

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: P949783

Luminaire Tested: **GALN-SB4B-935-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-935-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16117 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

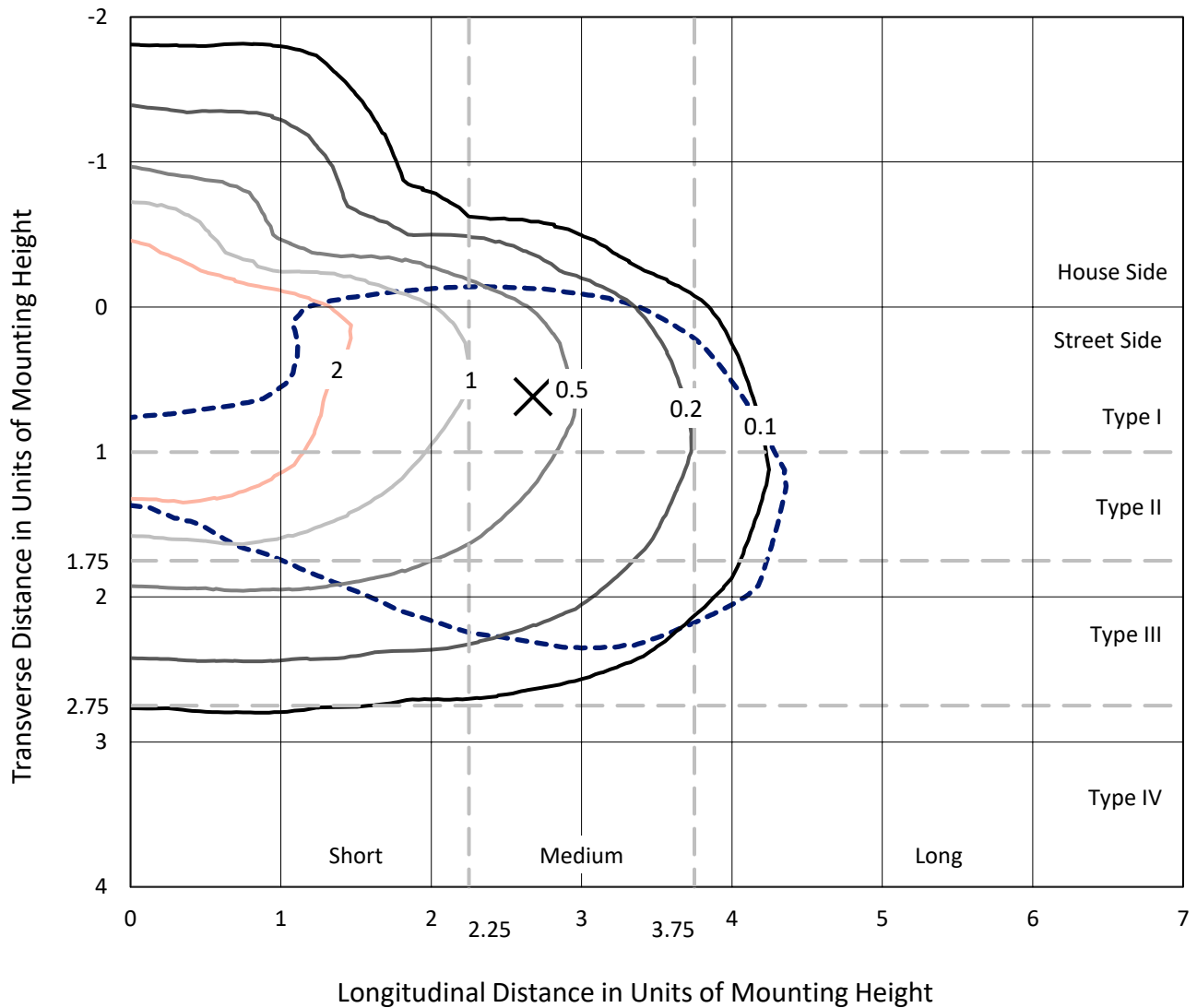
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

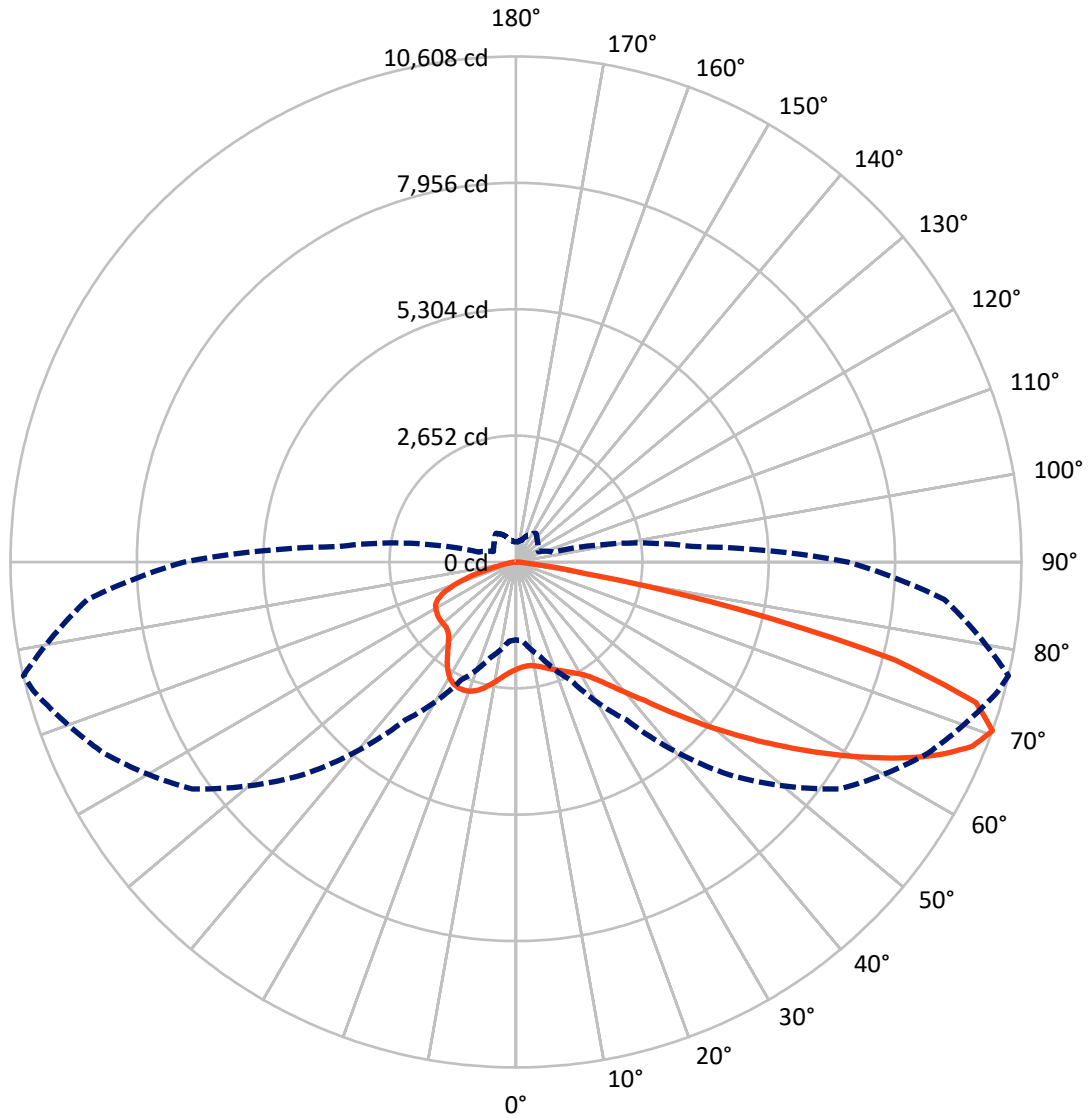
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3529.4	0.0	3529.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12587.6	0.0	12587.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	16117.0	0.0	16117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.3
10°-20°	618.9	3.8
20°-30°	1058.4	6.6
30°-40°	1702.0	10.6
40°-50°	2657.3	16.5
50°-60°	3549.6	22.0
60°-70°	3783.3	23.5
70°-80°	2329.0	14.5
80°-90°	204.1	1.3
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°	16117.0	100.0
0°-180°	16117.0	100.0



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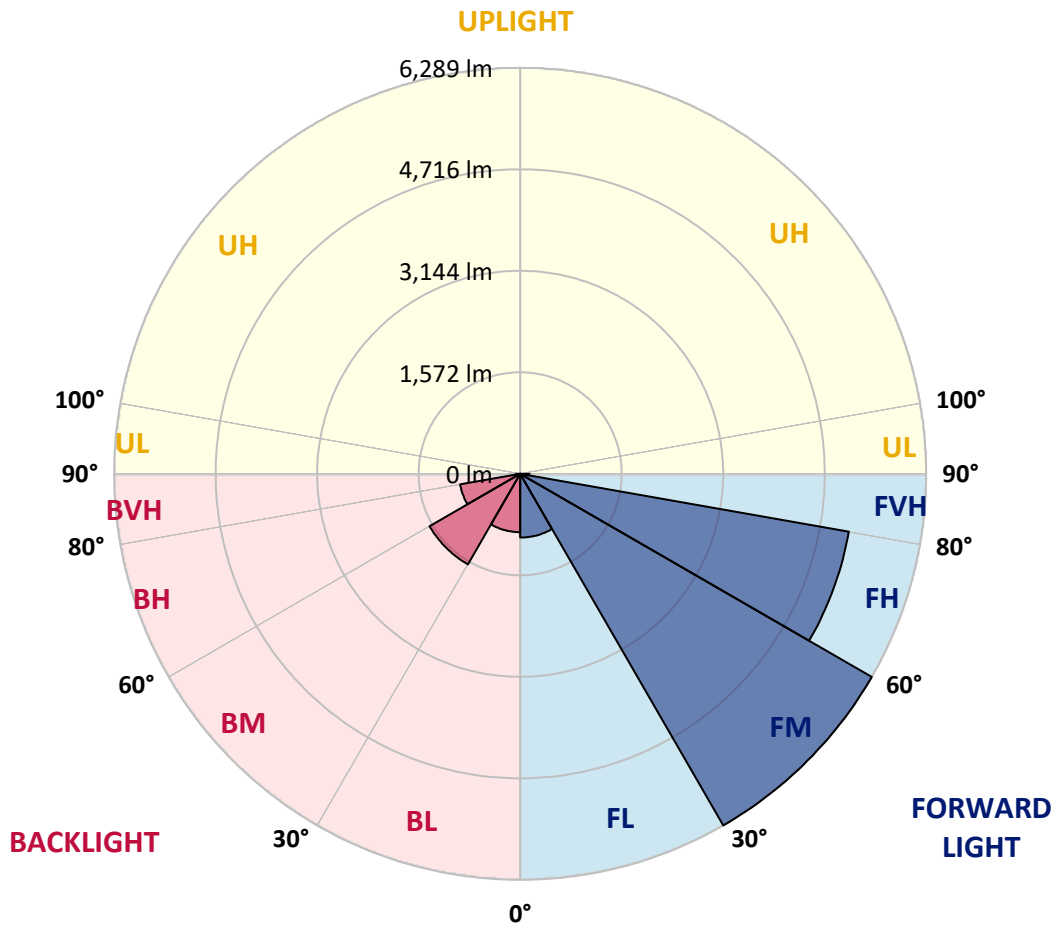
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.4	6.1			
FM (30°-60°)	6288.5	39.0			
FH (60°-80°)	5169.0	32.1			G3/7500
FVH (80°-90°)	142.7	0.9			G2/225
BL (0°-30°)	904.3	5.6	B2/1000		
BM (30°-60°)	1620.4	10.1	B2/2500		
BH (60°-80°)	943.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5
2.5°	2072.7	2071.8	2082.6	2085.9	2105.7	2119.7	2146.1	2174.2	2210.5	2214.6
