

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: P945791

Luminaire Tested: **GALN-SB1C-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945791
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-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7262 lumens
Efficiency: N/A
Efficacy: 133.5 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

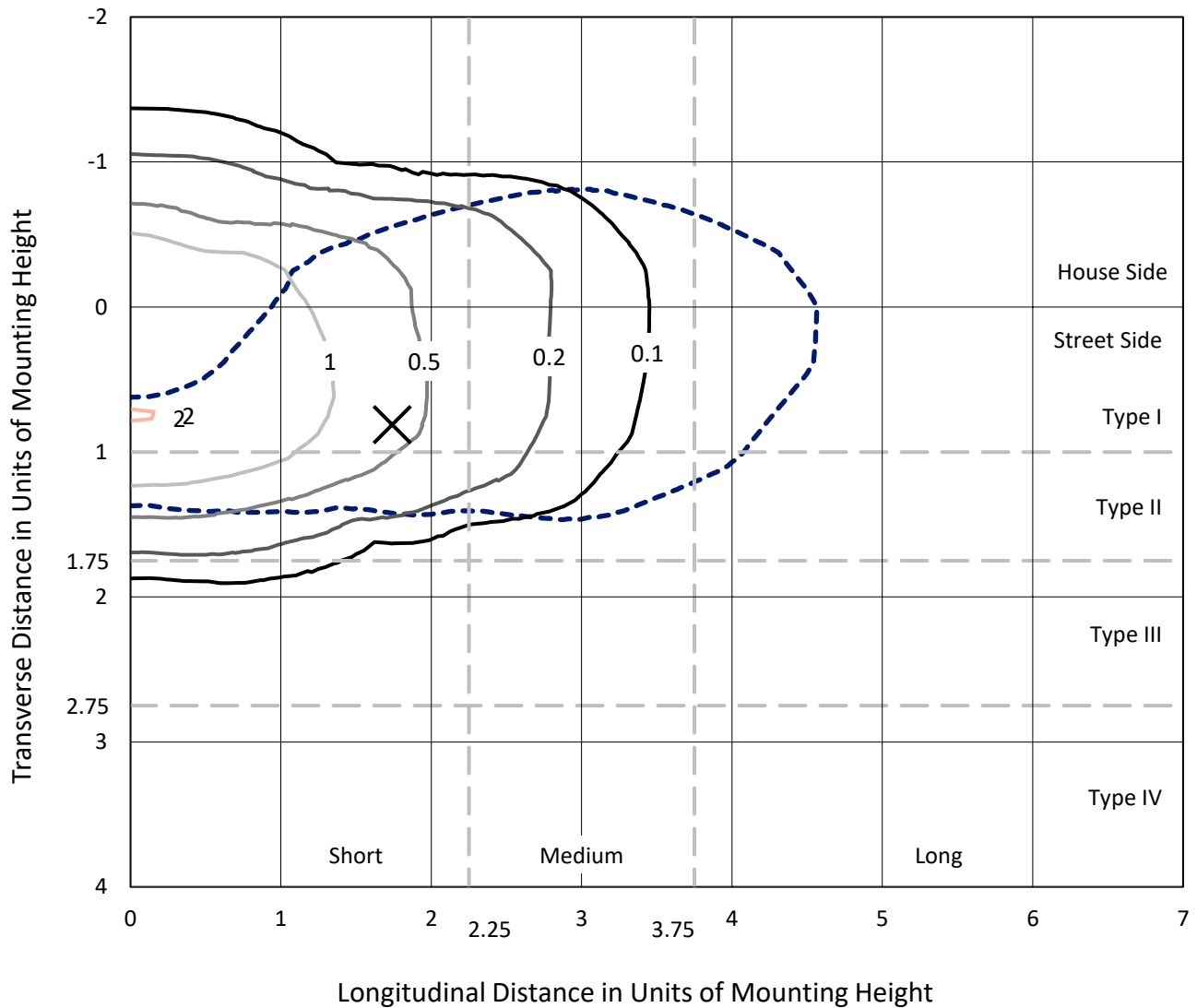
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

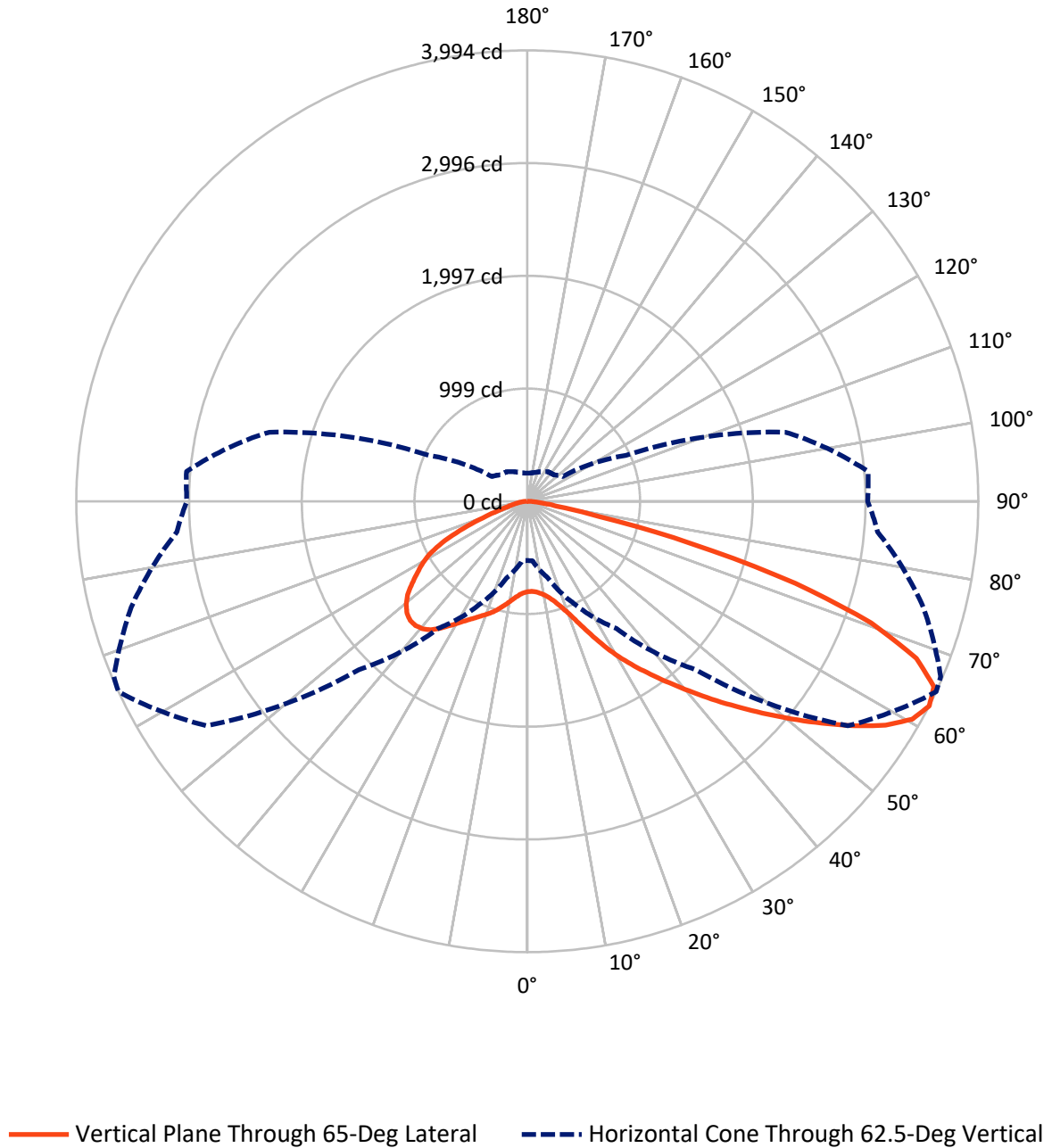
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	2291.6	0.0	2291.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4970.4	0.0	4970.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	7262.0	0.0	7262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.1
10°-20°	270.6	3.7
20°-30°	548.6	7.6
30°-40°	949.3	13.1
40°-50°	1436.6	19.8
50°-60°	1684.3	23.2
60°-70°	1412.1	19.4
70°-80°	779.6	10.7
80°-90°	101.3	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°	7262.0	100.0
0°-180°	7262.0	100.0

Coefficient of Utilization



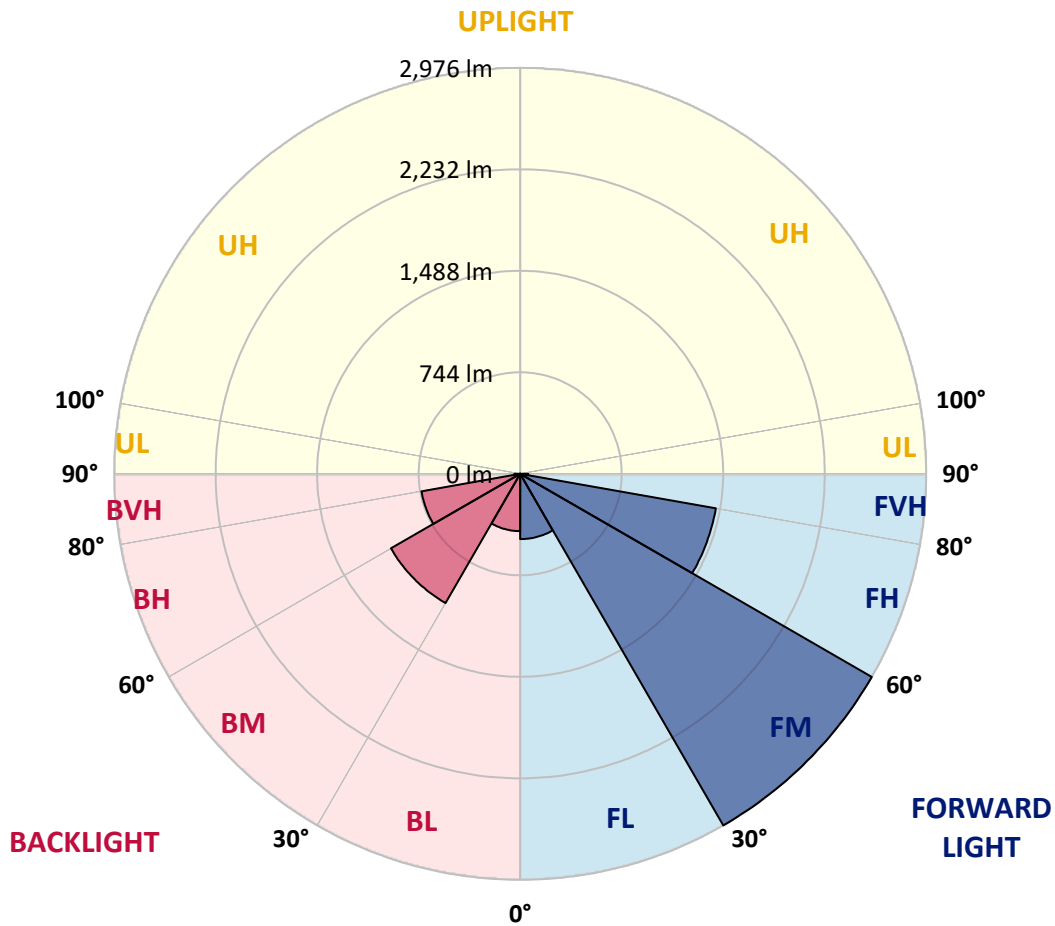
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.7	6.6			
FM (30°-60°)	2976.2	41.0			
FH (60°-80°)	1456.5	20.1			G1/1800
FVH (80°-90°)	59.0	0.8			G1/100
BL (0°-30°)	420.2	5.8	B1/500		
BM (30°-60°)	1094.0	15.1	B2/2500		
BH (60°-80°)	735.1	10.1	B2/1000		G2/1000
BVH (80°-90°)	42.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2
