

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: P946781

Luminaire Tested: **GALN-SB2B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7543 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

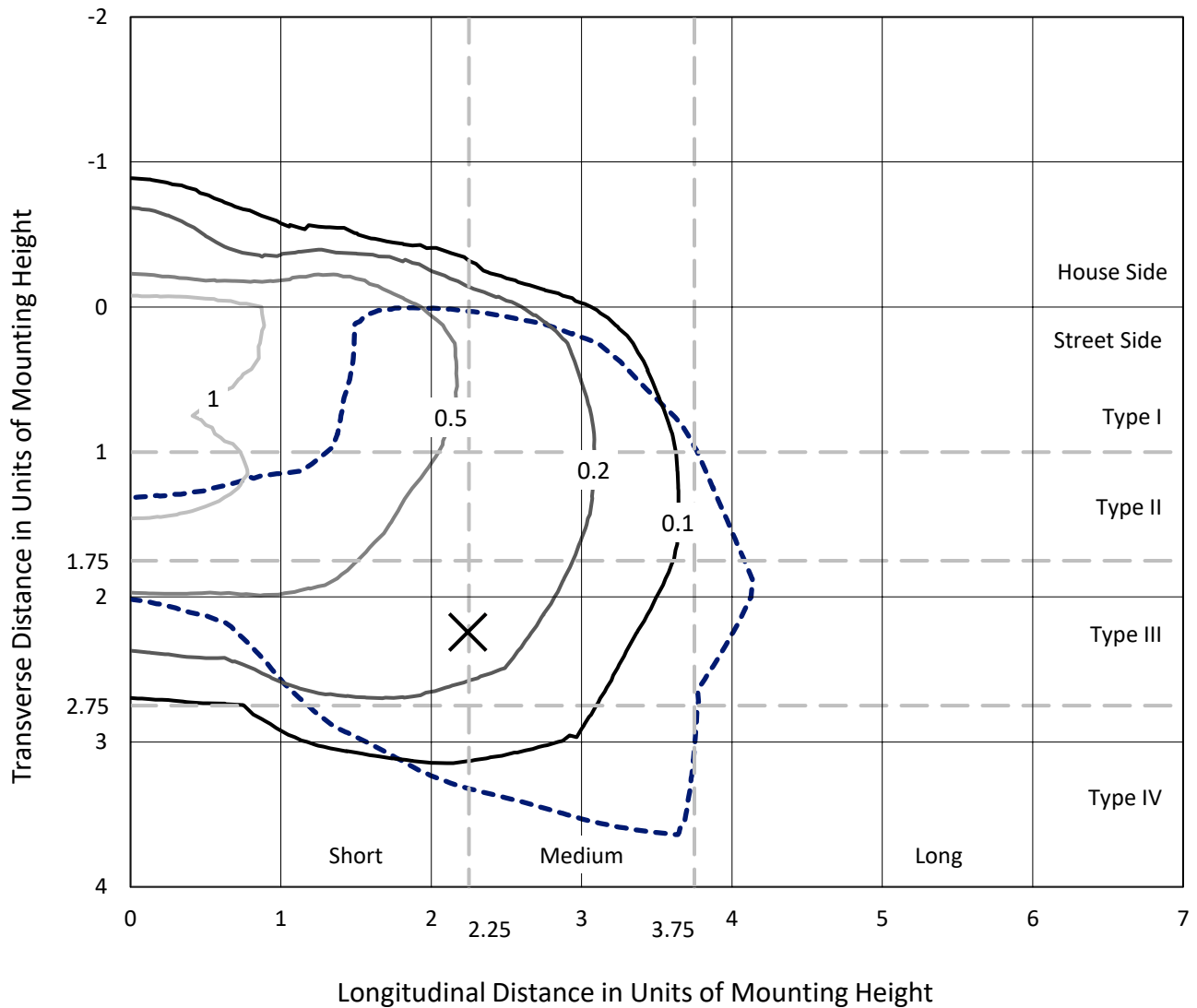
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

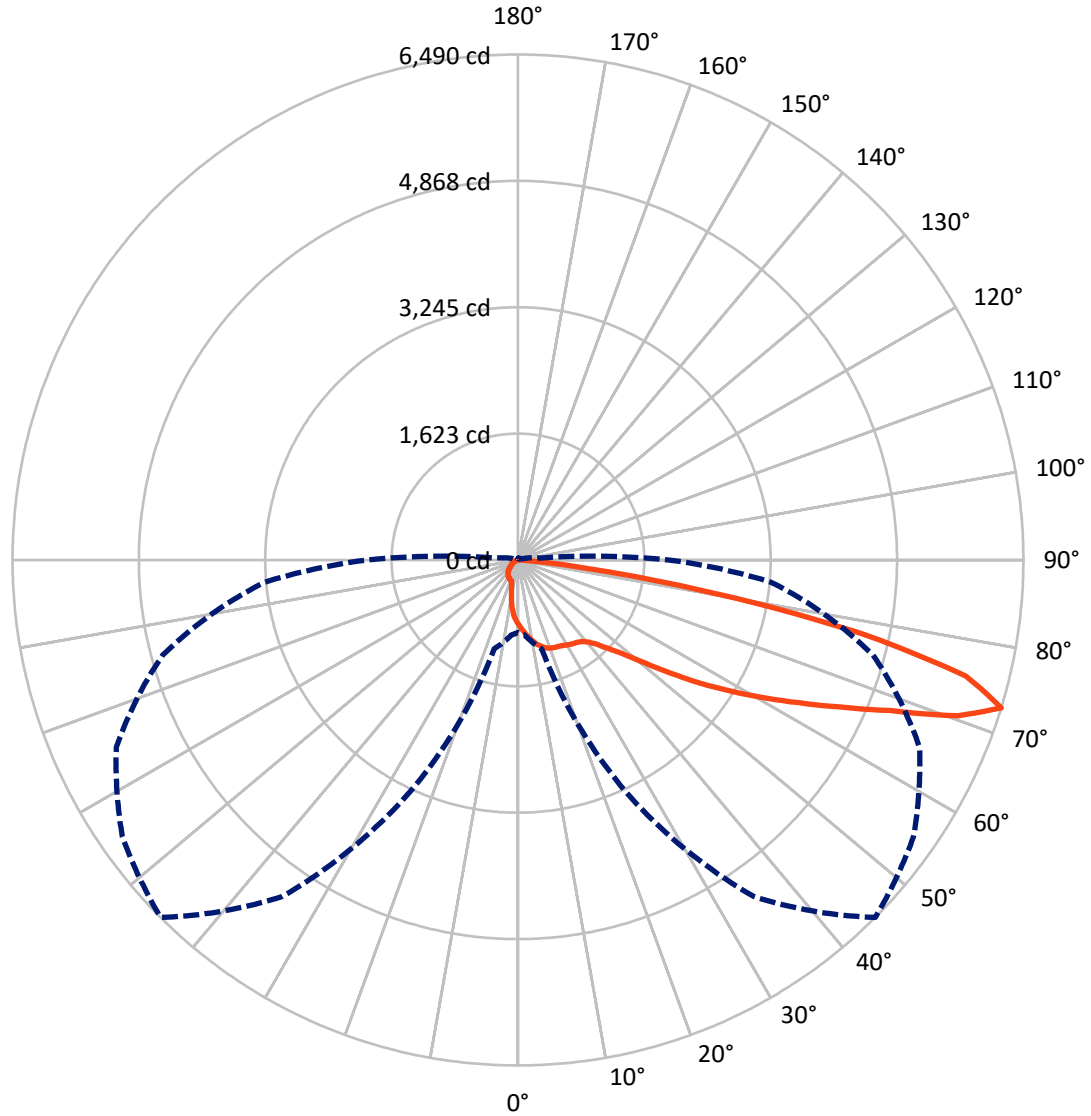
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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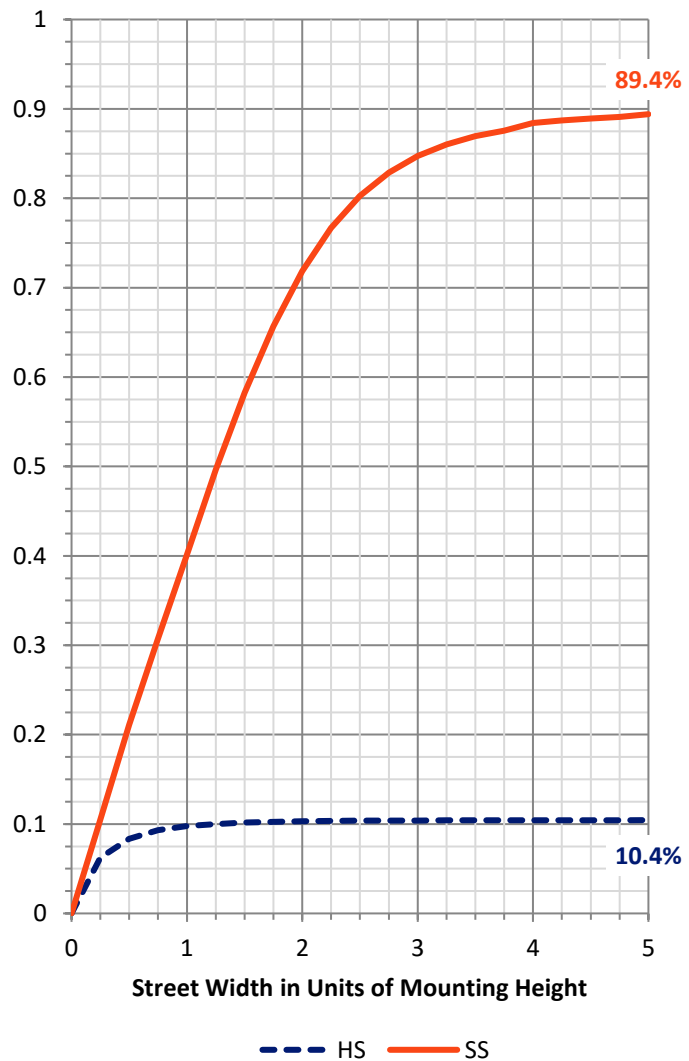
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.6	0.0	792.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6750.4	0.0	6750.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	7543.0	0.0	7543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	227.5	3.0
20°-30°	373.7	5.0
30°-40°	530.0	7.0
40°-50°	876.0	11.6
50°-60°	1573.6	20.9
60°-70°	2185.0	29.0
70°-80°	1584.9	21.0
80°-90°	114.6	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°	7543.0	100.0
0°-180°	7543.0	100.0

Coefficient of Utilization



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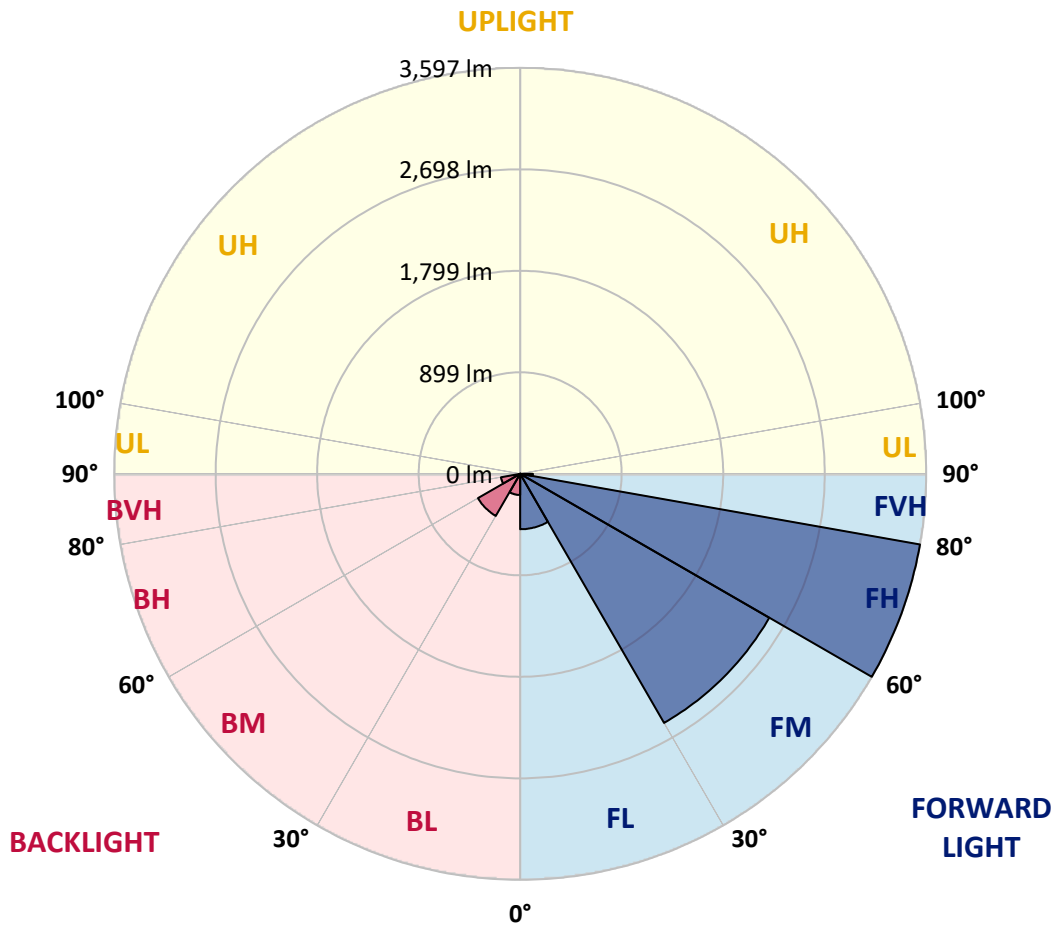