5°	1953.0	1953.0	1965.3	1978.6	2004.1	2032.2	2072.7	2121.4	2184.1	2194.0
7.5°	1851.4	1858.0	1868.8	1894.4	1924.1	1964.5	2026.4	2095.8	2178.3	2194.0
10°	1769.7	1777.1	1790.4	1811.0	1855.6	1911.7	1992.6	2081.7	2192.3	2217.1
12.5°	1744.1	1751.6	1759.0	1774.7	1815.9	1882.0	1978.6	2088.3	2226.2	2250.9
15°	1803.6	1812.6	1806.9	1802.7	1824.2	1884.5	1985.2	2112.3	2268.3	2303.8
17.5°	1940.6	1943.9	1930.7	1891.9	1888.6	1920.8	2016.5	2145.3	2321.1	2359.9
20°	2161.8	2156.0	2128.8	2052.0	2008.3	2001.7	2070.2	2194.8	2375.6	2416.9
22.5°	2462.3	2455.7	2401.2	2279.8	2182.4	2118.1	2147.8	2259.2	2436.7	2482.9
25°	2837.0	2827.9	2747.9	2582.8	2431.7	2272.4	2253.4	2344.2	2511.8	2554.7
27.5°	3274.5	3267.0	3180.4	2962.5	2744.6	2483.7	2384.7	2444.1	2590.2	2638.9
30°	3745.0	3766.4	3612.9	3378.5	3102.8	2759.4	2561.3	2567.1	2691.7	2735.5
32.5°	4298.0	4335.2	4150.3	3853.1	3476.7	3059.0	2784.2	2738.8	2839.5	2875.8
35°	4846.1	4888.2	4734.7	4406.1	3972.8	3412.3	3016.9	2936.1	3035.9	3075.5
37.5°	5319.9	5376.0	5296.8	5011.2	4503.5	3838.2	3320.7	3168.0	3277.8	3327.3
40°	5693.8	5779.7	5773.9	5595.6	5129.2	4355.0	3706.2	3454.4	3578.2	3631.9
42.5°	5997.6	6071.9	6136.2	6127.2	5782.1	4941.8	4159.3	3826.7	3920.8	3982.7
45°	6207.2	6286.5	6425.1	6574.5	6410.3	5570.0	4678.5	4268.3	4354.1	4447.4
47.5°	6394.6	6484.6	6664.5	6901.4	6943.5	6200.6	5247.3	4782.5	4861.0	4957.5
50°	6411.1	6488.7	6767.7	7103.6	7322.4	6806.5	5858.1	5359.5	5433.0	5536.2