2.5°	795.0	792.7	794.6	794.6	795.3	795.0	797.6	798.4	799.5	801.7
5°	787.1	786.7	790.1	793.1	796.1	798.7	802.1	807.0	807.8	810.4
7.5°	784.4	782.2	787.4	791.2	798.4	804.8	813.8	822.1	825.5	826.6
10°	804.8	801.0	805.9	808.2	814.2	820.6	831.1	844.3	848.1	852.6
12.5°	839.4	835.3	842.4	845.8	851.5	857.1	864.3	877.1	879.0	887.3
15°	886.9	882.0	886.5	890.7	900.1	905.4	912.5	924.9	924.9	931.4
17.5°	951.3	944.9	948.3	949.8	955.8	963.8	975.8	986.7	992.4	990.1
20°	1047.4	1039.5	1039.5	1031.9	1029.7	1036.1	1051.9	1067.0	1073.0	1061.3
22.5°	1191.7	1180.4	1174.0	1148.4	1138.2	1138.9	1154.8	1173.2	1178.1	1157.4
25°	1375.2	1357.5	1348.8	1311.1	1288.1	1268.2	1280.6	1304.3	1311.1	1285.5
27.5°	1558.7	1559.8	1551.5	1506.3	1468.2	1431.7	1425.3	1450.2	1457.3	1428.3
30°	1816.0	1789.2	1773.4	1719.2	1664.9	1613.7	1587.3	1597.5	1599.4	1564.7
32.5°	2037.9	2031.1	1997.2	1949.7	1880.0	1799.8	1755.7	1739.5	1736.5	1687.1
35°	2290.7	2286.9	2251.1	2194.6	2119.3	2007.8	1928.3	1881.9	1878.2	1808.8
37.5°	2547.7	2547.7	2512.6	2450.8	2372.8	2233.4	2112.5	2039.0	2027.0	1936.6
40°	2752.6	2740.2	2746.6	2720.6	2631.3	2483.2	2317.1	2210.5	2194.3	2085.8
42.5°	2869.0	2864.9	2903.3	2932.3	2895.8	2777.5	2542.4	2396.2	2373.6	2250.0
45°	2895.0	2890.5	2959.1	3065.3	3116.6	3068.0	2787.3	2591.7	2564.2	2421.8
47.5°	2835.1	2826.1	2926.7	3094.3	3258.6	3344.1	3052.5	2803.9	2763.9	2589.1
