

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: P954895

Luminaire Tested: **GALN-SB8A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954895
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 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: 36053 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

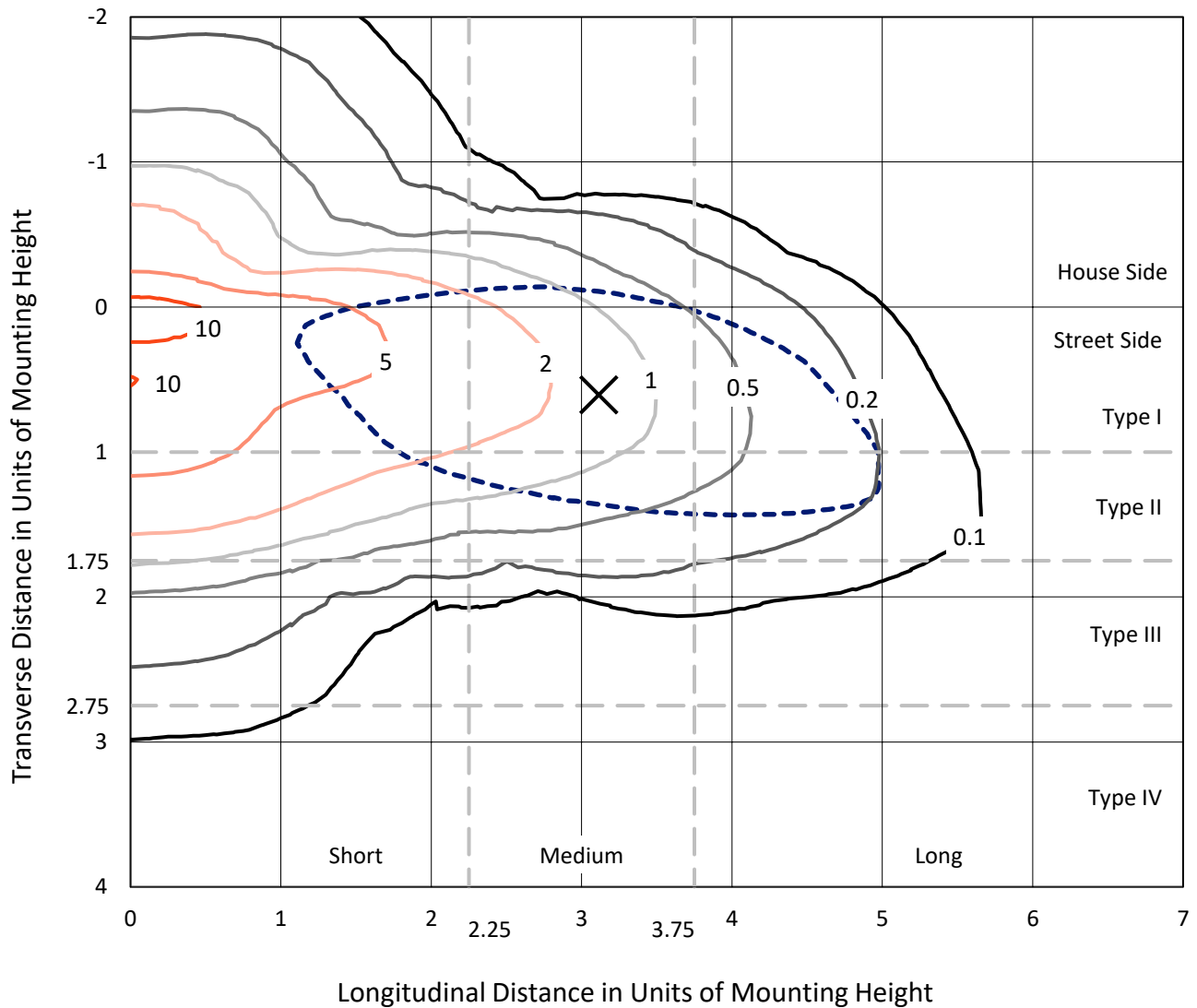
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

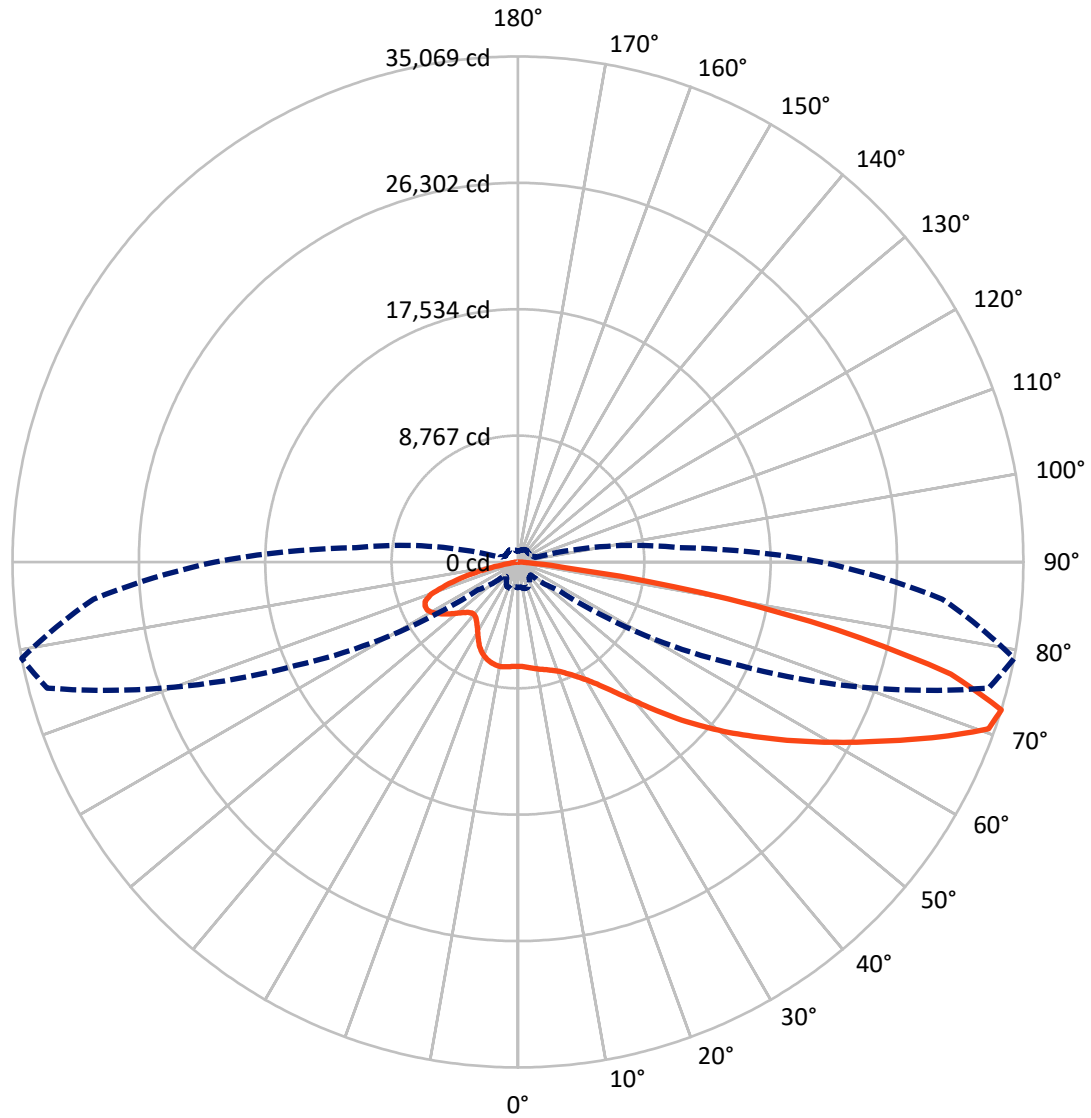
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7933.6	0.0	7933.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28119.4	0.0	28119.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	36053.0	0.0	36053.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.9	1.8
10°-20°	1717.6	4.8
20°-30°	2771.4	7.7
30°-40°	4159.5	11.5
40°-50°	5900.5	16.4
50°-60°	7451.6	20.7
60°-70°	7568.1	21.0
70°-80°	5158.0	14.3
80°-90°	669.2	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°	36053.0	100.0
0°-180°	36053.0	100.0



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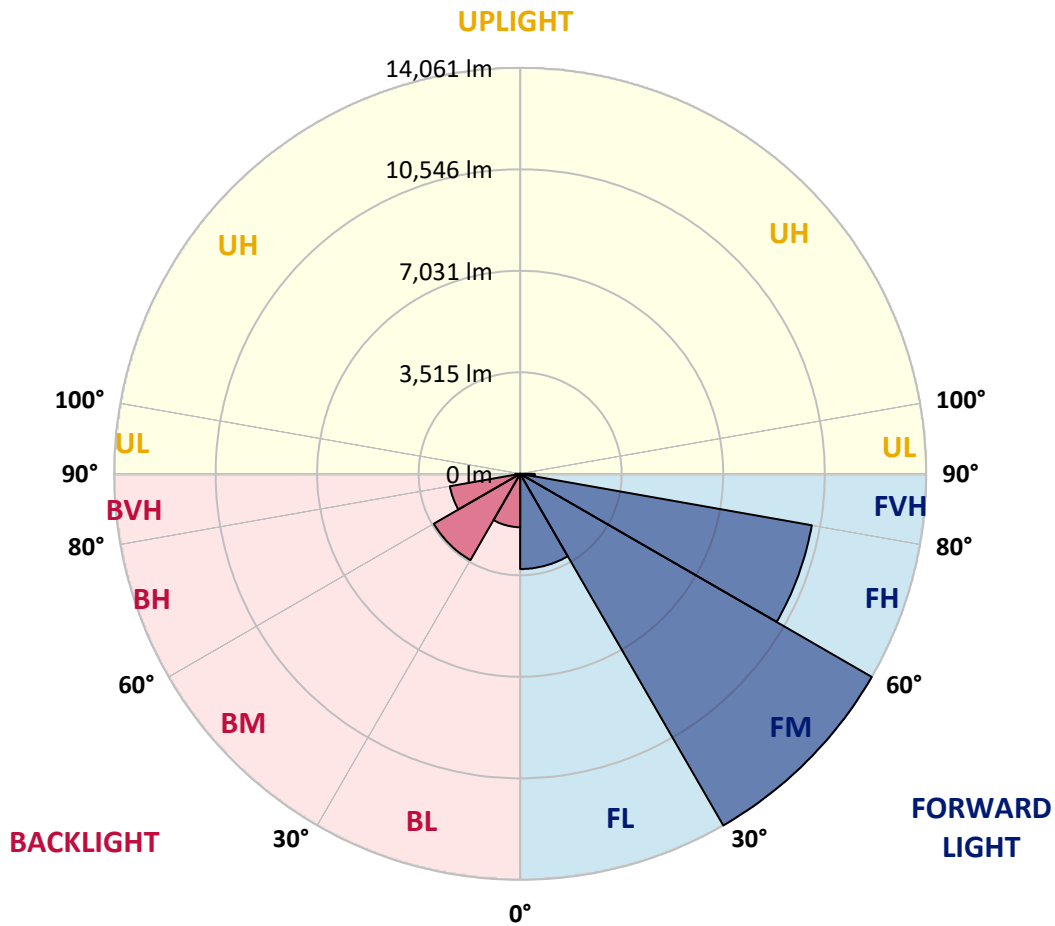
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.0	9.1			
FM (30°-60°)	14061.4	39.0			
FH (60°-80°)	10255.9	28.4			G4/12000
FVH (80°-90°)	504.1	1.4			G4/750
BL (0°-30°)	1848.0	5.1	B3/2500		
BM (30°-60°)	3450.3	9.6	B3/5000		
BH (60°-80°)	2470.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	165.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3
2.5°	7241.1	7206.8	7227.8	7220.1	7229.7	7241.1	7244.9	7250.6	7269.7	7267.8
