

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: P955357

Luminaire Tested: **GALN-SB8B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955357
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-SB8B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40667 lumens
Efficiency: N/A
Efficacy: 138.9 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

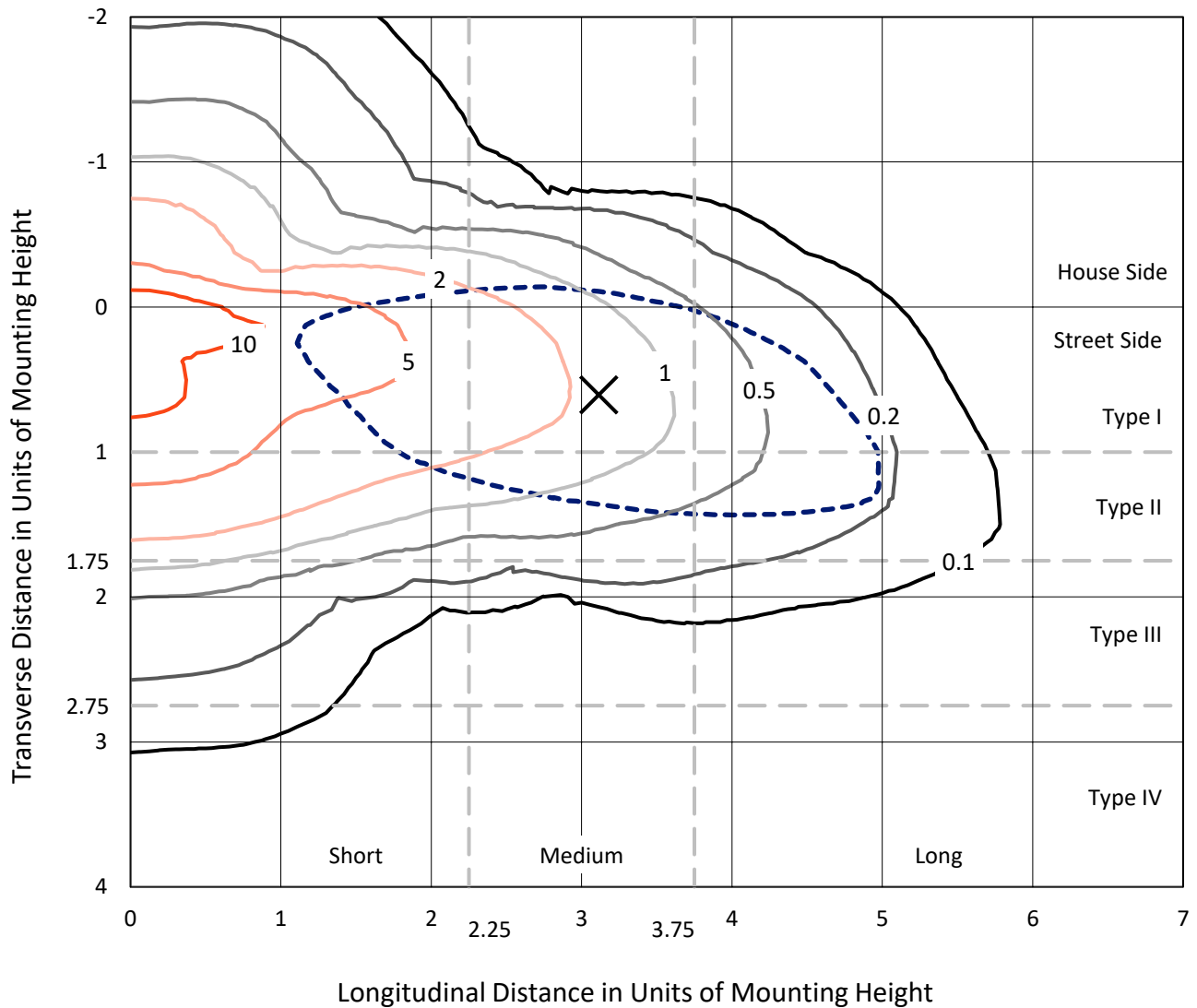
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

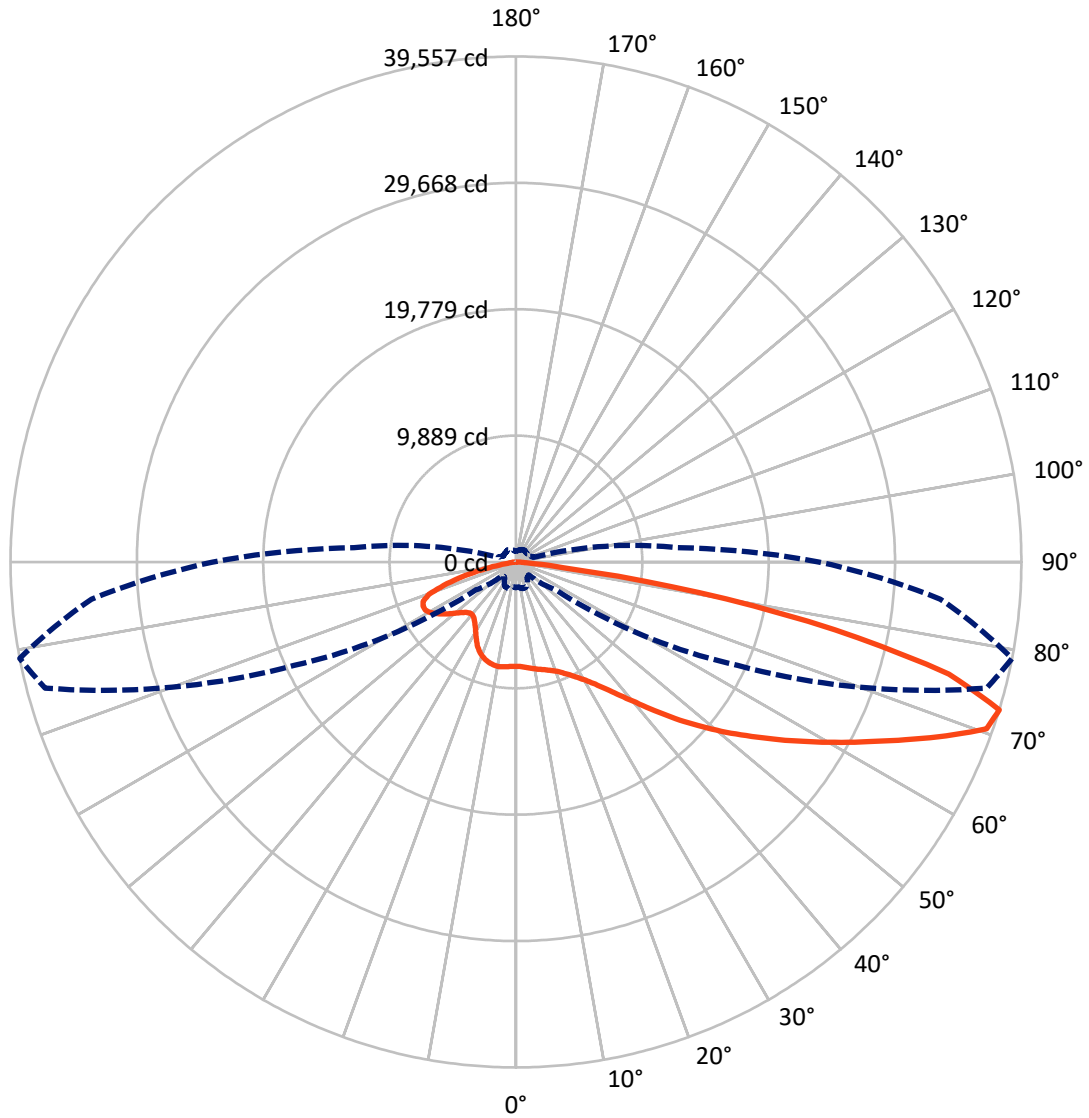
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	8949.0	0.0	8949.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31718.0	0.0	31718.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	40667.0	0.0	40667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.0	1.8
10°-20°	1937.4	4.8
20°-30°	3126.1	7.7
30°-40°	4691.9	11.5
40°-50°	6655.7	16.4
50°-60°	8405.2	20.7
60°-70°	8536.7	21.0
70°-80°	5818.1	14.3
80°-90°	754.9	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°	40667.0	100.0
0°-180°	40667.0	100.0

Coefficient of Utilization



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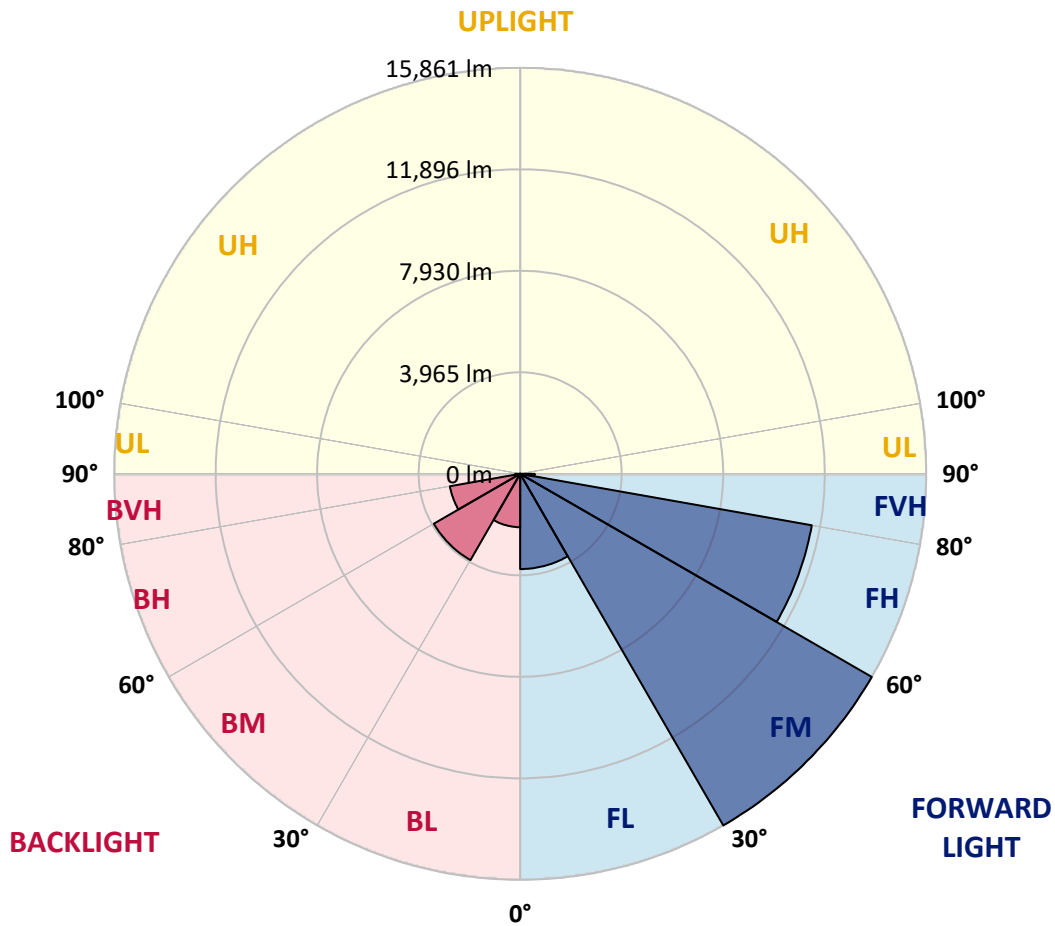
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3720.0	9.1			
FM (30°-60°)	15861.0	39.0			
FH (60°-80°)	11568.4	28.4			G4/12000
FVH (80°-90°)	568.6	1.4			G4/750
BL (0°-30°)	2084.5	5.1	B3/2500		
BM (30°-60°)	3891.9	9.6	B3/5000		
BH (60°-80°)	2786.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	186.2	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°	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5
