

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: P947841

Luminaire Tested: **GALN-SB3A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947841
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-SB3A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11438 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

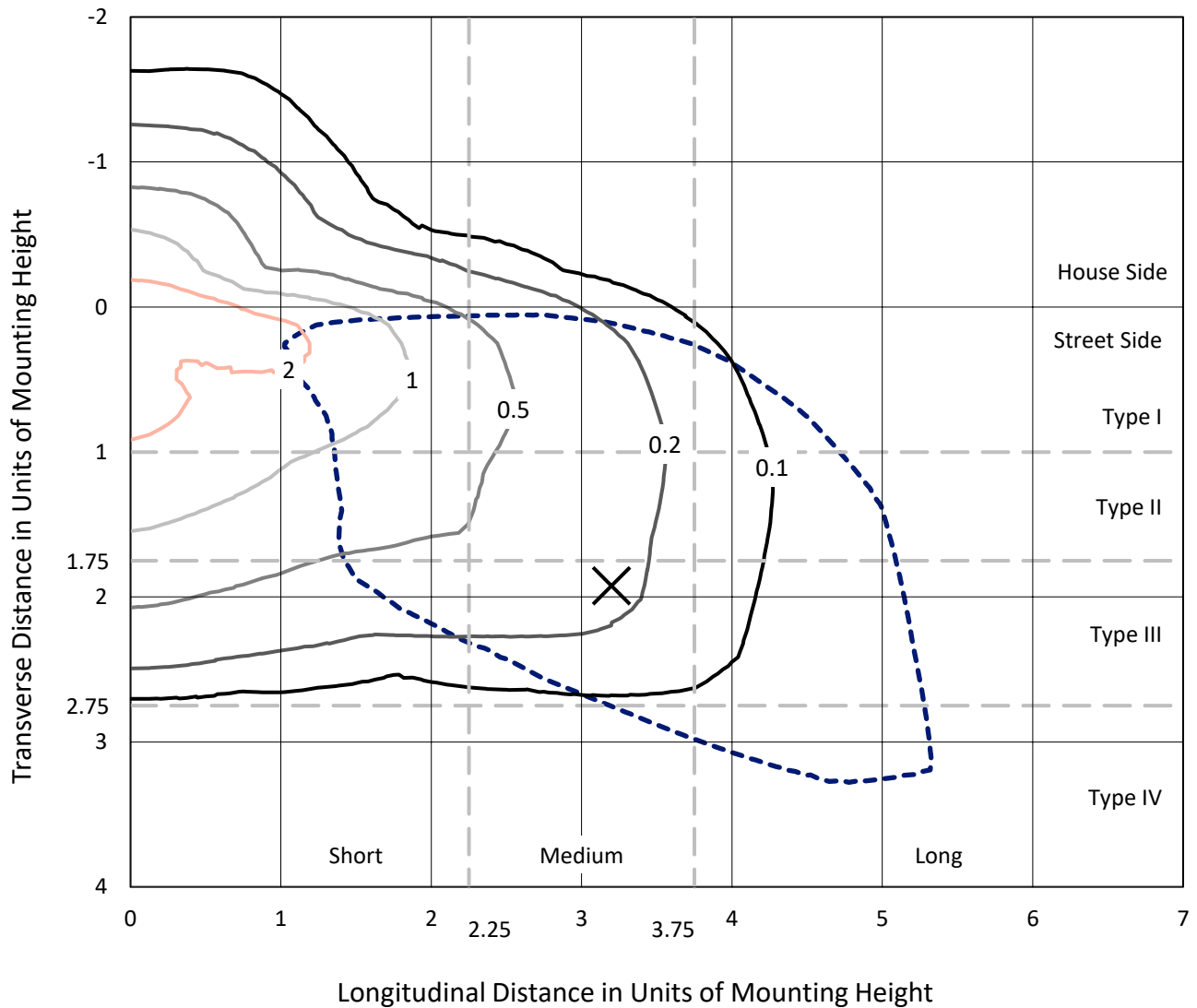
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

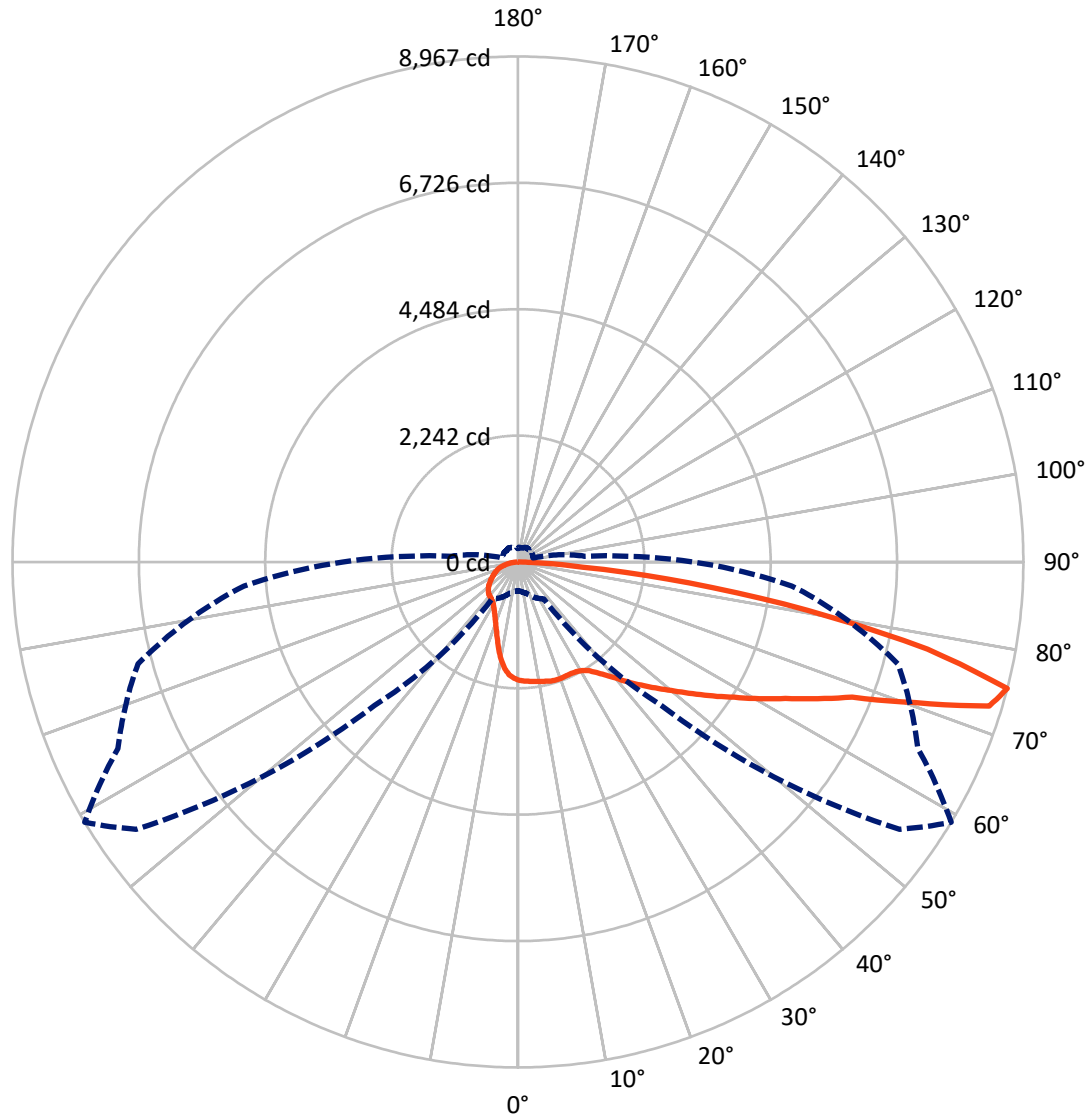
✕ Max cd
 - - - 1/2 Max cd



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	2145.3	0.0	2145.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9292.7	0.0	9292.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	11438.0	0.0	11438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.6
10°-20°	481.2	4.2
20°-30°	730.9	6.4
30°-40°	1086.4	9.5
40°-50°	1615.7	14.1
50°-60°	2193.1	19.2
60°-70°	2677.4	23.4
70°-80°	2101.2	18.4
80°-90°	364.0	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°	11438.0	100.0
0°-180°	11438.0	100.0

Coefficient of Utilization



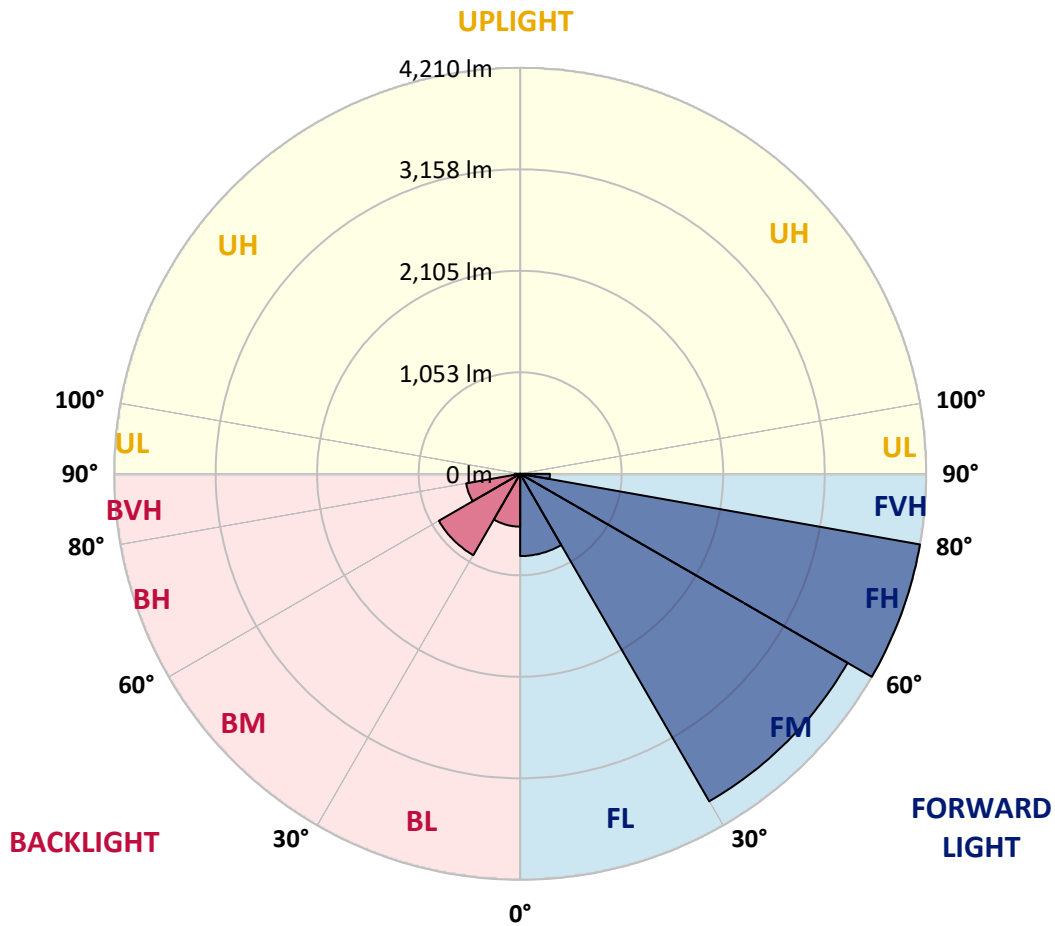
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.8	7.5			
FM	(30°-60°)	3921.4	34.3			
FH	(60°-80°)	4210.2	36.8			G2/5000
FVH	(80°-90°)	308.3	2.7			G3/500
BL	(0°-30°)	547.4	4.8	B2/1000		
BM	(30°-60°)	973.7	8.5	B1/1000		
BH	(60°-80°)	568.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	55.7	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°	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4
