

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: P945352

Luminaire Tested: **GALN-SB1B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5028 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

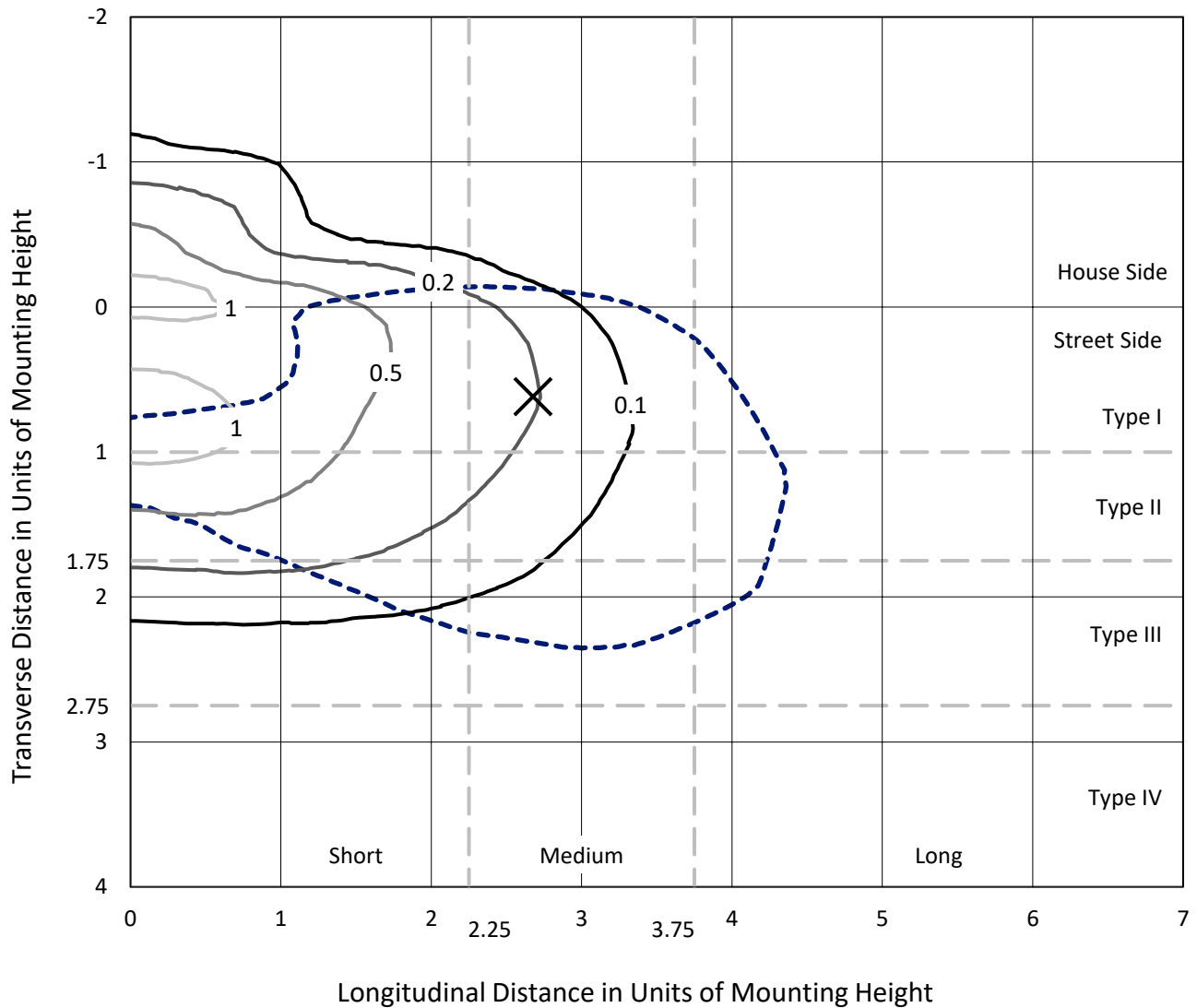
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

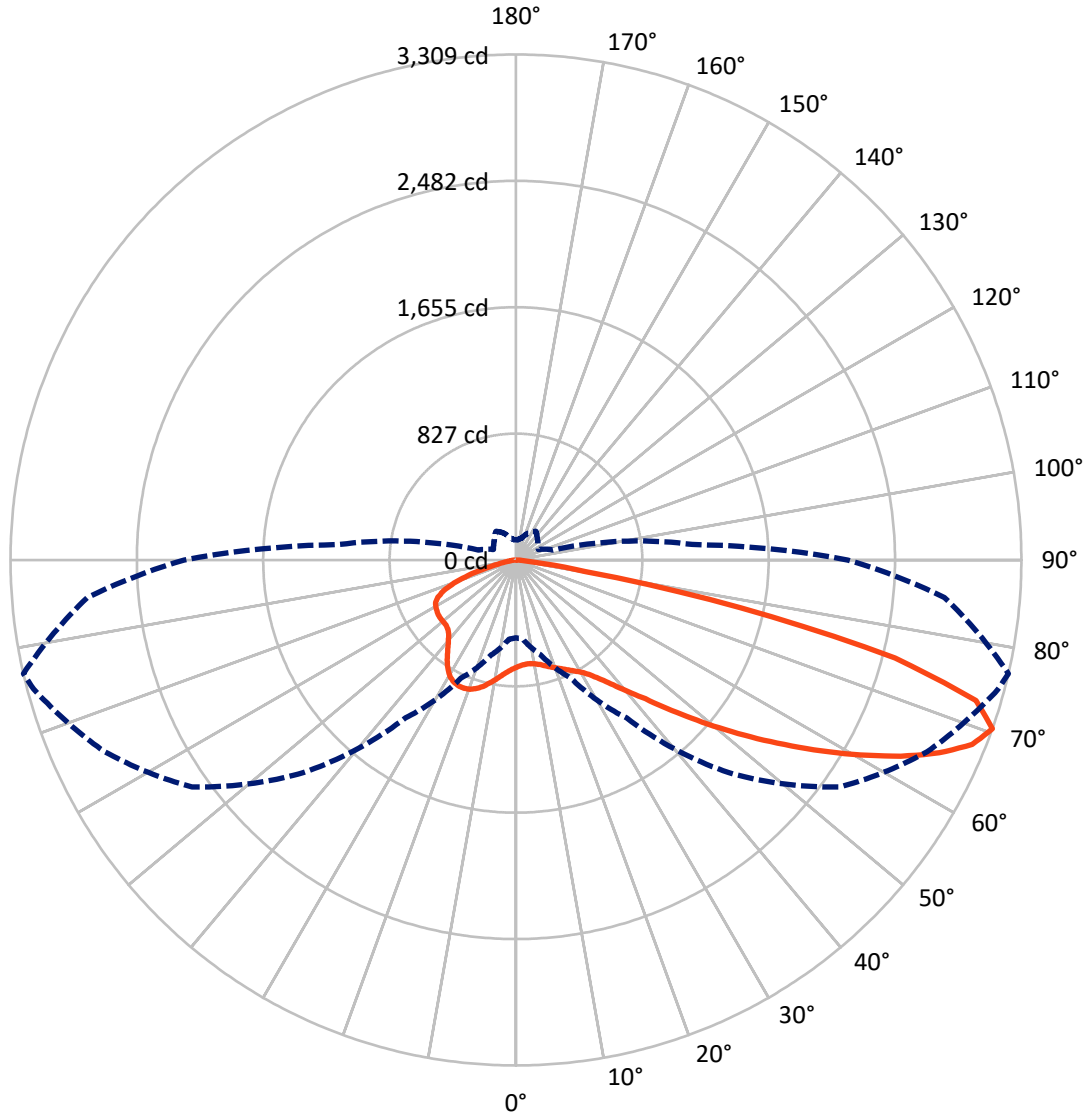
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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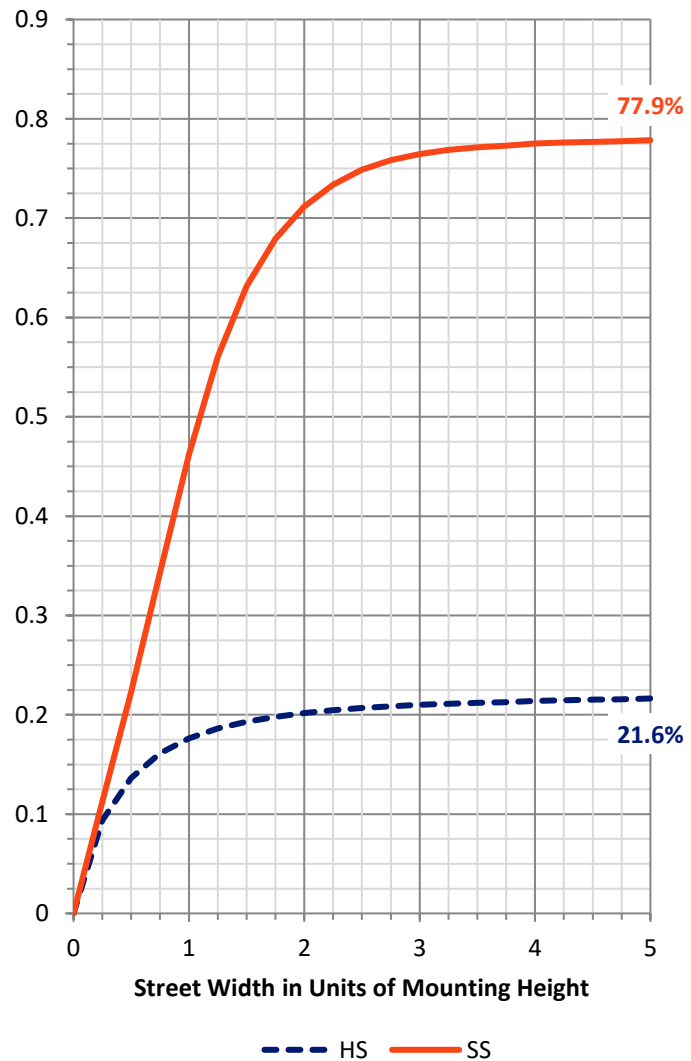
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.1	0.0	1101.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3927.0	0.0	3927.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	5028.0	0.0	5028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.3
10°-20°	193.1	3.8
20°-30°	330.2	6.6
30°-40°	531.0	10.6
40°-50°	829.0	16.5
50°-60°	1107.4	22.0
60°-70°	1180.3	23.5
70°-80°	726.6	14.5
80°-90°	63.7	1.3
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°	5028.0	100.0
0°-180°	5028.0	100.0

Coefficient of Utilization



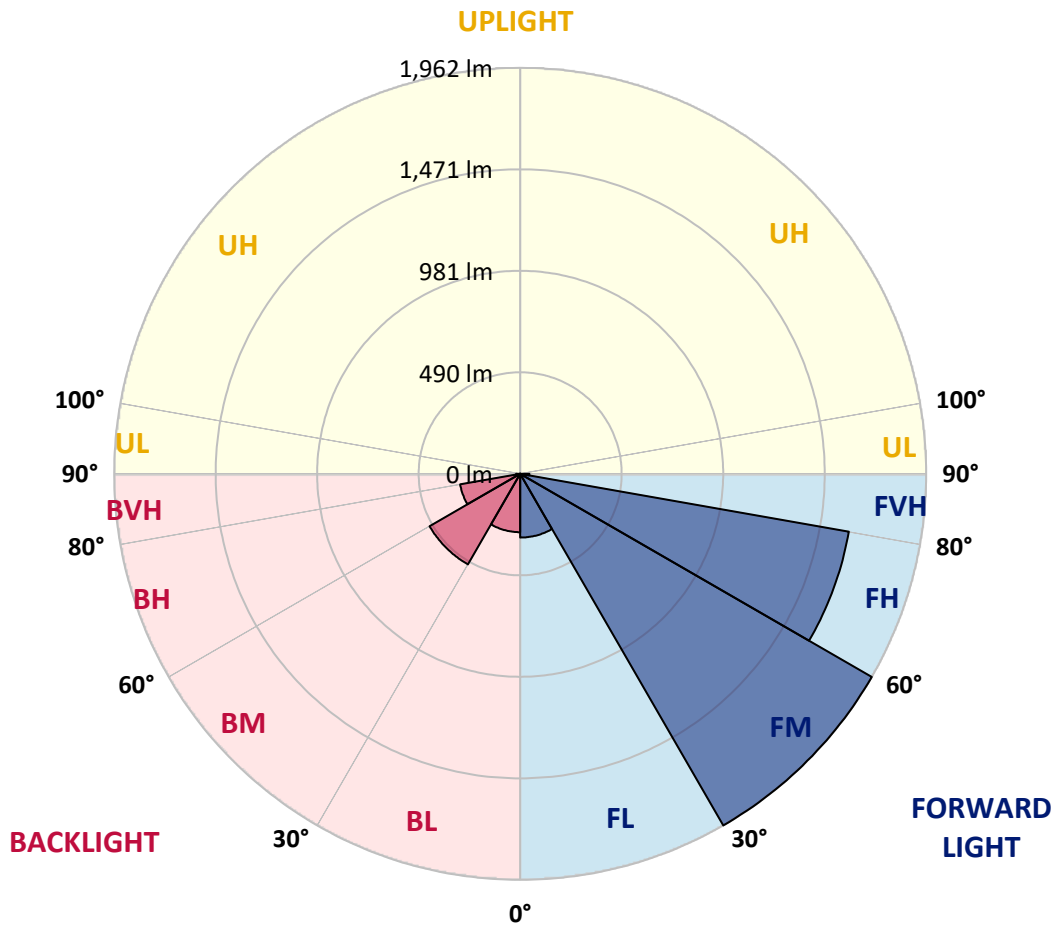
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.0	6.1			