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.4	6.5			
FM (30°-60°)	2548.4	33.8			
FH (60°-80°)	3597.0	47.7			G2/5000
FVH (80°-90°)	113.6	1.5			G2/225
BL (0°-30°)	187.7	2.5	B1/500		
BM (30°-60°)	431.0	5.7	B1/1000		
BH (60°-80°)	172.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
2.5°	902.6	904.1	903.1	896.9	886.6	880.9	877.8	867.5	860.8	849.0
5°	985.4	991.6	988.0	975.7	956.1	942.2	938.1	917.0	897.9	875.8
7.5°	1073.5	1076.6	1069.9	1053.9	1027.7	1004.0	1000.4	971.0	940.7	906.7
10°	1149.7	1153.3	1143.0	1119.8	1090.0	1060.6	1055.5	1023.0	987.0	945.3
12.5°	1213.5	1217.1	1203.7	1175.9	1143.0	1112.6	1107.5	1073.5	1033.8	987.5
15°	1261.9	1268.6	1250.6	1220.7	1185.2	1154.8	1152.3	1118.8	1080.2	1028.7
17.5°	1290.2	1296.9	1279.9	1243.9	1213.5	1187.8	1184.7	1156.9	1120.9	1071.4
20°	1294.9	1301.1	1283.0	1251.6	1226.4	1205.8	1204.3	1184.2	1157.9	1110.6
22.5°	1281.0	1288.7	1272.2	1247.0	1229.5	1218.7	1216.6	1205.3	1190.4	1150.2
25°	1266.6	1272.7	1260.4	1238.2	1229.0	1227.9	1229.5	1227.4	1224.3	1190.4
27.5°	1265.5	1272.2	1258.3	1237.2	1232.1	1242.9	1244.4	1254.2	1256.8	1226.9
30°	1274.3	1278.9	1265.5	1243.4	1240.8	1265.5	1266.0	1283.5	1287.7	1257.8
