

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: P945507

Luminaire Tested: **GALN-SB1B-940-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-940-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

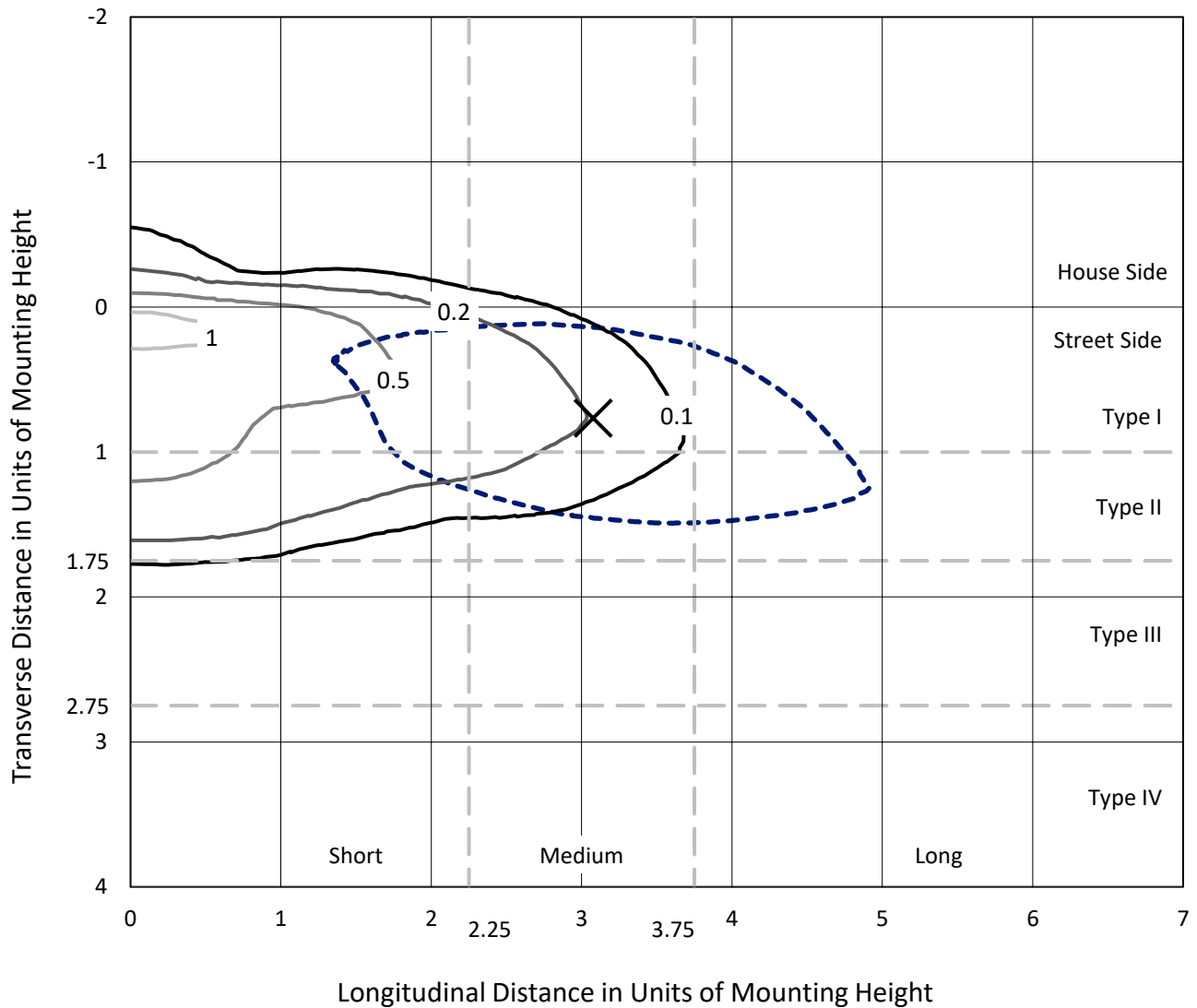
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

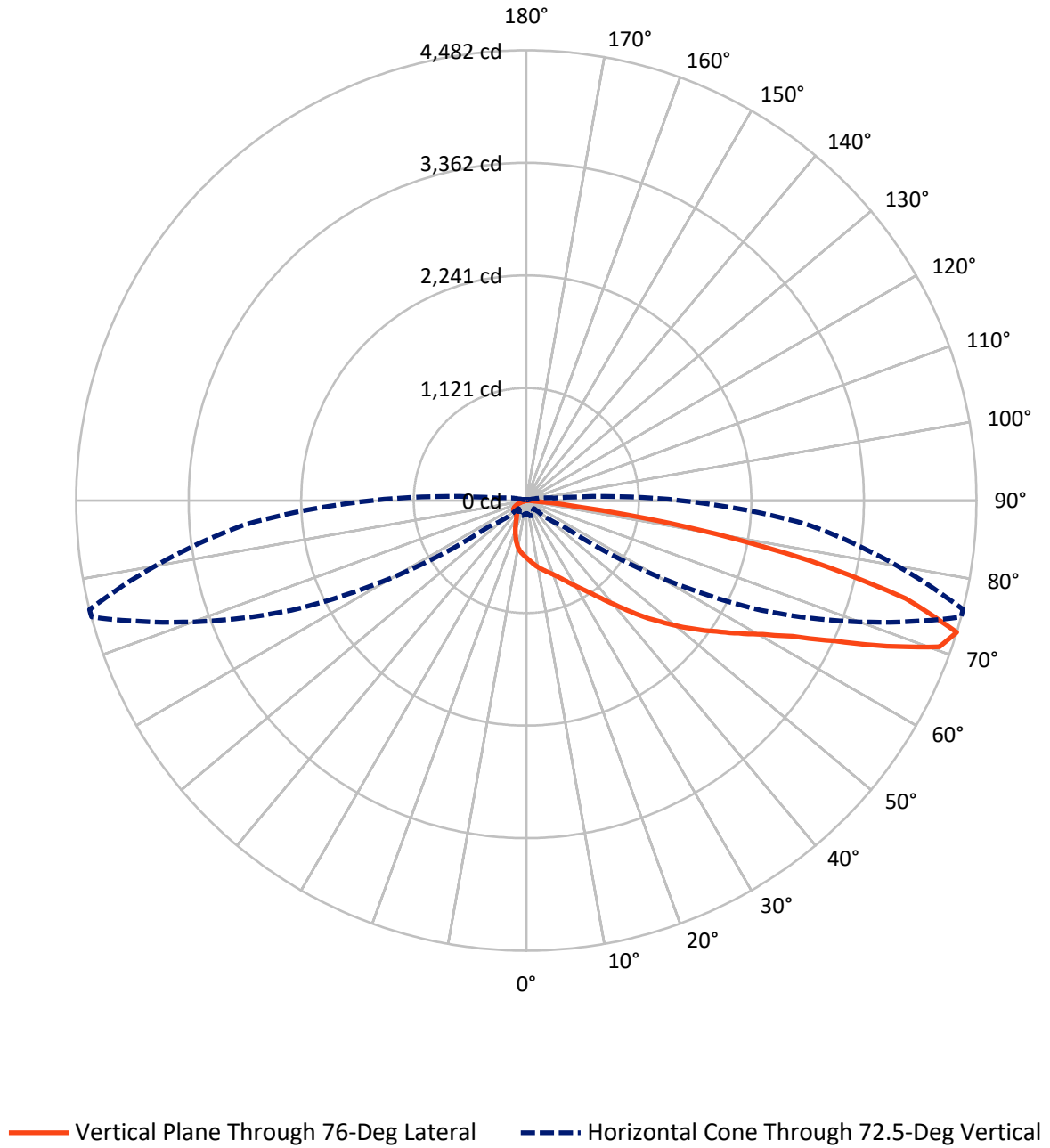
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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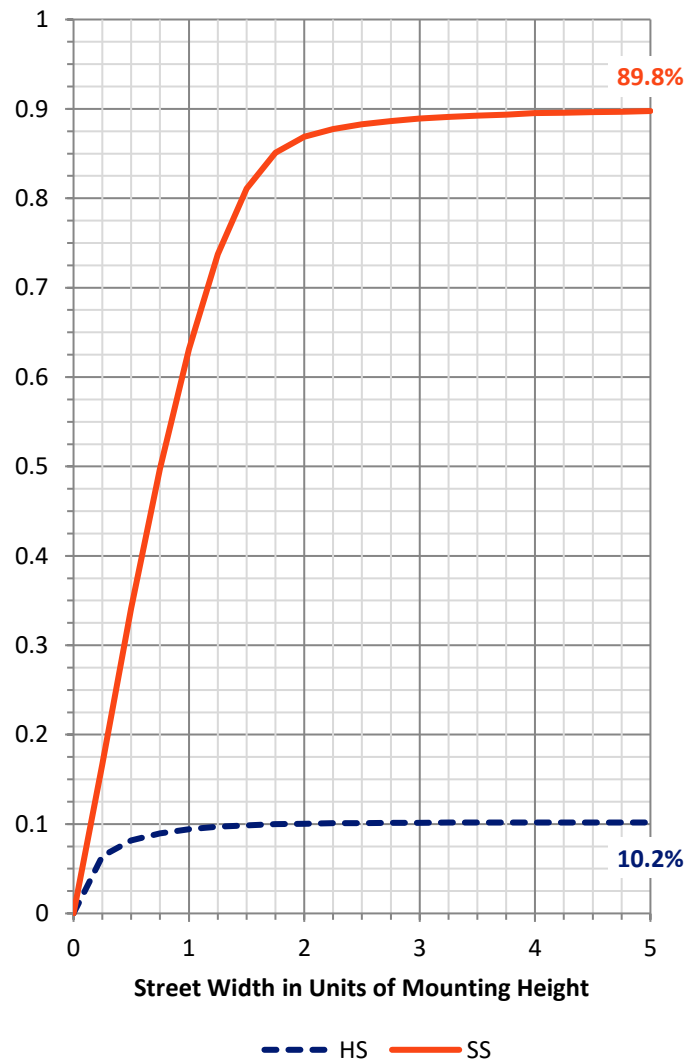
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.6	0.0	338.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	2969.4	0.0	2969.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	3308.0	0.0	3308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.6
10°-20°	139.4	4.2
20°-30°	220.6	6.7
30°-40°	341.4	10.3
40°-50°	518.5	15.7
50°-60°	714.8	21.6
60°-70°	755.1	22.8
70°-80°	518.0	15.7
80°-90°	48.2	1.5
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°	3308.0	100.0
0°-180°	3308.0	100.0

Coefficient of Utilization



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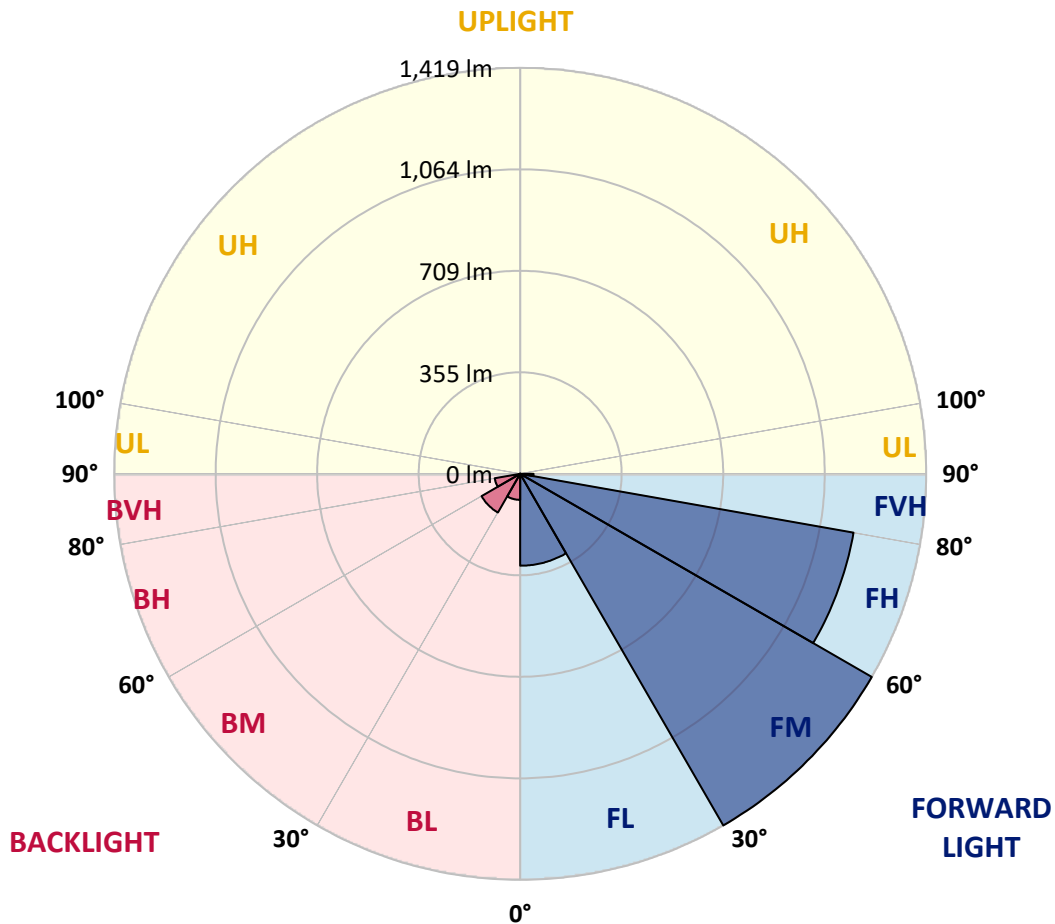
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.0	9.7			
FM (30°-60°)	1418.7	42.9			
FH (60°-80°)	1182.8	35.8			G1/1800
FVH (80°-90°)	46.9	1.4			G1/100
