

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: P946505

Luminaire Tested: **GALN-SB2A-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946505
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-SB2A-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8696 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

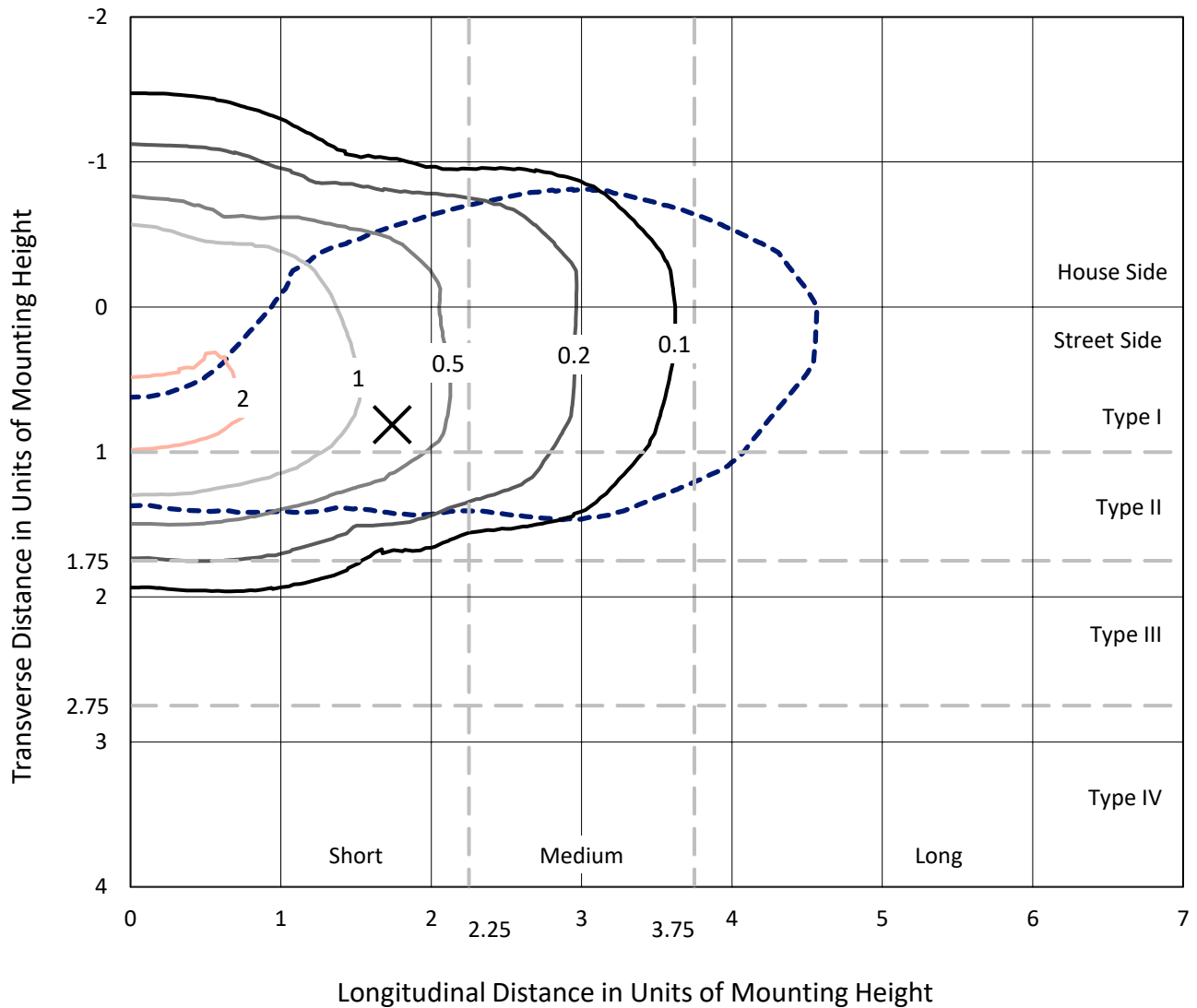
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

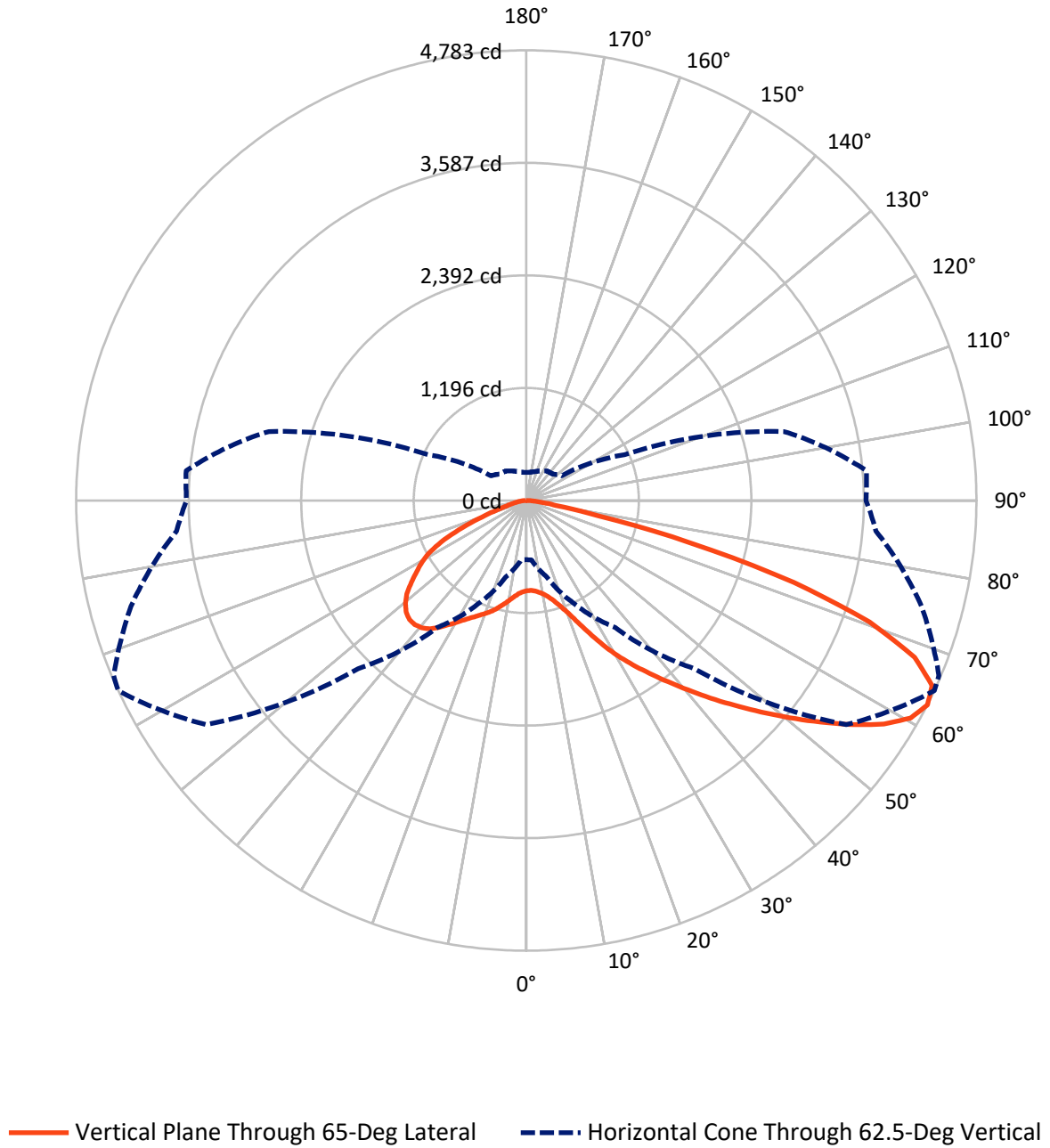
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	2744.1	0.0	2744.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5951.9	0.0	5951.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	8696.0	0.0	8696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.1
10°-20°	324.0	3.7
20°-30°	656.9	7.6
30°-40°	1136.7	13.1
40°-50°	1720.3	19.8
50°-60°	2016.9	23.2
60°-70°	1690.9	19.4
70°-80°	933.5	10.7
80°-90°	121.3	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°	8696.0	100.0
0°-180°	8696.0	100.0



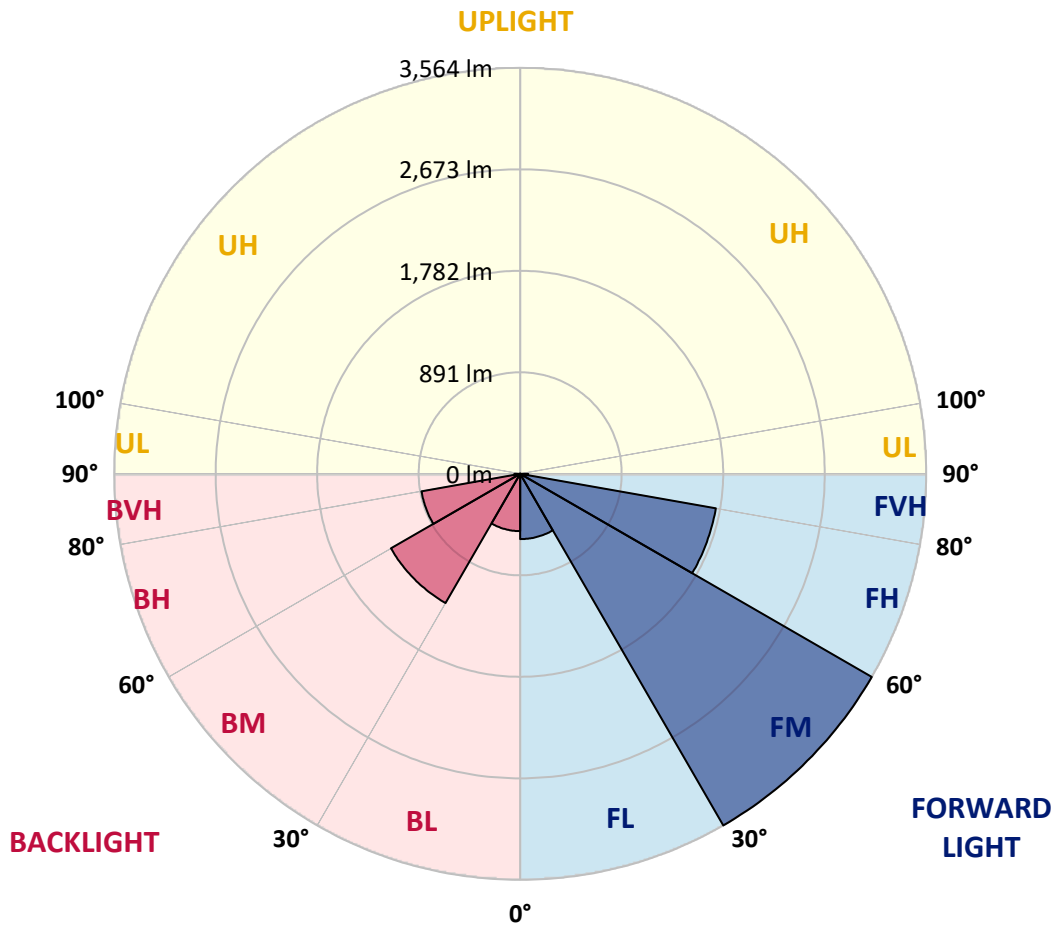
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.2	6.6			
FM (30°-60°)	3563.9	41.0			
FH (60°-80°)	1744.2	20.1			G1/1800
FVH (80°-90°)	70.7	0.8			G1/100
BL (0°-30°)	503.2	5.8	B2/1000		
BM (30°-60°)	1310.0	15.1	B2/2500		
BH (60°-80°)	880.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	50.6	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°	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3
