

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: P940026

Luminaire Tested: **GALN-SB2D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9715 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

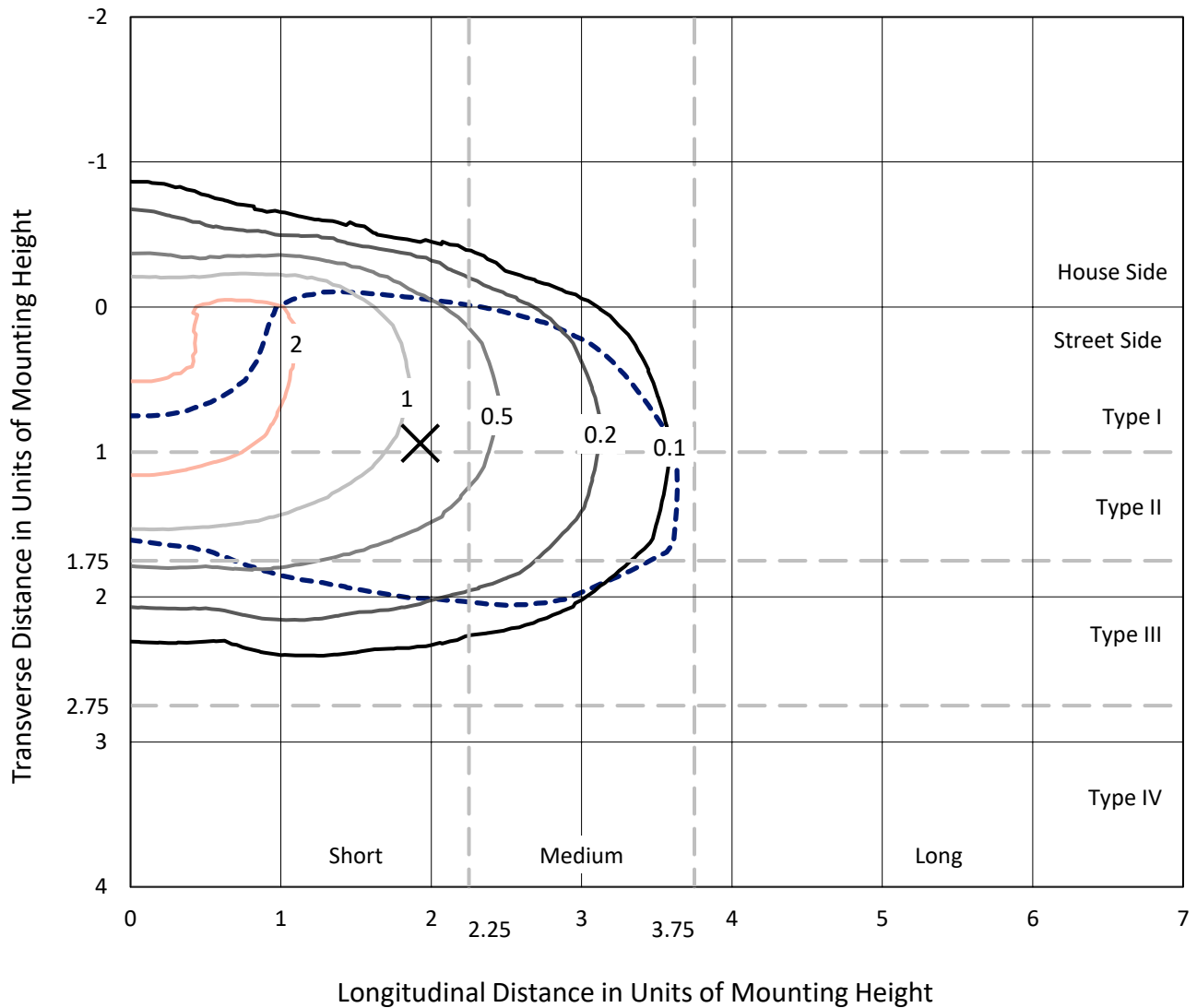
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

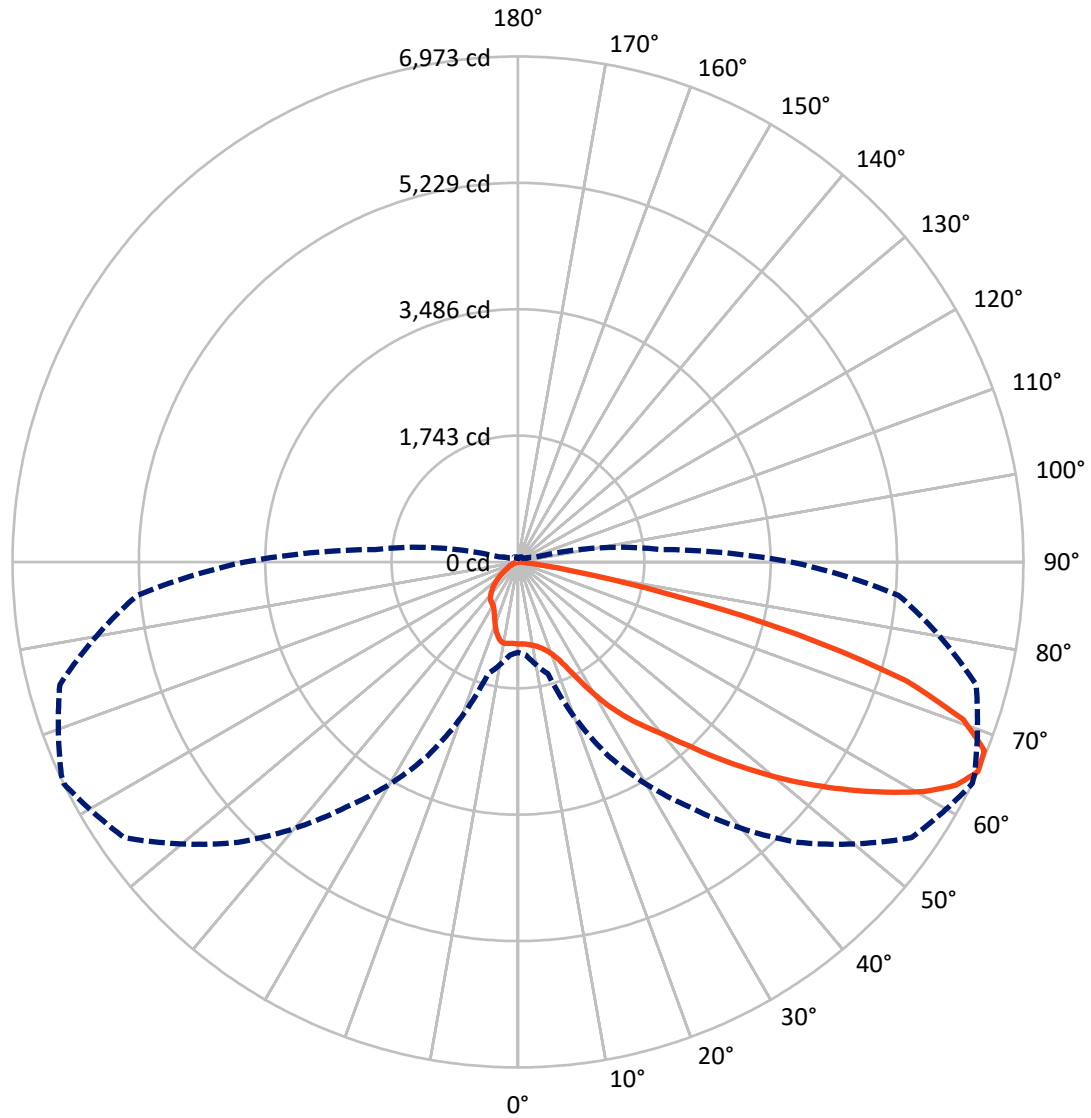
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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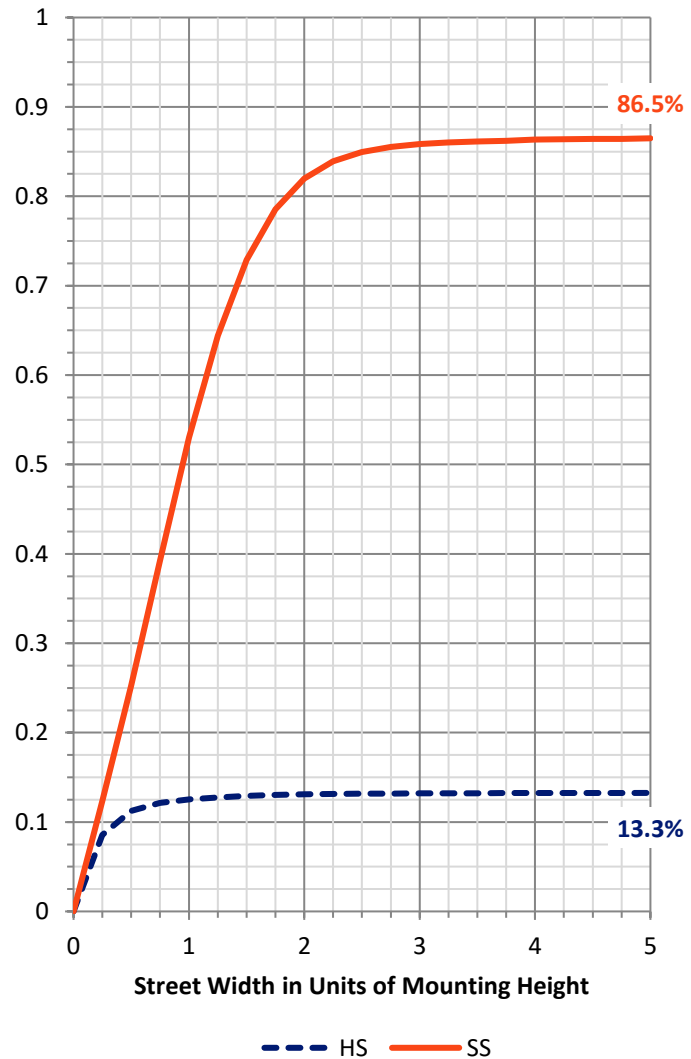
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.2	0.0	1299.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8415.8	0.0	8415.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	9715.0	0.0	9715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.1
10°-20°	282.8	2.9
20°-30°	535.8	5.5
30°-40°	1084.2	11.2
40°-50°	1846.9	19.0
50°-60°	2511.7	25.9
60°-70°	2358.6	24.3
70°-80°	945.0	9.7
80°-90°	45.8	0.5
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°	9715.0	100.0
0°-180°	9715.0	100.0

Coefficient of Utilization



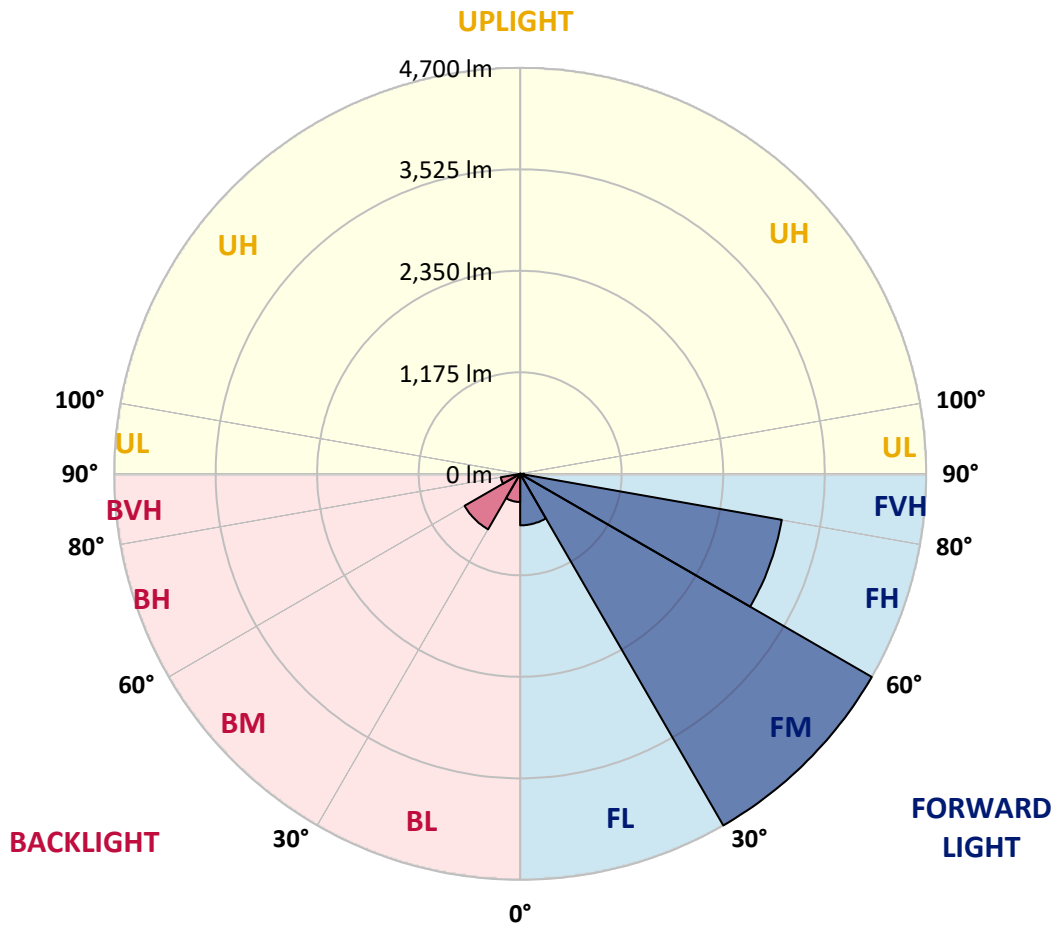
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.6	6.1			
