

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: P946467

Luminaire Tested: **GALN-SB2A-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8304 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

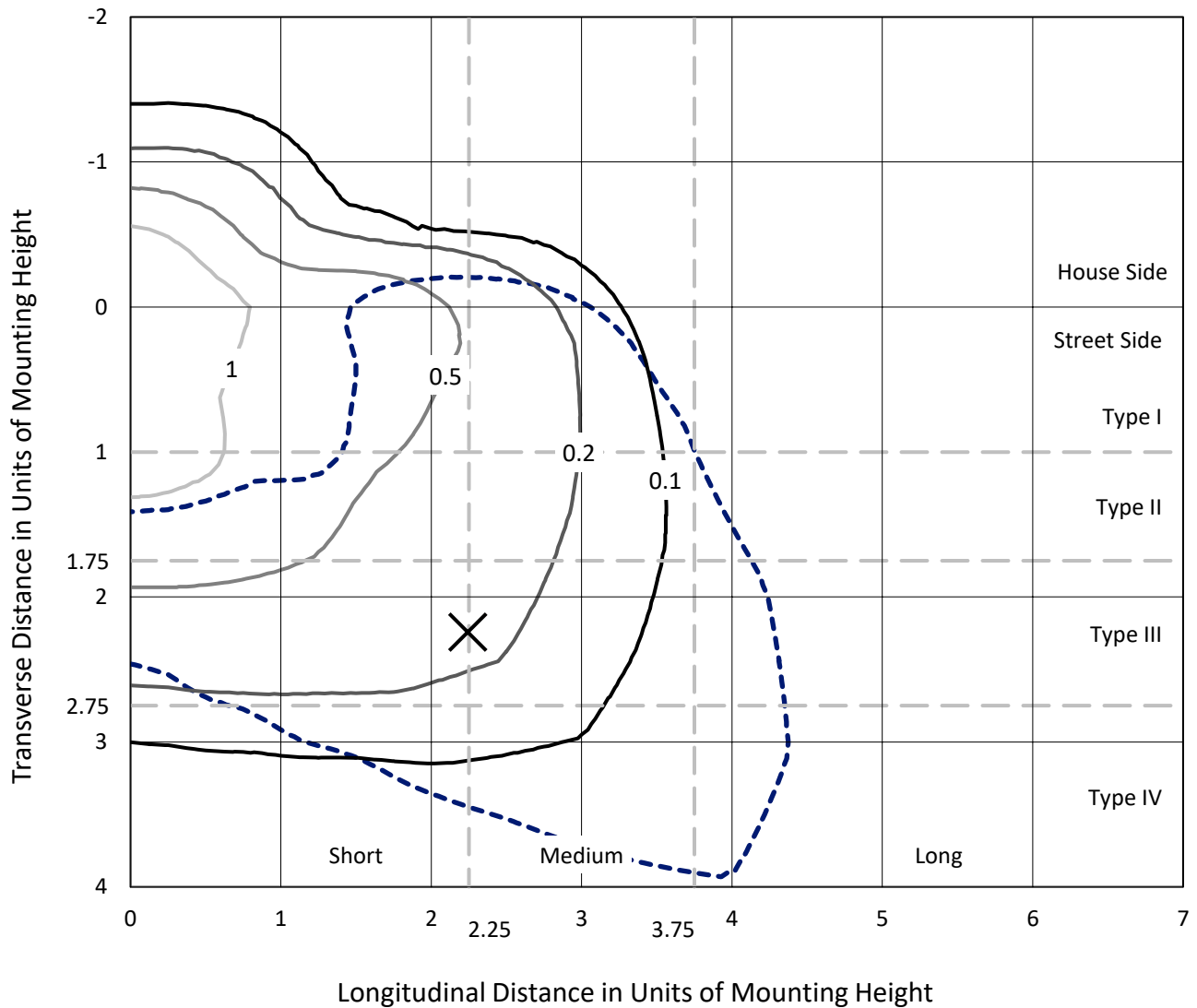
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

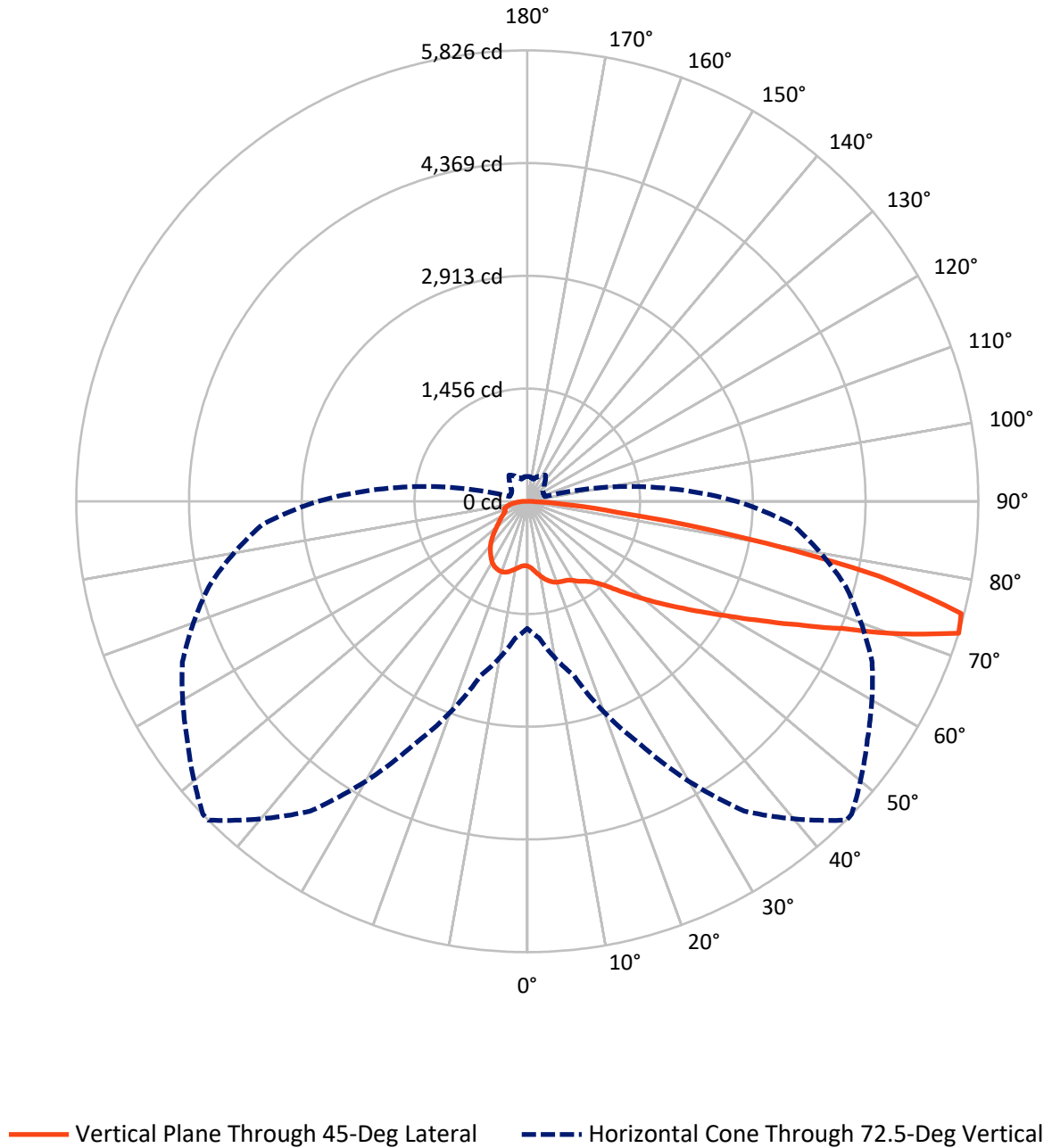
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.2	0.0	1877.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6426.8	0.0	6426.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	8304.0	0.0	8304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	1.0
10°-20°	284.3	3.4
20°-30°	494.5	6.0
30°-40°	708.9	8.5
40°-50°	998.2	12.0
50°-60°	1528.9	18.4
60°-70°	2214.9	26.7
70°-80°	1768.7	21.3
80°-90°	220.3	2.7
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°	8304.0	100.0
0°-180°	8304.0	100.0

Coefficient of Utilization



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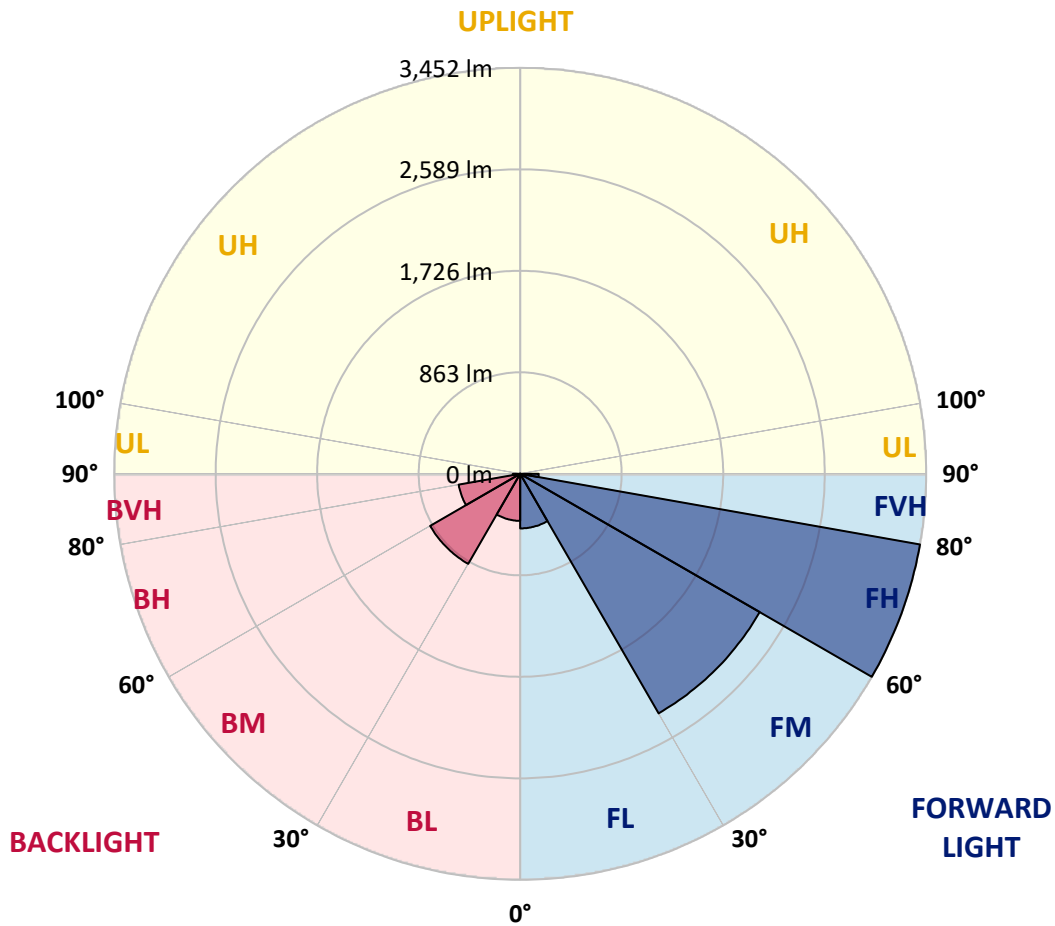
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.4	5.6			
FM (30°-60°)	2352.1	28.3			
FH (60°-80°)	3452.2	41.6			G2/5000
FVH (80°-90°)	158.0	1.9			G2/225
BL (0°-30°)	399.7	4.8	B1/500		
BM (30°-60°)	883.9	10.6	B1/1000		
BH (60°-80°)	531.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	62.3	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
2.5°	870.5	876.2	871.0	866.1	864.0	858.3	857.8	854.3	852.1	846.0