2.5°	8167.8	8129.1	8152.8	8144.2	8154.9	8167.8	8172.1	8178.6	8200.1	8197.9
5°	8150.6	8111.9	8144.2	8133.4	8161.4	8191.5	8217.3	8241.0	8275.4	8290.4
7.5°	8114.0	8088.2	8120.5	8152.8	8204.4	8249.6	8286.1	8339.9	8389.4	8398.0
10°	7901.1	7881.7	7957.0	8040.9	8182.9	8305.5	8385.1	8447.5	8501.2	8509.8
12.5°	7679.5	7655.8	7739.7	7853.8	8083.9	8305.5	8473.3	8555.0	8602.3	8630.3
15°	7642.9	7623.6	7670.9	7769.9	7961.3	8247.4	8533.5	8684.1	8725.0	8757.2
17.5°	7819.3	7782.8	7802.1	7836.5	7948.4	8193.6	8580.8	8830.4	8892.7	8927.2
20°	8228.0	8176.4	8146.3	8077.5	8058.1	8202.2	8576.5	9006.8	9088.5	9131.5
22.5°	8772.3	8737.9	8673.3	8499.1	8309.8	8307.6	8658.3	9232.6	9385.4	9426.2
25°	9430.5	9378.9	9297.2	9060.5	8697.0	8516.3	8795.9	9520.9	9776.9	9787.6
27.5°	10187.7	10110.3	9998.4	9686.5	9196.1	8843.3	9006.8	9852.1	10226.4	10222.1
30°	10985.8	10908.3	10790.0	10411.4	9794.1	9284.2	9299.3	10209.2	10759.9	10736.3
32.5°	11568.7	11510.7	11487.0	11194.4	10482.4	9804.8	9634.9	10605.0	11418.2	11396.7
35°	12016.2	11940.9	11968.9	11820.4	11233.2	10387.8	10045.7	11076.1	12218.4	12216.2
37.5°	12459.3	12392.6	12416.3	12317.3	11928.0	11127.8	10547.0	11652.6	13210.0	13257.4
40°	12863.7	12792.7	12887.4	12794.9	12467.9	11915.1	11117.0	12304.4	14358.7	14449.1
42.5°	13106.8	13050.9	13207.9	13210.0	12936.9	12579.8	11743.0	13022.9	15688.1	15890.3
45°	13190.7	13171.3	13408.0	13457.4	13352.0	12964.8	12306.6	13805.9	17120.8	17482.2
47.5°	13100.3	13063.8	13390.7	13573.6	13657.5	13145.5	12773.4	14653.5	18583.6	19112.7
