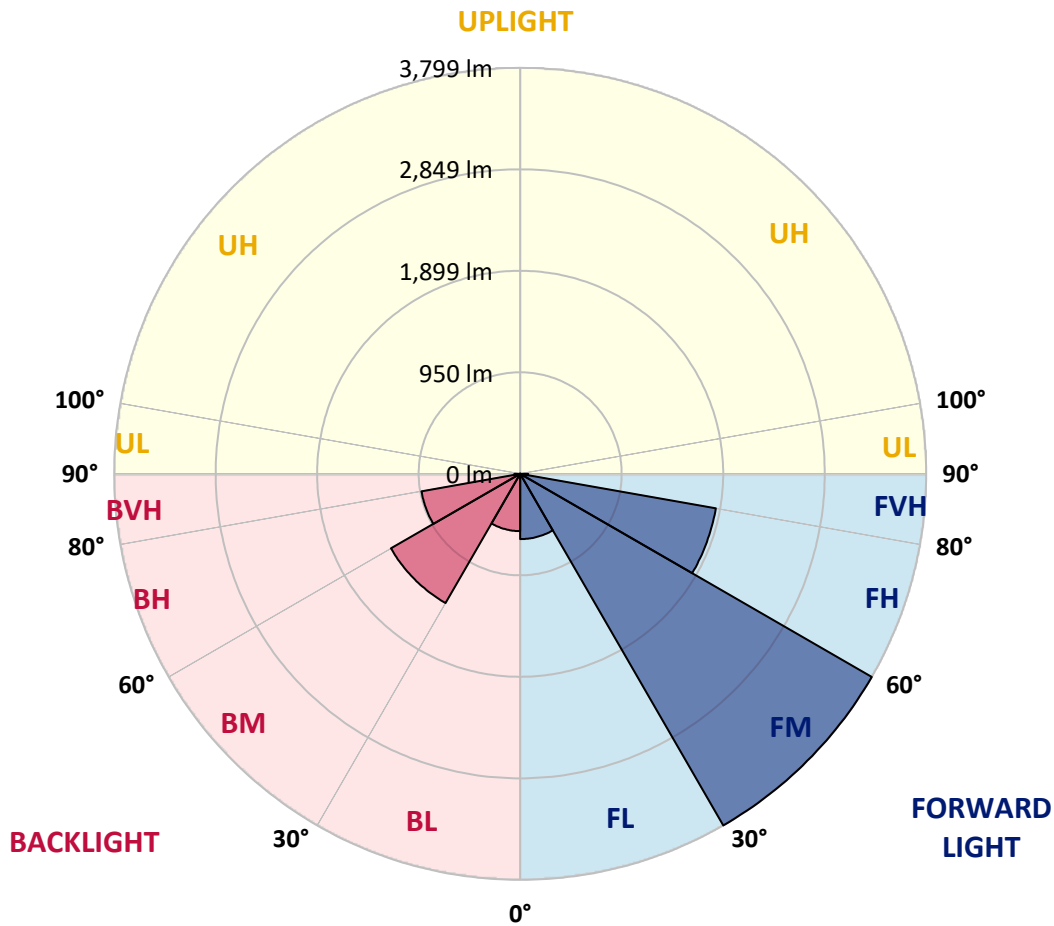


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.0	6.6			
FM (30°-60°)	3798.7	41.0			
FH (60°-80°)	1859.1	20.1			G2/5000
FVH (80°-90°)	75.3	0.8			G1/100
BL (0°-30°)	536.4	5.8	B2/1000		
BM (30°-60°)	1396.3	15.1	B2/2500		
BH (60°-80°)	938.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	53.9	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°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1014.7	1011.8	1014.2	1014.2	1015.2	1014.7	1018.0	1019.0	1020.4	1023.3
5°	1004.6	1004.1	1008.4	1012.3	1016.1	1019.5	1023.8	1030.1	1031.0	1034.4
7.5°	1001.2	998.3	1005.1	1009.9	1019.0	1027.2	1038.7	1049.3	1053.6	1055.1
10°	1027.2	1022.4	1028.6	1031.5	1039.2	1047.4	1060.8	1077.7	1082.5	1088.2
12.5°	1071.4	1066.1	1075.3	1079.6	1086.8	1094.0	1103.2	1119.5	1121.9	1132.5
15°	1132.0	1125.8	1131.5	1136.8	1148.8	1155.6	1164.7	1180.6	1180.6	1188.8
17.5°	1214.2	1206.1	1210.4	1212.3	1220.0	1230.1	1245.5	1259.4	1266.7	1263.8
20°	1336.9	1326.8	1326.8	1317.1	1314.3	1322.4	1342.6	1361.9	1369.6	1354.7
22.5°	1521.0	1506.6	1498.4	1465.7	1452.8	1453.7	1473.9	1497.5	1503.7	1477.3
25°	1755.2	1732.6	1721.6	1673.5	1644.2	1618.7	1634.5	1664.8	1673.5	1640.8
27.5°	1989.4	1990.9	1980.3	1922.6	1874.0	1827.4	1819.2	1850.9	1860.1	1823.0
30°	2317.9	2283.7	2263.5	2194.3	2125.0	2059.6	2026.0	2039.0	2041.4	1997.1
32.5°	2601.1	2592.5	2549.2	2488.6	2399.6	2297.2	2240.9	2220.3	2216.4	2153.4
35°	2923.8	2919.0	2873.3	2801.2	2705.0	2562.6	2461.2	2402.0	2397.2	2308.7
37.5°	3251.8	3251.8	3207.0	3128.2	3028.6	2850.7	2696.3	2602.6	2587.2	2471.8
40°	3513.4	3497.5	3505.7	3472.5	3358.5	3169.5	2957.5	2821.4	2800.7	2662.2
42.5°	3662.0	3656.7	3705.7	3742.7	3696.1	3545.1	3245.0	3058.4	3029.6	2871.9
45°	3695.1	3689.4	3776.9	3912.5	3977.9	3915.9	3557.6	3308.0	3272.9	3091.1
47.5°	3618.7	3607.1	3735.5	3949.5	4159.2	4268.4	3896.1	3578.8	3527.8	3304.7
50°	3388.8	3377.7	3572.0	3856.2	4220.3	4507.8	4263.5	3865.8	3787.9	3533.6
52.5°	2889.2	2894.5	3198.9	3589.3	4140.0	4656.9	4580.0	4168.3	4074.6	3767.7