50°	2655.0	2646.4	2798.6	3021.2	3306.5	3531.8	3340.4	3028.8	2967.7	2768.4
52.5°	2263.6	2267.7	2506.2	2812.1	3243.5	3648.6	3588.3	3265.8	3192.3	2951.9
55°	1763.2	1772.3	2065.4	2402.2	2991.9	3630.8	3757.4	3509.9	3436.8	3124.5
57.5°	1262.5	1302.5	1577.1	1910.6	2508.5	3350.2	3794.4	3742.0	3671.2	3312.9
60°	818.3	825.5	1108.1	1444.1	1910.2	2851.3	3719.4	3917.9	3862.6	3505.0
62.5°	524.5	529.3	701.5	1010.1	1374.8	2109.5	3467.0	3994.4	3977.5	3632.0
65°	385.4	381.7	471.3	667.6	926.1	1301.0	2976.8	3957.5	3991.0	3711.5
67.5°	321.8	316.5	360.6	462.3	682.3	738.8	2202.5	3717.5	3840.3	3702.4
70°	293.1	288.6	315.3	343.2	532.4	494.7	1110.3	3231.9	3421.0	3599.6
72.5°	248.3	240.4	276.9	304.8	414.1	379.4	458.9	2482.5	2713.1	3269.9
75°	192.5	187.3	218.5	268.3	311.2	296.1	290.1	1507.4	1759.1	2528.8
77.5°	152.6	145.4	174.1	209.1	279.9	223.4	211.4	649.2	898.6	1614.4
80°	114.9	108.5	132.2	165.4	215.1	168.4	136.8	264.9	338.7	817.9
82.5°	81.8	76.1	92.3	121.3	144.7	151.1	84.0	148.4	166.9	315.3
85°	52.4	49.0	61.8	76.1	91.9	97.2	51.2	77.6	85.1	130.0
87.5°	28.6	23.4	33.2	35.4	42.6	38.8	24.5	28.3	30.5	47.1
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°
800.2	0°	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2
801.7	2.5°	803.3	804.4	808.2	809.3	811.9	815.3	817.6	819.8	819.8	822.1
813.8	5°	814.2	816.8	824.7	828.9	835.7	842.4	846.6	851.5	854.5	856.0
