

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: P946966

Luminaire Tested: **GALN-SB2B-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

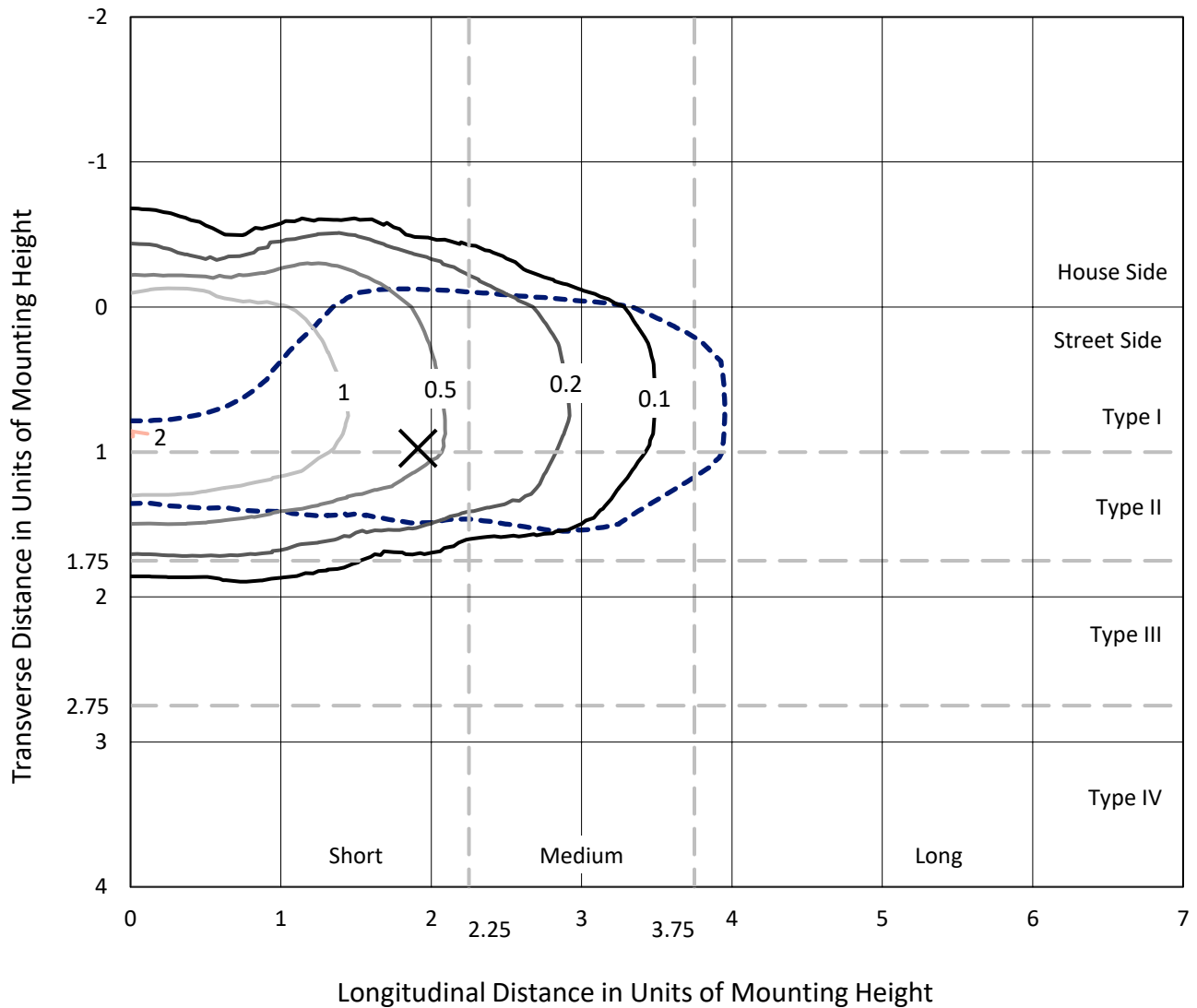
Lumens per Lamp: N/A  
Luminaire Lumens: 5987 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

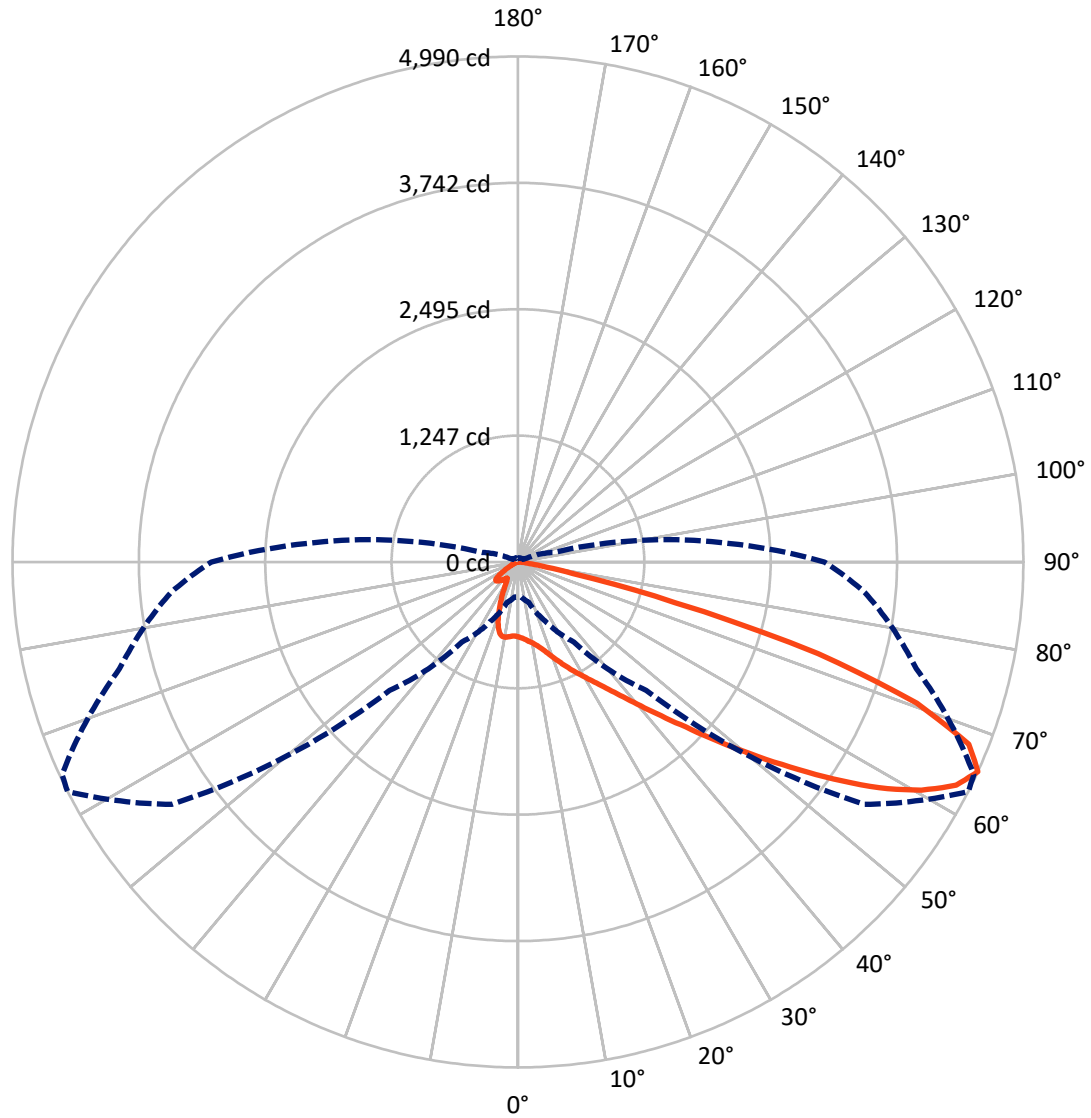
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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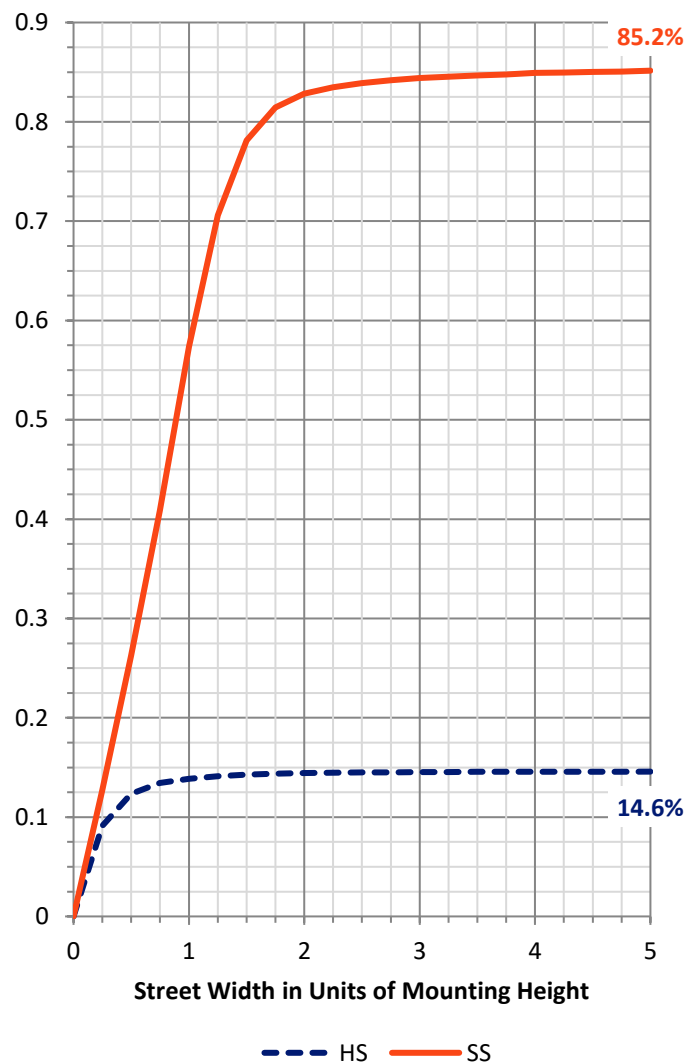
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	880.0	0.0	880.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	5107.0	0.0	5107.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	5987.0	0.0	5987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	1.2
10°-20°	193.2	3.2
20°-30°	336.4	5.6
30°-40°	606.2	10.1
40°-50°	1202.4	20.1
50°-60°	1637.8	27.4
60°-70°	1307.3	21.8
70°-80°	591.6	9.9
80°-90°	42.5	0.7
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°	5987.0	100.0
0°-180°	5987.0	100.0

**Coefficient of Utilization**



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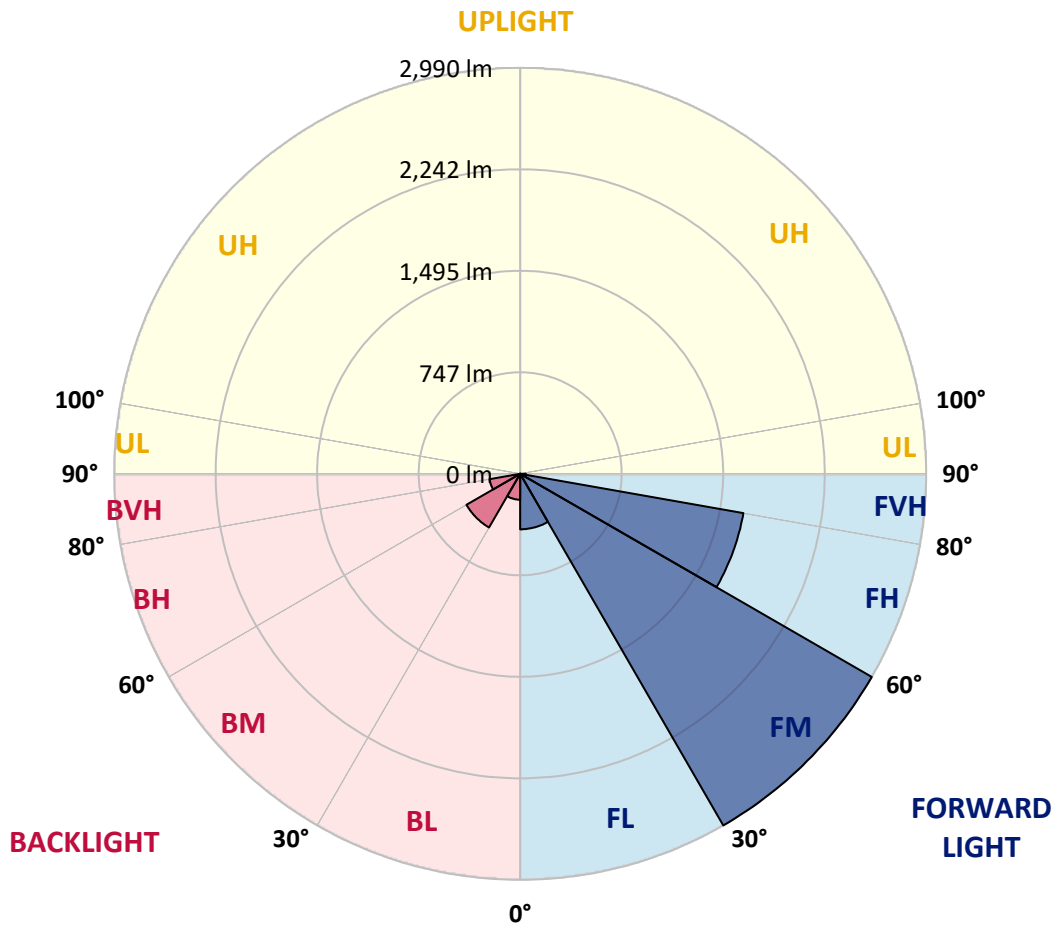
