

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: P945708

Luminaire Tested: **GALN-SB1C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

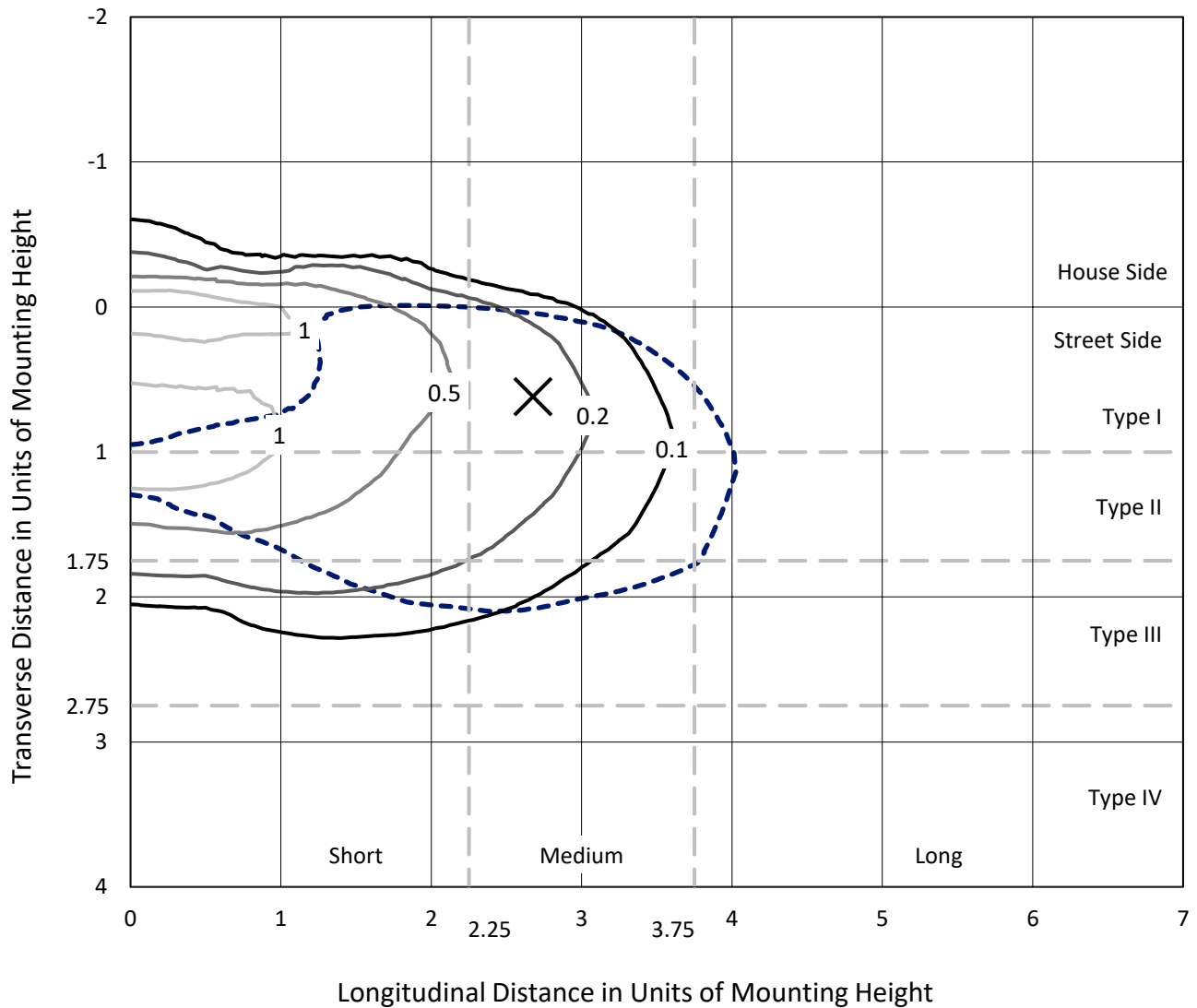
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

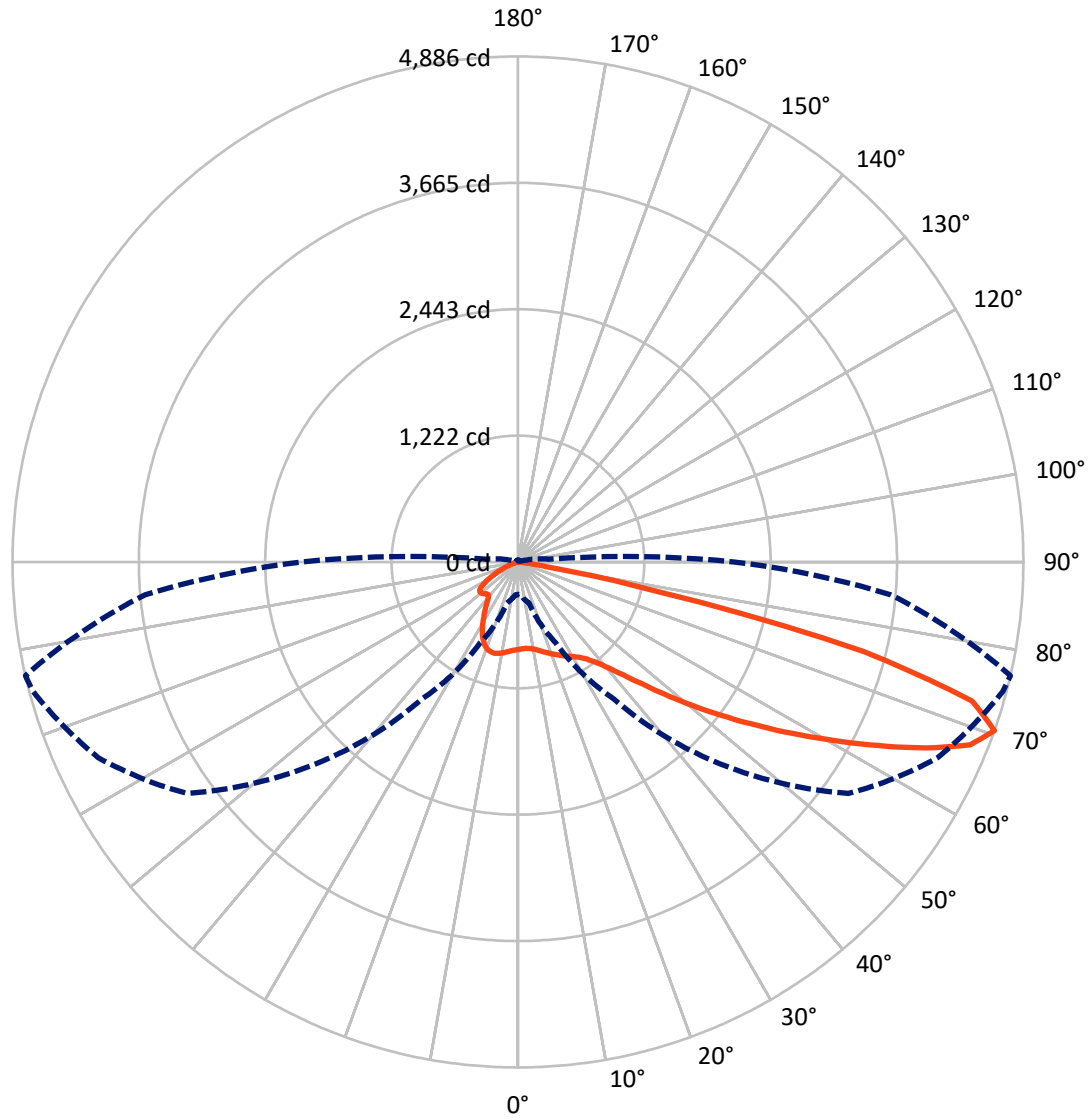
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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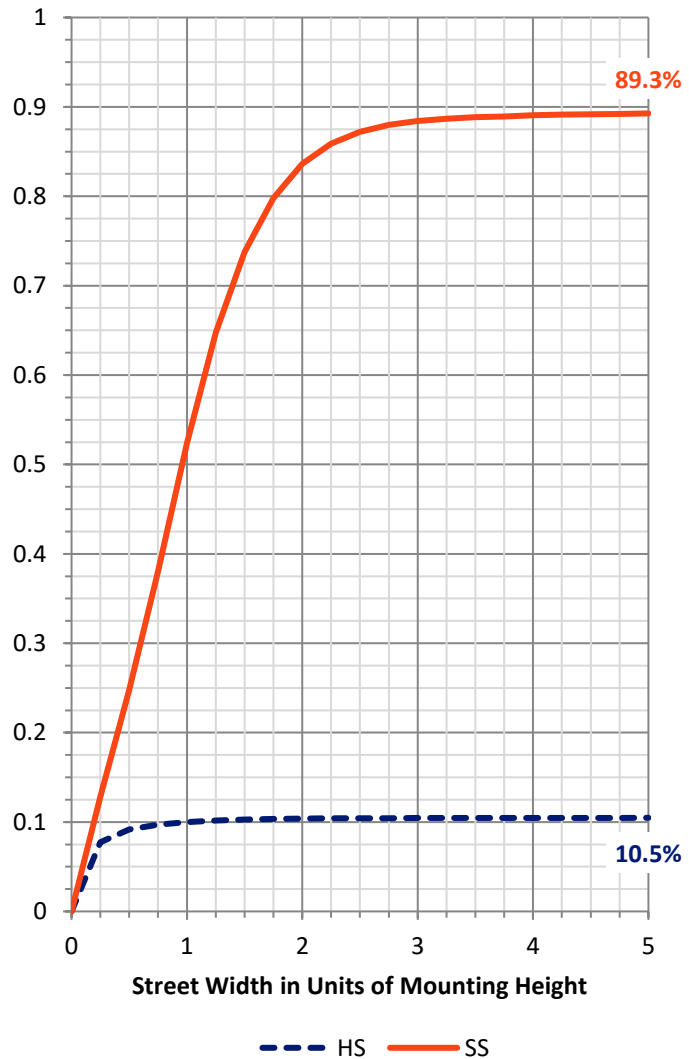
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.7	0.0	571.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4851.3	0.0	4851.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	5423.0	0.0	5423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.3
10°-20°	173.1	3.2
20°-30°	267.7	4.9
30°-40°	485.7	9.0
40°-50°	916.8	16.9
50°-60°	1324.8	24.4
60°-70°	1410.2	26.0
70°-80°	747.3	13.8
80°-90°	24.5	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°	5423.0	100.0
0°-180°	5423.0	100.0

Coefficient of Utilization



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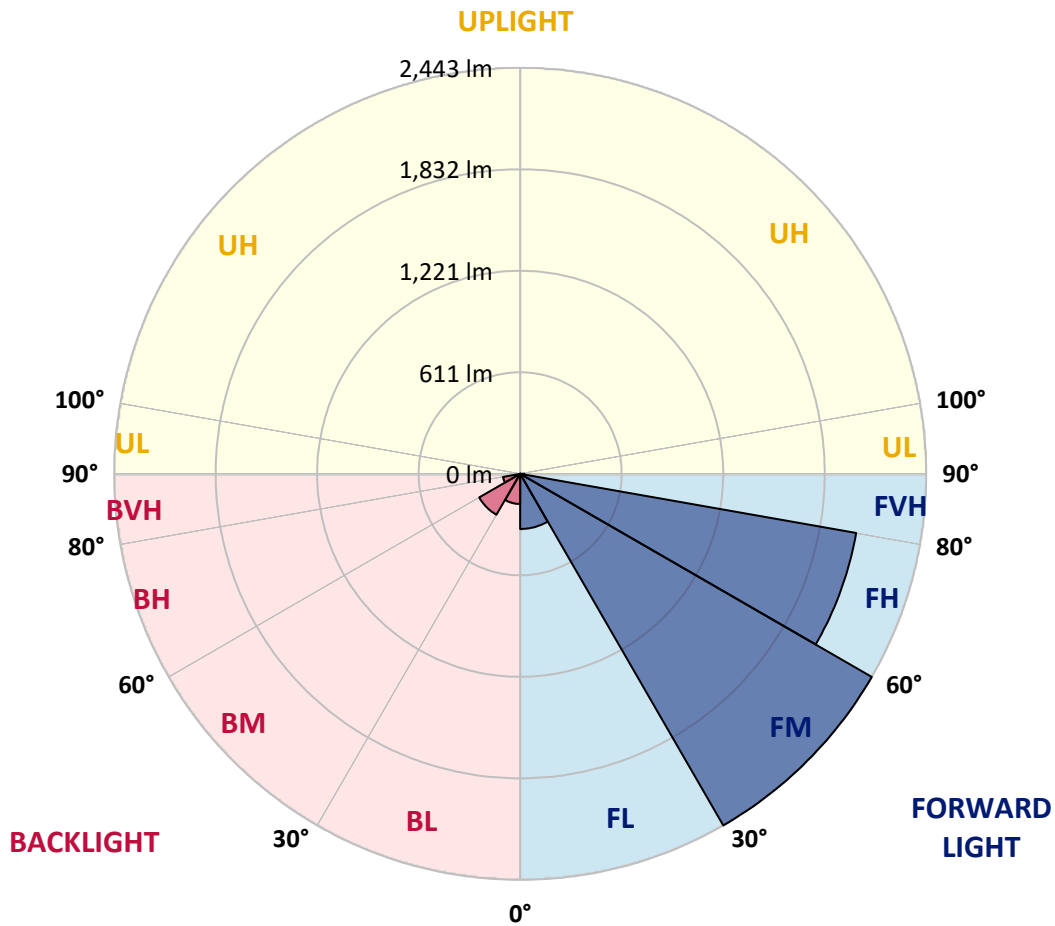