52.5°	6012.4	6134.6	6621.6	7097.9	7496.5	7313.3	6464.8	5959.6	6042.1	6166.0
55°	4667.0	4846.1	6193.2	6876.6	7434.6	7641.0	7041.7	6597.7	6703.3	6832.9
57.5°	4019.8	4098.3	4916.3	6473.8	7152.3	7726.0	7528.7	7242.3	7412.4	7554.3
60°	3612.9	3678.1	4161.8	5847.3	6780.9	7591.5	7905.1	7843.2	8137.1	8306.3
62.5°	3177.1	3239.0	3678.9	4882.4	6305.5	7367.8	8142.9	8397.9	8880.0	9064.9
65°	2744.6	2797.4	3219.2	4102.4	5701.2	7144.1	8265.8	8877.5	9567.5	9759.0
67.5°	2262.5	2306.2	2704.9	3461.0	4966.6	6837.9	8326.9	9254.7	10166.0	10330.2
70°	1632.7	1666.5	2078.4	2737.1	4044.6	6311.2	8302.2	9522.1	10476.3	10607.6
72.5°	771.8	802.3	1286.0	1777.1	2856.8	5286.0	7801.1	9310.0	10161.0	10095.8
75°	411.9	438.3	738.8	974.8	1508.9	3623.6	6383.9	8019.9	8532.5	8215.5
77.5°	279.0	299.6	457.3	585.2	689.2	1720.2	4103.2	5552.7	5342.2	4818.9
80°	221.2	242.7	374.7	396.2	333.5	621.5	1695.4	2570.4	1846.5	1476.7
82.5°	170.0	194.0	315.3	287.2	181.6	255.1	493.6	813.0	473.0	359.9
85°	104.0	129.6	247.6	183.2	102.4	116.4	167.6	226.2	144.5	120.5
87.5°	52.8	74.3	125.5	66.9	46.2	27.2	44.6	44.6	38.0	33.0
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°
2248.5	0°	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5	2248.5
2236.9	2.5°	2256.7	2273.2	2301.3	2327.7	2348.3	2368.2	2388.0	2398.7	2402.0	2415.2
2249.3	5°	2283.1	2313.7	2368.2	2419.3	2451.5	2471.3	2485.4	2493.6	2495.3	2499.4
2283.1	7.5°	2331.8	2380.5	2456.5	2507.7	2531.6	2529.9	2524.2	2503.5	2495.3	2487.8