5°	931.3	938.8	930.0	920.4	911.6	897.6	895.9	885.8	874.5	861.3
7.5°	1000.0	1006.6	996.5	982.1	966.8	943.6	943.1	924.8	906.8	884.5
10°	1059.9	1068.7	1055.1	1035.4	1016.2	989.9	986.9	965.9	943.1	914.3
12.5°	1112.9	1119.0	1105.9	1081.8	1059.5	1033.3	1029.3	1006.1	980.8	947.9
15°	1154.9	1162.7	1145.2	1119.4	1095.8	1070.0	1066.5	1045.5	1020.1	985.6
17.5°	1182.4	1189.0	1171.0	1142.2	1119.4	1098.0	1095.4	1077.9	1055.6	1020.6
20°	1192.9	1199.9	1181.1	1151.8	1130.8	1114.2	1112.9	1100.2	1084.9	1052.9
22.5°	1203.4	1210.0	1185.5	1154.9	1136.5	1126.0	1125.6	1117.2	1111.1	1084.9
25°	1245.9	1247.6	1214.8	1170.6	1144.4	1135.2	1134.7	1134.3	1136.9	1116.4
27.5°	1282.6	1282.2	1254.2	1212.6	1171.9	1152.7	1152.2	1156.6	1164.9	1147.9
30°	1336.4	1331.6	1298.3	1255.0	1217.9	1188.1	1185.5	1181.5	1188.1	1174.5
32.5°	1450.6	1435.3	1381.5	1304.5	1255.9	1233.2	1229.7	1205.2	1207.8	1199.5
35°	1614.2	1594.1	1522.3	1398.1	1303.2	1270.8	1269.0	1238.0	1232.7	1225.3
37.5°	1808.8	1783.9	1700.4	1533.7	1384.5	1314.5	1311.9	1283.9	1262.5	1254.6
40°	2004.4	1972.9	1903.8	1699.0	1504.4	1387.6	1379.3	1336.8	1312.3	1299.2
42.5°	2194.2	2168.0	2108.9	1884.5	1652.2	1494.3	1475.9	1403.3	1385.0	1372.7
45°	2362.2	2338.6	2295.3	2082.7	1825.5	1639.6	1621.6	1503.1	1497.4	1497.4
47.5°	2498.7	2493.5	2447.5	2284.8	2029.8	1804.9	1773.8	1641.7	1657.1	1680.7