2.5°	2117.3	2109.9	2117.3	2114.2	2113.0	2110.5	2111.1	2115.4	2113.0	2116.0
5°	2103.1	2098.8	2106.2	2104.3	2112.3	2113.6	2121.6	2126.5	2129.6	2130.2
7.5°	2079.7	2075.4	2085.9	2094.5	2111.7	2116.6	2133.3	2141.3	2145.6	2153.0
10°	1994.2	1992.4	2018.2	2050.8	2091.4	2116.6	2141.9	2155.4	2162.2	2181.9
12.5°	1842.8	1845.3	1879.1	1941.9	2023.1	2104.3	2151.7	2171.4	2181.9	2206.5
15°	1698.2	1697.6	1734.5	1801.6	1915.4	2050.2	2156.6	2190.5	2208.3	2244.6
17.5°	1614.6	1612.1	1637.9	1689.0	1794.8	1967.1	2144.3	2200.9	2239.1	2284.6
20°	1599.2	1594.3	1607.8	1633.0	1708.1	1876.1	2112.3	2200.9	2263.7	2322.8
22.5°	1655.2	1647.2	1641.6	1638.6	1671.8	1801.0	2076.0	2193.6	2300.0	2377.5
25°	1767.8	1755.5	1727.2	1699.5	1689.6	1767.2	2044.0	2191.7	2354.2	2451.4
27.5°	1949.9	1934.5	1877.3	1810.8	1751.2	1784.4	2029.9	2202.8	2413.8	2529.5
30°	2175.7	2159.1	2087.1	1985.0	1877.9	1848.4	2047.7	2235.4	2490.1	2633.5
32.5°	2378.2	2359.7	2298.2	2194.2	2049.6	1959.1	2104.3	2297.5	2610.1	2778.1
35°	2557.8	2536.3	2480.9	2384.9	2260.0	2114.8	2206.5	2407.7	2780.6	3013.1
37.5°	2733.8	2708.6	2648.3	2546.7	2459.4	2322.2	2347.4	2549.2	3007.0	3298.6
40°	2930.7	2894.4	2821.2	2720.9	2636.0	2565.2	2532.6	2722.7	3237.1	3617.4
42.5°	3121.4	3087.0	2999.6	2914.1	2807.6	2787.3	2747.3	2925.8	3488.8	3967.5
45°	3327.0	3285.7	3179.9	3071.6	3004.5	2935.0	2955.3	3128.8	3735.5	4324.4