833.0	7.5°	835.3	839.4	850.7	857.9	869.6	879.0	885.4	892.2	893.7	897.8
859.8	10°	863.9	868.8	881.6	895.2	909.1	920.8	926.8	931.7	933.6	934.4
894.1	12.5°	896.7	903.9	920.4	937.0	951.7	961.9	963.4	962.2	957.0	952.5
936.3	15°	937.0	943.4	961.9	980.0	994.3	996.2	986.7	980.7	974.3	973.2
983.3	17.5°	985.2	988.6	1005.6	1023.3	1024.4	1018.0	1004.1	998.4	992.4	988.2
1044.8	20°	1041.4	1040.2	1052.3	1059.8	1051.9	1032.3	1011.2	1001.8	995.8	990.9
1120.1	22.5°	1108.4	1099.8	1098.3	1096.4	1075.3	1034.2	1005.6	993.5	984.1	977.3
1225.2	25°	1206.0	1172.9	1149.9	1137.1	1089.6	1024.0	987.5	960.7	943.0	931.4
1353.7	27.5°	1328.1	1272.3	1214.3	1183.0	1089.6	1003.3	943.8	900.5	871.4	859.4
1478.0	30°	1444.5	1386.1	1300.6	1238.4	1087.0	969.4	873.3	813.1	779.1	767.1
1584.3	32.5°	1544.0	1480.3	1392.1	1299.1	1080.6	914.4	785.9	719.2	686.5	672.1
1689.4	35°	1636.3	1568.5	1484.1	1365.8	1063.6	833.8	689.8	639.0	602.4	579.5
1796.4	37.5°	1730.8	1650.2	1571.1	1426.0	1033.1	739.6	616.0	572.7	529.7	498.8
1910.2	40°	1833.7	1737.2	1664.2	1461.8	983.0	649.9	558.7	519.2	473.6	440.8
2041.3	42.5°	1953.9	1841.6	1767.8	1480.3	914.4	586.2	521.4	482.6	439.7	412.9
2181.8	45°	2079.3	1956.5	1862.3	1479.9	837.9	556.5	509.4	471.0	423.5	395.6
2326.1	47.5°	2210.8	2076.7	1944.1	1455.8	771.6	560.6	502.6	445.7	393.3	366.2
2471.9	50°	2342.7	2208.2	2023.2	1410.6	743.3	551.6	477.4	410.3	348.5	324.0
