

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: P941079

Luminaire Tested: **GALN-SB4B-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16163 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

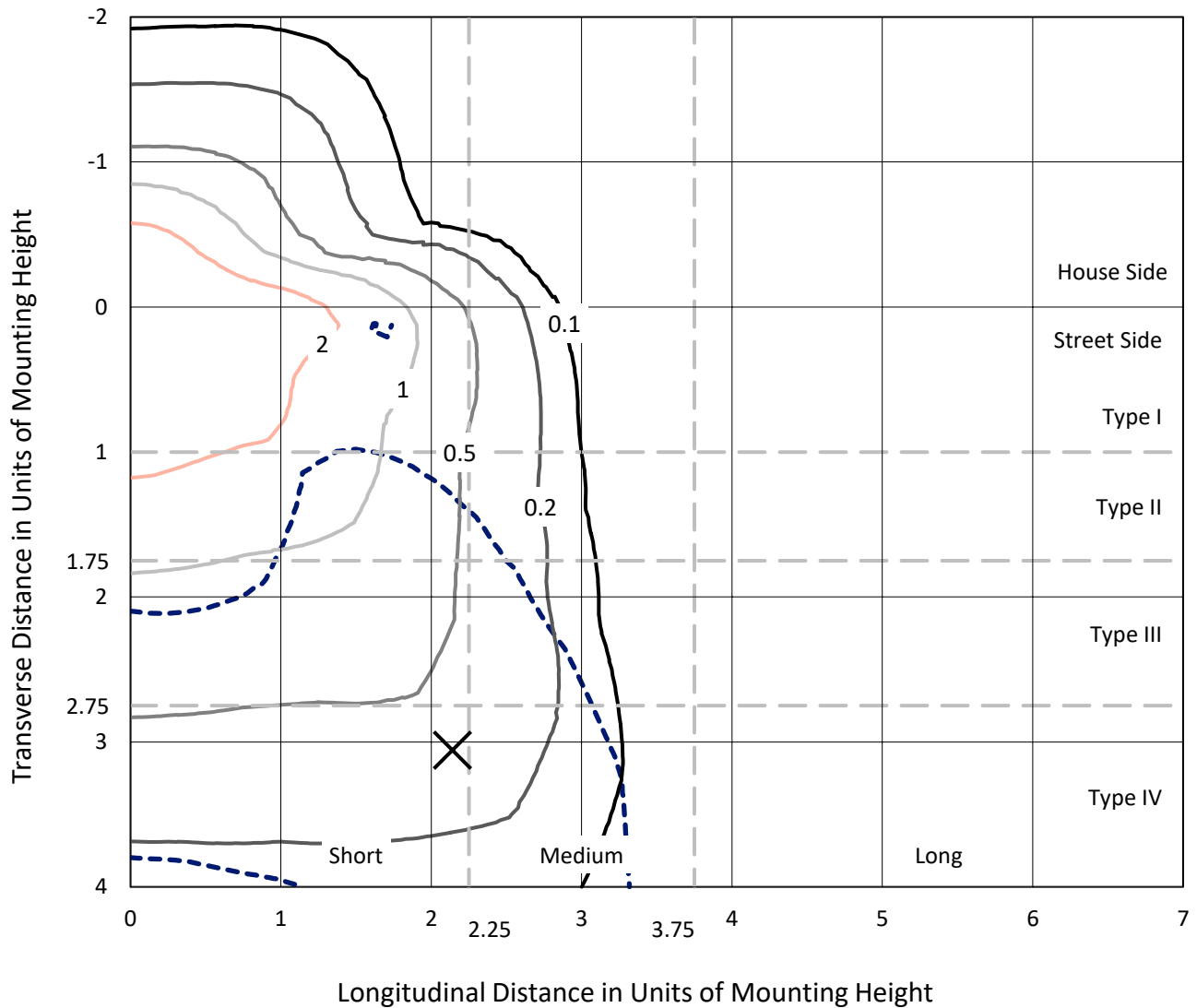
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

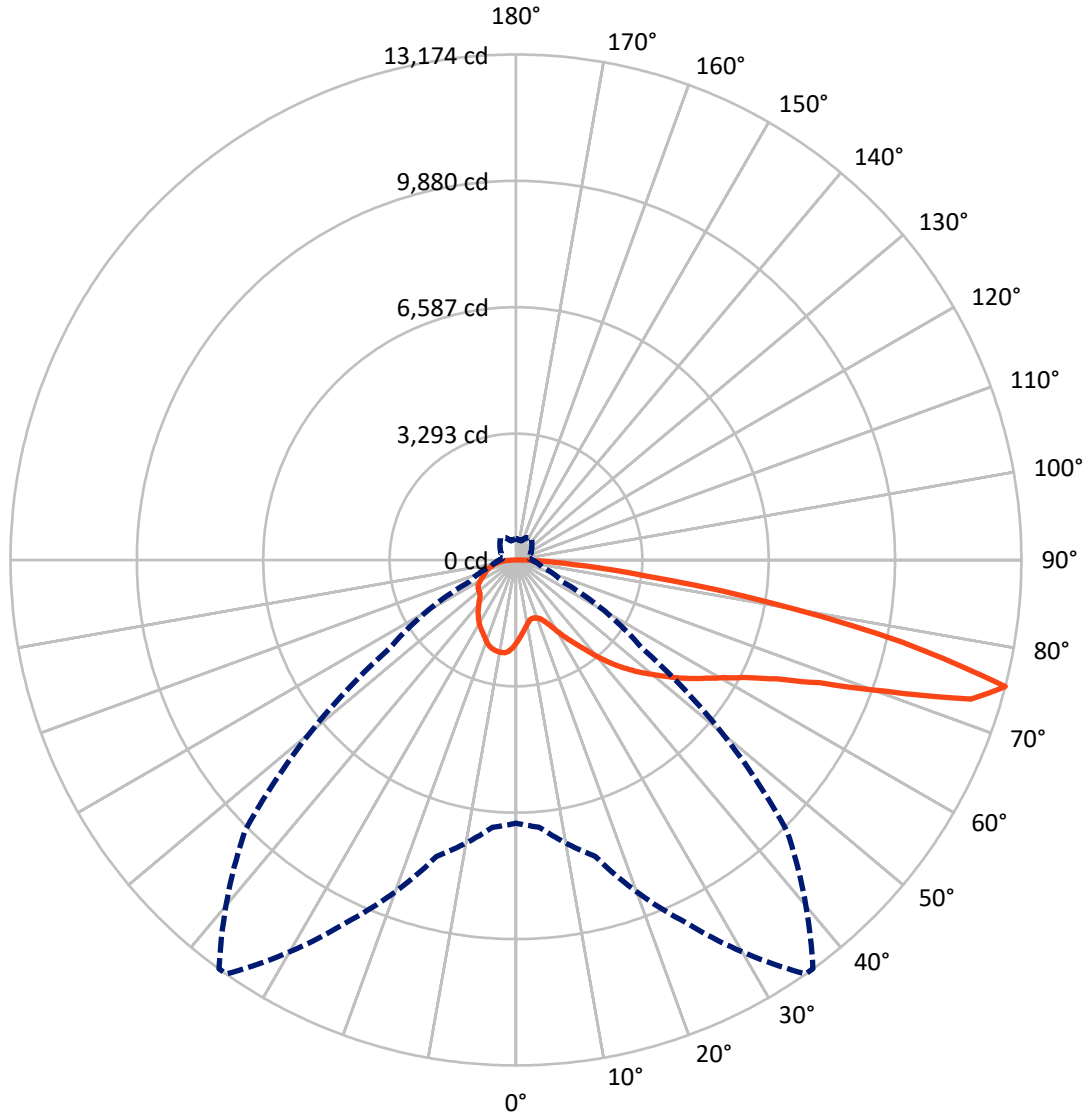
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3846.4	0.0	3846.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12316.6	0.0	12316.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	16163.0	0.0	16163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.3
10°-20°	588.2	3.6
20°-30°	987.8	6.1
30°-40°	1535.1	9.5
40°-50°	2278.5	14.1
50°-60°	3145.6	19.5
60°-70°	3816.3	23.6
70°-80°	3153.9	19.5
80°-90°	453.6	2.8
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°	16163.0	100.0
0°-180°	16163.0	100.0

Coefficient of Utilization



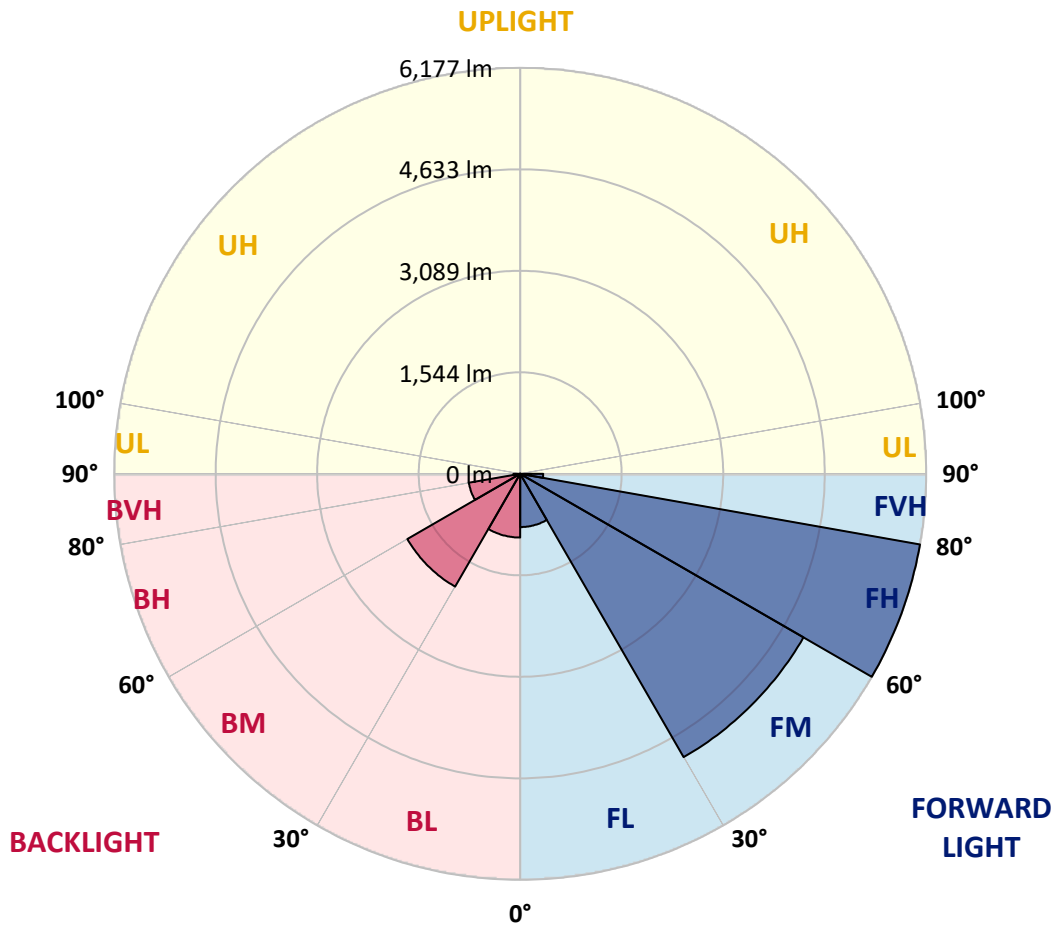
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.5	5.0			
FM (30°-60°)	4977.3	30.8			
FH (60°-80°)	6177.3	38.2			G3/7500
FVH (80°-90°)	351.5	2.2			G3/500
BL (0°-30°)	969.3	6.0	B2/1000		
BM (30°-60°)	1981.9	12.3	B2/2500		
BH (60°-80°)	793.0	4.9	B2/1000		G2/1000
BVH (80°-90°)	102.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8
2.5°	1986.1	1998.3	2003.5	2000.9	2014.0	2012.3	2030.6	2053.3	2084.8	2115.4
5°	1833.2	1846.3	1857.6	1868.1	1893.4	1901.3	1930.1	1973.8	2031.5	2090.0