2.5°	951.9	949.2	951.5	951.5	952.4	951.9	955.1	956.0	957.4	960.1
5°	942.5	942.0	946.1	949.7	953.3	956.5	960.5	966.4	967.3	970.4
7.5°	939.3	936.6	942.9	947.4	956.0	963.7	974.5	984.4	988.5	989.8
10°	963.7	959.2	965.0	967.7	975.0	982.6	995.3	1011.0	1015.6	1021.0
12.5°	1005.2	1000.2	1008.8	1012.9	1019.6	1026.4	1035.0	1050.3	1052.6	1062.5
15°	1062.0	1056.2	1061.6	1066.5	1077.8	1084.1	1092.7	1107.6	1107.6	1115.3
17.5°	1139.2	1131.5	1135.6	1137.4	1144.6	1154.1	1168.5	1181.6	1188.4	1185.6
20°	1254.2	1244.7	1244.7	1235.7	1233.0	1240.7	1259.6	1277.7	1284.9	1270.9
22.5°	1427.0	1413.5	1405.8	1375.1	1363.0	1363.9	1382.8	1404.9	1410.8	1386.0
25°	1646.7	1625.5	1615.1	1570.0	1542.5	1518.6	1533.5	1561.9	1570.0	1539.4
27.5°	1866.4	1867.8	1857.9	1803.7	1758.2	1714.4	1706.7	1736.5	1745.1	1710.3
30°	2174.6	2142.6	2123.6	2058.6	1993.7	1932.3	1900.7	1912.9	1915.2	1873.7
32.5°	2440.3	2432.2	2391.6	2334.7	2251.3	2155.2	2102.4	2083.0	2079.4	2020.3
35°	2743.0	2738.5	2695.7	2628.0	2537.8	2404.2	2309.0	2253.5	2249.0	2166.0
37.5°	3050.7	3050.7	3008.8	2934.8	2841.4	2674.5	2529.6	2441.7	2427.2	2319.0
40°	3296.2	3281.3	3288.9	3257.8	3150.9	2973.6	2774.6	2646.9	2627.5	2497.6
42.5°	3435.6	3430.6	3476.6	3511.4	3467.6	3325.9	3044.4	2869.4	2842.3	2694.3
45°	3466.7	3461.3	3543.4	3670.6	3732.0	3673.8	3337.7	3103.5	3070.6	2900.0
47.5°	3395.0	3384.1	3504.6	3705.4	3902.1	4004.5	3655.3	3357.5	3309.7	3100.4