FM (30°-60°)	1961.8	39.0			
FH (60°-80°)	1612.6	32.1			G1/1800
FVH (80°-90°)	44.5	0.9			G1/100
BL (0°-30°)	282.1	5.6	B1/500		
BM (30°-60°)	505.5	10.1	B1/1000		
BH (60°-80°)	294.3	5.9	B1/500		G1/500
BVH (80°-90°)	19.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5
2.5°	646.6	646.3	649.7	650.7	656.9	661.3	669.5	678.3	689.6	690.9
5°	609.3	609.3	613.1	617.2	625.2	634.0	646.6	661.8	681.4	684.5
7.5°	577.6	579.7	583.0	591.0	600.3	612.9	632.2	653.8	679.6	684.5
10°	552.1	554.4	558.5	565.0	578.9	596.4	621.6	649.4	683.9	691.7
12.5°	544.1	546.4	548.7	553.6	566.5	587.1	617.2	651.5	694.5	702.2
15°	562.7	565.5	563.7	562.4	569.1	587.9	619.3	659.0	707.6	718.7
17.5°	605.4	606.4	602.3	590.2	589.2	599.2	629.1	669.3	724.1	736.2
20°	674.4	672.6	664.1	640.2	626.5	624.5	645.8	684.7	741.1	754.0
22.5°	768.1	766.1	749.1	711.2	680.9	660.8	670.0	704.8	760.2	774.6
25°	885.1	882.2	857.2	805.7	758.6	708.9	703.0	731.3	783.6	797.0
27.5°	1021.5	1019.2	992.2	924.2	856.2	774.8	743.9	762.5	808.1	823.3
30°	1168.3	1175.0	1127.1	1054.0	968.0	860.8	799.0	800.8	839.7	853.4
32.5°	1340.8	1352.4	1294.8	1202.0	1084.6	954.3	868.6	854.4	885.8	897.2
