

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: P946172

Luminaire Tested: **GALN-SB1D-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946172
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-SB1D-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4773 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

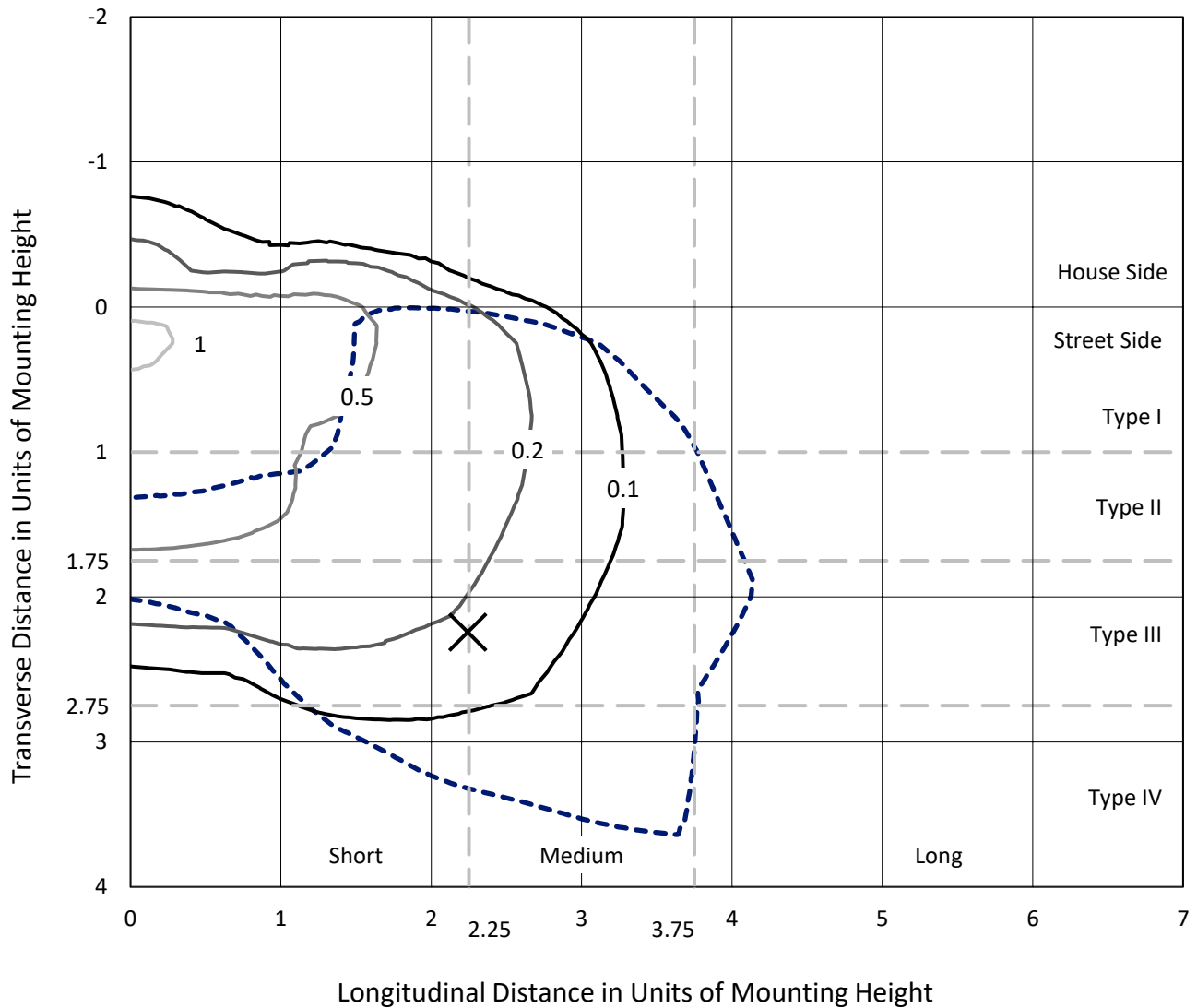
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

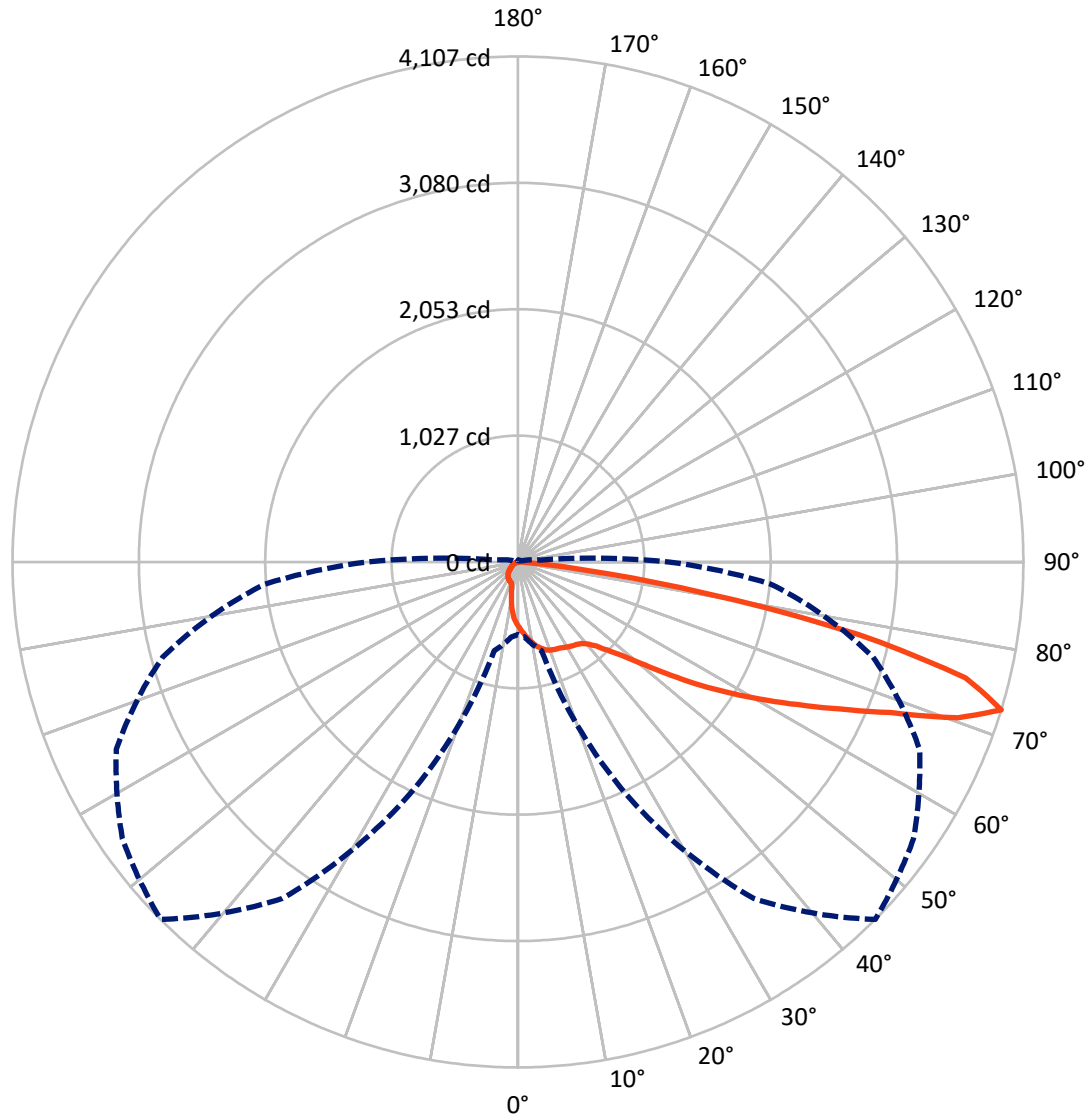
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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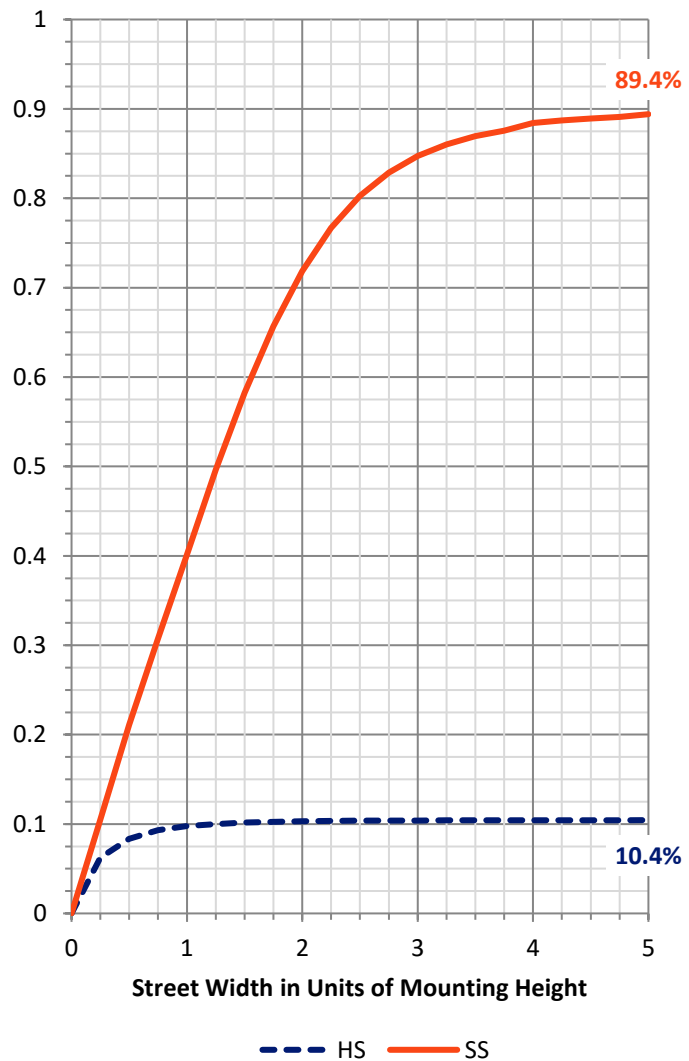
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.5	0.0	501.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4271.5	0.0	4271.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	4773.0	0.0	4773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	144.0	3.0
20°-30°	236.4	5.0
30°-40°	335.3	7.0
40°-50°	554.3	11.6
50°-60°	995.7	20.9
60°-70°	1382.6	29.0
70°-80°	1002.9	21.0
80°-90°	72.5	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°	4773.0	100.0
0°-180°	4773.0	100.0

Coefficient of Utilization



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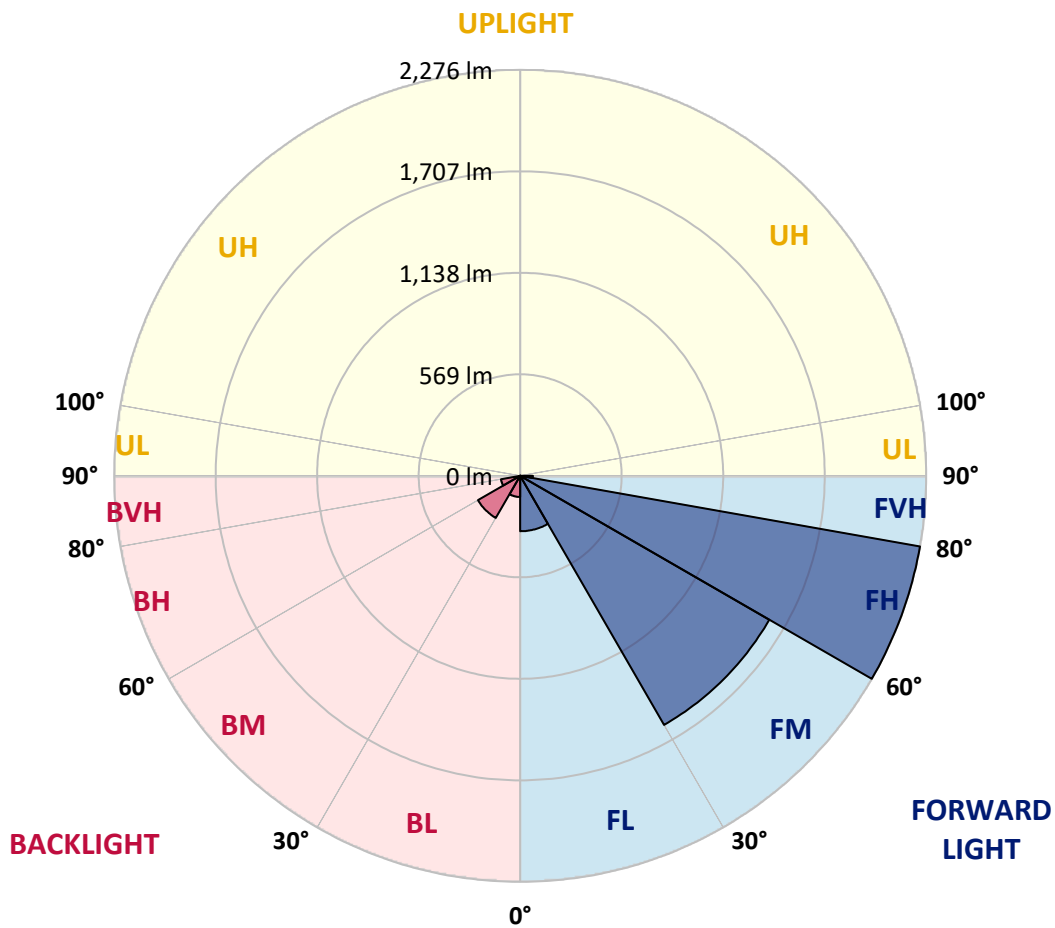
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.9	6.5			
FM (30°-60°)	1612.6	33.8			
FH (60°-80°)	2276.1	47.7			G2/5000
