

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: P954916

Luminaire Tested: **GALN-SB8A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38143 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

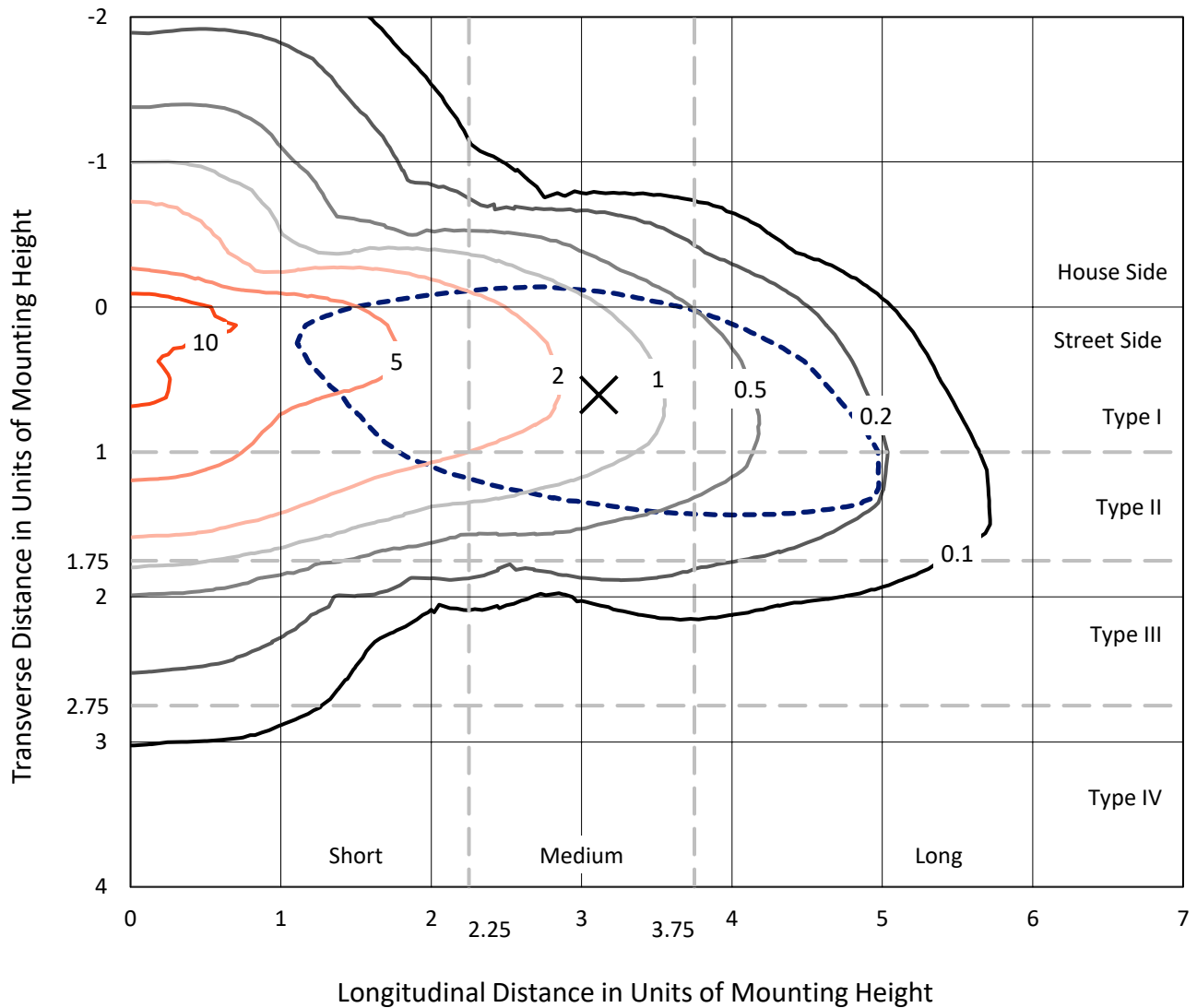
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

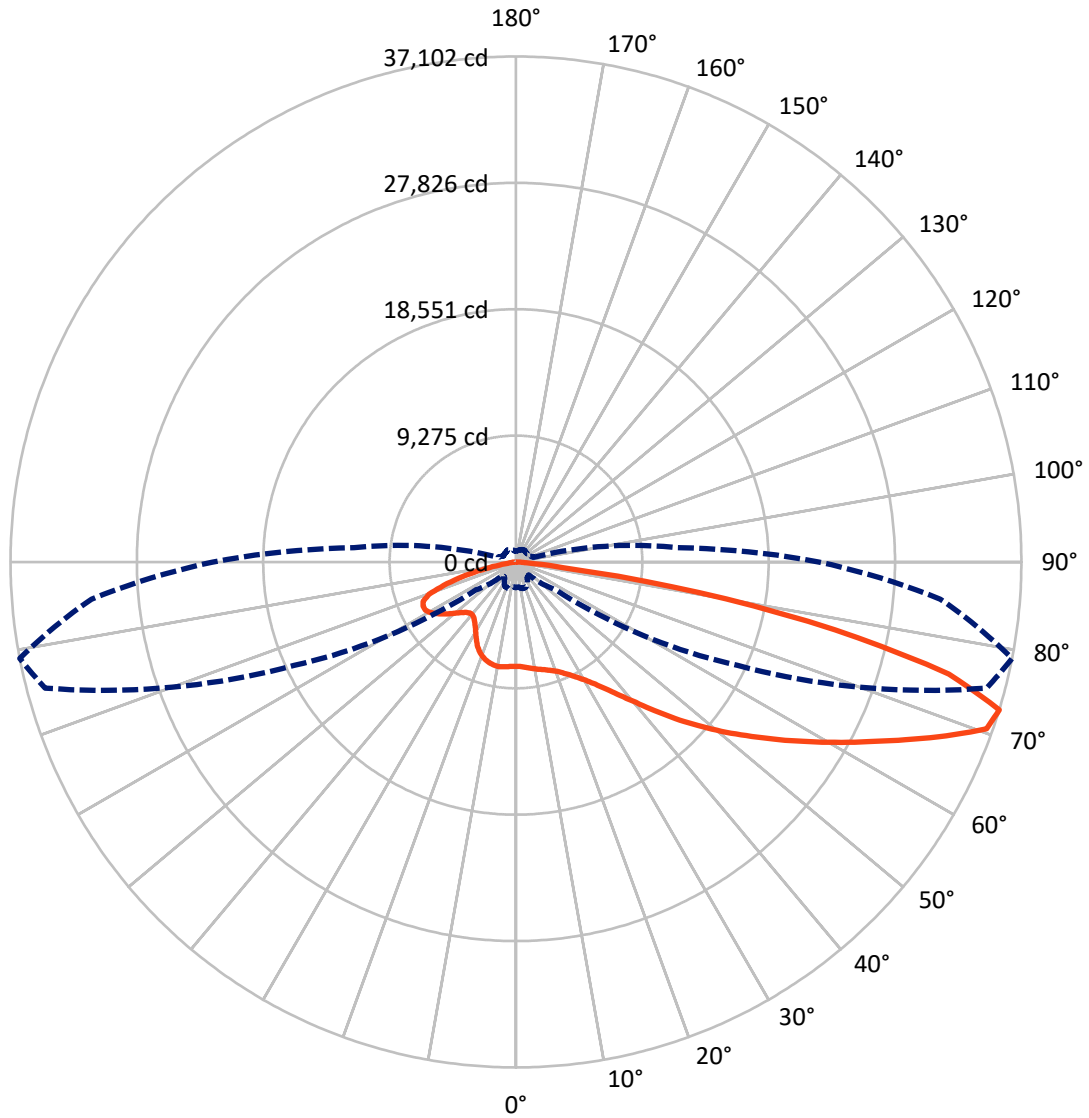
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8393.5	0.0	8393.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29749.4	0.0	29749.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	38143.0	0.0	38143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.0	1.8
10°-20°	1817.1	4.8
20°-30°	2932.1	7.7
30°-40°	4400.7	11.5
40°-50°	6242.6	16.4
50°-60°	7883.6	20.7
60°-70°	8006.8	21.0
70°-80°	5457.0	14.3
80°-90°	708.0	1.9
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°	38143.0	100.0
0°-180°	38143.0	100.0



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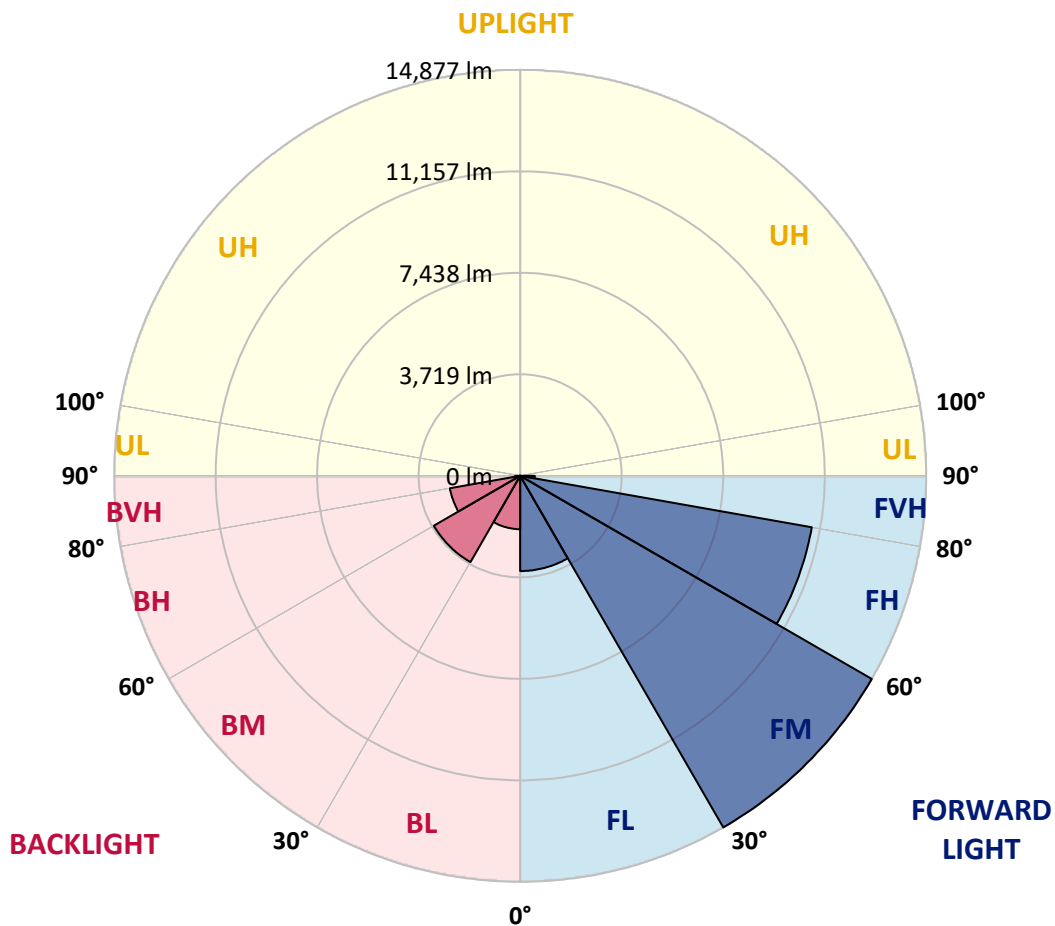
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3489.2	9.1			
FM (30°-60°)	14876.5	39.0			
FH (60°-80°)	10850.4	28.4			G4/12000
FVH (80°-90°)	533.3	1.4			G4/750
BL (0°-30°)	1955.1	5.1	B3/2500		
BM (30°-60°)	3650.3	9.6	B3/5000		
BH (60°-80°)	2613.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	174.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8
2.5°	7660.9	7624.6	7646.8	7638.7	7648.8	7660.9	7664.9	7671.0	7691.1	7689.1
5°	7644.7	7608.4	7638.7	7628.6	7654.8	7683.1	7707.3	7729.5	7761.8	7775.9