32.5°	1293.3	1298.5	1285.1	1252.7	1249.1	1283.5	1285.1	1308.3	1315.0	1290.8
35°	1338.1	1344.3	1328.9	1278.4	1265.5	1300.5	1305.2	1332.5	1345.8	1325.8
37.5°	1449.8	1431.8	1410.7	1330.4	1303.1	1327.3	1335.0	1367.0	1390.6	1367.5
40°	1727.4	1670.7	1604.8	1419.0	1369.0	1384.5	1390.6	1422.6	1455.0	1432.3
42.5°	2143.9	2076.9	1970.9	1622.8	1468.4	1476.1	1480.7	1508.5	1554.4	1536.3
45°	2515.1	2490.9	2382.8	1970.9	1654.2	1616.1	1621.8	1636.2	1703.7	1697.0
47.5°	2800.3	2786.4	2703.0	2370.4	1968.3	1787.6	1803.6	1810.3	1907.6	1931.2
50°	3019.7	3014.5	2939.9	2725.7	2378.7	2040.4	2046.1	2031.6	2177.3	2236.0
52.5°	3226.6	3244.1	3189.0	3055.7	2816.8	2371.4	2370.4	2302.5	2499.1	2587.7
55°	3413.5	3419.7	3425.4	3392.4	3257.5	2748.3	2738.5	2627.3	2872.4	2964.1
57.5°	3589.1	3591.7	3642.1	3709.6	3716.3	3153.0	3135.0	3001.6	3280.2	3345.6
60°	3707.0	3718.8	3825.4	4012.8	4094.7	3570.6	3560.8	3424.9	3695.2	3725.5
62.5°	3537.1	3609.2	3877.9	4249.7	4452.0	4033.4	4028.8	3901.1	4131.8	4107.0
65°	2863.1	2985.2	3457.8	4409.8	4802.6	4550.3	4557.0	4421.1	4580.2	4499.9
