

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: P940565

Luminaire Tested: **GALN-SB3C-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16134 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

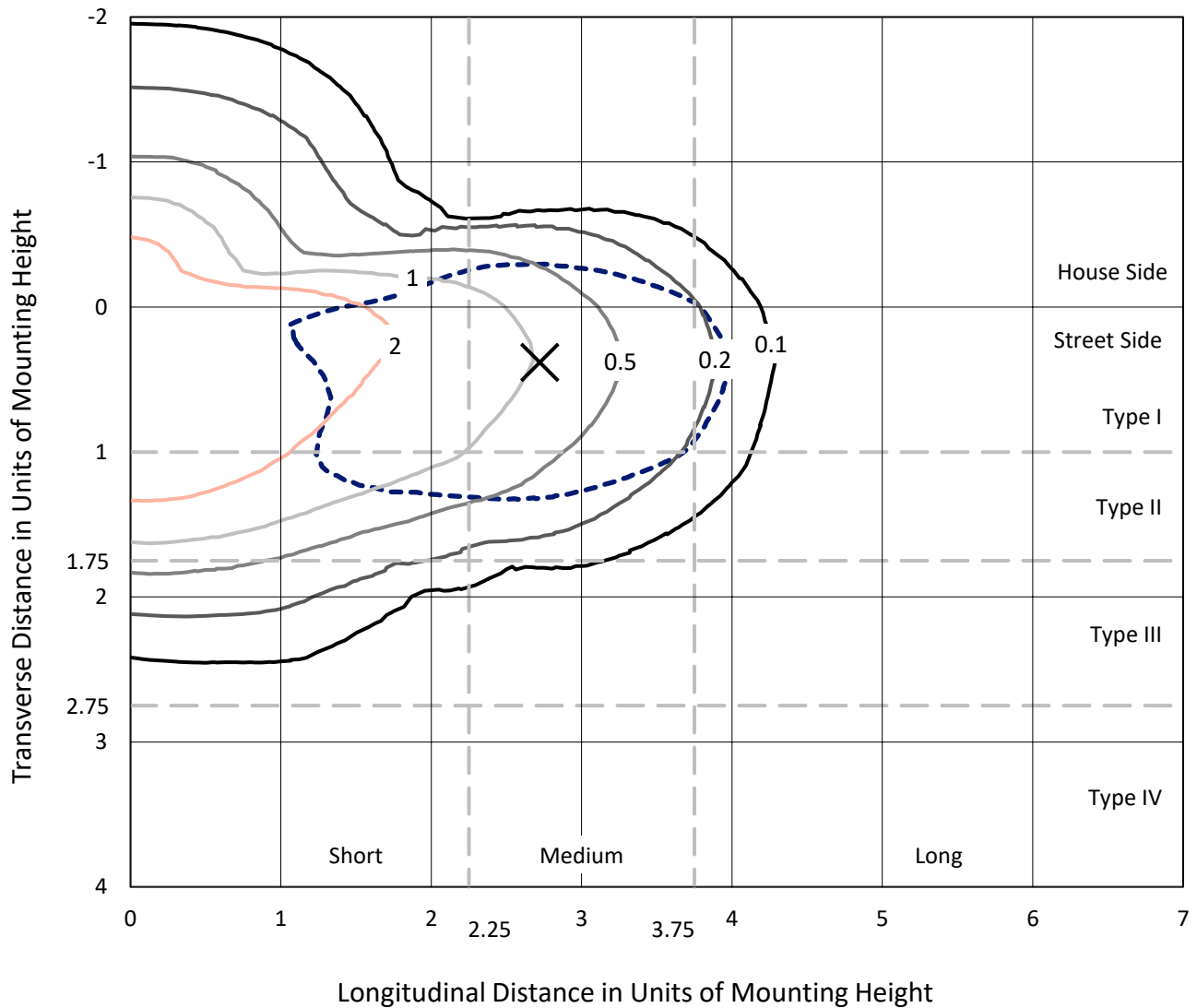
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

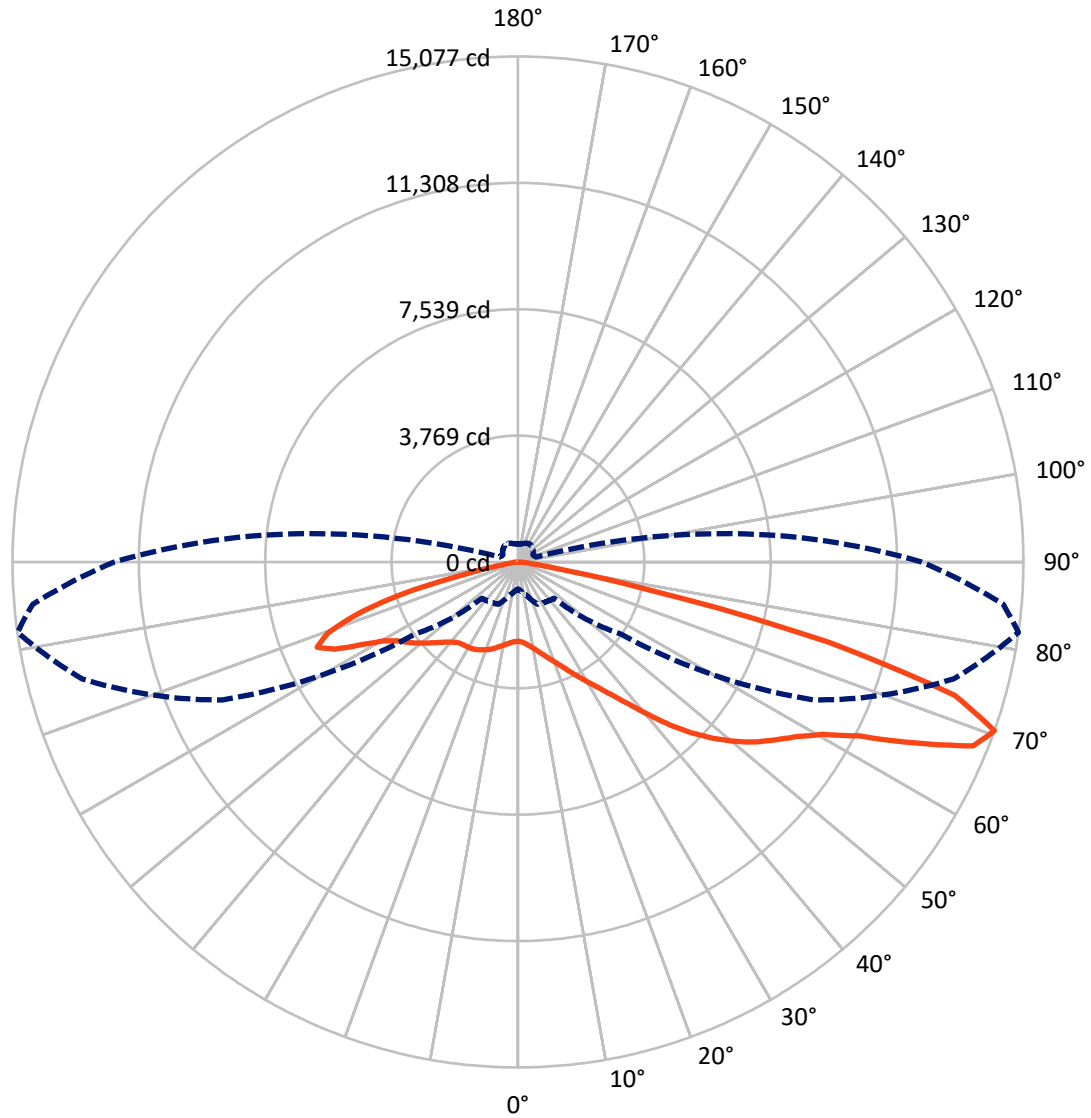
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.4	0.0	3977.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12156.6	0.0	12156.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	16134.0	0.0	16134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.4
10°-20°	641.7	4.0
20°-30°	1073.4	6.7
30°-40°	1677.0	10.4
40°-50°	2670.8	16.6
50°-60°	3716.8	23.0
60°-70°	3887.9	24.1
70°-80°	2032.0	12.6
80°-90°	211.0	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°	16134.0	100.0
0°-180°	16134.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940565

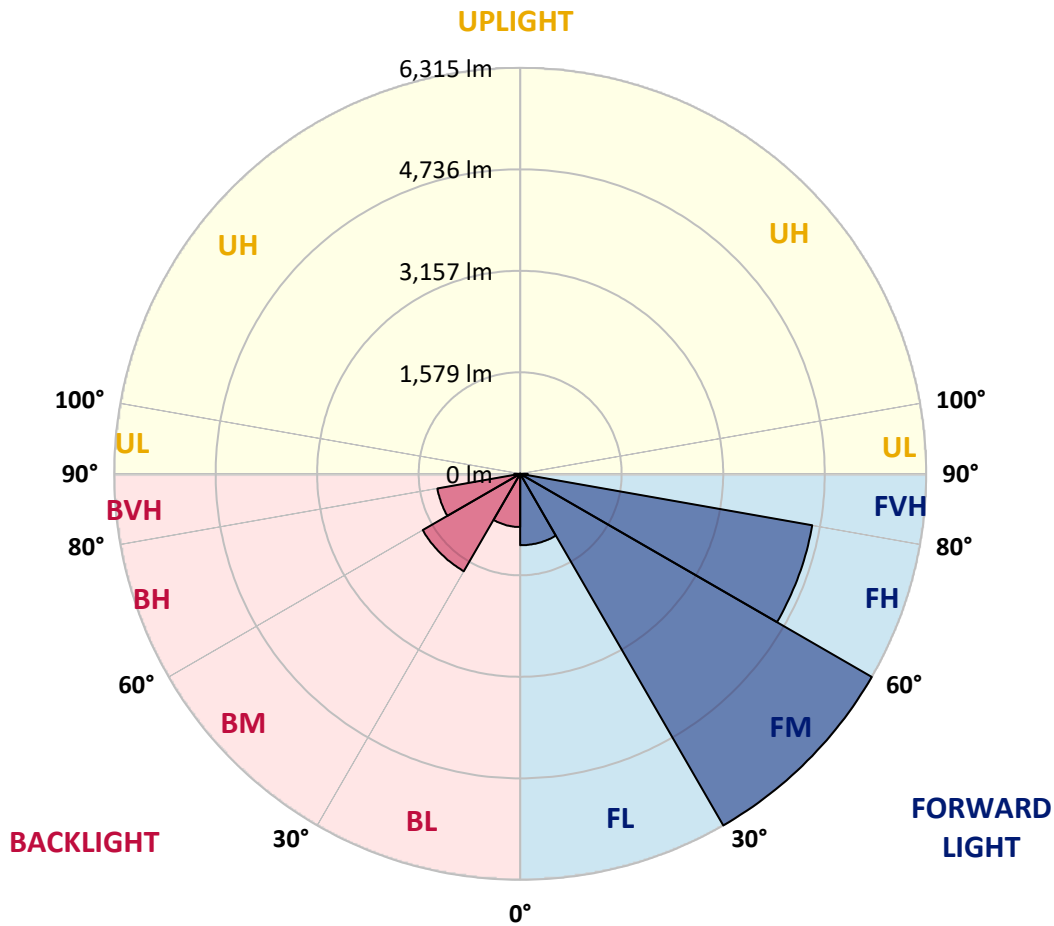
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.0	6.9			
FM (30°-60°)	6314.7	39.1			
FH (60°-80°)	4612.8	28.6			G2/5000
FVH (80°-90°)	118.1	0.7			G2/225
BL (0°-30°)	827.5	5.1	B2/1000		
BM (30°-60°)	1749.9	10.8	B2/2500		
BH (60°-80°)	1307.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	92.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P940565
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4
2.5°	2421.9	2435.6	2431.4	2427.1	2427.1	2421.1	2420.2	2411.7	2404.8	2393.7