FVH (80°-90°)	71.9	1.5			G1/100
BL (0°-30°)	118.8	2.5	B1/500		
BM (30°-60°)	272.8	5.7	B1/1000		
BH (60°-80°)	109.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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°	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9
2.5°	571.1	572.1	571.4	567.5	561.0	557.4	555.5	549.0	544.7	537.2
5°	623.6	627.5	625.2	617.4	605.0	596.2	593.6	580.2	568.2	554.2
7.5°	679.3	681.2	677.0	666.9	650.3	635.3	633.0	614.4	595.2	573.7
10°	727.5	729.8	723.3	708.6	689.7	671.1	667.9	647.3	624.5	598.1
12.5°	767.9	770.2	761.7	744.1	723.3	704.0	700.8	679.3	654.2	624.9
15°	798.5	802.7	791.3	772.4	750.0	730.7	729.1	707.9	683.5	650.9
17.5°	816.4	820.7	809.9	787.1	767.9	751.6	749.6	732.0	709.2	678.0
20°	819.4	823.3	811.9	792.0	776.0	763.0	762.0	749.3	732.7	702.7
22.5°	810.6	815.5	805.0	789.1	778.0	771.1	769.8	762.7	753.2	727.8
25°	801.4	805.4	797.5	783.5	777.7	777.0	778.0	776.7	774.7	753.2
27.5°	800.8	805.0	796.2	782.9	779.6	786.5	787.4	793.6	795.3	776.4
30°	806.3	809.3	800.8	786.8	785.2	800.8	801.1	812.2	814.8	795.9
32.5°	818.4	821.6	813.2	792.6	790.4	812.2	813.2	827.8	832.1	816.8
35°	846.7	850.6	840.9	808.9	800.8	822.9	825.9	843.1	851.6	838.9
37.5°	917.4	906.0	892.7	841.8	824.6	839.9	844.8	865.0	880.0	865.3
40°	1093.0	1057.2	1015.5	897.9	866.3	876.0	880.0	900.2	920.7	906.3
