

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: P957226

Luminaire Tested: **GALN-SB9C-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957226
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-SB9C-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41270 lumens
Efficiency: N/A
Efficacy: 91.8 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

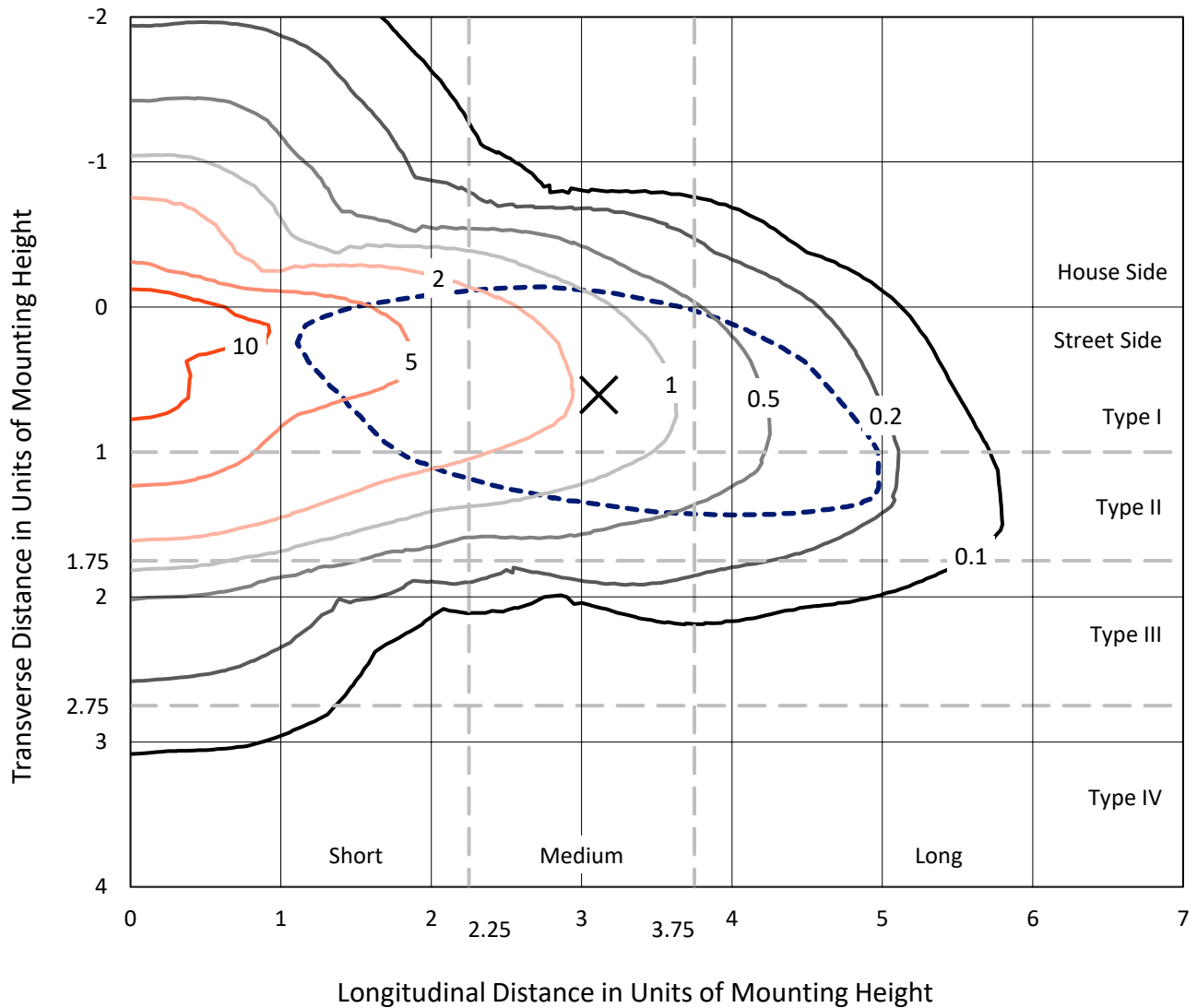
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

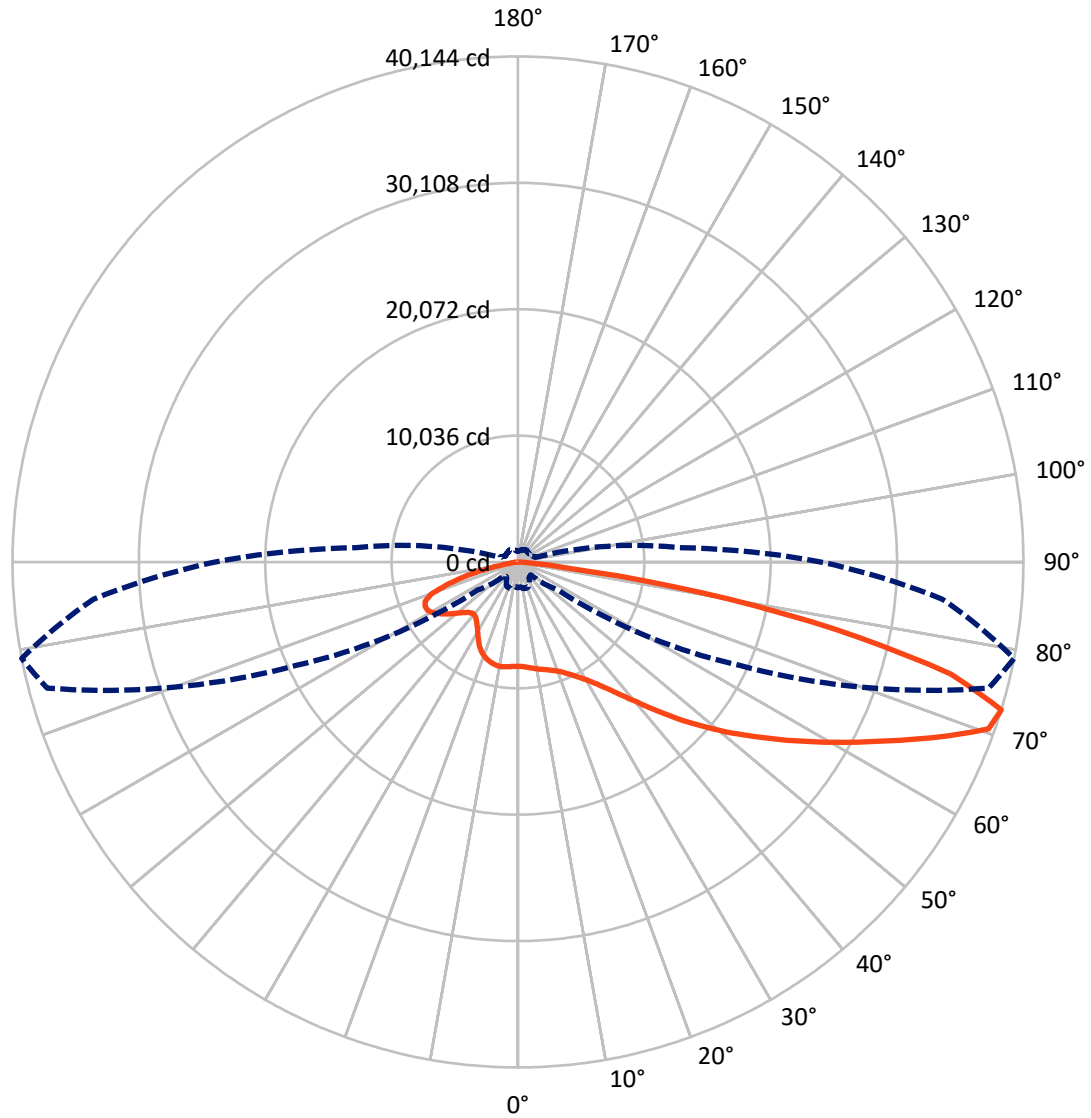
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	9081.7	0.0	9081.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32188.3	0.0	32188.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	41270.0	0.0	41270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.0	1.8
10°-20°	1966.1	4.8
20°-30°	3172.5	7.7
30°-40°	4761.4	11.5
40°-50°	6754.4	16.4
50°-60°	8529.9	20.7
60°-70°	8663.3	21.0
70°-80°	5904.4	14.3
80°-90°	766.0	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°	41270.0	100.0
0°-180°	41270.0	100.0

Coefficient of Utilization



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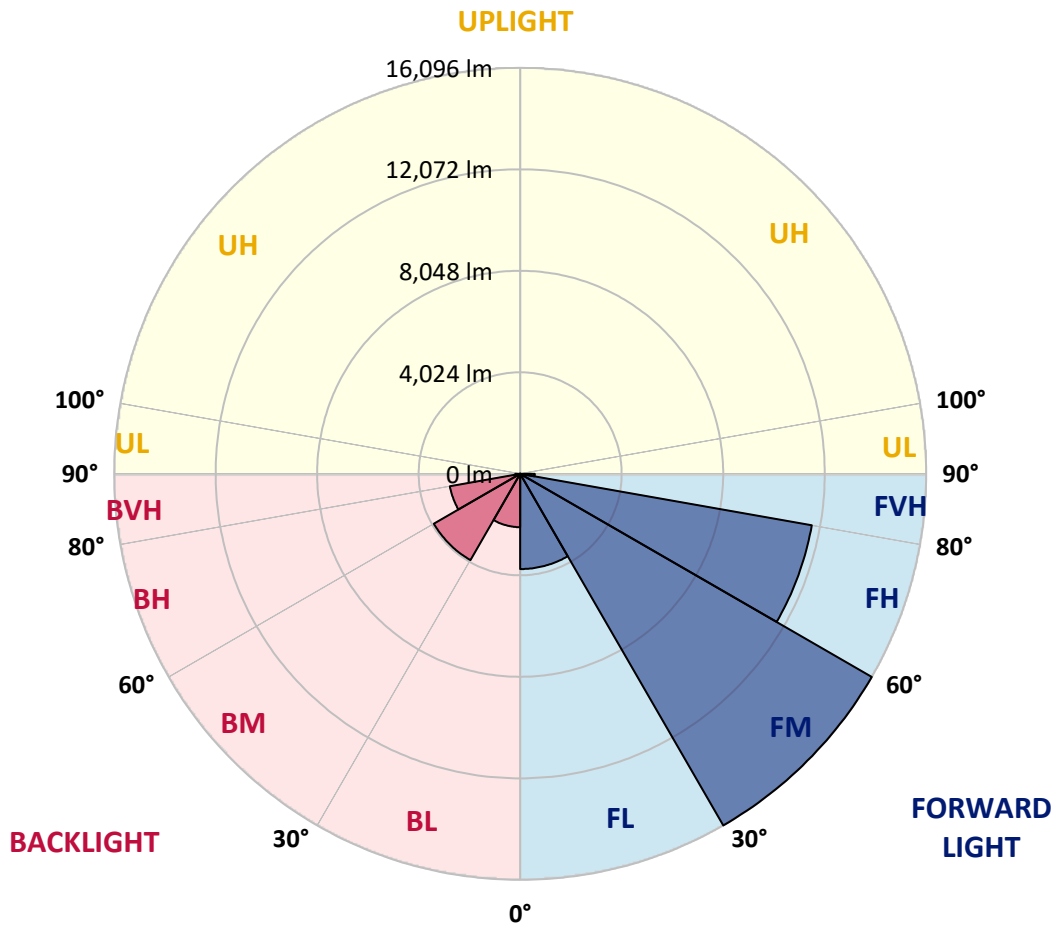
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3775.2	9.1			
FM (30°-60°)	16096.1	39.0			
FH (60°-80°)	11739.9	28.4			G4/12000
FVH (80°-90°)	577.1	1.4			G4/750
BL (0°-30°)	2115.4	5.1	B3/2500		
BM (30°-60°)	3949.6	9.6	B3/5000		
BH (60°-80°)	2827.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	189.0	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°	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6