5°	2452.8	2467.3	2465.6	2469.0	2480.2	2482.7	2485.3	2480.2	2466.5	2452.8
7.5°	2425.4	2441.6	2446.8	2467.3	2501.6	2532.4	2555.5	2564.9	2552.1	2532.4
10°	2332.9	2350.9	2368.9	2417.7	2478.5	2551.2	2612.9	2649.7	2647.1	2628.3
12.5°	2145.4	2164.3	2202.8	2297.8	2409.1	2537.5	2652.2	2729.3	2755.8	2742.1
15°	1995.6	2011.9	2041.0	2138.6	2283.3	2478.5	2666.8	2816.6	2884.3	2876.5
17.5°	1991.3	1998.2	2016.2	2062.4	2173.7	2386.0	2651.4	2902.2	3031.5	3030.6
20°	2066.7	2069.2	2079.5	2088.9	2152.3	2315.8	2612.0	2973.3	3196.7	3196.7
22.5°	2171.1	2169.4	2179.7	2171.1	2201.9	2309.8	2587.2	3035.8	3380.8	3394.5
25°	2327.8	2319.2	2316.6	2297.0	2302.9	2365.4	2614.6	3106.8	3599.1	3627.4
27.5°	2536.7	2523.0	2513.6	2468.2	2452.8	2480.2	2698.5	3192.5	3842.2	3891.0
30°	2808.9	2784.1	2770.4	2691.6	2636.0	2640.3	2825.2	3306.3	4096.5	4175.3
32.5°	3180.5	3141.9	3105.1	2975.9	2874.0	2840.6	2988.7	3463.8	4372.2	4498.0
35°	3596.5	3565.7	3526.3	3326.9	3170.2	3093.1	3209.6	3683.9	4694.9	4894.4
37.5°	3997.2	3970.7	3989.5	3720.7	3518.6	3406.5	3498.9	3979.2	5093.0	5387.5
40°	4411.6	4391.0	4393.6	4136.7	3901.3	3775.5	3849.9	4349.9	5549.3	5974.0
42.5°	4861.9	4846.5	4795.1	4567.4	4302.8	4185.5	4254.0	4778.0	6039.0	6641.7
45°	5366.1	5356.7	5308.8	5047.7	4744.6	4612.7	4705.2	5250.6	6531.3	7270.1
47.5°	5801.9	5809.6	5803.6	5583.6	5269.4	5075.9	5186.3	5743.7	6989.3	7860.8
50°	6011.6	6051.9	6110.9	6042.5	5847.3	5650.4	5671.8	6219.7	7425.9	8414.8