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.7	6.8			
FM (30°-60°)	2989.8	49.9			
FH (60°-80°)	1669.1	27.9			G1/1800
FVH (80°-90°)	39.4	0.7			G1/100
BL (0°-30°)	190.5	3.2	B1/500		
BM (30°-60°)	456.7	7.6	B1/1000		
BH (60°-80°)	229.7	3.8	B1/500		G1/500
BVH (80°-90°)	3.2	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9
2.5°	756.2	754.1	757.0	755.8	755.0	753.3	752.5	751.7	750.0	748.8
5°	758.3	757.0	759.9	762.4	764.9	767.3	768.6	770.2	768.6	765.3
7.5°	741.0	740.1	746.3	753.7	764.9	774.3	784.6	790.4	790.8	789.6
10°	739.7	737.7	743.9	752.9	767.3	784.2	802.3	814.7	816.3	821.7
12.5°	759.1	757.0	765.7	775.6	790.4	808.1	830.3	847.6	850.1	857.5
15°	791.6	788.7	798.6	811.4	830.3	850.5	874.0	889.7	891.7	900.8
17.5°	829.5	826.6	838.2	851.8	872.4	900.0	927.1	944.4	946.9	952.7
20°	878.1	874.4	883.5	895.8	917.7	950.6	983.2	1007.9	1007.5	1007.5
22.5°	934.6	928.8	936.6	946.5	967.1	1007.0	1050.3	1079.5	1079.5	1068.0
25°	995.1	989.3	998.0	1007.0	1025.2	1070.5	1121.1	1157.4	1159.0	1139.3
27.5°	1070.9	1063.5	1070.1	1080.8	1091.5	1137.6	1197.7	1239.8	1240.6	1210.1
