

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: P939728

Luminaire Tested: **GALN-SB2B-950-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

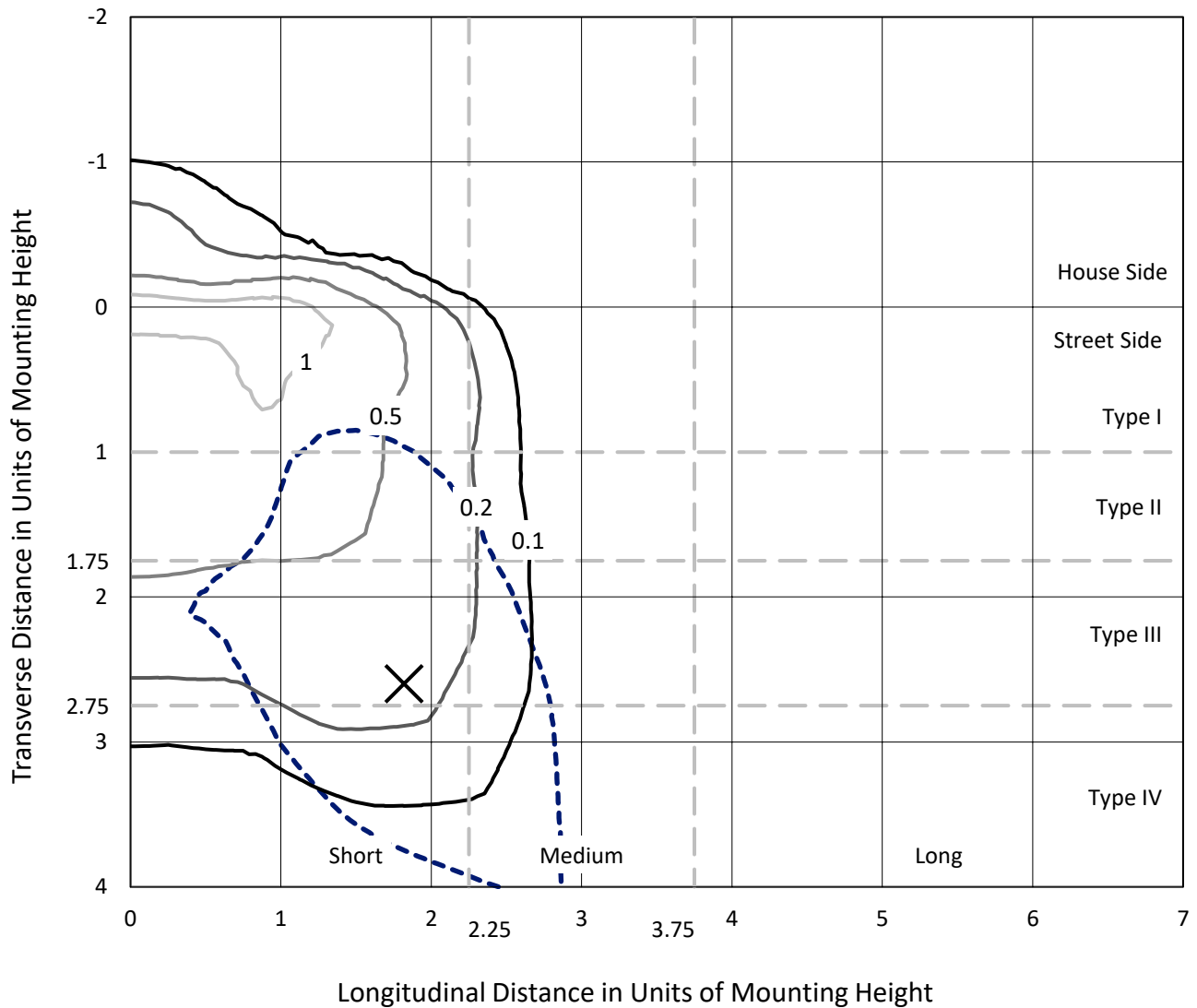
Lumens per Lamp: N/A  
Luminaire Lumens: 5931 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

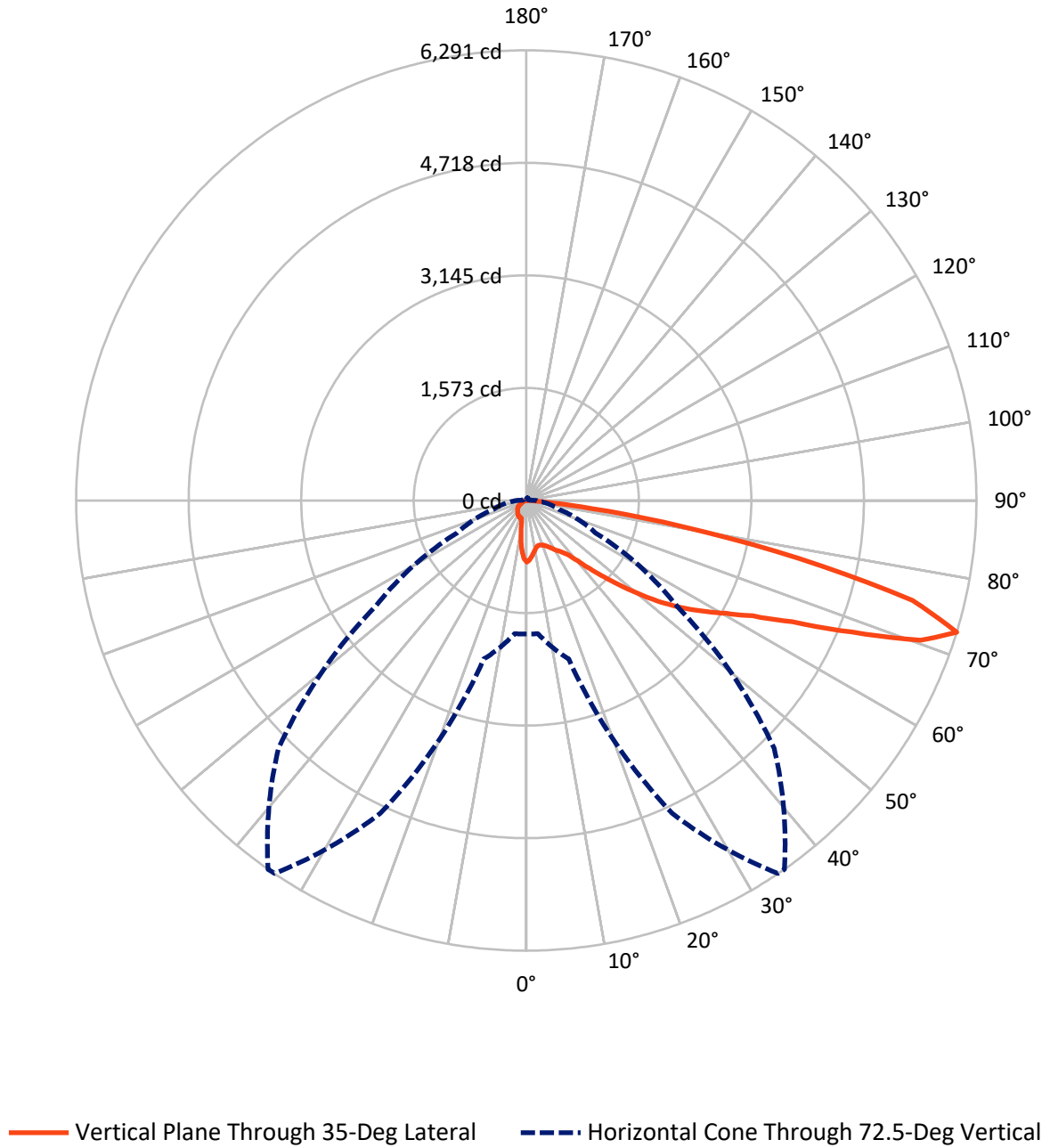
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	667.5	0.0	667.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	5263.5	0.0	5263.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	5931.0	0.0	5931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	1.2
10°-20°	165.2	2.8
20°-30°	268.4	4.5
30°-40°	447.9	7.6
40°-50°	847.4	14.3
50°-60°	1346.5	22.7
60°-70°	1665.7	28.1
70°-80°	1035.4	17.5
80°-90°	83.7	1.4
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°	5931.0	100.0
0°-180°	5931.0	100.0

**Coefficient of Utilization**



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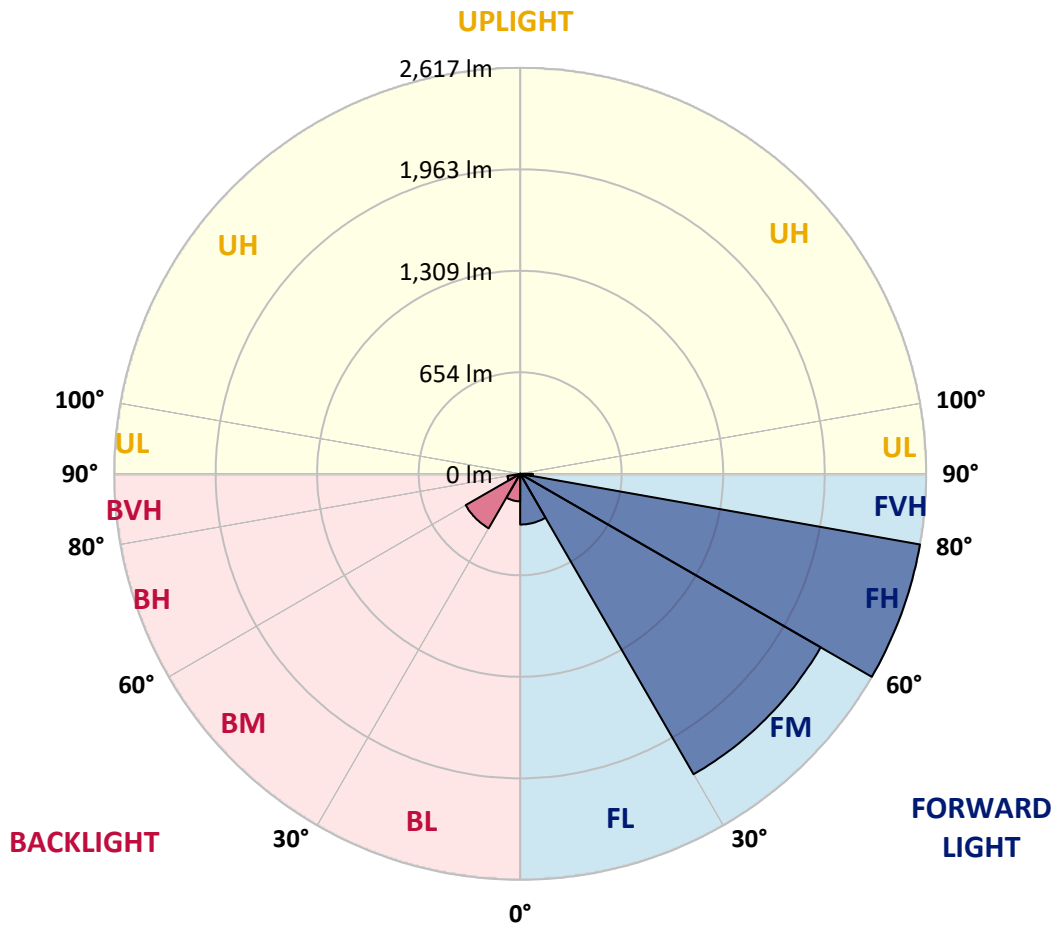
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.9	5.5			
FM (30°-60°)	2236.6	37.7			
FH (60°-80°)	2617.4	44.1			G2/5000
FVH (80°-90°)	82.5	1.4			G1/100
BL (0°-30°)	177.4	3.0	B1/500		
BM (30°-60°)	405.2	6.8	B1/1000		
BH (60°-80°)	83.8	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	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°	34°	35°	45°	55°	65°	75°