35°	1511.8	1525.0	1477.1	1374.6	1239.4	1064.5	941.2	916.0	947.1	959.5
37.5°	1659.6	1677.1	1652.4	1563.3	1405.0	1197.4	1036.0	988.3	1022.6	1038.0
40°	1776.3	1803.1	1801.3	1745.6	1600.2	1358.6	1156.2	1077.7	1116.3	1133.0
42.5°	1871.1	1894.2	1914.3	1911.5	1803.8	1541.7	1297.6	1193.8	1223.2	1242.5
45°	1936.5	1961.2	2004.4	2051.1	1999.8	1737.7	1459.6	1331.6	1358.4	1387.5
47.5°	1994.9	2023.0	2079.1	2153.0	2166.2	1934.4	1637.0	1492.0	1516.5	1546.6
50°	2000.1	2024.3	2111.3	2216.1	2284.4	2123.4	1827.5	1672.0	1694.9	1727.1
52.5°	1875.7	1913.8	2065.7	2214.3	2338.7	2281.5	2016.8	1859.2	1885.0	1923.6
55°	1456.0	1511.8	1932.1	2145.3	2319.4	2383.8	2196.8	2058.3	2091.2	2131.7
57.5°	1254.1	1278.5	1533.7	2019.6	2231.3	2410.3	2348.7	2259.4	2312.4	2356.7
60°	1127.1	1147.5	1298.4	1824.2	2115.4	2368.3	2466.2	2446.8	2538.5	2591.3
62.5°	991.1	1010.5	1147.7	1523.2	1967.1	2298.5	2540.3	2619.9	2770.3	2828.0
65°	856.2	872.7	1004.3	1279.8	1778.6	2228.7	2578.7	2769.5	2984.8	3044.5
67.5°	705.8	719.5	843.9	1079.7	1549.4	2133.2	2597.7	2887.2	3171.5	3222.7
70°	509.4	519.9	648.4	853.9	1261.8	1968.9	2590.0	2970.6	3268.3	3309.2