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.0	6.1			
FM (30°-60°)	2442.8	45.0			
FH (60°-80°)	2052.7	37.9			G2/5000
FVH (80°-90°)	23.9	0.4			G1/100
BL (0°-30°)	181.6	3.3	B1/500		
BM (30°-60°)	284.6	5.2	B1/1000		
BH (60°-80°)	104.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9
2.5°	794.2	801.4	800.3	805.1	806.8	813.7	820.5	829.8	840.1	839.7
5°	749.3	756.5	758.2	764.7	772.9	783.6	797.6	816.1	835.3	838.4
7.5°	696.2	703.8	708.2	721.2	736.3	758.2	781.2	808.2	840.1	844.5
10°	643.2	650.0	655.8	674.3	698.3	730.8	768.2	807.2	850.0	856.5
12.5°	610.3	616.8	623.3	639.4	669.2	708.9	759.6	812.0	866.4	875.7
15°	598.6	604.5	609.6	624.0	651.7	696.9	757.9	821.9	887.3	899.7
17.5°	600.3	603.4	606.8	617.8	644.9	691.4	761.0	839.0	912.0	922.9
20°	610.3	612.0	612.3	619.9	643.8	690.8	767.1	855.5	935.3	950.0
22.5°	622.9	623.6	622.9	628.1	650.3	695.9	775.3	875.3	961.3	975.0
25°	682.2	669.2	652.7	642.8	661.3	705.8	787.7	902.1	989.7	1003.1
27.5°	866.1	828.8	769.9	703.8	683.9	720.2	804.8	929.1	1018.5	1030.5
30°	1164.7	1115.8	1015.8	866.8	756.5	750.3	827.1	956.2	1049.0	1062.0