50°	12644.3	12573.3	13059.5	13444.5	13743.5	13263.8	13244.5	15632.2	20246.4	20825.0
52.5°	11824.7	11770.9	12323.8	12992.8	13554.2	13321.9	13773.6	16701.3	21825.3	22573.9
55°	10777.1	10706.1	11314.9	12188.3	13083.1	13302.5	14302.8	17897.3	23688.2	24447.5
57.5°	9116.5	8974.5	9744.6	10777.1	12315.2	13278.9	14853.5	19086.9	25581.2	26491.1
60°	6694.3	6483.5	7427.8	8651.8	10813.7	13048.7	15535.4	20420.6	27852.7	28672.3
62.5°	3897.8	3775.2	4392.6	5534.8	8150.6	11693.5	15918.3	21971.6	30085.6	30946.1
65°	3026.6	2992.2	3046.0	3134.2	4536.7	8755.1	14737.3	23483.8	32925.1	33527.4
67.5°	2768.5	2742.7	2766.3	2600.7	2301.7	4876.6	11659.1	23866.7	35966.8	36332.5
70°	2460.9	2430.8	2508.2	2366.2	1811.2	2217.8	7533.2	22477.1	38386.8	39073.0
72.5°	2004.8	1970.4	2151.1	2086.6	1525.1	1424.0	3783.8	19175.1	38133.0	39557.0
75°	1540.2	1520.8	1736.0	1789.7	1243.3	1120.7	1815.5	14253.3	33557.5	34992.3
77.5°	1196.0	1181.0	1290.7	1486.4	1002.4	869.1	1116.4	9041.2	25288.6	25540.3
80°	897.0	854.0	955.1	1150.9	780.9	634.6	757.2	5272.4	15985.0	14490.0
82.5°	561.4	539.9	623.8	768.0	550.7	436.7	492.6	2912.6	6406.0	3773.1
85°	320.5	311.9	339.9	438.8	299.0	251.7	281.8	1286.4	1170.2	804.5
87.5°	129.1	124.8	154.9	195.8	109.7	92.5	99.0	309.8	258.1	238.8
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°
8163.5	0°	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5	8163.5
8195.8	2.5°	8187.2	8187.2	8157.1	8109.7	8056.0	8021.5	7965.6	7950.6	7892.5	7875.3
8268.9	5°	8286.1	8268.9	8176.4	8043.1	7860.2	7692.4	7507.4	7391.3	7227.8	7169.7