50°	3179.3	3168.9	3351.2	3617.8	3959.4	4229.2	4000.0	3626.9	3553.8	3315.1
52.5°	2710.6	2715.5	3001.1	3367.4	3884.0	4369.0	4296.8	3910.6	3822.7	3534.8
55°	2111.4	2122.3	2473.3	2876.6	3582.7	4347.8	4499.4	4203.0	4115.5	3741.5
57.5°	1511.8	1559.7	1888.6	2287.8	3003.8	4011.7	4543.6	4480.9	4396.1	3967.0
60°	979.9	988.5	1326.9	1729.3	2287.4	3414.4	4453.8	4691.6	4625.3	4197.1
62.5°	628.0	633.9	840.1	1209.6	1646.3	2526.0	4151.6	4783.2	4762.9	4349.2
65°	461.5	457.0	564.4	799.5	1108.9	1557.9	3564.6	4739.0	4779.1	4444.4
67.5°	385.3	379.0	431.8	553.6	817.0	884.7	2637.5	4451.6	4598.7	4433.5
70°	351.0	345.6	377.6	411.0	637.5	592.4	1329.6	3870.0	4096.5	4310.4
72.5°	297.3	287.8	331.6	365.0	495.8	454.3	549.5	2972.7	3248.8	3915.6
75°	230.5	224.2	261.7	321.2	372.7	354.6	347.4	1805.1	2106.5	3028.2
77.5°	182.7	174.1	208.4	250.4	335.2	267.5	253.1	777.3	1076.0	1933.2
80°	137.6	129.9	158.4	198.1	257.6	201.7	163.8	317.2	405.6	979.5
82.5°	97.9	91.1	110.5	145.3	173.2	180.9	100.6	177.8	199.9	377.6
85°	62.7	58.7	74.0	91.1	110.1	116.4	61.4	92.9	102.0	155.6
87.5°	34.3	28.0	39.7	42.4	51.0	46.5	29.3	33.8	36.5	56.4
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°
958.3	0°	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3
960.1	2.5°	961.9	963.2	967.7	969.1	972.2	976.3	979.0	981.7	981.7	984.4
974.5	5°	975.0	978.1	987.6	992.5	1000.7	1008.8	1013.8	1019.6	1023.2	1025.0
997.5	7.5°	1000.2	1005.2	1018.7	1027.3	1041.3	1052.6	1060.2	1068.3	1070.1	1075.1