FM (30°-60°)	4700.1	48.4			
FH (60°-80°)	3075.5	31.7			G2/5000
FVH (80°-90°)	43.5	0.4			G1/100
BL (0°-30°)	326.2	3.4	B1/500		
BM (30°-60°)	742.7	7.6	B1/1000		
BH (60°-80°)	228.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1126.0	1133.9	1131.9	1130.0	1129.3	1130.6	1131.3	1130.6	1130.6	1130.6
5°	1104.6	1111.1	1111.1	1115.6	1122.1	1130.0	1135.8	1137.1	1138.4	1140.4
7.5°	1063.5	1068.7	1072.6	1087.6	1103.9	1124.7	1142.3	1151.4	1152.7	1159.9
10°	1035.5	1042.0	1048.5	1064.2	1087.6	1118.9	1148.8	1171.0	1174.2	1191.2
12.5°	1034.2	1040.7	1049.2	1066.1	1093.5	1126.7	1163.2	1195.1	1200.9	1225.7
15°	1047.9	1055.7	1063.5	1084.4	1113.7	1154.1	1193.1	1232.9	1238.7	1273.9
17.5°	1075.9	1086.3	1092.2	1113.0	1144.3	1189.2	1240.7	1286.3	1291.5	1332.5
20°	1131.3	1143.6	1145.6	1162.5	1193.1	1241.3	1302.5	1359.2	1365.7	1412.6
22.5°	1245.9	1263.5	1247.8	1256.3	1283.7	1331.8	1398.3	1469.9	1479.0	1532.4
25°	1447.8	1472.5	1432.1	1417.8	1429.5	1479.7	1563.1	1653.6	1664.0	1707.0
27.5°	1844.4	1812.5	1751.3	1691.4	1656.2	1684.8	1778.6	1890.6	1903.7	1945.3
30°	2280.1	2252.1	2169.4	2036.5	1953.2	1948.6	2035.2	2160.3	2175.2	2215.0