2.5°	8288.9	8249.6	8273.6	8264.9	8275.8	8288.9	8293.3	8299.8	8321.7	8319.5
5°	8271.5	8232.2	8264.9	8254.0	8282.4	8312.9	8339.1	8363.1	8398.1	8413.4
7.5°	8234.4	8208.2	8240.9	8273.6	8326.0	8371.9	8409.0	8463.6	8513.8	8522.5
10°	8018.2	7998.6	8075.0	8160.1	8304.2	8428.6	8509.4	8572.7	8627.3	8636.0
12.5°	7793.4	7769.4	7854.5	7970.2	8203.8	8428.6	8598.9	8681.9	8729.9	8758.3
15°	7756.3	7736.6	7784.6	7885.1	8079.4	8369.7	8660.0	8812.9	8854.3	8887.1
17.5°	7935.3	7898.2	7917.8	7952.7	8066.3	8315.1	8708.1	8961.3	9024.6	9059.5
20°	8350.1	8297.7	8267.1	8197.2	8177.6	8323.9	8703.7	9140.3	9223.3	9266.9
22.5°	8902.4	8867.4	8801.9	8625.1	8433.0	8430.8	8786.7	9369.5	9524.5	9566.0
25°	9570.4	9518.0	9435.0	9194.9	8825.9	8642.6	8926.4	9662.0	9921.8	9932.7
27.5°	10338.8	10260.2	10146.7	9830.1	9332.4	8974.4	9140.3	9998.2	10378.1	10373.7
30°	11148.7	11070.1	10950.0	10565.8	9939.3	9421.9	9437.2	10360.6	10919.5	10895.5
32.5°	11740.3	11681.3	11657.3	11360.4	10637.9	9950.2	9777.7	10762.3	11587.5	11565.6
35°	12194.3	12117.9	12146.3	11995.7	11399.7	10541.8	10194.7	11240.4	12399.6	12397.4
37.5°	12644.1	12576.4	12600.4	12500.0	12104.8	11292.8	10703.3	11825.4	13405.9	13454.0
40°	13054.5	12982.4	13078.5	12984.6	12652.8	12091.7	11281.8	12486.9	14571.7	14663.3
42.5°	13301.1	13244.4	13403.7	13405.9	13128.7	12766.3	11917.1	13216.0	15920.8	16126.0
45°	13386.3	13366.6	13606.8	13657.0	13550.0	13157.1	12489.1	14010.6	17374.7	17741.4
47.5°	13294.6	13257.5	13589.3	13774.9	13860.0	13340.4	12962.8	14870.7	18859.1	19396.1