52.5°	5902.1	5978.3	6139.2	6248.8	6324.1	6283.0	6225.7	6692.3	7836.9	8914.7
55°	5493.7	5600.7	5867.8	6132.4	6516.7	6815.5	6890.9	7216.2	8237.5	9354.8
57.5°	4749.7	4923.5	5163.2	5698.3	6345.5	7073.2	7666.5	7943.0	8662.2	9824.8
60°	3474.1	3707.0	4004.9	4801.1	5746.2	6935.4	8326.6	9059.4	9265.7	10433.5
62.5°	2223.3	2367.2	2641.1	3391.1	4477.5	6229.1	8528.6	10454.9	10288.8	11431.7
65°	1522.2	1614.6	1865.5	2286.7	2894.5	4636.7	7987.6	11501.1	11913.7	13013.8
67.5°	1106.1	1176.3	1390.3	1759.3	1886.0	2743.8	6198.3	11453.1	13493.2	14643.8
70°	806.5	856.1	1035.9	1390.3	1451.1	1526.5	3754.9	9735.7	13459.0	15077.0
72.5°	597.6	631.8	752.5	1078.7	1174.6	1030.8	1858.6	7075.8	11565.3	13637.1
75°	432.3	458.0	547.1	825.3	940.0	785.1	927.2	4135.0	8067.2	9592.8
77.5°	330.5	350.2	408.4	604.4	752.5	589.0	575.3	1902.3	3825.1	3844.0
80°	265.4	278.2	309.9	425.5	577.0	440.9	375.0	767.9	1208.8	1023.1
82.5°	195.2	216.6	262.0	298.8	412.6	303.9	228.6	387.8	459.7	395.5
85°	111.3	125.8	158.4	214.0	263.7	185.8	131.0	172.1	214.0	175.5
87.5°	39.4	51.4	55.6	83.9	114.7	77.1	50.5	49.7	70.2	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940565
 CATALOG NUMBER: GALN-SB3C-940-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2365.4	0°	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4
2391.1	2.5°	2382.6	2378.3	2361.2	2338.1	2314.1	2291.0	2283.3	2267.0	2255.9	2249.9
2446.8	5°	2430.5	2416.8	2376.6	2325.2	2271.3	2213.1	2172.0	2134.3	2106.9	2081.2