7.5°	1690.7	1702.1	1719.6	1738.8	1781.6	1789.5	1837.5	1905.7	1986.1	2071.7
10°	1574.5	1585.9	1604.2	1626.1	1679.4	1689.0	1750.1	1841.0	1945.9	2054.2
12.5°	1524.7	1528.2	1538.7	1560.5	1606.9	1613.0	1680.2	1784.2	1906.6	2041.1
15°	1522.1	1529.1	1530.0	1541.3	1579.8	1582.4	1644.4	1747.5	1882.1	2038.5
17.5°	1548.3	1553.6	1545.7	1552.7	1585.0	1589.4	1638.3	1730.1	1874.2	2049.9
20°	1618.2	1622.6	1599.0	1589.4	1613.0	1616.5	1664.5	1741.4	1882.1	2073.4
22.5°	1766.8	1769.4	1711.7	1672.4	1674.1	1675.9	1717.8	1787.7	1912.7	2116.3
25°	1998.3	1996.6	1904.8	1828.8	1785.1	1775.5	1803.4	1862.9	1964.2	2173.1
27.5°	2269.2	2256.1	2164.3	2050.7	1955.5	1941.5	1935.4	1960.7	2037.6	2248.2
30°	2575.0	2562.8	2464.0	2315.5	2183.5	2160.8	2103.2	2090.0	2146.8	2350.4
32.5°	2910.5	2902.6	2784.7	2604.7	2428.2	2402.0	2305.0	2270.0	2314.6	2505.1
35°	3191.9	3184.9	3087.0	2901.8	2686.0	2653.6	2554.9	2515.6	2538.3	2703.4
37.5°	3446.1	3442.6	3358.8	3212.8	2990.0	2950.7	2839.7	2826.6	2822.3	2964.7
40°	3682.0	3673.3	3585.9	3509.0	3343.9	3308.1	3210.2	3198.9	3165.6	3286.2
42.5°	3943.3	3920.6	3793.9	3758.1	3713.5	3683.8	3625.2	3627.0	3553.6	3648.8
45°	4156.5	4143.4	4013.2	3992.2	4040.3	4028.1	4078.7	4091.8	3949.4	4028.9
47.5°	4385.4	4373.2	4263.1	4248.2	4378.4	4381.9	4561.0	4565.4	4335.6	4423.9
50°	4667.6	4650.2	4541.0	4559.3	4705.2	4718.3	5046.0	5016.3	4691.2	4824.9
52.5°	4853.8	4864.2	4840.7	4870.4	5069.6	5081.8	5523.1	5447.0	5043.4	5220.7