1029.5	10°	1034.5	1040.4	1055.7	1072.0	1088.6	1102.6	1109.9	1115.7	1118.0	1118.9
1070.6	12.5°	1073.8	1082.3	1102.2	1122.0	1139.6	1151.8	1153.6	1152.3	1145.9	1140.5
1121.1	15°	1122.0	1129.7	1151.8	1173.5	1190.6	1192.9	1181.6	1174.4	1166.7	1165.3
1177.5	17.5°	1179.8	1183.8	1204.1	1225.3	1226.7	1219.0	1202.3	1195.6	1188.4	1183.4
1251.1	20°	1247.0	1245.6	1260.1	1269.1	1259.6	1236.2	1210.9	1199.6	1192.4	1186.5
1341.3	22.5°	1327.3	1316.9	1315.1	1312.9	1287.6	1238.4	1204.1	1189.7	1178.4	1170.3
1467.2	25°	1444.2	1404.5	1376.9	1361.6	1304.8	1226.2	1182.5	1150.5	1129.3	1115.3
1621.0	27.5°	1590.3	1523.6	1454.1	1416.6	1304.8	1201.4	1130.2	1078.3	1043.5	1029.1
1769.9	30°	1729.7	1659.8	1557.4	1483.0	1301.6	1160.8	1045.8	973.6	933.0	918.6
1897.1	32.5°	1848.8	1772.6	1667.0	1555.6	1293.9	1095.0	941.1	861.3	822.0	804.9
2023.0	35°	1959.4	1878.2	1777.1	1635.5	1273.6	998.4	826.1	765.2	721.4	693.9
2151.1	37.5°	2072.6	1976.1	1881.3	1707.6	1237.1	885.6	737.6	685.8	634.3	597.3
2287.4	40°	2195.8	2080.3	1992.8	1750.5	1177.1	778.2	669.1	621.7	567.1	527.9
2444.4	42.5°	2339.7	2205.3	2116.8	1772.6	1095.0	702.0	624.4	577.9	526.5	494.5
2612.7	45°	2489.9	2342.9	2230.1	1772.2	1003.4	666.4	610.0	563.9	507.1	473.7
2785.5	47.5°	2647.4	2486.8	2328.0	1743.3	924.0	671.3	601.8	533.7	471.0	438.5
2960.1	50°	2805.3	2644.2	2422.7	1689.1	890.1	660.5	571.6	491.3	417.3	388.0