BL (0°-30°)	91.0	2.8	B0/110		
BM (30°-60°)	155.9	4.7	B0/220		
BH (60°-80°)	90.4	2.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7
2.5°	664.6	655.8	657.5	648.7	644.6	634.7	624.4	610.9	595.9	595.9
5°	734.5	728.9	728.9	718.6	710.7	695.3	676.8	653.0	624.7	621.9
7.5°	777.4	774.0	776.1	770.1	763.7	747.6	725.7	694.6	654.5	651.0
10°	785.8	785.6	791.6	793.3	797.6	789.5	769.9	734.1	683.9	678.9
12.5°	753.4	749.3	764.1	781.5	806.0	816.9	806.8	770.1	710.7	703.8
15°	700.2	701.0	715.2	742.0	782.8	821.9	834.9	805.3	738.0	729.8
17.5°	669.7	666.5	678.7	702.8	747.8	803.0	848.0	838.2	766.9	757.7
20°	666.1	665.9	668.6	679.6	713.9	775.9	846.5	870.1	801.0	790.3
22.5°	691.4	691.0	688.6	686.5	695.9	749.5	840.1	900.6	841.8	830.2
25°	730.2	729.6	725.9	712.8	703.6	735.4	834.1	928.9	890.1	877.2
27.5°	777.7	777.2	770.6	750.8	727.0	736.7	831.1	958.1	945.9	933.2
30°	835.8	834.9	821.2	793.3	762.2	757.1	835.2	990.9	1004.0	994.4
32.5°	908.8	906.4	888.4	846.3	802.8	784.3	842.9	1024.6	1072.9	1063.9
35°	965.2	961.5	951.0	913.9	849.8	817.8	860.9	1064.6	1155.7	1147.8
37.5°	1013.7	1010.0	1001.5	971.0	917.1	860.5	889.9	1117.8	1253.6	1249.7
40°	1066.1	1060.0	1056.0	1023.4	974.6	922.1	931.3	1180.0	1366.3	1366.7
42.5°	1106.4	1104.0	1104.5	1079.4	1030.2	995.0	986.2	1250.2	1501.2	1505.3