50°	12831.8	12759.8	13253.1	13643.9	13947.3	13460.5	13440.9	15864.0	20546.6	21133.8
52.5°	12000.1	11945.5	12506.5	13185.4	13755.2	13519.4	13977.9	16949.0	22148.9	22908.6
55°	10936.9	10864.9	11482.7	12369.0	13277.1	13499.8	14514.9	18162.7	24039.4	24810.0
57.5°	9251.6	9107.6	9889.1	10936.9	12497.8	13475.8	15073.8	19369.9	25960.5	26883.9
60°	6793.6	6579.6	7538.0	8780.1	10974.0	13242.2	15765.8	20723.4	28265.7	29097.5
62.5°	3955.6	3831.2	4457.7	5616.9	8271.5	11866.9	16154.3	22297.4	30531.7	31404.9
65°	3071.5	3036.6	3091.2	3180.7	4604.0	8884.9	14955.9	23832.0	33413.3	34024.5
67.5°	2809.5	2783.4	2807.4	2639.3	2335.8	4948.9	11832.0	24220.6	36500.1	36871.2
70°	2497.4	2466.8	2545.4	2401.3	1838.1	2250.7	7644.9	22810.4	38956.0	39652.4
72.5°	2034.6	1999.6	2183.0	2117.5	1547.8	1445.2	3839.9	19459.4	38698.4	40143.6
75°	1563.0	1543.4	1761.7	1816.3	1261.8	1137.4	1842.5	14464.7	34055.1	35511.2
77.5°	1213.8	1198.5	1309.8	1508.5	1017.3	881.9	1133.0	9175.2	25663.6	25919.0
80°	910.3	866.7	969.3	1167.9	792.4	644.0	768.4	5350.6	16222.0	14704.8
82.5°	569.8	547.9	633.1	779.3	558.9	443.2	499.9	2955.8	6501.0	3829.0
85°	325.3	316.5	344.9	445.3	303.4	255.4	286.0	1305.4	1187.6	816.4
87.5°	131.0	126.6	157.2	198.7	111.3	93.9	100.4	314.4	262.0	242.3
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°
8284.6	0°	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6	8284.6
8317.3	2.5°	8308.6	8308.6	8278.0	8230.0	8175.4	8140.5	8083.7	8068.4	8009.5	7992.0
8391.5	5°	8409.0	8391.5	8297.7	8162.3	7976.8	7806.5	7618.7	7500.9	7334.9	7276.0