47.5°	3519.5	3473.4	3348.5	3227.9	3191.0	3059.3	3146.1	3352.2	3992.1	4686.2
50°	3623.5	3578.0	3474.0	3365.1	3336.2	3212.5	3352.8	3597.7	4261.0	5046.7
52.5°	3710.3	3661.1	3525.1	3464.8	3456.2	3379.3	3607.5	3878.3	4529.9	5365.5
55°	3802.6	3747.8	3574.3	3520.2	3559.5	3566.3	3909.6	4196.4	4814.1	5676.2
57.5°	3909.0	3839.5	3621.7	3566.9	3660.4	3785.4	4256.7	4526.2	5093.5	5964.1
60°	4009.3	3939.2	3712.7	3641.4	3769.4	4039.5	4654.8	4925.5	5409.8	6220.7
62.5°	4029.0	3971.2	3785.4	3784.7	3917.0	4336.1	5126.1	5328.5	5686.0	6474.2
65°	3688.1	3651.8	3541.7	3779.2	4128.7	4763.1	5651.0	5844.2	6037.4	6695.7
67.5°	2807.0	2811.9	2803.9	3262.3	3957.6	5376.5	6410.9	6396.1	6471.2	6944.3
70°	1283.5	1312.4	1500.7	2252.0	3170.7	5447.3	7667.3	7476.0	7015.7	7266.1
72.5°	693.4	715.6	792.5	1090.9	1906.2	4843.1	8606.3	8742.2	7739.9	7482.7
75°	508.9	521.2	574.7	693.4	800.5	3599.5	8269.7	8967.4	7830.4	6977.6
77.5°	380.9	386.4	430.1	549.5	409.8	1897.6	6607.8	7426.7	6703.1	5732.8
80°	276.3	282.4	315.0	412.3	287.3	694.1	4537.3	5212.9	4590.8	3654.3
82.5°	190.7	193.2	207.4	280.6	200.6	269.5	2574.4	3056.8	2562.7	1282.3
85°	115.1	118.1	124.3	163.7	113.8	128.0	1111.2	1149.4	766.1	306.4
87.5°	47.4	50.5	55.4	68.9	44.9	35.7	183.4	230.1	143.4	89.8
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°
2099.4	0°	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4	2099.4
2105.6	2.5°	2102.5	2098.2	2086.5	2070.5	2055.7	2037.3	2029.3	2022.5	2016.4	2004.7