45°	1140.9	1139.0	1147.0	1129.4	1086.2	1042.9	1050.6	1329.6	1648.9	1657.2
47.5°	1167.6	1169.7	1181.1	1169.7	1144.4	1076.6	1107.7	1415.2	1804.0	1805.1
50°	1194.2	1195.0	1213.9	1208.3	1198.0	1119.3	1160.3	1510.9	1967.5	1969.4
52.5°	1202.5	1201.2	1231.3	1245.0	1245.4	1172.1	1228.3	1615.2	2127.8	2134.0
55°	1159.6	1163.3	1211.8	1267.5	1289.6	1245.0	1320.1	1747.1	2298.6	2301.2
57.5°	949.7	969.9	1077.2	1206.6	1318.2	1349.5	1452.1	1901.4	2495.8	2493.5
60°	576.4	600.4	728.7	1012.0	1225.1	1454.4	1646.5	2140.5	2711.3	2704.6
62.5°	322.3	329.6	370.6	605.8	931.7	1387.7	1836.4	2447.5	3000.5	2978.0
65°	237.5	239.9	249.6	296.8	457.9	1067.3	1794.8	2814.7	3406.9	3366.8
67.5°	206.4	208.8	218.2	224.7	204.5	560.7	1478.7	3018.3	3923.0	3870.4
70°	173.8	175.1	190.3	194.6	146.3	213.3	950.0	2955.5	4400.7	4363.1
72.5°	129.6	134.8	156.9	167.2	117.4	113.3	447.2	2584.0	4481.6	4482.0
75°	88.0	92.7	118.0	137.5	90.6	79.4	180.5	1929.5	3902.4	3902.4
77.5°	60.1	63.9	82.2	107.9	68.7	54.5	93.6	1224.6	2799.7	2898.2
80°	26.6	29.0	53.0	78.3	52.1	35.2	53.0	670.6	1693.1	1672.3
82.5°	13.1	15.0	33.9	48.9	33.7	21.7	27.9	318.9	548.7	521.4
85°	2.6	3.4	18.2	20.8	15.7	9.7	10.5	98.1	66.1	75.5
87.5°	0.0	0.0	5.6	3.9	1.7	2.1	2.1	8.8	5.2	6.0
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°