67.5°	2002.8	2131.5	2690.7	4422.7	5194.4	5157.4	5196.0	4982.8	5056.4	4876.2
70°	1385.0	1451.4	1815.4	4145.7	5499.7	5993.5	5992.5	5672.7	5530.1	5047.7
72.5°	931.4	965.9	1179.0	3288.9	5275.3	6490.3	6460.5	6200.0	5689.7	4720.8
75°	392.8	418.1	545.8	1848.4	4173.5	5937.9	5857.1	5479.1	5055.4	3717.3
77.5°	124.6	135.4	215.2	661.6	2298.9	4463.3	4377.9	3421.8	3388.3	1864.8
80°	59.2	69.0	121.0	265.7	904.6	2427.6	2415.7	1552.3	1457.6	503.5
82.5°	25.7	30.4	66.9	142.1	404.7	866.0	883.5	528.2	437.1	191.0
85°	8.2	10.8	30.9	65.4	170.9	215.2	212.6	125.6	176.1	104.0
87.5°	0.0	0.0	10.3	14.9	17.5	12.4	13.9	10.8	48.9	28.8
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°
826.4	0°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
836.6	2.5°	830.5	822.2	807.8	794.4	782.6	770.7	763.5	753.2	752.2	752.2
850.0	5°	836.1	822.7	797.0	769.7	738.3	708.4	678.6	649.8	640.5	633.8
871.7	7.5°	852.6	831.5	790.8	738.8	679.1	613.7	567.9	518.5	499.4	489.1
900.5	10°	876.3	847.5	785.7	694.5	597.8	508.7	443.3	389.7	369.2	360.4
931.9	12.5°	902.6	867.0	776.4	639.5	508.7	402.1	338.3	313.6	310.5	310.5
969.5	15°	934.0	890.7	760.4	574.6	415.5	318.2	295.5	296.6	299.6	301.7