32.5°	1464.0	1452.1	1336.6	1130.5	919.9	817.5	864.0	992.8	1089.4	1099.7
35°	1766.8	1742.5	1647.9	1444.2	1171.6	954.1	925.7	1040.8	1142.5	1154.1
37.5°	1998.6	1983.9	1925.3	1757.5	1470.2	1165.1	1031.2	1115.1	1219.5	1232.5
40°	2203.4	2196.6	2176.7	2066.1	1804.1	1441.1	1195.2	1230.1	1326.4	1341.8
42.5°	2364.4	2380.5	2391.8	2361.0	2148.3	1756.2	1415.8	1391.8	1475.3	1491.1
45°	2529.1	2534.6	2580.1	2624.7	2490.1	2085.6	1664.4	1581.2	1660.6	1680.1
47.5°	2634.9	2656.8	2737.0	2815.4	2777.4	2412.3	1931.5	1804.8	1875.3	1912.0
50°	2642.8	2684.2	2794.5	2931.2	2986.6	2723.3	2221.9	2059.6	2134.6	2175.0
52.5°	2511.6	2576.0	2746.9	2946.9	3099.7	2986.6	2522.3	2314.4	2410.6	2463.4
55°	1925.7	2009.9	2567.8	2861.3	3104.1	3186.3	2814.7	2579.8	2718.1	2777.7
57.5°	1677.7	1720.2	2018.8	2712.7	3021.6	3266.8	3079.1	2832.5	3052.7	3126.7
60°	1395.9	1451.7	1693.1	2469.5	2909.6	3274.7	3312.7	3158.6	3415.4	3498.6
62.5°	948.6	1009.2	1249.3	2051.7	2756.5	3270.9	3504.1	3494.2	3818.5	3907.9
65°	587.7	625.7	783.9	1675.3	2542.5	3275.0	3704.5	3901.7	4243.8	4334.6
67.5°	464.4	481.8	564.4	1286.3	2173.6	3182.5	3904.5	4284.9	4644.2	4716.1