8537.8	7.5°	8535.6	8487.6	8326.0	8029.1	7640.6	7258.5	6861.2	6560.0	6271.8	6169.2
8657.9	10°	8651.3	8583.6	8308.6	7789.0	7116.6	6455.2	5822.1	5379.0	5042.8	4905.2
8791.0	12.5°	8767.0	8642.6	8192.9	7389.5	6372.2	5475.0	4800.5	4455.5	4248.2	4082.2
8900.2	15°	8876.2	8701.5	8013.9	6854.7	5555.8	4645.5	4147.7	3872.7	3706.8	3597.6
9059.5	17.5°	9002.8	8751.7	7745.4	6175.8	4778.6	4071.3	3665.3	3499.4	3466.6	3453.5
9277.8	20°	9179.6	8797.6	7391.7	5416.1	4206.7	3612.9	3403.3	3388.0	3385.9	3379.3
9539.8	22.5°	9369.5	8852.1	6924.5	4726.2	3719.9	3326.9	3289.8	3259.2	3239.6	3237.4
9856.3	25°	9594.4	8869.6	6339.5	4160.8	3305.1	3191.6	3147.9	3102.1	3089.0	3089.0
10216.5	27.5°	9812.7	8810.7	5658.4	3669.7	3071.5	3067.1	3010.4	2995.1	2992.9	2999.5
10626.9	30°	10031.0	8699.3	4981.7	3215.6	2936.2	2936.2	2916.5	2927.4	2936.2	2958.0
11190.2	32.5°	10325.7	8581.5	4416.2	2879.4	2818.3	2796.4	2816.1	2837.9	2846.7	2875.0
11930.2	35°	10757.9	8498.5	3966.5	2696.0	2696.0	2667.7	2678.6	2674.2	2654.6	2641.5
12825.2	37.5°	11329.9	8494.1	3595.4	2610.9	2593.4	2589.1	2591.2	2562.9	2486.5	2394.8
13908.0	40°	12017.5	8612.0	3309.5	2552.0	2538.9	2565.0	2552.0	2475.5	2266.0	2106.6
15239.7	42.5°	12940.9	8948.2	3126.1	2479.9	2519.2	2552.0	2499.6	2235.4	2093.5	1986.5
16756.9	45°	14028.1	9494.0	3032.2	2403.5	2482.1	2521.4	2268.2	2152.5	2038.9	1910.1
18411.6	47.5°	15259.3	10181.6	3010.4	2331.5	2399.1	2423.2	2169.9	2117.5	1988.7	1849.0
20075.0	50°	16599.7	10995.9	3069.3	2246.3	2279.1	2196.1	2137.2	2089.1	1956.0	1818.5