72.5°	240.8	250.3	401.2	554.4	891.2	1649.1	2433.7	2904.4	3169.9	3149.6
75°	128.5	136.7	230.5	304.1	470.7	1130.5	1991.6	2501.9	2661.9	2563.0
77.5°	87.0	93.5	142.7	182.6	215.0	536.6	1280.1	1732.3	1666.6	1503.3
80°	69.0	75.7	116.9	123.6	104.0	193.9	528.9	801.9	576.0	460.7
82.5°	53.0	60.5	98.4	89.6	56.7	79.6	154.0	253.6	147.6	112.3
85°	32.4	40.4	77.3	57.2	31.9	36.3	52.3	70.6	45.1	37.6
87.5°	16.5	23.2	39.1	20.9	14.4	8.5	13.9	13.9	11.8	10.3
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°
701.5	0°	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5
697.8	2.5°	704.0	709.2	717.9	726.2	732.6	738.8	745.0	748.3	749.3	753.5
701.7	5°	712.3	721.8	738.8	754.8	764.8	771.0	775.4	777.9	778.4	779.7
712.3	7.5°	727.5	742.7	766.3	782.3	789.8	789.3	787.5	781.0	778.4	776.1
727.7	10°	748.8	768.9	798.0	809.1	804.5	792.1	776.1	757.3	748.6	740.1
748.8	12.5°	775.4	800.8	829.4	828.9	806.0	774.3	737.2	708.4	690.1	677.0
774.8	15°	807.5	836.9	858.8	841.3	791.1	734.2	679.8	642.2	625.7	611.3
801.1	17.5°	840.8	872.2	882.2	837.4	753.5	674.7	613.1	583.5	567.3	559.6
829.4	20°	873.2	904.4	896.1	815.3	696.3	607.2	552.4	536.1	532.8	534.6