32.5°	2716.5	2689.7	2599.9	2436.4	2291.8	2220.2	2280.1	2418.8	2426.6	2452.0
35°	3145.6	3118.3	3028.4	2861.0	2683.2	2520.4	2508.7	2665.0	2667.6	2694.3
37.5°	3577.4	3554.6	3458.9	3294.8	3119.6	2894.9	2786.1	2898.2	2901.4	2927.5
40°	3885.5	3895.3	3829.5	3702.5	3552.0	3306.5	3097.4	3146.3	3126.8	3170.4
42.5°	4149.9	4169.4	4112.1	4048.3	3961.0	3744.8	3483.0	3474.5	3443.3	3466.7
45°	4378.5	4394.8	4343.3	4328.3	4326.4	4174.6	3904.4	3853.6	3809.9	3805.4
47.5°	4462.5	4493.8	4515.9	4566.1	4663.8	4599.9	4340.1	4261.3	4212.4	4176.6
50°	4494.4	4527.6	4603.2	4749.1	4980.3	5007.6	4773.8	4685.2	4625.3	4560.2
52.5°	4451.4	4510.7	4612.3	4857.8	5193.2	5334.6	5190.0	5112.5	5044.1	4937.9
55°	4198.1	4257.4	4465.1	4856.5	5299.4	5563.8	5583.3	5548.8	5472.0	5304.6
57.5°	3664.1	3752.0	4080.9	4691.1	5297.4	5761.1	5968.9	5993.6	5907.7	5668.0
60°	2924.2	3043.4	3444.6	4324.4	5134.0	5868.0	6306.9	6430.7	6339.5	6026.2
62.5°	2040.4	2178.5	2558.2	3750.0	4760.1	5791.1	6553.7	6782.3	6713.3	6346.6
65°	1244.6	1288.9	1595.0	2950.9	4124.5	5469.4	6629.9	6972.5	6949.7	6542.7
67.5°	829.1	866.2	954.1	2023.5	3201.6	4826.6	6447.6	6939.3	6945.8	6510.8