42.5°	1356.6	1314.2	1247.1	1026.9	929.2	934.0	937.0	954.6	983.6	972.2
45°	1591.5	1576.2	1507.8	1247.1	1046.8	1022.7	1026.2	1035.4	1078.0	1073.8
47.5°	1772.0	1763.2	1710.4	1499.9	1245.5	1131.1	1141.2	1145.5	1207.1	1222.0
50°	1910.8	1907.5	1860.3	1724.7	1505.1	1291.1	1294.7	1285.6	1377.8	1414.9
52.5°	2041.7	2052.8	2017.9	1933.6	1782.4	1500.6	1499.9	1456.9	1581.4	1637.4
55°	2160.0	2163.9	2167.5	2146.6	2061.3	1739.1	1732.9	1662.5	1817.6	1875.6
57.5°	2271.1	2272.7	2304.6	2347.3	2351.5	1995.1	1983.7	1899.4	2075.6	2117.0
60°	2345.7	2353.2	2420.6	2539.2	2591.0	2259.4	2253.2	2167.2	2338.2	2357.4
62.5°	2238.2	2283.8	2453.8	2689.1	2817.1	2552.2	2549.3	2468.5	2614.5	2598.8
65°	1811.7	1888.9	2188.0	2790.4	3039.0	2879.3	2883.6	2797.6	2898.2	2847.4
67.5°	1267.3	1348.8	1702.6	2798.5	3286.9	3263.4	3287.9	3153.0	3199.6	3085.6
70°	876.4	918.4	1148.7	2623.3	3480.1	3792.5	3791.9	3589.5	3499.3	3194.0
72.5°	589.4	611.2	746.1	2081.1	3338.0	4106.9	4088.0	3923.2	3600.3	2987.2
75°	248.6	264.5	345.3	1169.6	2640.9	3757.3	3706.2	3467.1	3198.9	2352.2
77.5°	78.8	85.7	136.2	418.6	1454.7	2824.3	2770.2	2165.2	2144.0	1180.0
80°	37.5	43.7	76.6	168.1	572.4	1536.1	1528.6	982.3	922.3	318.6
82.5°	16.3	19.2	42.4	89.9	256.1	548.0	559.1	334.3	276.6	120.9
85°	5.2	6.8	19.5	41.4	108.2	136.2	134.6	79.5	111.4	65.8
87.5°	0.0	0.0	6.5	9.4	11.1	7.8	8.8	6.8	31.0	18.2