5°	7225.9	7191.5	7220.1	7210.6	7235.4	7262.1	7285.0	7306.0	7336.5	7349.8
7.5°	7193.4	7170.5	7199.2	7227.8	7273.5	7313.6	7346.0	7393.7	7437.5	7445.2
10°	7004.6	6987.5	7054.2	7128.6	7254.5	7363.2	7433.7	7489.0	7536.7	7544.3
12.5°	6808.2	6787.2	6861.6	6962.7	7166.7	7363.2	7511.9	7584.4	7626.3	7651.1
15°	6775.8	6758.6	6800.6	6888.3	7058.0	7311.7	7565.3	7698.8	7735.0	7763.6
17.5°	6932.2	6899.7	6916.9	6947.4	7046.6	7264.0	7607.3	7828.5	7883.8	7914.3
20°	7294.5	7248.7	7222.0	7161.0	7143.9	7271.6	7603.5	7984.9	8057.3	8095.5
22.5°	7777.0	7746.5	7689.3	7534.8	7367.0	7365.1	7675.9	8185.1	8320.5	8356.7
25°	8360.6	8314.8	8242.3	8032.5	7710.2	7550.1	7798.0	8440.7	8667.6	8677.1
27.5°	9031.8	8963.2	8864.0	8587.5	8152.7	7839.9	7984.9	8734.3	9066.2	9062.4
30°	9739.4	9670.7	9565.8	9230.2	8682.8	8230.9	8244.2	9050.9	9539.1	9518.1
32.5°	10256.2	10204.7	10183.7	9924.3	9293.1	8692.4	8541.7	9401.8	10122.7	10103.6
35°	10652.8	10586.1	10610.9	10479.3	9958.7	9209.2	8906.0	9819.5	10832.1	10830.2
37.5°	11045.7	10986.6	11007.6	10919.8	10574.7	9865.2	9350.3	10330.6	11711.3	11753.2
40°	11404.2	11341.3	11425.2	11343.2	11053.3	10563.2	9855.7	10908.4	12729.6	12809.7
42.5°	11619.7	11570.1	11709.4	11711.3	11469.1	11152.5	10410.6	11545.3	13908.2	14087.5
45°	11694.1	11676.9	11886.7	11930.6	11837.1	11493.9	10910.3	12239.5	15178.3	15498.7
47.5°	11614.0	11581.6	11871.5	12033.6	12107.9	11654.1	11324.1	12990.9	16475.1	16944.2
50°	11209.7	11146.8	11577.8	11919.1	12184.2	11758.9	11741.8	13858.6	17949.3	18462.3