2523.0	7.5°	2499.0	2475.0	2405.7	2315.8	2219.9	2123.2	2051.3	1996.5	1959.6	1935.7
2612.0	10°	2578.6	2541.8	2435.6	2301.2	2153.1	2014.4	1929.7	1882.6	1859.5	1846.6
2713.9	12.5°	2670.2	2618.0	2466.5	2267.8	2051.3	1892.9	1834.7	1821.0	1821.8	1822.7
2842.3	15°	2783.2	2710.5	2491.3	2195.1	1918.6	1799.6	1789.3	1811.5	1834.7	1845.8
2987.8	17.5°	2910.8	2808.1	2495.6	2075.2	1788.4	1739.6	1772.2	1820.1	1855.2	1870.6
3150.5	20°	3047.8	2907.4	2464.8	1905.7	1681.4	1690.8	1749.0	1810.7	1849.2	1868.9
3336.3	22.5°	3204.4	3013.5	2391.1	1727.6	1594.1	1637.7	1706.2	1766.2	1806.4	1826.1
3554.6	25°	3383.4	3132.5	2275.6	1577.8	1518.7	1577.8	1646.3	1696.0	1728.5	1746.5
3798.6	27.5°	3582.0	3256.7	2121.5	1458.8	1452.8	1516.2	1572.7	1611.2	1628.3	1642.0
4058.0	30°	3781.5	3369.7	1934.8	1368.9	1395.5	1455.4	1495.6	1512.8	1517.9	1520.5
4347.4	32.5°	3997.2	3467.3	1738.8	1294.4	1340.7	1396.3	1420.3	1428.0	1404.0	1387.8
4698.4	35°	4258.3	3571.7	1547.0	1235.4	1286.7	1334.7	1342.4	1335.5	1307.3	1273.9
5138.4	37.5°	4581.1	3701.8	1393.8	1193.4	1236.2	1267.9	1258.5	1256.8	1259.3	1220.0
5667.5	40°	4976.6	3871.4	1281.6	1160.9	1195.1	1202.0	1175.4	1190.0	1202.8	1142.9
6247.9	42.5°	5415.8	4076.0	1210.5	1138.6	1160.9	1144.6	1103.5	1119.8	1118.1	1039.3
6830.9	45°	5863.5	4298.6	1185.7	1122.4	1129.2	1096.7	1051.3	1055.6	1019.6	948.6
7390.0	47.5°	6308.7	4537.4	1201.1	1108.7	1089.8	1053.0	1017.9	999.1	946.0	892.9
7925.9	50°	6745.3	4788.3	1257.6	1081.3	1035.9	1014.5	988.8	955.4	898.9	853.5