70°	312.0	322.6	410.6	862.3	1617.1	2755.8	3900.7	4477.4	4850.3	4886.3
72.5°	164.4	172.6	240.1	399.3	976.7	1958.9	3288.0	4247.3	4645.2	4591.1
75°	82.2	95.9	161.6	202.7	417.1	1092.5	2041.8	3348.6	3656.2	3446.6
77.5°	62.3	75.3	133.6	133.6	145.2	367.8	864.7	1826.4	1684.6	1402.7
80°	39.7	51.4	116.8	101.0	60.6	93.5	225.3	511.6	357.9	272.3
82.5°	23.3	33.6	97.3	66.8	33.9	34.6	63.7	108.9	92.8	72.3
85°	9.2	21.9	66.8	26.4	13.4	8.6	19.2	23.3	19.2	14.4
87.5°	0.0	5.1	11.6	0.0	1.0	0.7	1.4	1.7	1.7	1.4
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°
845.9	0°	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9	845.9
846.6	2.5°	849.7	850.3	852.4	852.7	847.9	841.8	839.4	838.4	834.2	833.9
852.1	5°	859.9	863.0	859.9	851.0	829.8	800.0	777.4	758.9	742.1	737.0
870.9	7.5°	880.5	883.6	874.3	839.4	786.0	726.7	673.3	635.6	601.7	589.0
893.8	10°	909.9	914.0	884.9	814.4	719.9	624.7	534.2	470.5	420.9	400.7
925.0	12.5°	946.9	948.6	890.8	776.4	633.9	497.9	369.9	301.7	257.5	241.1
962.7	15°	987.7	985.3	891.4	724.7	516.8	352.1	241.4	198.3	180.5	175.0