52.5°	10483.1	10435.4	10925.6	11518.6	12016.4	11810.4	12210.9	14806.4	19349.0	20012.7
55°	9554.4	9491.4	10031.1	10805.4	11598.7	11793.3	12680.0	15866.7	21000.6	21673.7
57.5°	8082.1	7956.3	8639.0	9554.4	10917.9	11772.3	13168.3	16921.4	22678.8	23485.5
60°	5934.8	5747.9	6585.1	7670.2	9586.8	11568.2	13772.8	18103.7	24692.6	25419.2
62.5°	3455.6	3346.9	3894.2	4906.9	7225.9	10366.8	14112.3	19478.7	26672.2	27435.0
65°	2683.2	2652.7	2700.4	2778.6	4022.0	7761.7	13065.3	20819.4	29189.5	29723.5
67.5°	2454.4	2431.5	2452.5	2305.6	2040.6	4323.3	10336.3	21158.8	31886.1	32210.3
70°	2181.7	2155.0	2223.6	2097.8	1605.7	1966.2	6678.5	19926.9	34031.5	34639.9
72.5°	1777.4	1746.9	1907.1	1849.8	1352.1	1262.5	3354.5	16999.5	33806.5	35068.9
75°	1365.5	1348.3	1539.0	1586.7	1102.3	993.6	1609.6	12636.2	29750.2	31022.2
77.5°	1060.3	1047.0	1144.2	1317.8	888.7	770.5	989.8	8015.4	22419.4	22642.5
80°	795.2	757.1	846.7	1020.3	692.3	562.6	671.3	4674.2	14171.4	12846.0
82.5°	497.7	478.7	553.0	680.8	488.2	387.1	436.7	2582.2	5679.2	3345.0
85°	284.2	276.5	301.3	389.0	265.1	223.1	249.8	1140.4	1037.4	713.2
87.5°	114.4	110.6	137.3	173.5	97.3	82.0	87.7	274.6	228.8	211.7
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°
7237.3	0°	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3	7237.3
7265.9	2.5°	7258.3	7258.3	7231.6	7189.6	7141.9	7111.4	7061.8	7048.5	6997.0	6981.8
7330.7	5°	7346.0	7330.7	7248.7	7130.5	6968.4	6819.7	6655.6	6552.7	6407.7	6356.2
7458.5	7.5°	7456.6	7414.7	7273.5	7014.2	6674.7	6341.0	5993.9	5730.7	5479.0	5389.4