7.5°	7610.4	7586.2	7616.5	7646.8	7695.2	7737.5	7771.8	7822.3	7868.7	7876.8
10°	7410.7	7392.5	7463.2	7541.8	7675.0	7790.0	7864.7	7923.2	7973.6	7981.7
12.5°	7202.9	7180.7	7259.4	7366.3	7582.2	7790.0	7947.4	8024.1	8068.4	8094.7
15°	7168.6	7150.4	7194.8	7287.6	7467.2	7735.5	8003.9	8145.1	8183.4	8213.7
17.5°	7334.0	7299.7	7317.9	7350.2	7455.1	7685.1	8048.3	8282.3	8340.8	8373.1
20°	7717.4	7669.0	7640.7	7576.1	7558.0	7693.2	8044.2	8447.7	8524.4	8564.8
22.5°	8227.8	8195.5	8135.0	7971.6	7794.0	7792.0	8120.9	8659.6	8802.8	8841.2
25°	8845.2	8796.8	8720.1	8498.2	8157.2	7987.7	8250.0	8930.0	9170.1	9180.1
27.5°	9555.4	9482.8	9377.9	9085.3	8625.3	8294.4	8447.7	9240.7	9591.7	9587.7
30°	10304.0	10231.3	10120.4	9765.3	9186.2	8708.0	8722.1	9575.6	10092.1	10069.9
32.5°	10850.7	10796.3	10774.1	10499.7	9831.8	9196.3	9036.9	9946.8	10709.5	10689.3
35°	11270.4	11199.8	11226.0	11086.8	10536.0	9743.1	9422.3	10388.7	11460.0	11458.0
37.5°	11686.0	11623.5	11645.7	11552.9	11187.7	10437.1	9892.4	10929.4	12390.2	12434.6
40°	12065.3	11998.7	12087.5	12000.8	11694.1	11175.6	10427.0	11540.8	13467.6	13552.3
42.5°	12293.3	12240.9	12388.1	12390.2	12133.9	11799.0	11014.2	12214.6	14714.5	14904.1
45°	12372.0	12353.8	12575.8	12622.2	12523.3	12160.2	11542.8	12949.0	16058.2	16397.1
47.5°	12287.3	12253.0	12559.6	12731.1	12809.8	12329.6	11980.6	13744.0	17430.2	17926.5
50°	11859.5	11793.0	12248.9	12610.1	12890.5	12440.6	12422.4	14662.0	18989.8	19532.5
52.5°	11090.8	11040.4	11558.9	12186.4	12713.0	12495.1	12918.8	15664.8	20470.7	21172.8