3123.8	52.5°	2961.9	2811.6	2504.4	1612.0	855.8	620.3	532.8	436.3	395.2	374.9
3293.0	55°	3119.3	2977.2	2593.3	1499.7	770.1	573.4	467.9	415.5	377.6	359.1
3458.6	57.5°	3277.2	3168.5	2677.6	1387.3	662.3	515.7	432.2	390.3	360.0	344.2
3597.1	60°	3441.4	3387.3	2764.7	1284.0	555.8	441.7	406.0	370.0	339.3	321.7
3730.2	62.5°	3610.6	3628.2	2832.8	1150.9	457.9	396.6	382.6	345.6	315.8	299.1
3840.3	65°	3781.2	3860.6	2877.5	966.4	371.3	353.7	357.3	319.0	288.7	274.3
3921.0	67.5°	3909.7	4027.9	2864.9	731.3	304.5	313.1	325.7	291.0	262.6	251.3
3907.9	70°	3924.2	4008.1	2740.3	500.8	254.9	273.4	290.5	263.5	234.2	226.0
3723.9	72.5°	3732.0	3737.4	2393.4	327.1	215.7	240.0	253.6	235.5	207.1	199.0
3257.8	75°	3228.0	3090.9	1757.3	215.7	180.5	206.2	218.8	206.2	178.7	180.5
2437.6	77.5°	2445.7	2189.0	1067.0	153.4	150.7	173.2	190.4	181.4	157.9	177.3
1225.8	80°	1260.1	1184.3	476.0	114.6	119.1	138.5	156.6	144.8	125.0	119.1
273.9	82.5°	288.7	335.7	187.7	82.1	86.2	99.7	119.6	108.7	89.8	75.8
114.1	85°	101.1	110.5	83.0	51.4	50.5	62.3	81.2	72.6	60.9	48.7
48.3	87.5°	32.0	42.0	31.1	20.8	21.7	28.0	37.4	34.3	28.4	18.5
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>
958.3
984.4
1025.9
1073.3
1116.6
1140.5
1165.3
1183.8
1187.0
1173.0
1120.7
1036.3
927.1
813.4
702.9
607.3
535.5
500.8
479.1
443.0
389.8
374.9
357.3
341.5
320.3
298.7
273.9
251.7
226.5
198.5
174.1
156.1
108.7
74.9
51.4
19.4
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