7563.4	10°	7557.7	7498.6	7258.3	6804.4	6217.0	5639.2	5086.1	4699.0	4405.3	4285.2
7679.7	12.5°	7658.8	7550.1	7157.2	6455.4	5566.7	4782.9	4193.6	3892.3	3711.1	3566.2
7775.1	15°	7754.1	7601.5	7000.8	5988.2	4853.5	4058.2	3623.4	3383.1	3238.2	3142.8
7914.3	17.5°	7864.7	7645.4	6766.3	5395.1	4174.6	3556.7	3202.0	3057.0	3028.4	3017.0
8105.0	20°	8019.2	7685.5	6457.3	4731.4	3674.9	3156.2	2973.1	2959.8	2957.9	2952.1
8333.9	22.5°	8185.1	7733.1	6049.2	4128.8	3249.6	2906.4	2873.9	2847.2	2830.1	2828.2
8610.4	25°	8381.5	7748.4	5538.1	3634.9	2887.3	2788.1	2750.0	2709.9	2698.5	2698.5
8925.0	27.5°	8572.2	7696.9	4943.1	3205.8	2683.2	2679.4	2629.8	2616.5	2614.6	2620.3
9283.6	30°	8762.9	7599.6	4351.9	2809.1	2565.0	2565.0	2547.8	2557.4	2565.0	2584.1
9775.6	32.5°	9020.4	7496.7	3858.0	2515.4	2462.0	2442.9	2460.1	2479.2	2486.8	2511.6
10422.1	35°	9398.0	7424.2	3465.1	2355.2	2355.2	2330.4	2340.0	2336.1	2319.0	2307.5
11204.0	37.5°	9897.6	7420.4	3140.9	2280.8	2265.6	2261.8	2263.7	2238.9	2172.1	2092.0
12149.9	40°	10498.4	7523.4	2891.1	2229.4	2217.9	2240.8	2229.4	2162.6	1979.5	1840.3
13313.2	42.5°	11305.1	7817.0	2730.9	2166.4	2200.7	2229.4	2183.6	1952.8	1828.9	1735.4
14638.6	45°	12254.8	8293.8	2648.9	2099.7	2168.3	2202.7	1981.4	1880.4	1781.2	1668.7
16084.2	47.5°	13330.4	8894.5	2629.8	2036.7	2095.9	2116.8	1895.6	1849.8	1737.3	1615.3
17537.3	50°	14501.3	9605.9	2681.3	1962.4	1991.0	1918.5	1867.0	1825.1	1708.7	1588.6
19026.7	52.5°	15712.3	10389.7	2784.3	1861.3	1886.1	1806.0	1855.6	1819.3	1691.6	1529.5