0°	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6
2.5°	821.4	828.3	829.6	831.8	831.8	834.4	838.7	844.8	854.8	860.0
5°	757.0	762.3	768.8	774.0	784.0	785.3	802.2	818.8	841.8	859.2
7.5°	692.3	698.4	707.1	719.7	732.7	736.6	762.3	790.1	826.6	859.2
10°	646.7	647.1	654.9	667.5	688.4	693.2	724.4	764.0	809.6	854.0
12.5°	621.0	624.1	627.5	637.1	657.1	660.1	693.6	740.1	792.7	850.9
15°	621.0	623.2	625.4	630.1	646.2	648.8	678.4	724.9	784.0	852.2
17.5°	627.5	631.0	629.3	634.9	651.9	653.6	679.7	720.5	783.5	860.5
20°	643.2	645.8	642.3	645.8	662.7	666.2	693.2	728.8	790.9	874.8
22.5°	668.0	669.3	661.0	663.6	681.0	685.3	716.6	752.3	808.8	897.8
25°	699.2	701.8	689.2	692.3	708.8	714.0	750.1	787.5	837.0	929.6
27.5°	735.3	736.6	725.7	725.3	746.6	754.0	790.5	830.9	874.8	969.5
30°	776.6	780.5	770.1	768.3	795.3	801.4	837.4	884.4	930.4	1029.5
32.5°	809.2	812.2	806.1	810.5	837.9	842.7	894.4	960.0	1017.8	1114.7
35°	856.1	857.9	844.0	851.8	883.1	895.2	972.2	1066.0	1127.7	1221.6
37.5°	1026.0	1026.0	966.9	928.3	958.3	969.1	1078.6	1199.4	1263.3	1365.0
40°	1261.2	1257.2	1170.8	1091.7	1087.8	1109.1	1230.3	1367.6	1438.5	1537.1
42.5°	1511.9	1505.8	1388.1	1309.8	1296.8	1304.2	1405.4	1574.9	1647.1	1747.0
45°	1734.4	1732.7	1624.9	1519.7	1496.3	1519.7	1624.0	1817.4	1869.1	1974.3