50°	2650.1	2635.6	2586.6	2483.8	2269.9	1994.3	1969.0	1811.9	1869.2	1934.0
52.5°	2789.2	2797.0	2742.4	2691.2	2541.1	2205.6	2161.0	2012.7	2136.5	2243.7
55°	2932.2	2932.6	2917.3	2910.3	2825.5	2439.2	2390.2	2254.2	2451.0	2584.0
57.5°	3066.5	3067.4	3090.1	3151.8	3155.3	2708.7	2653.1	2550.8	2800.5	2936.1
60°	3186.4	3192.5	3254.6	3399.0	3445.3	3017.5	2965.0	2901.2	3161.9	3298.4
62.5°	3226.6	3248.9	3387.2	3592.3	3731.9	3396.3	3344.7	3306.7	3541.6	3668.4
65°	3158.4	3209.6	3476.8	3752.0	4026.7	3846.5	3795.3	3753.7	3936.2	4055.6
67.5°	2990.8	3056.9	3471.6	3919.5	4384.5	4388.0	4340.4	4242.8	4359.2	4405.1
70°	2549.4	2648.3	3165.8	3982.1	4795.3	5128.6	5082.7	4831.6	4781.3	4559.1
72.5°	1642.6	1775.6	2331.2	3467.2	4886.7	5825.5	5822.9	5363.1	4914.7	4259.9
75°	599.3	680.7	1083.1	2176.3	4101.9	5790.1	5807.1	5272.1	4486.5	3290.5
77.5°	218.3	238.8	353.5	836.4	2522.8	4645.7	4681.1	4214.8	3193.4	1651.4
80°	114.6	126.0	181.1	324.6	1080.9	2759.0	2814.5	2504.8	1500.9	497.4
82.5°	63.4	68.7	101.5	176.3	486.9	1179.8	1213.0	989.5	528.0	210.8
85°	34.1	36.3	47.7	96.2	238.0	409.0	418.2	295.7	210.4	123.8
87.5°	10.1	12.2	15.7	30.6	93.2	91.9	94.1	58.6	83.1	62.6
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°
837.7	0°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
844.3	2.5°	841.6	840.3	835.5	833.3	830.7	830.3	832.5	832.9	833.3	833.8
853.9	5°	849.5	845.1	840.8	838.1	839.0	839.5	843.8	846.9	849.1	850.8