2332.7	10°	2400.3	2464.7	2558.0	2593.5	2578.6	2539.0	2487.8	2427.6	2399.5	2372.3
2400.3	12.5°	2485.4	2567.1	2658.7	2657.1	2583.6	2482.1	2363.2	2270.8	2212.1	2170.1
2483.7	15°	2588.5	2682.6	2752.8	2696.7	2535.7	2353.3	2179.1	2058.6	2005.8	1959.6
2567.9	17.5°	2695.0	2795.7	2827.9	2684.3	2415.2	2162.6	1965.3	1870.4	1818.4	1793.7
2658.7	20°	2799.0	2898.9	2872.5	2613.3	2232.0	1946.4	1770.5	1718.5	1707.8	1713.6
2747.0	22.5°	2908.8	2998.0	2881.6	2476.3	1998.4	1725.1	1628.6	1630.2	1654.2	1671.5
2839.5	25°	3021.1	3081.3	2857.6	2278.2	1747.4	1562.5	1538.6	1565.0	1612.1	1645.9
2943.5	27.5°	3129.2	3155.6	2805.6	2033.0	1532.0	1446.2	1450.3	1504.8	1575.7	1622.8
3069.8	30°	3251.4	3221.6	2705.8	1757.3	1382.6	1346.3	1380.9	1444.5	1515.5	1557.6
3229.1	32.5°	3389.2	3278.6	2547.3	1502.3	1276.9	1266.2	1323.2	1364.4	1395.8	1408.2
3440.4	35°	3560.9	3358.7	2344.2	1323.2	1182.0	1207.6	1262.1	1241.4	1229.1	1222.5
3724.3	37.5°	3783.8	3466.8	2106.5	1206.8	1105.2	1165.5	1187.8	1123.4	1074.7	1050.8
4068.5	40°	4052.0	3625.3	1877.9	1116.8	1056.5	1129.2	1090.4	1012.8	950.9	917.1
4455.7	42.5°	4350.0	3791.2	1685.5	1049.1	1029.3	1099.5	1018.6	926.1	826.3	815.5
4917.1	45°	4662.8	3962.1	1554.3	997.1	1016.1	1073.9	977.3	827.9	756.9	800.7
5380.1	47.5°	4975.7	4118.9	1475.0	958.3	1009.5	1045.0	941.0	773.4	723.1	786.6
5876.2	50°	5324.0	4259.2	1439.5	930.3	1002.1	1033.4	886.5	759.4	687.6	729.7