55°	4990.9	5011.9	5085.3	5153.5	5454.0	5466.3	5973.1	5856.8	5335.2	5587.7
57.5°	5167.4	5137.7	5274.9	5407.7	5819.3	5851.6	6410.8	6251.8	5593.8	5904.0
60°	5420.8	5399.9	5506.5	5703.1	6228.2	6279.7	6873.9	6607.4	5783.4	6154.8
62.5°	5934.6	5882.2	5898.8	6072.7	6743.7	6811.9	7396.4	6917.6	5877.8	6252.7
65°	6702.6	6612.6	6528.8	6649.3	7469.8	7537.1	7986.2	7161.4	5842.9	6063.1
67.5°	7669.9	7580.8	7477.7	7591.3	8539.3	8592.6	8714.1	7298.6	5567.6	5332.6
70°	8467.7	8434.4	8557.6	9025.1	10247.5	10249.3	9647.2	7185.0	4813.6	3780.8
72.5°	8361.9	8341.8	8991.0	10436.2	12400.5	12354.2	10530.6	6325.2	3242.5	1705.6
75°	6859.9	6990.1	7995.8	10410.9	13173.7	13167.6	9989.7	4021.1	1341.2	706.9
77.5°	3678.5	3884.8	5191.0	7686.5	10284.2	10438.9	7023.3	1406.8	575.8	452.6
80°	1199.7	1379.7	2069.1	3913.6	6682.5	6653.7	3010.1	552.2	394.1	320.7
82.5°	509.4	530.4	924.4	1848.0	3429.5	3376.2	958.5	317.2	277.0	219.3
85°	199.2	222.8	408.0	854.5	1485.4	1453.1	346.0	157.3	177.4	143.3
87.5°	65.5	79.5	145.9	292.7	462.2	445.6	84.8	54.2	76.9	65.5
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°
2153.8	0°	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8
2159.9	2.5°	2172.2	2186.2	2202.8	2227.2	2248.2	2265.7	2284.0	2295.4	2299.7	2312.9
2163.4	5°	2187.9	2218.5	2259.6	2299.7	2339.1	2362.7	2383.6	2394.1	2403.7	2410.7
2173.1	7.5°	2214.1	2253.4	2318.1	2370.5	2403.7	2422.9	2436.9	2433.4	2436.9	2438.7
