

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: P938986

Luminaire Tested: **GALN-SB1B-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938986
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-SB1B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

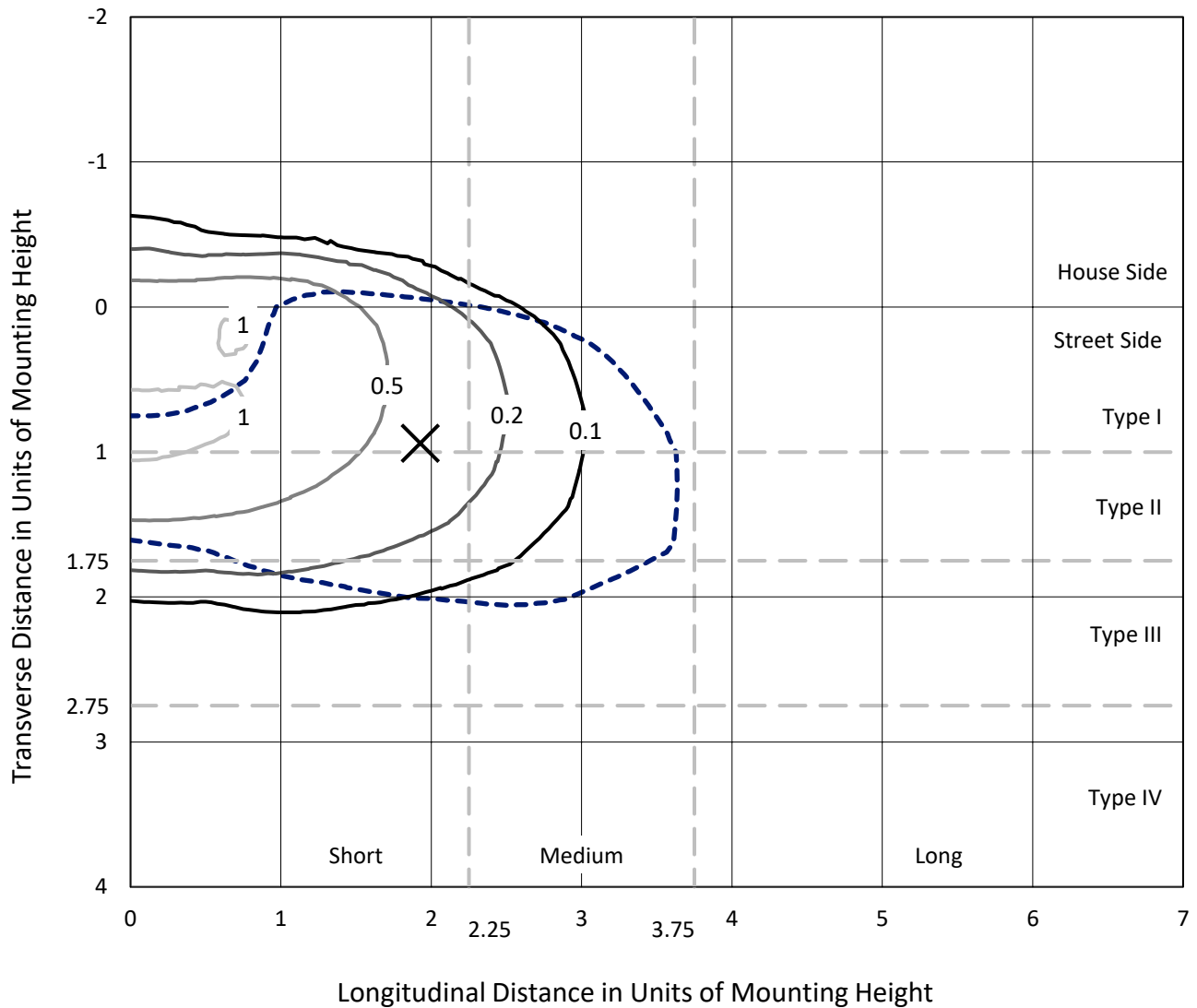
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

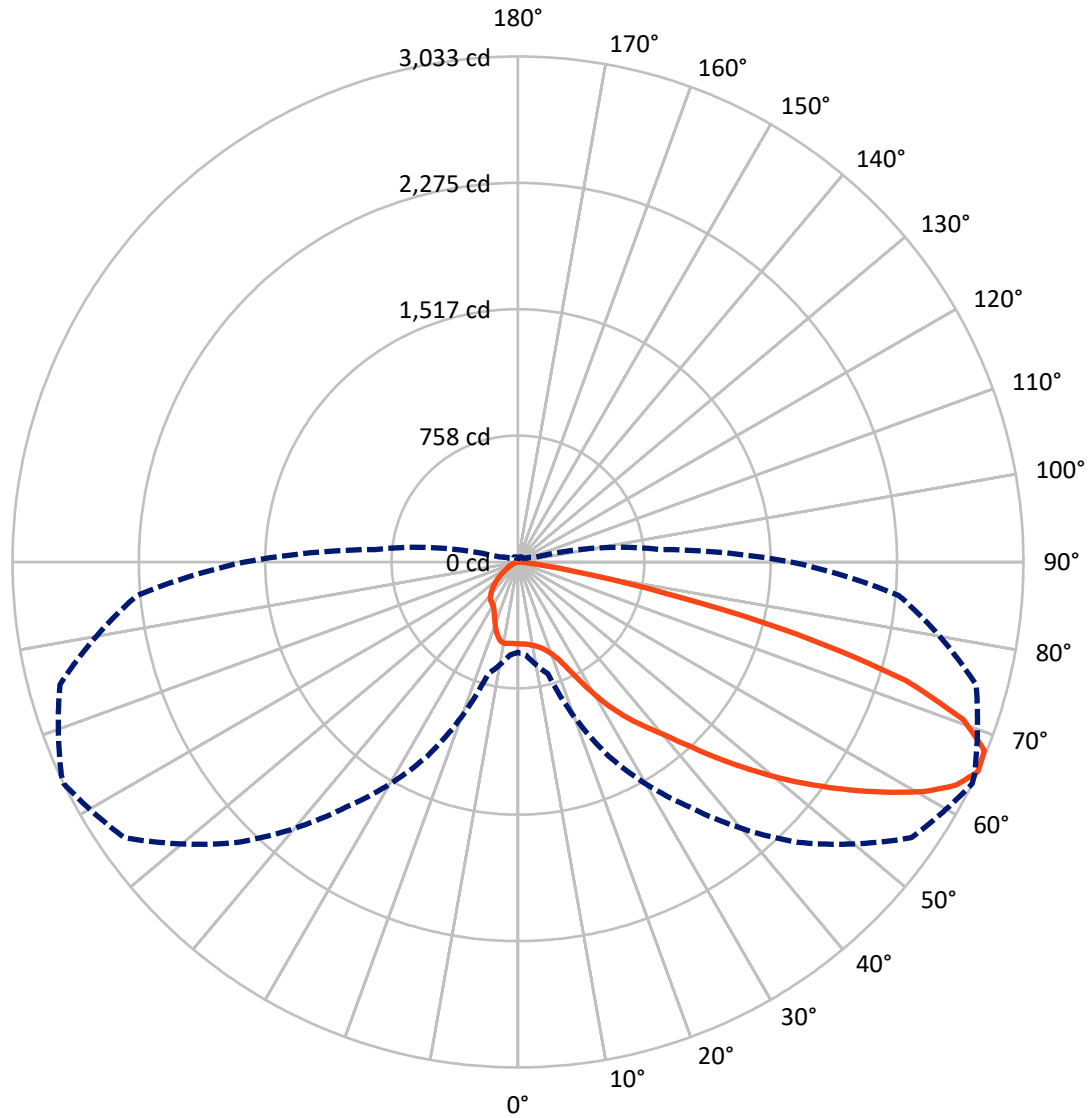
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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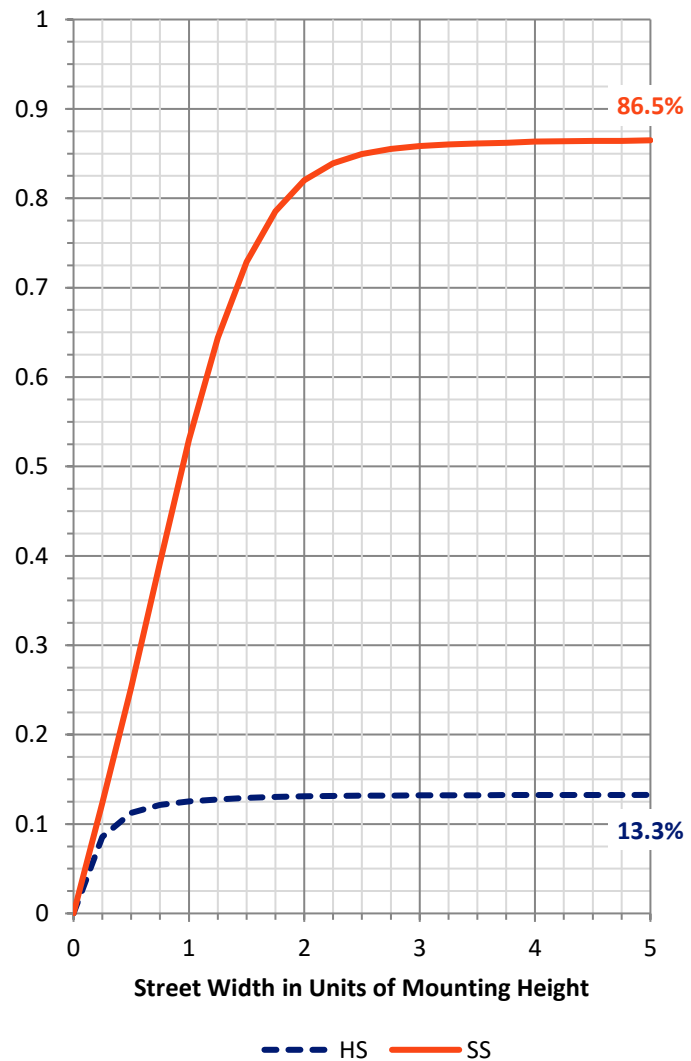
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.1	0.0	565.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3660.8	0.0	3660.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	4226.0	0.0	4226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.1
10°-20°	123.0	2.9
20°-30°	233.1	5.5
30°-40°	471.6	11.2
40°-50°	803.4	19.0
50°-60°	1092.6	25.9
60°-70°	1026.0	24.3
70°-80°	411.0	9.7
80°-90°	19.9	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°	4226.0	100.0
0°-180°	4226.0	100.0

Coefficient of Utilization