1006.0	17.5°	966.4	915.9	735.2	502.0	333.1	286.3	286.8	288.3	290.9	293.0
1045.7	20°	1001.4	941.2	701.8	424.8	285.7	277.0	278.5	280.1	282.1	283.2
1082.8	22.5°	1039.0	964.8	662.1	349.1	269.8	269.3	269.8	271.3	273.9	273.9
1126.0	25°	1079.1	991.1	616.8	294.0	261.5	261.5	262.6	263.6	265.7	265.7
1167.7	27.5°	1120.3	1015.3	568.9	265.2	254.3	253.8	253.8	255.4	256.4	256.9
1208.9	30°	1165.6	1043.6	521.0	259.0	248.7	246.1	244.6	245.6	246.6	247.1
1252.1	32.5°	1212.0	1070.9	478.3	261.5	243.0	238.4	233.2	232.2	232.2	234.3
1296.9	35°	1263.5	1100.8	445.4	270.3	239.9	227.1	218.8	214.2	214.7	217.8
1350.5	37.5°	1325.3	1136.8	421.2	278.0	237.9	214.2	200.8	195.1	191.5	195.1
1424.1	40°	1406.1	1189.8	403.7	284.2	235.3	199.3	181.2	172.0	165.3	167.3
1538.4	42.5°	1525.0	1273.3	397.0	284.7	229.6	181.7	161.2	148.8	139.0	139.5
1710.4	45°	1691.8	1405.1	431.5	278.0	217.3	162.7	140.0	123.6	117.4	115.8
1967.3	47.5°	1920.4	1597.1	511.3	264.1	199.3	144.2	119.4	105.5	100.9	98.3
2304.5	50°	2226.8	1843.7	599.8	248.7	181.2	126.7	102.5	93.7	90.6	88.0
2704.6	52.5°	2582.0	2093.9	672.4	233.2	163.2	111.2	91.6	86.5	83.9	81.9