571.7	0°	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7
581.3	2.5°	573.6	565.6	548.3	531.1	513.5	497.4	486.2	475.1	468.2	465.2
594.2	5°	578.1	562.0	525.5	487.3	449.6	412.6	385.0	359.0	350.8	337.3
609.4	7.5°	585.2	559.0	501.5	437.1	375.7	321.7	282.6	251.5	239.0	227.0
622.5	10°	589.9	553.4	469.7	383.7	300.6	239.9	202.6	180.0	171.9	164.6
634.7	12.5°	591.8	543.1	433.2	323.8	233.9	182.8	160.5	150.0	147.2	144.6
646.3	15°	593.5	533.0	392.5	266.1	184.8	153.0	144.2	140.8	138.8	137.1
658.1	17.5°	595.0	520.2	345.9	216.3	156.0	141.0	136.7	133.0	131.5	129.6
675.1	20°	600.2	507.7	304.3	178.5	140.3	132.4	127.7	123.8	122.5	121.2
699.1	22.5°	609.8	497.6	263.9	153.0	130.9	123.6	117.6	113.3	112.4	111.6
728.3	25°	621.4	485.2	226.0	136.5	121.7	113.5	106.9	103.2	102.4	102.6
762.0	27.5°	636.2	471.4	193.3	126.0	113.5	104.1	96.6	93.8	94.2	95.1
800.8	30°	652.5	458.8	167.8	118.7	106.2	95.7	88.2	86.3	87.8	89.1
852.8	32.5°	676.8	447.6	150.0	112.9	99.8	88.8	82.8	80.5	82.2	83.9
919.1	35°	709.8	442.0	139.9	107.9	94.2	83.5	77.5	75.7	77.5	77.9
1000.0	37.5°	750.4	441.6	135.6	103.9	89.1	79.0	72.3	71.7	73.0	73.2
1097.2	40°	802.8	444.4	132.4	100.9	83.7	73.8	67.6	67.0	67.4	68.9
1214.1	42.5°	869.1	456.0	127.9	97.0	77.9	68.7	63.7	62.2	62.0	63.7
1345.0	45°	952.3	481.5	121.9	90.8	72.7	64.4	59.4	57.7	57.1	57.5
