

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: P946707

Luminaire Tested: **GALN-SB2B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11644 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

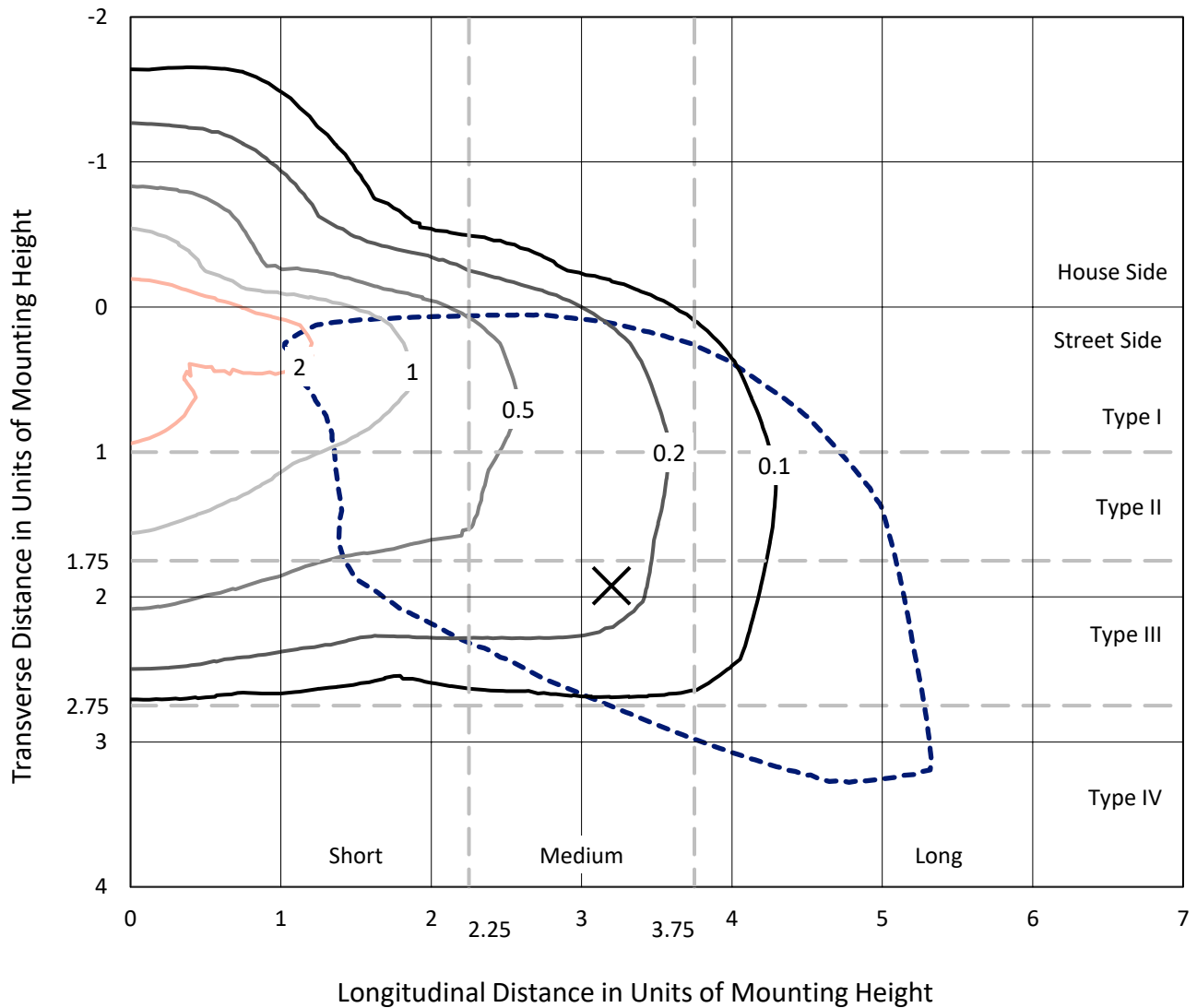
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

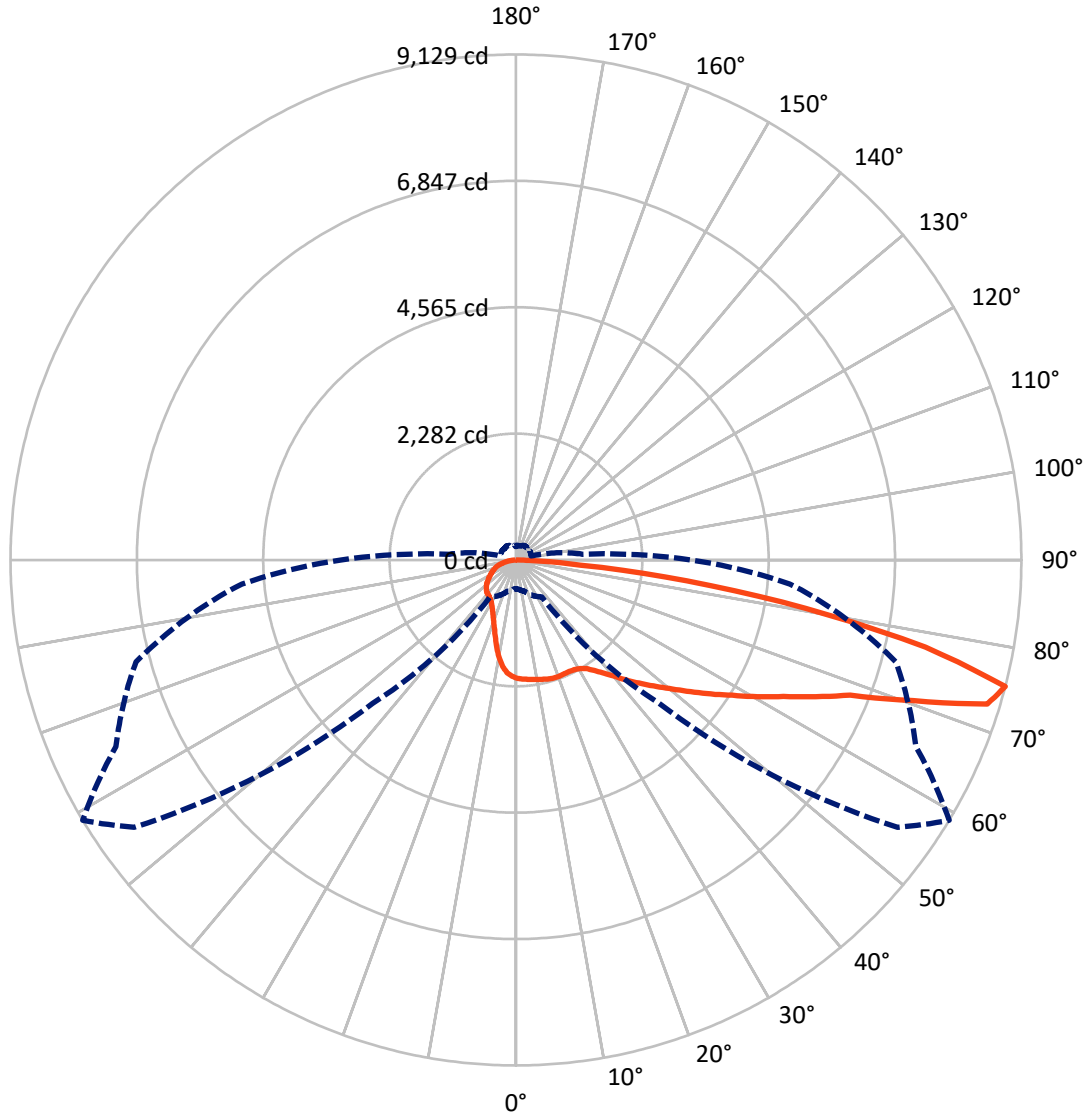
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2183.9	0.0	2183.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9460.1	0.0	9460.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11644.0	0.0	11644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.6
10°-20°	489.8	4.2
20°-30°	744.0	6.4
30°-40°	1106.0	9.5
40°-50°	1644.8	14.1
50°-60°	2232.6	19.2
60°-70°	2725.6	23.4
70°-80°	2139.0	18.4
80°-90°	370.5	3.2
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°	11644.0	100.0
0°-180°	11644.0	100.0

Coefficient of Utilization



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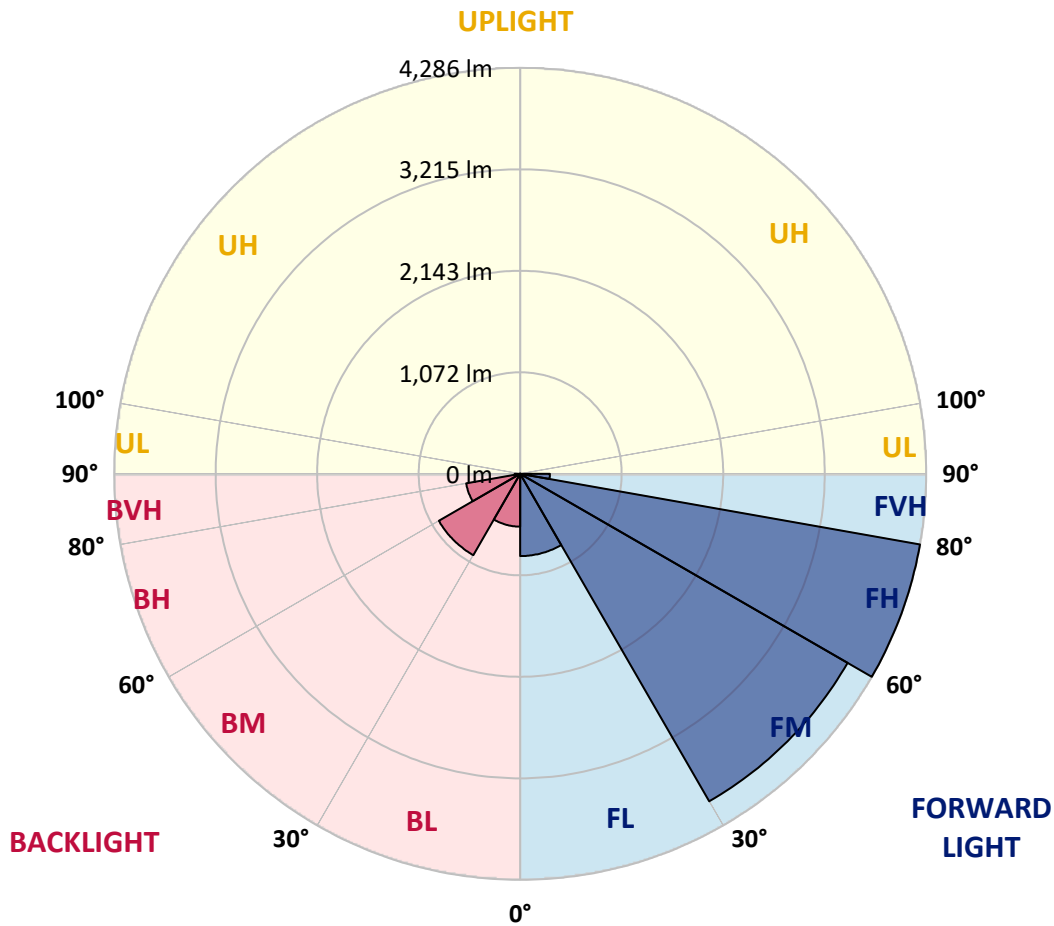
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.2	7.5			
FM (30°-60°)	3992.0	34.3			
FH (60°-80°)	4286.0	36.8			G2/5000
FVH (80°-90°)	313.8	2.7			G3/500
BL (0°-30°)	557.3	4.8	B2/1000		
BM (30°-60°)	991.3	8.5	B1/1000		
BH (60°-80°)	578.6	5.0	B2/1000		G2/1000
BVH (80°-90°)	56.7	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2
2.5°	2155.4	2147.9	2155.4	2152.3	2151.0	2148.5	2149.1	2153.5	2151.0	2154.1