30°	1216.7	1195.7	1175.1	1163.6	1168.5	1214.2	1278.5	1325.0	1329.1	1287.1
32.5°	1483.6	1479.5	1407.0	1312.2	1262.8	1296.6	1368.7	1424.7	1427.2	1373.2
35°	1898.3	1893.4	1776.8	1596.4	1435.4	1407.0	1478.2	1544.5	1542.9	1481.9
37.5°	2393.4	2388.9	2235.3	1993.9	1733.2	1573.8	1619.5	1689.1	1699.4	1619.5
40°	2816.4	2799.5	2702.3	2469.6	2128.6	1850.6	1820.5	1866.6	1877.3	1782.6
42.5°	3136.9	3122.4	3073.0	2927.6	2607.2	2260.0	2057.3	2075.0	2087.0	1973.3
45°	3302.8	3299.6	3319.3	3305.7	3094.9	2762.5	2395.9	2322.2	2326.7	2184.6
47.5°	3326.3	3324.7	3414.9	3542.6	3514.1	3329.2	2830.4	2630.3	2614.2	2423.1
50°	3187.9	3184.6	3357.6	3596.9	3794.2	3805.3	3323.9	2977.5	2942.0	2669.8
52.5°	2746.0	2745.2	3029.4	3427.6	3892.7	4222.2	3811.5	3358.9	3299.6	2930.9
55°	2112.9	2128.2	2454.0	2924.7	3713.1	4422.7	4249.3	3782.3	3691.2	3193.7
57.5°	1496.8	1519.0	1841.1	2260.4	3156.2	4304.1	4545.5	4206.5	4108.5	3455.7
60°	804.0	823.8	1146.3	1646.7	2348.1	3861.8	4701.6	4574.7	4482.1	3704.4
62.5°	479.0	485.6	619.1	1063.1	1588.2	2950.3	4635.3	4855.2	4779.0	3913.3
65°	343.9	345.2	412.3	649.1	964.2	1792.5	4170.3	4989.5	4966.0	4070.6