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°
522.9	0°	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9
529.4	2.5°	525.5	520.3	511.2	502.7	495.2	487.7	483.1	476.6	476.0	476.0
537.9	5°	529.1	520.6	504.3	487.1	467.2	448.3	429.4	411.1	405.3	401.0
551.6	7.5°	539.5	526.2	500.4	467.5	429.7	388.3	359.3	328.1	316.0	309.5
569.8	10°	554.5	536.2	497.2	439.5	378.2	321.9	280.5	246.6	233.6	228.1
589.7	12.5°	571.1	548.6	491.3	404.6	321.9	254.4	214.0	198.4	196.5	196.5
613.5	15°	591.0	563.6	481.2	363.6	262.9	201.3	187.0	187.7	189.6	190.9
636.6	17.5°	611.5	579.6	465.2	317.6	210.8	181.1	181.5	182.4	184.1	185.4
661.7	20°	633.7	595.5	444.1	268.8	180.8	175.3	176.3	177.2	178.5	179.2
685.1	22.5°	657.4	610.5	419.0	220.9	170.7	170.4	170.7	171.7	173.3	173.3
712.5	25°	682.9	627.1	390.3	186.0	165.5	165.5	166.2	166.8	168.1	168.1
738.9	27.5°	708.9	642.5	360.0	167.8	160.9	160.6	160.6	161.6	162.2	162.6
765.0	30°	737.6	660.4	329.7	163.9	157.4	155.7	154.8	155.4	156.1	156.4
792.3	32.5°	766.9	677.6	302.7	165.5	153.8	150.8	147.6	146.9	146.9	148.2
820.7	35°	799.5	696.5	281.8	171.0	151.8	143.7	138.5	135.5	135.9	137.8
854.5	37.5°	838.6	719.3	266.5	175.9	150.5	135.5	127.1	123.5	121.2	123.5
901.1	40°	889.7	752.9	255.4	179.8	148.9	126.1	114.7	108.8	104.6	105.9
973.5	42.5°	965.0	805.7	251.2	180.2	145.3	115.0	102.0	94.2	88.0	88.3
1082.3	45°	1070.5	889.1	273.0	175.9	137.5	102.9	88.6	78.2	74.3	73.3