5°	2141.0	2136.6	2144.1	2142.2	2150.4	2151.6	2159.8	2164.8	2167.9	2168.5
7.5°	2117.2	2112.8	2123.4	2132.2	2149.8	2154.8	2171.7	2179.8	2184.2	2191.7
10°	2030.1	2028.2	2054.5	2087.7	2129.1	2154.8	2180.5	2194.2	2201.1	2221.2
12.5°	1876.0	1878.5	1913.0	1976.9	2059.6	2142.2	2190.5	2210.5	2221.2	2246.2
15°	1728.8	1728.2	1765.8	1834.1	1949.9	2087.1	2195.5	2229.9	2248.1	2285.1
17.5°	1643.6	1641.1	1667.4	1719.4	1827.2	2002.6	2183.0	2240.6	2279.4	2325.8
20°	1628.0	1623.0	1636.7	1662.4	1738.8	1909.9	2150.4	2240.6	2304.5	2364.6
22.5°	1685.0	1676.8	1671.2	1668.1	1701.9	1833.4	2113.4	2233.1	2341.4	2420.4
25°	1799.6	1787.1	1758.3	1730.1	1720.1	1799.0	2080.9	2231.2	2396.6	2495.5
27.5°	1985.0	1969.4	1911.1	1843.5	1782.7	1816.5	2066.4	2242.5	2457.3	2575.1
30°	2214.9	2198.0	2124.7	2020.7	1911.7	1881.7	2084.6	2275.7	2535.0	2680.9
32.5°	2421.0	2402.2	2339.6	2233.7	2086.5	1994.4	2142.2	2338.9	2657.1	2828.1
35°	2603.9	2582.0	2525.6	2427.9	2300.7	2152.9	2246.2	2451.0	2830.6	3067.4
37.5°	2783.0	2757.4	2696.0	2592.6	2503.7	2364.0	2389.7	2595.1	3061.2	3358.1
40°	2983.5	2946.5	2872.0	2769.9	2683.4	2611.4	2578.2	2771.8	3295.4	3682.5
42.5°	3177.7	3142.6	3053.6	2966.6	2858.2	2837.5	2796.8	2978.5	3551.6	4038.9
45°	3386.9	3344.9	3237.2	3126.9	3058.6	2987.9	3008.5	3185.2	3802.8	4402.2
47.5°	3582.9	3536.0	3408.8	3286.0	3248.4	3114.4	3202.7	3412.6	4064.0	4770.6
50°	3688.8	3642.4	3536.6	3425.7	3396.3	3270.4	3413.2	3662.5	4337.7	5137.6