6389.6	52.5°	5669.9	4368.2	1413.1	902.2	991.3	1024.4	860.1	742.9	644.7	647.1
6906.4	55°	6014.9	4439.2	1384.2	865.0	967.4	1004.5	857.6	724.7	612.5	600.9
7452.8	57.5°	6383.0	4479.6	1348.8	823.8	926.1	954.2	855.1	710.7	602.6	583.6
8011.6	60°	6757.8	4539.0	1302.5	773.4	870.8	893.9	849.4	705.7	596.8	564.6
8538.2	62.5°	7093.7	4559.7	1247.2	725.6	799.8	834.5	837.0	701.6	581.1	525.8
8975.7	65°	7314.1	4470.5	1150.6	671.1	723.1	773.4	813.0	687.6	553.0	497.7
9192.0	67.5°	7305.0	4216.3	999.6	600.9	648.8	705.7	778.4	663.6	519.2	463.1
9028.5	70°	6965.0	3714.4	808.1	519.2	567.1	633.1	733.8	628.2	478.7	425.1
8028.1	72.5°	5973.6	2907.2	586.9	423.4	472.1	558.0	676.0	585.2	437.5	391.3
5933.2	75°	4267.5	1839.9	397.9	325.2	367.3	473.0	604.2	534.9	399.5	392.9
2971.5	77.5°	2180.0	879.1	263.3	237.7	255.9	373.1	507.6	477.9	405.3	324.4
845.2	80°	709.0	324.4	165.9	161.8	170.0	248.5	392.9	392.1	307.1	220.4
204.7	82.5°	226.2	139.5	108.1	104.0	99.9	156.0	274.0	310.4	207.2	139.5
73.5	85°	90.0	83.4	63.6	58.6	42.1	73.5	143.6	206.4	154.4	100.7
19.0	87.5°	33.0	33.0	17.3	12.4	9.1	24.8	38.8	61.9	88.3	52.0
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>
2248.5
2422.6
2506.0
2489.5
2364.0
2160.1
1954.6
1801.1
1711.1
1675.6
1655.0
1634.3
1567.5
1414.8
1229.1
1056.5
919.5
826.3
823.8
816.3
761.0
664.5
609.2
586.1
567.1
525.8
497.7
465.5
430.0
388.8
370.6
288.9
194.8
138.7
103.2
51.2
0.0

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