871.8	7.5°	864.8	861.3	853.9	853.5	854.8	858.7	864.4	871.4	875.3	878.4
895.0	10°	887.6	881.0	872.3	873.6	876.2	881.9	893.7	899.4	906.0	911.6
923.5	12.5°	910.8	905.1	895.0	895.9	900.3	910.3	921.7	928.7	933.1	937.5
954.1	15°	940.9	930.9	920.0	920.0	927.8	938.8	944.0	949.7	952.3	957.1
986.9	17.5°	972.0	958.9	944.4	943.6	953.2	958.4	961.5	962.4	963.3	968.5
1018.8	20°	1003.1	988.6	968.1	966.3	968.5	967.6	967.2	966.3	967.6	974.2
1051.6	22.5°	1033.7	1017.1	988.6	980.8	974.6	966.3	965.9	965.4	966.3	972.9
1087.1	25°	1069.6	1049.4	1011.4	987.8	967.2	955.8	957.1	957.6	958.4	963.7
1123.8	27.5°	1108.5	1086.2	1032.4	985.6	948.4	940.5	938.3	939.6	942.7	951.0
1160.5	30°	1147.4	1121.2	1051.6	976.8	924.8	913.8	906.8	909.9	919.5	927.8
1192.5	32.5°	1182.9	1156.6	1066.9	957.6	894.6	877.5	868.3	872.3	881.9	885.0
1227.9	35°	1224.4	1194.7	1073.5	927.0	861.8	835.5	823.3	817.6	822.4	819.3
1269.5	37.5°	1270.8	1239.7	1072.6	886.7	823.3	793.1	776.0	754.6	744.5	734.0
1330.7	40°	1339.5	1294.8	1062.1	838.1	775.6	748.0	717.4	681.1	658.4	637.8
1429.6	42.5°	1433.1	1371.4	1042.9	784.8	721.8	696.0	654.4	612.0	576.1	542.0
1579.6	45°	1572.6	1471.6	1018.8	727.9	663.6	638.2	593.2	545.5	504.8	461.1
1792.7	47.5°	1773.8	1606.3	996.1	663.2	602.4	579.2	538.5	494.3	446.2	403.8
2100.6	50°	2050.3	1799.7	975.1	600.2	542.0	524.5	492.1	447.1	398.5	364.4