47.5°	1920.8	1920.8	1842.2	1773.5	1761.4	1775.3	1920.0	2086.4	2081.6	2216.4
50°	2135.5	2133.8	2059.0	2029.5	2042.1	2061.7	2260.7	2369.8	2301.5	2454.1
52.5°	2285.9	2296.3	2270.7	2265.9	2330.2	2364.1	2606.6	2647.0	2498.4	2679.6
55°	2405.0	2417.1	2446.7	2480.2	2604.0	2648.3	2941.7	2910.0	2663.1	2875.2
57.5°	2573.6	2556.2	2601.8	2667.9	2868.2	2921.7	3266.3	3158.1	2795.7	3033.8
60°	2778.3	2780.9	2788.7	2872.1	3132.0	3200.7	3586.2	3392.8	2880.8	3131.2
62.5°	3024.2	3028.2	3044.2	3172.4	3486.2	3551.0	3926.9	3584.9	2919.9	3103.8
65°	3007.3	3023.8	3203.3	3641.8	4024.7	4088.5	4324.5	3719.6	2860.8	2853.5
67.5°	2739.6	2766.5	3066.8	4202.4	4836.4	4907.7	4805.2	3746.1	2605.7	2219.0
70°	2388.5	2398.0	2759.2	4706.5	5776.4	5848.6	5235.4	3454.5	1977.3	1237.7
72.5°	1865.2	1867.4	2291.1	4823.4	6286.6	6290.6	4897.7	2564.5	1063.4	475.4
75°	1332.4	1319.4	1534.5	3911.7	5530.9	5575.2	3671.8	1202.9	406.3	224.7
77.5°	714.5	728.8	868.3	2319.8	3820.8	3896.5	2003.4	346.8	206.9	153.0
80°	220.8	232.9	355.9	1062.1	2164.2	2209.8	742.7	154.3	144.3	109.1
82.5°	69.5	72.1	166.0	446.3	898.3	919.1	215.1	87.4	98.6	72.1
85°	20.0	20.4	73.9	166.4	222.1	226.4	60.4	33.9	56.5	44.8
87.5°	2.2	7.0	27.8	27.8	19.6	19.1	6.5	7.4	16.1	5.6
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°
859.6	0°	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6	859.6