52.5°	3777.1	3727.0	3588.6	3527.2	3518.4	3440.1	3672.5	3948.1	4611.5	5462.1
55°	3871.1	3815.3	3638.7	3583.6	3623.6	3630.5	3980.1	4272.0	4900.8	5778.4
57.5°	3979.4	3908.7	3686.9	3631.2	3726.4	3853.5	4333.3	4607.7	5185.2	6071.6
60°	4081.5	4010.1	3779.6	3707.0	3837.2	4112.2	4738.6	5014.2	5507.2	6332.8
62.5°	4101.6	4042.7	3853.5	3852.9	3987.6	4414.1	5218.4	5424.5	5788.4	6590.8
65°	3754.6	3717.6	3605.5	3847.3	4203.1	4848.9	5752.7	5949.4	6146.1	6816.3
67.5°	2857.6	2862.6	2854.4	3321.1	4028.9	5473.4	6526.3	6511.3	6587.7	7069.4
70°	1306.6	1336.1	1527.8	2292.6	3227.8	5545.4	7805.4	7610.6	7142.1	7397.0
72.5°	705.9	728.5	806.8	1110.6	1940.5	4930.3	8761.3	8899.7	7879.3	7617.5
75°	518.0	530.5	585.0	705.9	814.9	3664.4	8418.6	9129.0	7971.4	7103.2
77.5°	387.7	393.4	437.8	559.4	417.2	1931.8	6726.8	7560.5	6823.9	5836.0
80°	281.2	287.5	320.7	419.7	292.5	706.6	4619.0	5306.7	4673.5	3720.1
82.5°	194.2	196.7	211.1	285.6	204.2	274.4	2620.8	3111.9	2608.9	1305.4
85°	117.1	120.3	126.5	166.6	115.9	130.3	1131.3	1170.1	779.9	311.9
87.5°	48.2	51.4	56.4	70.2	45.7	36.3	186.7	234.3	145.9	91.5
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°
2137.2	0°	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2
2143.5	2.5°	2140.4	2136.0	2124.1	2107.8	2092.8	2074.0	2065.8	2058.9	2052.7	2040.8
2160.4	5°	2153.5	2141.6	2109.7	2068.3	2021.3	1970.0	1919.9	1885.4	1856.0	1834.1