8432.7	52.5°	7150.3	5040.8	1321.0	1035.9	968.3	981.1	964.8	926.3	870.7	824.4
8912.2	55°	7533.8	5293.4	1345.8	973.4	904.9	952.0	942.6	871.5	804.7	767.1
9413.8	57.5°	7951.6	5597.3	1318.4	893.8	853.5	918.6	882.7	803.9	765.4	737.1
10067.1	60°	8530.3	6074.1	1259.3	795.3	804.7	869.0	807.3	774.8	732.8	701.2
11046.5	62.5°	9491.7	6963.6	1164.3	697.7	747.4	795.3	771.4	738.8	696.0	665.2
12721.0	65°	10912.9	8199.9	985.4	621.5	683.2	723.4	732.8	700.3	655.8	623.3
14188.4	67.5°	12111.5	8975.5	745.7	558.2	617.3	665.2	691.7	660.1	613.0	581.3
14531.7	70°	12045.5	8412.2	569.3	495.7	559.0	607.8	642.1	617.3	566.7	536.8
13199.6	72.5°	10698.9	7037.3	460.6	432.3	500.0	547.9	589.0	570.2	518.8	489.7
9669.8	75°	7860.0	4995.4	368.1	368.1	426.3	485.4	530.8	518.8	471.7	451.2
4059.7	77.5°	3313.2	2095.8	288.5	305.6	354.4	416.9	473.4	477.7	436.6	462.3
1073.6	80°	880.9	577.9	220.0	240.6	278.2	344.2	411.8	410.1	365.6	341.6
398.9	82.5°	335.6	227.7	156.7	169.5	201.2	263.7	326.2	336.5	291.9	252.6
156.7	85°	129.3	97.6	96.7	101.9	117.3	174.6	246.6	255.1	220.0	186.6
43.7	87.5°	33.4	29.1	36.0	34.2	53.9	93.3	141.3	146.4	134.4	77.9
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>
2365.4
2256.7
2091.5
1940.8
1850.1
1824.4
1844.9
1874.0
1874.0
1831.2
1751.6
1647.2
1526.5
1392.9
1275.6
1222.5
1144.6
1038.5
951.1
892.9
850.1
825.3
763.7
734.5
699.4
665.2
625.0
582.2
539.4
489.7
445.2
419.5
317.6
252.6
192.6
111.3
0.0

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