67.5°	289.6	288.7	316.7	431.2	656.9	897.9	3196.2	4799.6	4899.3	4170.3
70°	248.4	249.6	282.5	315.9	493.8	508.3	1589.0	4178.9	4391.4	4196.6
72.5°	184.9	189.1	219.5	287.9	372.7	349.7	548.6	3098.6	3482.8	3954.0
75°	130.6	132.6	154.5	242.2	278.0	254.5	280.1	1601.8	2094.4	3031.4
77.5°	100.5	104.2	117.0	169.3	273.9	178.8	171.3	554.4	851.8	1831.2
80°	54.4	61.0	84.4	122.3	192.3	126.4	84.8	220.8	288.7	856.3
82.5°	28.0	31.3	58.9	88.1	109.6	110.4	42.0	91.8	119.0	264.4
85°	11.1	13.6	39.5	48.6	56.4	54.4	18.9	37.1	42.8	73.3
87.5°	2.5	4.1	14.4	11.1	10.7	11.5	4.5	8.6	8.2	8.6
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°
738.9	0°	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9	738.9
743.9	2.5°	743.4	741.8	737.3	732.3	726.6	723.3	721.2	720.8	717.9	715.8
760.3	5°	755.8	754.1	745.5	735.2	724.1	715.4	707.2	699.8	689.1	687.0
784.2	7.5°	780.5	776.0	762.0	748.0	727.0	701.8	671.4	636.4	605.0	595.6
815.9	10°	811.0	804.8	787.1	762.4	715.8	647.5	573.7	505.4	451.0	435.8
853.4	12.5°	845.6	840.2	816.8	771.0	669.3	545.3	432.5	347.6	294.9	281.7
893.4	15°	886.8	878.9	846.4	757.9	586.1	414.3	297.0	246.7	227.8	225.3