8413.0	7.5°	8410.9	8363.6	8204.4	7911.8	7528.9	7152.5	6761.0	6464.1	6180.2	6079.1
8531.4	10°	8524.9	8458.2	8187.2	7675.2	7012.7	6360.9	5737.0	5300.4	4969.1	4833.6
8662.6	12.5°	8638.9	8516.3	8073.2	7281.6	6279.1	5395.0	4730.3	4390.4	4186.1	4022.6
8770.1	15°	8746.5	8574.4	7896.8	6754.5	5474.6	4577.6	4087.1	3816.1	3652.6	3545.1
8927.2	17.5°	8871.2	8623.9	7632.2	6085.5	4708.8	4011.8	3611.7	3448.3	3416.0	3403.1
9142.3	20°	9045.5	8669.0	7283.7	5336.9	4145.2	3560.1	3353.6	3338.5	3336.4	3329.9
9400.4	22.5°	9232.6	8722.8	6823.4	4657.2	3665.5	3278.3	3241.7	3211.6	3192.3	3190.1
9712.3	25°	9454.2	8740.0	6246.9	4100.0	3256.8	3144.9	3101.9	3056.7	3043.8	3043.8
10067.3	27.5°	9669.3	8681.9	5575.7	3616.0	3026.6	3022.3	2966.4	2951.3	2949.2	2955.6
10471.7	30°	9884.4	8572.2	4908.9	3168.6	2893.3	2893.3	2873.9	2884.7	2893.3	2914.8
11026.7	32.5°	10174.8	8456.1	4351.7	2837.3	2777.1	2755.6	2774.9	2796.5	2805.1	2833.0
11755.9	35°	10600.7	8374.3	3908.6	2656.6	2656.6	2628.7	2639.4	2635.1	2615.8	2602.9
12637.9	37.5°	11164.3	8370.0	3542.9	2572.7	2555.5	2551.2	2553.4	2525.4	2450.1	2359.8
13704.8	40°	11841.9	8486.2	3261.1	2514.7	2501.8	2527.6	2514.7	2439.4	2232.9	2075.8
15017.0	42.5°	12751.9	8817.5	3080.4	2443.7	2482.4	2514.7	2463.0	2202.8	2062.9	1957.5
16512.0	45°	13823.1	9355.2	2987.9	2368.4	2445.8	2484.5	2235.0	2121.0	2009.1	1882.2
18142.6	47.5°	15036.4	10032.8	2966.4	2297.4	2364.1	2387.7	2138.2	2086.6	1959.7	1822.0
19781.7	50°	16357.1	10835.2	3024.5	2213.5	2245.8	2164.0	2105.9	2058.6	1927.4	1791.9