857.0	22.5°	907.5	935.3	899.0	772.5	623.4	538.2	508.1	508.6	516.0	521.5
885.8	25°	942.5	961.3	891.5	710.7	545.1	487.5	480.0	488.2	502.9	513.5
918.3	27.5°	976.2	984.5	875.3	634.2	477.9	451.2	452.4	469.4	491.6	506.3
957.7	30°	1014.3	1005.1	844.1	548.2	431.3	420.0	430.8	450.6	472.8	485.9
1007.4	32.5°	1057.3	1022.8	794.7	468.7	398.4	395.0	412.8	425.7	435.4	439.3
1073.3	35°	1110.9	1047.8	731.3	412.8	368.8	376.7	393.7	387.3	383.4	381.4
1161.9	37.5°	1180.4	1081.5	657.2	376.5	344.8	363.6	370.6	350.5	335.3	327.8
1269.3	40°	1264.1	1131.0	585.8	348.4	329.6	352.3	340.2	316.0	296.6	286.1
1390.0	42.5°	1357.1	1182.7	525.8	327.3	321.1	343.0	317.8	288.9	257.8	254.4
1534.0	45°	1454.7	1236.0	484.9	311.1	317.0	335.0	304.9	258.3	236.1	249.8
1678.4	47.5°	1552.3	1285.0	460.2	299.0	314.9	326.0	293.6	241.3	225.6	245.4
1833.2	50°	1660.9	1328.7	449.1	290.2	312.6	322.4	276.6	236.9	214.5	227.6
1993.4	52.5°	1768.8	1362.7	440.9	281.5	309.3	319.6	268.3	231.8	201.1	201.9
2154.6	55°	1876.5	1384.9	431.8	269.9	301.8	313.4	267.6	226.1	191.1	187.5
2325.0	57.5°	1991.3	1397.5	420.8	257.0	288.9	297.7	266.8	221.7	188.0	182.1