55°	2250.6	2262.1	2636.2	3066.1	3818.7	4634.3	4795.9	4479.9	4386.6	3988.0
57.5°	1611.5	1662.4	2013.0	2438.6	3201.7	4276.0	4843.0	4776.2	4685.8	4228.4
60°	1044.5	1053.6	1414.3	1843.2	2438.1	3639.4	4747.3	5000.7	4930.1	4473.7
62.5°	669.4	675.6	895.4	1289.3	1754.8	2692.5	4425.1	5098.4	5076.7	4635.7
65°	491.9	487.1	601.6	852.1	1182.0	1660.5	3799.5	5051.2	5094.0	4737.2
67.5°	410.7	403.9	460.2	590.0	870.9	943.0	2811.3	4744.9	4901.7	4725.7
70°	374.1	368.4	402.5	438.1	679.5	631.4	1417.2	4125.0	4366.5	4594.4
72.5°	316.9	306.8	353.5	389.0	528.5	484.3	585.7	3168.6	3462.9	4173.6
75°	245.7	239.0	278.9	342.4	397.2	378.0	370.3	1924.0	2245.3	3227.7
77.5°	194.8	185.6	222.2	266.9	357.3	285.2	269.8	828.6	1146.9	2060.6
80°	146.7	138.5	168.8	211.1	274.6	215.0	174.6	338.1	432.3	1044.0
82.5°	104.4	97.1	117.8	154.8	184.7	192.8	107.2	189.5	213.0	402.5
85°	66.8	62.5	78.9	97.1	117.3	124.1	65.4	99.1	108.7	165.9
87.5°	36.5	29.8	42.3	45.2	54.3	49.5	31.3	36.1	39.0	60.1
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°
1021.4	0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
1023.3	2.5°	1025.3	1026.7	1031.5	1032.9	1036.3	1040.6	1043.5	1046.4	1046.4	1049.3
1038.7	5°	1039.2	1042.6	1052.7	1058.0	1066.6	1075.3	1080.6	1086.8	1090.7	1092.6
1063.2	7.5°	1066.1	1071.4	1085.8	1095.0	1109.9	1121.9	1130.1	1138.7	1140.7	1146.0
1097.4	10°	1102.7	1108.9	1125.3	1142.6	1160.4	1175.3	1183.0	1189.2	1191.6	1192.6
1141.1	12.5°	1144.5	1153.6	1174.8	1196.0	1214.7	1227.7	1229.6	1228.2	1221.5	1215.7
1195.0	15°	1196.0	1204.1	1227.7	1250.8	1269.1	1271.5	1259.4	1251.7	1243.6	1242.1
1255.1	17.5°	1257.5	1261.8	1283.5	1306.1	1307.5	1299.4	1281.6	1274.4	1266.7	1261.4
1333.5	20°	1329.2	1327.7	1343.1	1352.7	1342.6	1317.6	1290.7	1278.7	1271.0	1264.7
1429.7	22.5°	1414.8	1403.7	1401.8	1399.4	1372.5	1320.0	1283.5	1268.1	1256.1	1247.4
1563.8	25°	1539.3	1497.0	1467.7	1451.3	1390.7	1307.1	1260.4	1226.3	1203.7	1188.8
1727.8	27.5°	1695.1	1624.0	1549.9	1510.0	1390.7	1280.6	1204.6	1149.3	1112.3	1096.9
1886.5	30°	1843.7	1769.2	1660.0	1580.7	1387.4	1237.3	1114.7	1037.8	994.5	979.1