863.5	2.5°	861.3	861.8	856.1	846.6	836.1	827.4	816.6	807.9	801.8	800.1
871.3	5°	867.4	864.4	848.3	819.2	784.4	754.4	721.0	694.5	677.1	669.7
879.6	7.5°	876.5	867.9	832.7	775.3	708.8	649.7	589.7	543.2	513.7	498.9
887.4	10°	884.4	867.0	806.6	711.8	610.2	520.6	439.8	383.7	352.4	337.7
896.5	12.5°	891.8	866.6	772.7	636.7	498.9	389.4	314.2	286.4	277.7	274.7
911.3	15°	905.7	867.9	730.1	550.6	388.1	294.2	266.8	266.4	268.1	267.3
933.9	17.5°	924.8	869.2	681.9	459.4	299.4	259.4	258.1	262.1	264.7	263.4
962.2	20°	949.6	874.4	630.6	369.0	257.3	250.8	253.8	257.3	259.4	257.3
1000.0	22.5°	984.3	883.5	574.5	296.4	243.8	245.5	248.1	252.1	254.2	251.2
1048.2	25°	1026.9	897.8	519.3	257.7	237.3	239.5	243.4	247.7	250.3	247.3
1109.1	27.5°	1082.1	920.9	468.5	249.0	230.8	232.1	237.7	244.2	247.7	243.8
1195.5	30°	1162.1	958.7	424.6	252.9	226.9	223.8	231.6	240.8	244.7	241.2
1313.3	32.5°	1268.1	1012.1	397.6	259.0	225.1	214.2	221.6	233.4	239.9	237.7
1467.1	35°	1407.2	1093.4	387.2	266.0	223.8	204.3	209.5	222.1	233.4	235.5
1661.0	37.5°	1575.8	1206.4	390.3	269.0	219.9	196.0	198.6	209.5	224.2	231.2
1879.1	40°	1767.4	1338.1	407.6	266.0	215.6	189.0	189.5	197.7	210.8	221.2
2113.8	42.5°	1965.2	1491.9	439.8	254.7	211.6	183.0	181.7	187.3	196.0	203.4
2348.0	45°	2153.3	1650.1	471.5	239.0	206.9	176.9	173.8	176.0	177.7	180.8