2608.7	52.5°	2473.4	2348.0	2091.4	1346.2	714.7	518.0	445.0	364.3	330.0	313.1
2750.0	55°	2604.9	2486.2	2165.6	1252.4	643.1	478.9	390.7	347.0	315.3	299.9
2888.3	57.5°	2736.8	2646.0	2236.1	1158.5	553.1	430.6	360.9	325.9	300.7	287.5
3003.9	60°	2873.9	2828.7	2308.8	1072.3	464.2	368.8	339.1	308.9	283.3	268.6
3115.1	62.5°	3015.2	3029.9	2365.7	961.1	382.4	331.2	319.5	288.6	263.7	249.8
3207.0	65°	3157.6	3223.9	2403.0	807.0	310.1	295.4	298.4	266.4	241.1	229.1
3274.4	67.5°	3265.0	3363.7	2392.4	610.7	254.3	261.5	272.0	243.0	219.3	209.9
3263.5	70°	3277.1	3347.1	2288.4	418.2	212.9	228.3	242.6	220.0	195.5	188.8
3109.8	72.5°	3116.6	3121.1	1998.7	273.2	180.1	200.4	211.7	196.7	172.9	166.2
2720.6	75°	2695.7	2581.2	1467.5	180.1	150.7	172.2	182.7	172.2	149.2	150.7
2035.6	77.5°	2042.4	1828.0	891.0	128.1	125.8	144.7	159.0	151.5	131.9	148.1
1023.7	80°	1052.3	989.0	397.5	95.7	99.5	115.7	130.7	120.9	104.4	99.5
228.7	82.5°	241.1	280.3	156.7	68.6	72.0	83.3	99.8	90.8	75.0	63.3
95.3	85°	84.4	92.3	69.3	43.0	42.2	52.0	67.8	60.7	50.9	40.7
40.3	87.5°	26.8	35.0	26.0	17.3	18.1	23.4	31.3	28.6	23.7	15.4
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

180°
800.2
822.1
856.8
896.3
932.5
952.5
973.2
988.6
991.3
979.6
935.9
865.4
774.2
679.3
587.0
507.1
447.2
418.2
400.1
370.0
325.5
313.1
298.4
285.2
267.5
249.4
228.7
210.2
189.1
165.8
145.4
130.4
90.8
62.5
43.0
16.2
0.0

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