939.1	17.5°	930.4	917.7	872.8	710.5	474.1	294.5	229.4	215.0	206.8	204.3
985.2	20°	970.4	953.9	888.4	638.8	354.2	229.4	205.5	196.1	188.6	185.8
1031.3	22.5°	1010.3	986.9	888.4	541.2	265.7	203.5	188.6	180.0	171.3	167.6
1080.8	25°	1051.9	1020.6	872.8	432.5	213.8	186.6	172.6	163.1	155.7	151.2
1127.7	27.5°	1092.3	1049.1	836.9	329.5	190.3	171.8	157.7	148.7	141.7	138.4
1178.8	30°	1130.6	1077.1	786.7	250.0	175.0	157.3	144.2	136.3	129.3	126.0
1245.1	32.5°	1182.5	1112.5	733.1	205.1	161.9	143.7	131.8	124.4	118.2	115.7
1331.2	35°	1254.6	1164.8	687.0	201.4	150.7	132.6	120.7	113.7	107.5	105.4
1442.4	37.5°	1356.7	1249.2	662.7	226.1	141.7	122.7	111.6	104.2	98.4	96.8
1583.7	40°	1482.8	1363.7	675.9	250.8	135.5	114.1	103.4	96.0	91.0	89.0
1746.0	42.5°	1632.3	1505.0	748.8	269.8	131.4	106.7	95.6	87.3	84.0	83.2
1930.1	45°	1804.0	1660.3	860.4	290.0	124.8	99.7	87.7	81.6	79.1	78.7
2130.2	47.5°	1999.3	1830.8	989.7	315.1	118.2	93.1	81.6	77.4	75.4	74.5
2339.1	50°	2192.8	2002.6	1122.8	329.1	112.9	86.9	76.6	73.3	71.7	71.3
2559.8	52.5°	2395.5	2179.2	1230.3	315.9	108.3	82.0	72.5	70.0	68.4	68.0