70°	499.5	531.4	588.7	1176.8	2074.9	3820.4	5882.9	6516.0	6553.7	6084.2
72.5°	205.8	227.3	279.4	533.4	1074.6	2424.7	4684.6	5594.4	5682.3	5115.7
75°	116.6	127.6	164.1	267.7	466.3	1130.0	2837.6	3971.5	4101.1	3526.0
77.5°	77.5	82.7	106.2	173.2	262.5	385.6	1212.7	2069.1	2316.6	1925.8
80°	52.1	56.7	72.9	115.9	170.6	165.4	386.2	766.5	943.0	661.7
82.5°	35.2	35.8	52.1	76.2	108.1	80.1	114.0	238.4	299.6	191.5
85°	20.2	19.5	38.4	44.3	48.2	33.2	34.5	71.6	93.8	80.8
87.5°	2.6	3.9	15.0	11.7	6.5	7.2	7.2	12.4	18.2	19.5
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°
1130.0	0°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
1131.3	2.5°	1131.3	1130.6	1128.7	1126.7	1122.1	1119.5	1120.8	1119.5	1118.9	1119.5
1139.7	5°	1139.7	1137.8	1132.6	1126.0	1116.9	1105.9	1098.7	1088.3	1078.5	1072.6
1162.5	7.5°	1162.5	1160.6	1153.4	1135.2	1105.9	1059.6	1017.3	980.2	952.2	935.9
1199.0	10°	1199.0	1195.7	1184.7	1144.3	1067.4	966.5	882.5	812.8	767.2	745.7
1242.0	12.5°	1242.0	1238.1	1218.5	1135.8	994.5	836.9	721.0	643.5	601.1	582.2
1291.5	15°	1292.8	1287.6	1249.1	1095.4	888.3	693.6	587.4	529.5	502.1	485.2
1354.6	17.5°	1355.9	1346.8	1271.9	1034.9	773.1	584.2	505.4	461.8	437.7	421.4