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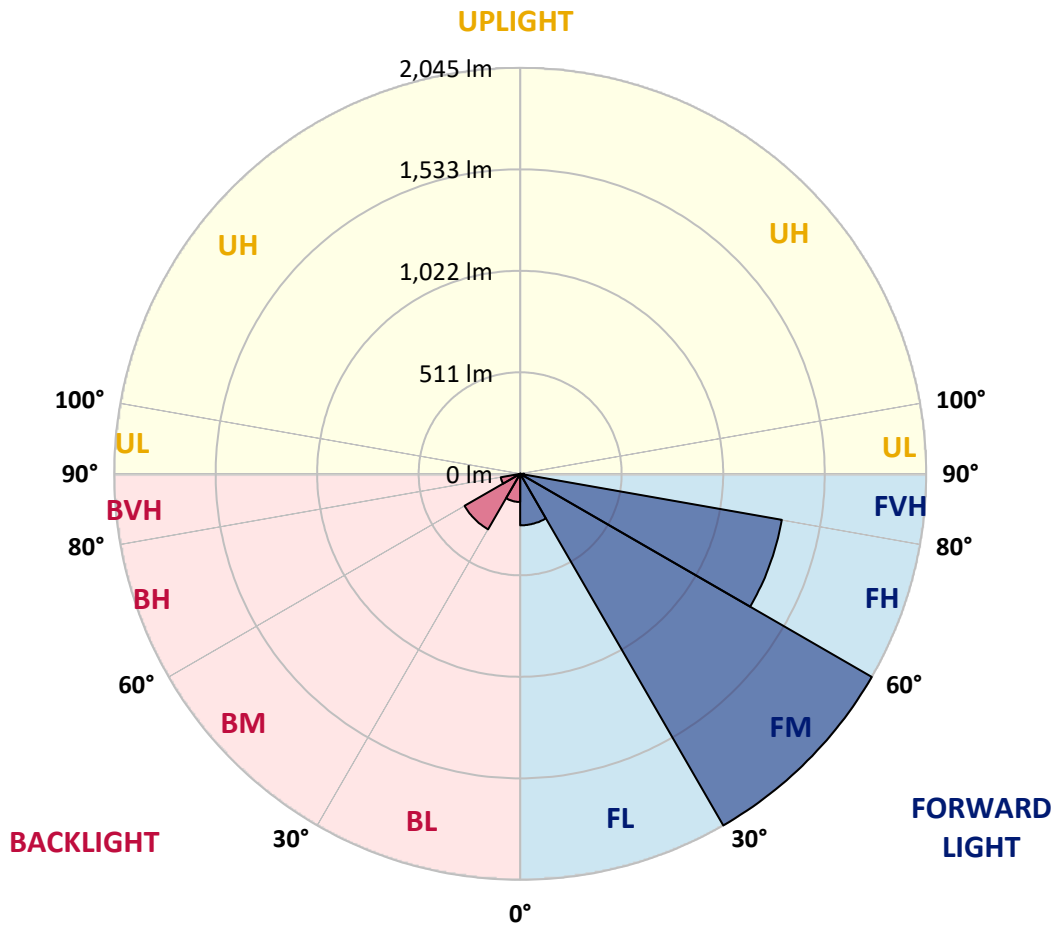
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.5	6.1			
FM (30°-60°)	2044.5	48.4			
FH (60°-80°)	1337.8	31.7			G1/1800
FVH (80°-90°)	18.9	0.4			G1/100
BL (0°-30°)	141.9	3.4	B1/500		
BM (30°-60°)	323.1	7.6	B1/1000		
BH (60°-80°)	99.2	2.3	B0/110		G0/110
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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
2.5°	489.8	493.2	492.4	491.5	491.2	491.8	492.1	491.8	491.8	491.8
5°	480.5	483.3	483.3	485.3	488.1	491.5	494.1	494.6	495.2	496.1
7.5°	462.6	464.9	466.6	473.1	480.2	489.3	496.9	500.9	501.4	504.6
10°	450.4	453.3	456.1	462.9	473.1	486.7	499.7	509.4	510.8	518.2
12.5°	449.9	452.7	456.4	463.8	475.7	490.1	506.0	519.9	522.4	533.2
15°	455.8	459.2	462.6	471.7	484.4	502.0	519.0	536.3	538.8	554.1
17.5°	468.0	472.5	475.1	484.2	497.8	517.3	539.7	559.5	561.8	579.6
20°	492.1	497.5	498.3	505.7	519.0	540.0	566.6	591.2	594.1	614.5
22.5°	542.0	549.6	542.8	546.5	558.4	579.4	608.2	639.4	643.4	666.6
25°	629.8	640.5	623.0	616.7	621.8	643.7	679.9	719.3	723.8	742.5