2122.2	5°	2115.4	2103.7	2072.3	2031.7	1985.6	1935.1	1885.9	1852.1	1823.1	1801.6
2141.3	7.5°	2135.1	2113.0	2055.7	1972.7	1866.8	1758.5	1660.7	1591.2	1538.9	1519.8
2168.3	10°	2155.4	2129.0	2029.3	1882.8	1700.1	1533.3	1403.5	1332.1	1290.3	1276.8
2200.3	12.5°	2179.4	2140.6	1988.0	1757.9	1513.6	1330.9	1217.7	1175.8	1154.3	1146.9
2239.7	15°	2214.5	2150.5	1925.9	1601.6	1335.8	1183.2	1110.0	1081.1	1070.0	1069.4
2280.3	17.5°	2240.9	2152.3	1829.3	1434.3	1199.2	1094.0	1033.7	1022.6	1030.0	1041.1
2320.3	20°	2270.5	2135.7	1702.5	1281.7	1103.2	1015.9	990.6	998.0	1015.9	1031.9
2373.2	22.5°	2291.4	2105.6	1549.3	1162.9	1020.2	971.0	969.7	985.1	994.9	1002.9
2435.4	25°	2309.9	2054.5	1386.9	1063.2	951.9	943.9	957.4	952.5	945.7	952.5
2497.5	27.5°	2323.4	1973.9	1241.7	975.9	903.9	925.4	917.4	906.3	905.7	909.4
2570.7	30°	2319.1	1866.2	1122.3	892.8	870.0	891.0	871.9	870.0	868.2	870.0
2680.9	32.5°	2319.1	1743.8	1030.6	835.6	848.5	840.5	838.7	834.4	827.0	826.4
2830.4	35°	2332.0	1621.3	951.9	804.8	830.7	811.6	812.8	802.4	787.0	779.6
3028.5	37.5°	2358.5	1522.9	873.7	790.1	799.3	798.7	793.7	775.9	748.8	725.4
3275.9	40°	2422.5	1494.0	820.2	783.3	784.5	791.9	779.0	744.5	683.0	644.8
3526.9	42.5°	2522.7	1542.6	808.5	766.7	774.7	782.1	756.8	676.8	633.1	610.4
3790.3	45°	2650.1	1627.5	833.7	742.7	751.3	764.2	689.1	651.0	631.3	631.9
4051.2	47.5°	2811.3	1716.7	880.5	721.8	717.4	724.8	644.2	620.8	593.8	600.5
4301.6	50°	2997.8	1807.1	924.8	693.4	679.9	655.9	615.3	593.2	558.7	542.7