1437.4	20°	1438.0	1423.0	1290.2	962.6	666.9	515.2	450.0	413.6	395.3	381.0
1554.6	22.5°	1552.6	1531.1	1312.3	884.4	592.0	467.6	409.0	382.3	367.3	351.0
1718.1	25°	1694.6	1669.2	1339.7	812.1	540.6	426.6	379.0	356.9	339.3	320.4
1932.3	27.5°	1893.2	1847.7	1372.2	752.9	496.3	391.4	351.7	326.9	306.7	291.1
2175.2	30°	2114.7	2039.8	1400.9	717.0	455.9	358.9	315.9	291.1	272.2	261.2
2393.4	32.5°	2324.4	2222.8	1419.8	701.4	419.4	321.7	276.8	250.1	235.8	232.5
2607.0	35°	2522.4	2388.2	1417.8	686.4	386.9	284.6	238.4	211.0	199.9	201.9
2836.9	37.5°	2750.3	2564.7	1404.1	663.0	360.2	250.7	205.2	181.1	171.3	171.9
3116.3	40°	3015.4	2768.6	1395.7	618.7	330.8	219.5	177.8	158.3	151.1	148.5
3410.7	42.5°	3298.0	2965.9	1397.0	568.6	294.4	191.5	158.9	142.6	136.1	134.2
3738.3	45°	3582.0	3154.1	1398.9	516.5	255.9	170.0	145.2	131.6	127.6	125.0
4070.4	47.5°	3849.0	3314.3	1362.5	460.4	218.2	153.7	134.2	125.0	121.8	118.5
4403.9	50°	4097.8	3421.1	1274.5	395.3	188.2	140.7	125.7	119.2	115.9	112.7
4706.1	52.5°	4291.2	3438.1	1129.3	328.2	167.4	130.9	120.5	114.6	110.7	107.5
4950.3	55°	4377.2	3331.9	922.9	265.7	151.1	122.4	115.3	109.4	104.9	101.6