27.5°	802.3	788.4	761.8	735.7	720.4	732.9	773.7	822.4	828.1	846.2
30°	991.8	979.7	943.7	885.9	849.6	847.6	885.3	939.7	946.2	963.5
32.5°	1181.6	1170.0	1130.9	1059.8	996.9	965.8	991.8	1052.2	1055.6	1066.6
35°	1368.3	1356.4	1317.4	1244.5	1167.2	1096.4	1091.3	1159.3	1160.4	1172.0
37.5°	1556.2	1546.3	1504.6	1433.2	1357.0	1259.3	1212.0	1260.7	1262.1	1273.4
40°	1690.2	1694.4	1665.8	1610.6	1545.1	1438.3	1347.4	1368.6	1360.1	1379.1
42.5°	1805.2	1813.7	1788.8	1761.0	1723.0	1629.0	1515.1	1511.4	1497.8	1508.0
45°	1904.6	1911.7	1889.3	1882.8	1882.0	1816.0	1698.4	1676.3	1657.3	1655.3
47.5°	1941.2	1954.8	1964.4	1986.2	2028.7	2001.0	1887.9	1853.6	1832.4	1816.8
50°	1955.1	1969.5	2002.4	2065.8	2166.4	2178.3	2076.6	2038.1	2012.0	1983.7
52.5°	1936.4	1962.1	2006.3	2113.1	2259.0	2320.5	2257.6	2223.9	2194.2	2148.0
55°	1826.2	1851.9	1942.3	2112.6	2305.2	2420.2	2428.7	2413.7	2380.3	2307.5
57.5°	1593.9	1632.1	1775.2	2040.6	2304.4	2506.1	2596.5	2607.2	2569.8	2465.6
60°	1272.0	1323.9	1498.4	1881.1	2233.3	2552.5	2743.5	2797.3	2757.7	2621.4
62.5°	887.6	947.6	1112.8	1631.2	2070.6	2519.1	2850.9	2950.3	2920.3	2760.8