3090.7	55°	2907.9	2266.4	668.3	216.8	145.7	98.9	83.9	80.8	77.7	75.7
3423.3	57.5°	3110.8	2290.6	550.9	198.7	125.6	89.1	76.7	74.7	71.1	68.5
3711.1	60°	3204.0	2152.6	386.1	175.1	105.5	79.8	69.0	68.0	63.3	59.7
3983.5	62.5°	3221.0	1896.2	257.4	145.7	88.0	71.1	61.3	59.7	53.5	47.4
4204.9	65°	3152.0	1529.7	178.1	113.8	75.2	61.8	52.5	49.4	42.7	36.6
4257.4	67.5°	2933.7	1074.0	124.1	81.9	63.8	48.9	41.7	40.7	35.5	30.4
3989.7	70°	2533.6	612.2	82.9	61.3	50.5	33.5	33.0	34.0	28.8	24.7
3259.6	72.5°	1942.6	280.1	51.5	44.8	34.5	22.7	26.3	26.8	22.1	18.5
2033.7	75°	1143.5	120.0	32.4	28.8	17.5	14.9	19.0	19.6	14.9	11.8
743.5	77.5°	389.2	45.3	20.6	17.0	8.8	8.2	12.4	12.4	8.2	4.6
149.3	80°	88.6	17.0	10.3	6.7	4.1	3.6	4.1	3.6	2.1	0.5
45.8	82.5°	25.2	6.7	4.1	2.6	1.5	1.5	0.5	0.0	0.0	0.0
16.0	85°	7.2	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	3.1	0.5	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>
826.4
754.8
636.9
490.7
360.4
310.5
301.7
293.0
283.7
274.9
266.2
257.4
248.2
235.8
219.3
194.1
166.3
137.5
113.8
96.8
87.5
81.3
74.7
68.0
58.7
44.3
34.5
28.8
22.7
16.5
10.3
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