1000.3	17.5°	1030.5	1020.5	877.7	650.0	388.4	240.8	179.1	168.8	165.8	164.4
1037.7	20°	1072.6	1050.3	852.7	552.4	278.8	179.8	162.7	159.6	157.9	157.2
1075.3	22.5°	1111.0	1072.9	809.9	439.0	202.4	158.9	153.8	151.0	147.9	146.6
1112.0	25°	1148.3	1086.0	749.7	333.2	162.0	148.6	144.5	139.4	135.3	133.6
1151.4	27.5°	1184.6	1094.2	674.3	246.6	144.5	139.0	131.5	124.3	121.2	120.5
1193.5	30°	1223.3	1096.9	588.7	183.9	133.9	127.1	116.1	107.9	106.2	106.5
1250.3	32.5°	1270.5	1101.0	502.4	150.7	125.0	112.7	99.7	91.1	89.7	91.1
1333.2	35°	1327.1	1109.2	419.2	138.7	117.1	97.9	83.9	76.7	75.3	76.4
1439.4	37.5°	1403.8	1122.6	341.4	136.3	110.6	85.6	70.5	64.7	64.7	65.1
1569.5	40°	1505.8	1158.2	271.9	134.6	107.2	76.4	59.6	57.2	58.2	58.9
1735.3	42.5°	1630.1	1233.9	225.0	132.5	103.4	72.3	54.1	53.1	54.8	55.5
1933.9	45°	1769.5	1329.8	208.6	129.1	100.0	75.0	51.7	50.3	52.4	52.7
2156.5	47.5°	1913.7	1423.6	206.5	125.3	96.6	79.1	51.0	47.9	50.3	50.7
2394.2	50°	2059.6	1484.9	208.6	119.5	91.1	79.1	51.4	45.5	47.6	48.6
2640.8	52.5°	2206.5	1513.0	207.2	106.8	81.5	74.3	51.4	43.5	45.5	46.2
2907.2	55°	2349.0	1507.5	186.3	88.0	69.2	65.8	50.0	41.8	43.2	43.5