1244.8	47.5°	1215.2	1010.6	323.5	167.1	126.1	91.2	75.6	66.8	63.9	62.2
1458.2	50°	1409.0	1166.7	379.5	157.4	114.7	80.1	64.8	59.3	57.3	55.7
1711.4	52.5°	1633.8	1325.0	425.5	147.6	103.3	70.4	58.0	54.7	53.1	51.8
1955.7	55°	1840.1	1434.1	422.9	137.2	92.2	62.6	53.1	51.1	49.2	47.9
2166.2	57.5°	1968.4	1449.4	348.6	125.8	79.5	56.4	48.5	47.2	45.0	43.3
2348.3	60°	2027.4	1362.1	244.3	110.8	66.8	50.5	43.7	43.0	40.1	37.8
2520.6	62.5°	2038.1	1199.9	162.9	92.2	55.7	45.0	38.8	37.8	33.9	30.0
2660.7	65°	1994.5	967.9	112.7	72.0	47.6	39.1	33.2	31.3	27.0	23.1
2694.0	67.5°	1856.3	679.6	78.5	51.8	40.4	31.0	26.4	25.7	22.5	19.2
2524.5	70°	1603.2	387.4	52.5	38.8	31.9	21.2	20.9	21.5	18.2	15.6
2062.6	72.5°	1229.2	177.2	32.6	28.3	21.8	14.3	16.6	16.9	14.0	11.7
1286.9	75°	723.6	75.9	20.5	18.2	11.1	9.4	12.1	12.4	9.4	7.5
470.4	77.5°	246.3	28.7	13.0	10.8	5.5	5.2	7.8	7.8	5.2	2.9
94.5	80°	56.0	10.8	6.5	4.2	2.6	2.3	2.6	2.3	1.3	0.3
29.0	82.5°	16.0	4.2	2.6	1.6	1.0	1.0	0.3	0.0	0.0	0.0
10.1	85°	4.6	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	2.0	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>
522.9
477.6
403.0
310.5
228.1
196.5
190.9
185.4
179.5
174.0
168.4
162.9
157.0
149.2
138.8
122.8
105.2
87.0
72.0
61.2
55.4
51.5
47.2
43.0
37.1
28.0
21.8
18.2
14.3
10.4
6.5
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