21461.8	52.5°	17723.1	11719.3	3140.6	2099.5	2127.5	2037.1	2093.0	2052.2	1908.0	1725.2
23197.7	55°	19065.4	12609.9	3252.5	1966.1	2007.0	1923.1	2056.5	2026.4	1819.9	1613.3
25049.8	57.5°	20429.2	13496.1	3362.2	1847.8	1890.8	1813.4	1998.4	1957.5	1720.9	1510.1
27071.9	60°	21846.8	14356.6	3413.8	1733.8	1763.9	1712.3	1910.2	1839.2	1609.0	1404.7
29059.5	62.5°	23174.1	15072.9	3329.9	1619.8	1639.2	1617.6	1794.0	1699.4	1497.2	1286.4
31131.1	65°	24505.6	15498.8	3071.8	1507.9	1512.2	1501.5	1630.6	1548.8	1366.0	1183.1
32944.5	67.5°	25712.4	15737.6	2660.9	1387.5	1376.7	1372.4	1477.8	1385.3	1239.0	1079.9
34323.3	70°	25968.4	15131.0	2032.8	1245.5	1245.5	1234.7	1310.0	1215.4	1099.2	970.2
33336.0	72.5°	23718.3	12728.2	1443.4	1084.2	1101.4	1079.9	1142.2	1062.7	957.2	871.2
28730.4	75°	19125.6	9333.7	1049.7	918.5	948.6	912.1	970.2	914.2	823.9	821.7
19798.9	77.5°	13141.2	5771.5	761.5	757.2	778.7	731.4	798.1	768.0	686.2	649.6
8617.4	80°	5608.0	2301.7	555.0	585.1	585.1	542.1	619.5	628.1	557.1	539.9
1662.8	82.5°	1116.4	653.9	389.4	402.3	378.6	365.7	438.8	486.2	671.2	746.4
501.2	85°	335.6	240.9	234.5	219.4	193.6	195.8	258.1	488.3	602.3	344.2
165.6	87.5°	92.5	60.2	62.4	49.5	40.9	53.8	88.2	370.0	202.2	86.0
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>
8163.5
7903.2
7212.7
6092.0
4863.7
4076.4
3564.4
3411.7
3351.5
3213.8
3056.7
2972.9
2929.8
2856.7
2633.0
2361.9
2071.5
1953.2
1873.6
1811.2
1776.8
1712.3
1602.6
1505.8
1398.2
1284.2
1170.2
1067.0
965.9
845.4
740.0
608.8
539.9
748.6
296.9
73.1
0.0

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