3158.9	57.5°	2461.6	1431.2	147.6	68.5	56.2	54.8	45.5	39.7	40.8	40.4
3389.7	60°	2520.5	1263.4	105.5	52.7	44.2	43.2	40.1	37.0	37.7	36.0
3585.3	62.5°	2521.2	1041.4	70.5	41.8	35.3	34.2	34.2	33.2	32.5	29.1
3736.6	65°	2467.5	795.2	46.9	33.2	28.4	26.7	28.8	28.4	26.0	21.2
3782.9	67.5°	2345.5	521.2	35.6	26.0	21.9	20.9	22.9	24.0	22.3	17.8
3614.4	70°	2094.9	303.4	29.5	20.2	16.4	15.4	18.5	20.5	18.5	14.4
3089.4	72.5°	1740.1	163.7	24.0	15.1	11.3	10.3	14.7	16.8	14.7	10.6
1982.2	75°	1129.1	87.7	18.5	9.9	5.8	6.5	11.0	12.3	10.3	6.8
581.8	77.5°	379.1	38.7	11.6	4.8	2.7	2.7	6.5	7.5	4.8	2.4
105.8	80°	84.6	16.1	4.8	2.1	1.0	1.0	1.4	1.4	0.7	0.0
32.5	82.5°	27.7	6.5	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
8.2	85°	10.6	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	4.1	0.3	0.0	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>
845.9
834.6
733.9
583.9
392.1
236.0
175.0
164.0
156.5
146.2
132.9
119.9
106.5
90.8
76.0
64.7
58.9
55.5
53.1
51.0
49.0
46.2
43.5
40.4
35.6
28.1
20.5
17.5
13.7
10.3
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