1480.2	47.5°	1043.1	512.9	115.9	85.0	69.1	60.9	56.0	53.9	52.8	52.8
1606.6	50°	1131.1	548.3	111.8	79.0	66.5	57.7	52.4	50.2	48.5	48.1
1736.6	52.5°	1218.2	583.0	108.6	73.0	63.5	53.6	48.9	46.6	44.6	43.8
1865.4	55°	1297.6	616.1	103.0	67.2	59.7	49.4	45.5	43.1	40.8	39.3
1995.8	57.5°	1373.8	643.5	92.7	61.2	53.6	45.3	41.8	39.3	36.5	34.5
2127.8	60°	1443.1	657.7	79.8	54.7	47.6	41.0	37.8	35.4	31.8	28.5
2257.6	62.5°	1495.9	652.1	65.9	47.4	41.4	37.1	33.0	30.7	26.4	22.5
2413.2	65°	1549.9	621.6	52.6	39.7	36.3	32.0	27.7	25.3	20.4	16.3
2623.7	67.5°	1620.1	556.6	41.4	33.0	31.3	25.3	21.7	20.2	16.7	12.9
2849.7	70°	1665.2	432.4	32.2	26.8	25.8	18.5	16.7	16.5	13.3	9.9
2834.4	72.5°	1541.6	283.5	24.7	20.4	18.5	12.0	12.9	12.9	9.7	6.7
2484.7	75°	1286.9	165.9	17.8	14.6	10.5	7.7	8.8	8.8	6.0	3.2
1771.0	77.5°	919.1	88.4	11.8	9.0	5.4	3.4	4.7	4.5	1.9	0.2
694.2	80°	351.5	30.5	5.6	3.6	1.5	0.6	0.4	0.2	0.2	0.0
108.4	82.5°	53.6	7.9	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
23.0	85°	9.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	2.1	0.0	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>
571.7
465.6
338.2
226.8
164.4
144.6
137.1
129.6
121.5
110.9
102.1
94.6
88.6
83.5
77.7
72.7
68.7
63.5
58.2
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