65°	541.4	560.7	693.8	1283.6	1794.1	2379.2	2884.0	3033.0	3023.1	2846.0
67.5°	360.6	376.8	415.0	880.2	1392.7	2099.5	2804.7	3018.6	3021.4	2832.2
70°	217.3	231.2	256.1	511.9	902.6	1661.8	2559.1	2834.4	2850.9	2646.6
72.5°	89.5	98.9	121.5	232.0	467.4	1054.7	2037.8	2433.6	2471.8	2225.3
75°	50.7	55.5	71.4	116.4	202.8	491.5	1234.3	1727.6	1783.9	1533.8
77.5°	33.7	36.0	46.2	75.4	114.2	167.7	527.5	900.0	1007.7	837.7
80°	22.7	24.6	31.7	50.4	74.2	72.0	168.0	333.4	410.2	287.8
82.5°	15.3	15.6	22.7	33.1	47.0	34.8	49.6	103.7	130.3	83.3
85°	8.8	8.5	16.7	19.3	21.0	14.4	15.0	31.2	40.8	35.1
87.5°	1.1	1.7	6.5	5.1	2.8	3.1	3.1	5.4	7.9	8.5
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°
491.5	0°	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
492.1	2.5°	492.1	491.8	491.0	490.1	488.1	487.0	487.6	487.0	486.7	487.0
495.8	5°	495.8	494.9	492.7	489.8	485.9	481.0	477.9	473.4	469.1	466.6
505.7	7.5°	505.7	504.8	501.7	493.8	481.0	460.9	442.5	426.4	414.2	407.1
521.6	10°	521.6	520.1	515.3	497.8	464.3	420.4	383.9	353.6	333.7	324.4
540.3	12.5°	540.3	538.6	530.1	494.1	432.6	364.0	313.6	279.9	261.5	253.3