4543.4	52.5°	3199.6	1894.5	942.6	659.0	639.3	611.6	595.6	568.5	526.7	500.2
4771.7	55°	3390.9	1973.9	923.0	617.8	598.7	577.2	574.7	558.1	513.2	476.2
4974.7	57.5°	3571.8	2040.4	873.7	575.9	557.5	544.5	561.2	553.2	496.6	449.2
5166.7	60°	3725.1	2085.9	802.4	533.5	520.5	513.8	539.0	536.5	473.2	420.3
5339.0	62.5°	3846.9	2103.7	723.6	492.9	489.8	477.5	508.2	508.2	443.6	391.9
5490.4	65°	3942.3	2086.5	643.6	452.9	459.0	440.6	470.7	467.0	412.3	366.7
5664.5	67.5°	4026.6	2029.9	555.0	413.5	427.6	404.3	431.3	422.7	377.8	341.5
5815.2	70°	4064.1	1898.2	454.1	374.1	391.3	368.6	391.9	376.0	339.0	314.4
5649.7	72.5°	3762.6	1577.6	357.5	332.9	347.6	329.2	349.5	331.0	297.2	286.1
4878.8	75°	3112.8	1183.8	275.0	288.0	299.0	284.9	298.4	284.9	254.1	262.1
3603.8	77.5°	2260.6	799.3	210.4	240.6	245.5	238.1	249.8	234.4	206.7	204.9
1796.1	80°	1124.2	468.2	164.9	190.1	188.3	183.4	196.9	189.5	166.1	176.0
484.9	82.5°	325.5	200.6	120.0	133.5	129.8	131.1	140.9	144.6	216.6	214.7
150.7	85°	102.1	78.8	72.0	74.5	70.8	72.6	83.1	164.9	152.6	89.2
46.8	87.5°	26.5	27.1	17.8	19.1	19.7	23.4	26.5	100.3	48.0	31.4
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>
2099.4
1999.1
1783.8
1486.6
1255.8
1148.8
1071.9
1045.4
1037.4
1007.3
956.8
915.6
876.8
834.4
787.0
733.4
649.8
610.4
635.0
617.8
547.0
499.6
476.2
446.7
418.4
390.1
364.3
339.0
309.5
276.9
239.4
195.7
174.1
219.7
96.6
33.2
0.0

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