2183.5	10°	2236.8	2291.9	2368.8	2418.6	2443.9	2444.8	2441.3	2429.1	2422.9	2423.8
2199.3	12.5°	2263.9	2325.1	2408.1	2450.0	2457.0	2437.8	2422.9	2402.0	2394.1	2390.6
2222.9	15°	2300.6	2370.5	2450.9	2466.6	2449.2	2424.7	2399.4	2365.3	2347.8	2333.8
2263.0	17.5°	2345.2	2422.1	2484.1	2472.8	2435.2	2395.0	2353.9	2302.4	2266.5	2251.7
2318.1	20°	2407.2	2476.2	2509.5	2459.6	2402.9	2341.7	2271.8	2208.9	2175.7	2160.8
2388.0	22.5°	2482.4	2548.8	2533.9	2436.9	2356.5	2258.7	2171.3	2125.0	2108.4	2097.9
2478.0	25°	2572.4	2629.2	2551.4	2403.7	2280.5	2148.6	2081.3	2066.5	2058.6	2050.7
2588.1	27.5°	2689.4	2720.0	2564.5	2354.8	2161.7	2031.5	2007.0	2009.7	2007.0	1993.9
2741.0	30°	2844.1	2838.0	2576.7	2275.3	2025.4	1925.8	1927.5	1938.9	1940.6	1931.9
2954.2	32.5°	3047.7	2985.7	2582.8	2172.2	1895.2	1833.2	1834.9	1847.1	1855.9	1841.0
3232.9	35°	3294.1	3157.8	2573.2	2042.9	1794.7	1744.9	1731.8	1735.3	1737.9	1723.9
3571.1	37.5°	3581.6	3350.9	2530.4	1899.6	1711.7	1658.4	1630.4	1606.9	1592.9	1579.8
3953.8	40°	3897.0	3561.5	2451.8	1759.8	1619.1	1566.7	1524.7	1480.2	1433.0	1415.5
4359.2	42.5°	4227.3	3778.2	2356.5	1626.1	1512.5	1469.7	1425.1	1360.5	1289.7	1253.9
4780.4	45°	4569.8	4000.1	2263.0	1494.1	1403.3	1384.9	1333.4	1255.6	1178.7	1133.3
5202.4	47.5°	4905.3	4209.8	2125.9	1361.3	1301.0	1321.1	1280.9	1209.3	1123.7	1052.0
5620.9	50°	5226.0	4406.4	1901.3	1226.8	1218.0	1301.9	1263.5	1160.4	1062.5	970.8