561.8	15°	562.4	560.1	543.4	476.5	386.4	301.7	255.5	230.3	218.4	211.1
589.3	17.5°	589.8	585.9	553.3	450.2	336.3	254.1	219.8	200.9	190.4	183.3
625.2	20°	625.5	619.0	561.2	418.7	290.1	224.1	195.8	179.9	172.0	165.7
676.2	22.5°	675.4	666.0	570.9	384.7	257.5	203.4	177.9	166.3	159.8	152.7
747.3	25°	737.1	726.1	582.8	353.3	235.1	185.6	164.9	155.2	147.6	139.4
840.6	27.5°	823.6	803.7	596.9	327.5	215.9	170.3	153.0	142.2	133.4	126.6
946.2	30°	919.9	887.3	609.4	311.9	198.3	156.1	137.4	126.6	118.4	113.6
1041.1	32.5°	1011.1	966.9	617.6	305.1	182.4	140.0	120.4	108.8	102.6	101.1
1134.1	35°	1097.2	1038.9	616.7	298.6	168.3	123.8	103.7	91.8	87.0	87.8
1234.1	37.5°	1196.4	1115.6	610.8	288.4	156.7	109.1	89.2	78.8	74.5	74.8
1355.6	40°	1311.7	1204.3	607.1	269.1	143.9	95.5	77.3	68.8	65.7	64.6
1483.6	42.5°	1434.6	1290.2	607.7	247.3	128.1	83.3	69.1	62.0	59.2	58.4
1626.1	45°	1558.2	1372.0	608.5	224.7	111.3	73.9	63.2	57.2	55.5	54.4
1770.6	47.5°	1674.3	1441.7	592.7	200.3	94.9	66.9	58.4	54.4	53.0	51.6
1915.7	50°	1782.5	1488.2	554.4	172.0	81.9	61.2	54.7	51.8	50.4	49.0
2047.1	52.5°	1866.7	1495.5	491.2	142.8	72.8	56.9	52.4	49.9	48.2	46.7