2576.2	47.5°	2317.6	1761.4	462.4	224.7	200.3	169.9	164.7	163.8	158.6	158.2
2780.0	50°	2431.0	1785.7	410.7	210.3	190.8	162.1	153.8	148.6	139.5	135.2
2932.6	52.5°	2467.1	1689.7	335.5	196.0	175.1	151.7	139.9	131.7	120.4	116.5
3020.3	55°	2419.3	1501.5	268.1	178.6	153.4	137.8	124.7	113.9	104.7	100.0
3029.9	57.5°	2302.4	1262.0	212.1	158.2	130.4	122.1	109.1	98.2	90.4	85.6
2923.9	60°	2108.6	1002.1	167.7	133.9	111.3	105.2	91.7	84.7	77.8	72.1
2650.1	62.5°	1814.4	715.3	131.7	106.0	93.0	86.0	78.2	73.0	64.8	56.9
2157.7	65°	1415.9	437.6	101.7	77.8	74.7	71.3	66.5	61.7	51.7	43.9
1407.6	67.5°	893.1	207.3	72.6	58.7	59.1	57.4	55.2	51.3	43.9	36.9
630.6	70°	393.3	100.4	47.8	44.8	43.9	43.9	45.6	44.3	37.4	30.9
219.0	72.5°	133.9	53.9	35.6	33.9	31.7	31.3	38.2	36.9	30.0	23.9
109.1	75°	70.0	36.1	26.1	24.3	19.1	23.0	30.4	28.7	21.3	15.6
72.1	77.5°	45.6	25.6	17.8	15.6	10.9	15.2	22.6	20.0	12.6	7.8
47.4	80°	28.7	16.9	10.4	7.4	5.2	8.3	12.2	8.7	4.8	1.7
27.8	82.5°	15.2	8.7	3.9	2.6	2.2	2.6	3.0	2.2	0.9	0.0
14.3	85°	6.1	3.0	1.3	0.9	0.4	0.0	0.9	0.4	0.0	0.0
2.6	87.5°	2.2	0.4	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>
859.6
803.1
672.3
501.1
338.1
273.8
266.8
262.9
256.8
250.8
246.8
243.8
240.8
237.7
235.5
232.9
224.7
206.4
182.5
157.8
135.6
116.0
100.0
84.7
70.8
55.6
42.6
36.1
29.6
22.6
14.3
7.0
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