55°	10108.2	10041.7	10612.6	11431.8	12271.1	12476.9	13415.1	16786.5	22218.0	22930.2
57.5°	8550.6	8417.5	9139.8	10108.2	11550.8	12454.7	13931.6	17902.3	23993.5	24846.9
60°	6278.8	6081.1	6966.8	8114.8	10142.5	12238.8	14571.2	19153.2	26124.1	26892.8
62.5°	3655.9	3540.9	4120.0	5191.3	7644.7	10967.7	14930.3	20607.9	28218.3	29025.4
65°	2838.8	2806.5	2856.9	2939.7	4255.1	8211.7	13822.7	22026.3	30881.6	31446.5
67.5°	2596.7	2572.5	2594.7	2439.3	2158.8	4573.9	10935.5	22385.4	33734.5	34077.5
70°	2308.2	2279.9	2352.5	2219.4	1698.8	2080.2	7065.7	21082.0	36004.3	36647.9
72.5°	1880.4	1848.1	2017.6	1957.1	1430.5	1335.7	3549.0	17985.0	35766.2	37101.9
75°	1444.6	1426.5	1628.2	1678.7	1166.2	1051.2	1702.9	13368.7	31474.8	32820.5
77.5°	1121.8	1107.7	1210.6	1394.2	940.2	815.1	1047.1	8480.0	23719.1	23955.1
80°	841.3	801.0	895.8	1079.4	732.4	595.2	710.2	4945.2	14992.9	13590.6
82.5°	526.6	506.4	585.1	720.3	516.5	409.6	462.0	2731.8	6008.5	3538.9
85°	300.6	292.6	318.8	411.6	280.4	236.1	264.3	1206.5	1097.6	754.6
87.5°	121.1	117.0	145.3	183.6	102.9	86.8	92.8	290.5	242.1	224.0
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°
7656.8	0°	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8	7656.8
7687.1	2.5°	7679.0	7679.0	7650.8	7606.4	7556.0	7523.7	7471.2	7457.1	7402.6	7386.5
7755.7	5°	7771.8	7755.7	7669.0	7543.9	7372.4	7215.0	7041.5	6932.5	6779.2	6724.7
7890.9	7.5°	7888.9	7844.5	7695.2	7420.8	7061.6	6708.6	6341.4	6062.9	5796.6	5701.8