2763.3	55°	2588.7	2322.2	1248.8	268.1	99.3	77.0	68.0	66.7	64.7	64.7
2969.6	57.5°	2755.1	2393.8	1117.8	196.9	90.2	69.6	63.4	62.2	60.5	60.1
3155.8	60°	2907.9	2373.2	862.9	132.6	80.3	62.2	57.7	56.8	55.2	53.1
3317.7	62.5°	2993.9	2282.6	590.2	86.5	70.4	54.4	51.1	50.7	47.0	42.8
3437.5	65°	3026.5	2096.5	368.2	63.0	58.9	46.5	44.1	43.2	37.9	33.4
3505.5	67.5°	2998.1	1790.0	185.8	49.8	46.5	38.7	36.2	36.2	32.5	28.4
3501.4	70°	2884.4	1341.9	78.3	40.0	35.8	29.7	29.7	31.3	27.6	23.1
3319.7	72.5°	2637.7	902.8	41.6	30.5	26.8	21.0	24.3	25.5	21.8	17.3
2717.2	75°	2096.9	550.7	28.8	22.7	16.9	14.8	18.5	19.4	14.8	11.5
1862.9	77.5°	1434.2	316.3	19.4	14.4	10.7	8.6	12.8	11.9	7.8	5.4
718.3	80°	629.8	131.8	11.1	6.6	4.1	3.3	4.5	3.3	2.5	1.6
98.4	82.5°	73.7	30.9	4.1	2.5	1.6	0.8	0.4	0.0	0.0	0.0
30.1	85°	15.2	3.7	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	2.9	0.8	0.4	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>
738.9
717.9
686.2
591.0
430.0
278.0
222.8
203.1
184.1
165.6
149.5
138.4
126.4
115.7
105.4
96.4
88.6
83.2
78.3
74.5
71.3
68.0
64.3
59.7
52.7
42.0
33.0
28.0
22.7
17.3
11.1
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