21780.0	52.5°	17985.9	11893.1	3187.2	2130.6	2159.0	2067.3	2124.1	2082.6	1936.3	1750.8
23541.7	55°	19348.1	12796.9	3300.7	1995.3	2036.8	1951.6	2087.0	2056.4	1846.8	1637.3
25421.3	57.5°	20732.1	13696.3	3412.1	1875.2	1918.9	1840.3	2028.0	1986.5	1746.4	1532.5
27473.3	60°	22170.7	14569.5	3464.5	1759.5	1790.1	1737.7	1938.5	1866.5	1632.9	1425.5
29490.4	62.5°	23517.7	15296.4	3379.3	1643.8	1663.5	1641.6	1820.6	1724.6	1519.4	1305.4
31592.7	65°	24869.0	15728.7	3117.4	1530.3	1534.7	1523.7	1654.7	1571.8	1386.2	1200.7
33432.9	67.5°	26093.6	15971.0	2700.4	1408.0	1397.1	1392.8	1499.7	1405.9	1257.4	1095.9
34832.3	70°	26353.4	15355.4	2063.0	1264.0	1264.0	1253.1	1329.5	1233.4	1115.5	984.5
33830.3	72.5°	24070.0	12916.9	1464.8	1100.2	1117.7	1095.9	1159.2	1078.4	971.4	884.1
29156.4	75°	19409.2	9472.1	1065.3	932.1	962.7	925.6	984.5	927.8	836.1	833.9
20092.5	77.5°	13336.1	5857.0	772.8	768.4	790.3	742.2	809.9	779.3	696.4	659.3
8745.2	80°	5691.1	2335.8	563.2	593.8	593.8	550.1	628.7	637.4	565.4	547.9
1687.5	82.5°	1133.0	663.6	395.1	408.2	384.2	371.1	445.3	493.4	681.1	757.5
508.6	85°	340.6	244.5	237.9	222.7	196.5	198.7	262.0	495.5	611.2	349.3
168.1	87.5°	93.9	61.1	63.3	50.2	41.5	54.6	89.5	375.5	205.2	87.3
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>
8284.6
8020.4
7319.7
6182.3
4935.8
4136.8
3617.3
3462.3
3401.1
3261.4
3102.1
3016.9
2973.3
2899.1
2672.0
2397.0
2102.2
1982.2
1901.4
1838.1
1803.2
1737.7
1626.3
1528.1
1419.0
1303.3
1187.6
1082.8
980.2
857.9
751.0
617.8
547.9
759.7
301.3
74.2
0.0

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