2499.4	60°	2108.2	1416.0	406.3	241.3	271.7	278.9	265.0	220.2	186.2	176.1
2663.7	62.5°	2213.0	1422.5	389.1	226.3	249.5	260.3	261.1	218.9	181.3	164.0
2800.1	65°	2281.8	1394.7	359.0	209.4	225.6	241.3	253.6	214.5	172.5	155.3
2867.6	67.5°	2278.9	1315.4	311.8	187.5	202.4	220.2	242.8	207.0	162.0	144.5
2816.6	70°	2172.9	1158.8	252.1	162.0	176.9	197.5	228.9	196.0	149.4	132.6
2504.5	72.5°	1863.6	906.9	183.1	132.1	147.3	174.1	210.9	182.6	136.5	122.1
1851.0	75°	1331.3	574.0	124.1	101.5	114.6	147.6	188.5	166.9	124.6	122.6
927.0	77.5°	680.1	274.2	82.1	74.2	79.8	116.4	158.4	149.1	126.4	101.2
263.7	80°	221.2	101.2	51.8	50.5	53.0	77.5	122.6	122.3	95.8	68.8
63.9	82.5°	70.6	43.5	33.7	32.4	31.2	48.7	85.5	96.8	64.6	43.5
22.9	85°	28.1	26.0	19.8	18.3	13.1	22.9	44.8	64.4	48.2	31.4
5.9	87.5°	10.3	10.3	5.4	3.9	2.8	7.7	12.1	19.3	27.6	16.2
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>
701.5
755.8
781.8
776.6
737.5
673.9
609.8
561.9
533.8
522.7
516.3
509.9
489.0
441.4
383.4
329.6
286.9
257.8
257.0
254.7
237.4
207.3
190.0
182.8
176.9
164.0
155.3
145.2
134.2
121.3
115.6
90.1
60.8
43.3
32.2
16.0
0.0

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