5142.4	57.5°	4355.0	3108.5	719.7	213.6	135.5	114.0	108.8	104.9	99.6	94.4
5298.1	60°	4246.3	2809.6	542.5	177.8	121.1	104.9	101.6	98.3	91.2	83.4
5358.0	62.5°	4058.1	2433.8	386.9	147.2	105.5	94.4	93.1	90.5	80.1	65.8
5269.4	65°	3770.2	1977.3	260.5	122.4	90.5	82.7	83.4	78.8	65.1	48.8
4945.1	67.5°	3349.5	1445.8	166.7	100.3	75.5	69.0	69.7	67.1	55.4	41.7
4330.3	70°	2813.5	957.4	108.8	76.2	60.6	53.4	57.3	58.0	46.9	33.9
3323.4	72.5°	2062.6	565.3	76.2	56.7	44.3	37.1	46.9	48.2	37.8	25.4
1999.4	75°	1175.5	268.3	57.3	41.0	27.4	26.1	36.5	36.5	26.1	16.9
865.5	77.5°	493.7	112.0	40.4	26.7	15.6	15.0	24.7	22.8	13.0	7.8
211.0	80°	142.6	50.1	21.5	13.0	6.5	5.9	9.8	7.2	3.3	1.3
80.1	82.5°	56.0	22.1	8.5	5.2	2.6	2.6	1.3	0.0	0.0	0.0
45.6	85°	33.2	9.1	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
9.8	87.5°	8.5	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1130.0
1122.1
1073.9
936.5
743.8
580.3
485.8
420.1
378.4
348.4
318.5
287.9
259.2
234.5
201.9
174.5
147.8
133.5
125.0
118.5
112.7
106.8
100.9
93.8
82.1
64.5
47.5
39.7
32.6
24.1
15.6
7.8
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