2179.8	7.5°	2173.6	2151.0	2092.8	2008.2	1900.5	1790.2	1690.6	1619.8	1566.6	1547.2
2207.4	10°	2194.2	2167.3	2065.8	1916.7	1730.7	1561.0	1428.8	1356.1	1313.5	1299.8
2240.0	12.5°	2218.7	2179.2	2023.9	1789.6	1540.9	1354.9	1239.6	1197.0	1175.1	1167.6
2280.0	15°	2254.4	2189.2	1960.6	1630.5	1359.9	1204.5	1130.0	1100.6	1089.3	1088.7
2321.4	17.5°	2281.3	2191.1	1862.2	1460.1	1220.8	1113.7	1052.3	1041.1	1048.6	1059.8
2362.1	20°	2311.4	2174.2	1733.2	1304.8	1123.1	1034.2	1008.5	1016.0	1034.2	1050.4
2416.0	22.5°	2332.7	2143.5	1577.2	1183.9	1038.5	988.4	987.2	1002.8	1012.9	1021.0
2479.2	25°	2351.5	2091.5	1411.9	1082.4	969.0	960.9	974.7	969.6	962.8	969.6
2542.5	27.5°	2365.2	2009.4	1264.0	993.4	920.2	942.1	933.9	922.7	922.0	925.8
2617.0	30°	2360.9	1899.8	1142.5	908.9	885.7	907.0	887.6	885.7	883.8	885.7
2729.2	32.5°	2360.9	1775.2	1049.2	850.6	863.8	855.6	853.8	849.4	841.9	841.2
2881.4	35°	2374.0	1650.5	969.0	819.3	845.6	826.2	827.5	816.8	801.1	793.6
3083.1	37.5°	2400.9	1550.3	889.5	804.3	813.7	813.0	808.0	789.9	762.3	738.5
3334.9	40°	2466.1	1520.9	835.0	797.4	798.6	806.2	793.0	757.9	695.3	656.5
3590.4	42.5°	2568.2	1570.4	823.1	780.5	788.6	796.1	770.5	689.0	644.6	621.4
3858.5	45°	2697.8	1656.8	848.8	756.0	764.8	778.0	701.6	662.7	642.7	643.3
4124.1	47.5°	2862.0	1747.6	896.4	734.8	730.4	737.9	655.8	632.0	604.5	611.4
4379.1	50°	3051.8	1839.7	941.5	705.9	692.2	667.7	626.4	603.8	568.8	552.5