8001.9	10°	7995.8	7933.3	7679.0	7198.8	6577.4	5966.1	5381.0	4971.4	4660.7	4533.6
8124.9	12.5°	8102.7	7987.7	7572.1	6829.6	5889.4	5060.2	4436.7	4117.9	3926.3	3772.9
8225.8	15°	8203.6	8042.2	7406.7	6335.3	5134.8	4293.5	3833.5	3579.2	3425.9	3325.0
8373.1	17.5°	8320.6	8088.6	7158.5	5707.8	4416.6	3762.8	3387.6	3234.2	3204.0	3191.9
8574.9	20°	8484.1	8131.0	6831.6	5005.7	3887.9	3339.2	3145.5	3131.3	3129.3	3123.3
8817.0	22.5°	8659.6	8181.4	6399.9	4368.1	3438.0	3074.8	3040.5	3012.3	2994.1	2992.1
9109.5	25°	8867.4	8197.6	5859.2	3845.6	3054.7	2949.8	2909.4	2867.0	2854.9	2854.9
9442.4	27.5°	9069.2	8143.1	5229.7	3391.6	2838.8	2834.7	2782.3	2768.2	2766.1	2772.2
9821.7	30°	9270.9	8040.2	4604.2	2971.9	2713.7	2713.7	2695.5	2705.6	2713.7	2733.9
10342.3	32.5°	9543.3	7931.2	4081.6	2661.2	2604.7	2584.6	2602.7	2622.9	2631.0	2657.2
11026.3	35°	9942.8	7854.6	3666.0	2491.8	2491.8	2465.5	2475.6	2471.6	2453.4	2441.3
11853.5	37.5°	10471.4	7850.5	3323.0	2413.1	2396.9	2392.9	2394.9	2368.7	2298.1	2213.3
12854.2	40°	11107.0	7959.5	3058.7	2358.6	2346.5	2370.7	2358.6	2288.0	2094.3	1947.0
14085.0	42.5°	11960.4	8270.2	2889.2	2292.0	2328.3	2358.6	2310.2	2066.0	1934.9	1836.0
15487.2	45°	12965.2	8774.6	2802.5	2221.4	2294.0	2330.3	2096.3	1989.4	1884.5	1765.4
17016.6	47.5°	14103.1	9410.2	2782.3	2154.8	2217.4	2239.6	2005.5	1957.1	1838.0	1708.9
18554.0	50°	15341.9	10162.7	2836.8	2076.1	2106.4	2029.7	1975.2	1930.9	1807.8	1680.7
20129.7	52.5°	16623.1	10992.0	2945.7	1969.2	1995.4	1910.7	1963.1	1924.8	1789.6	1618.1