20565.7	55°	16902.3	11179.2	2883.5	1743.1	1779.3	1704.9	1823.2	1796.5	1613.4	1430.3
22207.7	57.5°	18111.4	11964.9	2980.7	1638.2	1676.3	1607.7	1771.7	1735.4	1525.6	1338.8
24000.4	60°	19368.1	12727.7	3026.5	1537.1	1563.8	1518.0	1693.5	1630.5	1426.5	1245.3
25762.5	62.5°	20544.8	13362.8	2952.1	1436.0	1453.2	1434.1	1590.5	1506.6	1327.3	1140.4
27599.0	65°	21725.2	13740.4	2723.3	1336.8	1340.7	1331.1	1445.6	1373.1	1211.0	1048.9
29206.6	67.5°	22795.1	13952.1	2359.0	1230.1	1220.5	1216.7	1310.2	1228.1	1098.5	957.3
30429.1	70°	23022.0	13414.3	1802.2	1104.2	1104.2	1094.7	1161.4	1077.5	974.5	860.1
29553.7	72.5°	21027.3	11284.1	1279.6	961.2	976.4	957.3	1012.6	942.1	848.6	772.4
25470.7	75°	16955.7	8274.7	930.6	814.3	841.0	808.6	860.1	810.5	730.4	728.5
17552.6	77.5°	11650.2	5116.6	675.1	671.3	690.4	648.4	707.5	680.8	608.4	575.9
7639.7	80°	4971.7	2040.6	492.0	518.7	518.7	480.6	549.2	556.9	493.9	478.7
1474.2	82.5°	989.8	579.7	345.2	356.6	335.6	324.2	389.0	431.0	595.0	661.8
444.3	85°	297.5	213.6	207.9	194.5	171.6	173.5	228.8	432.9	534.0	305.1
146.8	87.5°	82.0	53.4	55.3	43.9	36.2	47.7	78.2	328.0	179.3	76.3
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>
7237.3
7006.5
6394.4
5400.8
4311.9
3613.9
3160.0
3024.6
2971.2
2849.1
2709.9
2635.6
2597.4
2532.6
2334.2
2094.0
1836.5
1731.6
1661.1
1605.7
1575.2
1518.0
1420.8
1334.9
1239.6
1138.5
1037.4
945.9
856.3
749.5
656.0
539.7
478.7
663.7
263.2
64.8
0.0

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