2153.4	55°	1904.1	1449.4	401.4	115.6	65.7	53.3	50.1	47.6	45.6	44.2
2236.9	57.5°	1894.4	1352.2	313.0	92.9	58.9	49.6	47.3	45.6	43.3	41.1
2304.7	60°	1847.1	1222.2	236.0	77.3	52.7	45.6	44.2	42.8	39.7	36.3
2330.7	62.5°	1765.3	1058.7	168.3	64.0	45.9	41.1	40.5	39.4	34.8	28.6
2292.2	65°	1640.0	860.1	113.3	53.3	39.4	36.0	36.3	34.3	28.3	21.2
2151.1	67.5°	1457.0	628.9	72.5	43.6	32.9	30.0	30.3	29.2	24.1	18.1
1883.7	70°	1223.9	416.5	47.3	33.1	26.3	23.2	24.9	25.2	20.4	14.7
1445.7	72.5°	897.2	245.9	33.1	24.6	19.3	16.1	20.4	21.0	16.4	11.0
869.7	75°	511.4	116.7	24.9	17.8	11.9	11.3	15.9	15.9	11.3	7.4
376.5	77.5°	214.7	48.7	17.6	11.6	6.8	6.5	10.8	9.9	5.7	3.4
91.8	80°	62.0	21.8	9.3	5.7	2.8	2.5	4.2	3.1	1.4	0.6
34.8	82.5°	24.4	9.6	3.7	2.3	1.1	1.1	0.6	0.0	0.0	0.0
19.8	85°	14.4	4.0	1.7	0.8	0.3	0.0	0.0	0.0	0.0	0.0
4.2	87.5°	3.7	0.8	0.6	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>
491.5
488.1
467.2
407.4
323.5
252.4
211.3
182.7
164.6
151.6
138.5
125.2
112.8
102.0
87.8
75.9
64.3
58.1
54.4
51.6
49.0
46.5
43.9
40.8
35.7
28.0
20.7
17.3
14.2
10.5
6.8
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