21757.9	55°	17882.1	11827.3	3050.6	1844.1	1882.4	1803.7	1928.8	1900.6	1706.9	1513.2
23495.1	57.5°	19161.3	12658.5	3153.5	1733.1	1773.5	1700.8	1874.4	1836.0	1614.1	1416.4
25391.7	60°	20490.9	13465.6	3202.0	1626.2	1654.4	1606.0	1791.6	1725.1	1509.2	1317.5
27255.9	62.5°	21735.8	14137.4	3123.3	1519.3	1537.4	1517.2	1682.7	1593.9	1404.3	1206.5
29198.9	65°	22984.7	14536.9	2881.2	1414.3	1418.4	1408.3	1529.4	1452.7	1281.2	1109.7
30899.8	67.5°	24116.5	14760.9	2495.8	1301.4	1291.3	1287.2	1386.1	1299.3	1162.1	1012.8
32193.0	70°	24356.6	14191.9	1906.6	1168.2	1168.2	1158.1	1228.7	1140.0	1031.0	909.9
31267.0	72.5°	22246.2	11938.2	1353.8	1016.9	1033.0	1012.8	1071.4	996.7	897.8	817.1
26947.3	75°	17938.6	8754.4	984.6	861.5	889.8	855.5	909.9	857.5	772.7	770.7
18570.1	77.5°	12325.6	5413.3	714.2	710.2	730.4	686.0	748.5	720.3	643.6	609.3
8082.6	80°	5259.9	2158.8	520.5	548.8	548.8	508.4	581.1	589.1	522.6	506.4
1559.6	82.5°	1047.1	613.4	365.2	377.3	355.1	343.0	411.6	456.0	629.5	700.1
470.1	85°	314.7	226.0	219.9	205.8	181.6	183.6	242.1	458.0	564.9	322.8
155.4	87.5°	86.8	56.5	58.5	46.4	38.3	50.4	82.7	347.0	189.7	80.7
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>
7656.8
7412.7
6765.1
5713.9
4561.8
3823.4
3343.2
3199.9
3143.4
3014.3
2867.0
2788.3
2748.0
2679.4
2469.6
2215.3
1943.0
1832.0
1757.3
1698.8
1666.5
1606.0
1503.1
1412.3
1311.4
1204.5
1097.6
1000.7
905.9
792.9
694.1
571.0
506.4
702.1
278.4
68.6
0.0

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