4625.2	52.5°	3257.2	1928.6	959.6	670.9	650.8	622.6	606.3	578.8	536.2	509.3
4857.6	55°	3452.0	2009.4	939.6	628.9	609.5	587.6	585.0	568.1	522.4	484.8
5064.3	57.5°	3636.2	2077.1	889.5	586.3	567.5	554.4	571.3	563.1	505.5	457.3
5259.8	60°	3792.1	2123.4	816.8	543.1	529.9	523.0	548.7	546.2	481.7	427.8
5435.2	62.5°	3916.2	2141.6	736.6	501.7	498.6	486.1	517.4	517.4	451.6	399.0
5589.2	65°	4013.3	2124.1	655.2	461.0	467.3	448.5	479.2	475.4	419.7	373.3
5766.5	67.5°	4099.1	2066.4	565.0	420.9	435.3	411.5	439.1	430.3	384.6	347.6
5920.0	70°	4137.3	1932.4	462.3	380.8	398.4	375.2	399.0	382.7	345.1	320.1
5751.5	72.5°	3830.4	1606.1	363.9	338.9	353.9	335.1	355.8	337.0	302.5	291.3
4966.6	75°	3168.9	1205.2	280.0	293.1	304.4	290.0	303.8	290.0	258.7	266.8
3668.7	77.5°	2301.3	813.7	214.2	244.9	249.9	242.4	254.3	238.7	210.5	208.6
1828.4	80°	1144.4	476.7	167.9	193.6	191.7	186.7	200.4	192.9	169.1	179.1
493.6	82.5°	331.4	204.2	122.1	135.9	132.2	133.4	143.4	147.2	220.5	218.6
153.5	85°	104.0	80.2	73.3	75.8	72.0	73.9	84.6	167.9	155.3	90.8
47.6	87.5°	26.9	27.6	18.2	19.4	20.0	23.8	26.9	102.1	48.9	31.9
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>
2137.2
2035.1
1815.9
1513.3
1278.5
1169.5
1091.2
1064.2
1056.1
1025.4
974.0
932.1
892.6
849.4
801.1
746.7
661.5
621.4
646.4
628.9
556.9
508.6
484.8
454.8
425.9
397.1
370.8
345.1
315.1
281.9
243.7
199.2
177.3
223.6
98.3
33.8
0.0

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