2461.5	52.5°	2402.0	2062.6	966.3	539.4	485.6	479.0	453.2	411.2	365.3	336.4
2882.3	55°	2805.8	2377.1	966.3	481.2	436.1	438.3	420.4	381.5	341.6	315.8
3316.3	57.5°	3217.9	2695.6	948.8	427.4	394.1	403.3	392.0	357.8	322.0	295.3
3772.5	60°	3597.6	2962.4	878.0	378.4	357.0	371.4	364.0	334.6	290.9	268.6
4154.0	62.5°	3889.3	3112.9	741.5	339.5	326.3	343.0	339.0	304.0	285.2	276.0
4467.2	65°	4035.5	3088.4	566.9	304.9	300.5	326.3	318.0	316.7	301.8	291.3
4569.1	67.5°	3945.8	2877.5	411.2	279.5	285.7	311.0	343.0	348.2	320.6	300.1
4282.2	70°	3552.5	2496.1	306.2	255.5	266.8	311.5	391.1	364.4	314.5	290.5
3434.4	72.5°	2702.6	1861.3	237.5	230.1	242.3	313.6	412.5	357.0	297.0	321.1
2139.6	75°	1545.5	1021.9	190.7	199.0	211.7	293.1	401.6	337.7	283.5	294.8
847.8	77.5°	589.2	392.8	157.5	168.4	170.2	255.9	384.1	336.4	269.9	263.3
254.2	80°	204.3	153.5	130.4	133.9	131.7	227.5	368.3	292.7	220.9	197.7
105.0	82.5°	83.6	76.6	103.2	98.9	93.6	176.7	297.5	239.3	180.7	159.7
50.7	85°	36.3	48.6	68.2	59.9	54.2	122.5	238.4	202.5	152.7	131.7
16.6	87.5°	7.4	18.4	28.9	27.1	28.0	81.8	169.3	143.9	108.0	80.9
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>
837.7
835.5
851.7
879.3
910.3
939.2
958.9
970.3
976.8
977.3
970.7
959.3
937.0
895.9
829.0
740.6
639.1
538.9
455.8
399.0
362.2
334.2
313.2
290.9
265.1
273.0
287.8
296.6
286.5
318.5
294.8
240.2
191.2
157.9
131.2
63.4
0.0

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