6031.6	52.5°	5544.0	4565.4	1613.8	1104.4	1173.5	1296.7	1240.7	1127.2	1007.5	911.3
6417.8	55°	5814.0	4647.6	1336.9	999.6	1108.8	1252.1	1213.7	1087.8	929.7	827.5
6682.5	57.5°	5967.8	4581.1	1106.2	896.5	1019.7	1178.7	1167.3	1004.0	837.1	758.4
6734.1	60°	5901.4	4312.0	917.5	806.5	934.9	1099.2	1087.0	920.9	766.3	692.0
6458.0	62.5°	5535.3	3799.1	768.0	727.8	858.0	1017.9	1006.6	857.2	712.1	640.5
5724.9	65°	4797.8	3090.5	651.8	662.3	780.3	920.1	936.7	803.9	669.3	599.4
4429.1	67.5°	3659.3	2238.6	561.0	605.5	704.3	824.0	872.0	765.4	633.5	567.1
2562.8	70°	2085.7	1271.3	484.1	550.5	637.0	734.8	822.2	734.8	595.0	540.0
960.3	72.5°	790.8	583.7	418.5	495.4	572.3	659.7	767.2	686.8	550.5	509.4
496.3	75°	422.0	355.6	352.1	430.8	498.0	586.3	698.1	639.6	517.3	538.2
343.4	77.5°	287.5	251.6	294.5	368.7	416.8	505.0	624.7	567.9	448.2	446.5
237.7	80°	199.2	178.2	239.4	297.1	322.4	424.6	545.2	487.6	365.2	340.8
146.8	82.5°	119.7	116.2	179.1	221.9	228.1	327.7	451.7	408.9	298.8	260.4
87.4	85°	65.5	69.0	114.5	130.2	132.8	228.9	353.9	316.3	229.8	193.1
31.5	87.5°	18.3	23.6	41.9	51.6	63.8	118.8	210.6	187.9	115.3	80.4
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>
2153.8
2312.0
2412.5
2441.3
2425.6
2388.9
2338.2
2252.6
2159.1
2099.7
2050.7
1996.6
1936.3
1848.0
1733.5
1588.5
1423.4
1258.2
1129.8
1044.1
962.9
900.9
818.7
747.9
681.5
629.1
588.0
556.6
533.0
502.4
555.7
411.5
325.9
262.1
194.8
80.4
0.0

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