2022.1	32.5°	1970.7	1889.4	1776.9	1658.1	1379.2	1167.1	1003.1	918.0	876.2	857.9
2156.3	35°	2088.5	2001.9	1894.2	1743.2	1357.5	1064.2	880.5	815.6	768.9	739.6
2292.9	37.5°	2209.2	2106.3	2005.3	1820.2	1318.6	944.0	786.2	730.9	676.1	636.7
2438.1	40°	2340.5	2217.4	2124.1	1865.8	1254.6	829.5	713.2	662.7	604.5	562.6
2605.4	42.5°	2493.9	2350.6	2256.3	1889.4	1167.1	748.3	665.5	616.0	561.2	527.1
2784.8	45°	2654.0	2497.2	2377.0	1888.9	1069.5	710.3	650.2	601.1	540.5	504.9
2969.0	47.5°	2821.8	2650.6	2481.4	1858.1	984.9	715.6	641.5	568.9	502.0	467.4
3155.1	50°	2990.2	2818.5	2582.4	1800.4	948.8	704.0	609.3	523.7	444.8	413.6
3329.7	52.5°	3157.0	2996.9	2669.4	1718.2	912.2	661.2	567.9	465.0	421.3	399.6
3510.0	55°	3324.9	3173.4	2764.1	1598.5	820.9	611.2	498.7	442.9	402.5	382.8
3686.5	57.5°	3493.2	3377.3	2854.1	1478.7	705.9	549.7	460.7	416.0	383.7	366.9
3834.1	60°	3668.2	3610.5	2946.9	1368.6	592.5	470.8	432.8	394.3	361.6	342.9
3976.0	62.5°	3848.5	3867.3	3019.5	1226.7	488.1	422.7	407.8	368.4	336.6	318.8
4093.3	65°	4030.3	4114.9	3067.1	1030.1	395.8	377.0	380.9	340.0	307.8	292.4
4179.4	67.5°	4167.4	4293.4	3053.6	779.5	324.6	333.7	347.2	310.2	279.9	267.9
4165.4	70°	4182.8	4272.2	2920.9	533.8	271.7	291.4	309.7	280.8	249.6	240.9
3969.2	72.5°	3977.9	3983.7	2551.1	348.6	229.9	255.8	270.3	251.0	220.7	212.1
3472.5	75°	3440.7	3294.6	1873.1	229.9	192.4	219.8	233.2	219.8	190.4	192.4
2598.2	77.5°	2606.9	2333.3	1137.3	163.5	160.6	184.7	202.9	193.3	168.3	189.0
1306.6	80°	1343.1	1262.3	507.3	122.1	127.0	147.6	166.9	154.4	133.2	127.0
291.9	82.5°	307.8	357.8	200.0	87.5	91.8	106.3	127.4	115.9	95.7	80.8
121.7	85°	107.7	117.8	88.5	54.8	53.9	66.4	86.6	77.4	64.9	51.9
51.5	87.5°	34.1	44.7	33.2	22.1	23.1	29.8	39.9	36.5	30.3	19.7
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>
1021.4
1049.3
1093.5
1144.0
1190.2
1215.7
1242.1
1261.8
1265.2
1250.3
1194.5
1104.6
988.2
867.0
749.2
647.3
570.8
533.8
510.7
472.2
415.5
399.6
380.9
364.0
341.4
318.3
291.9
268.3
241.4
211.6
185.6
166.4
115.9
79.8
54.8
20.7
0.0

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