

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: P950812

Luminaire Tested: **GALN-SB5A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950812
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-SB5A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14160 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

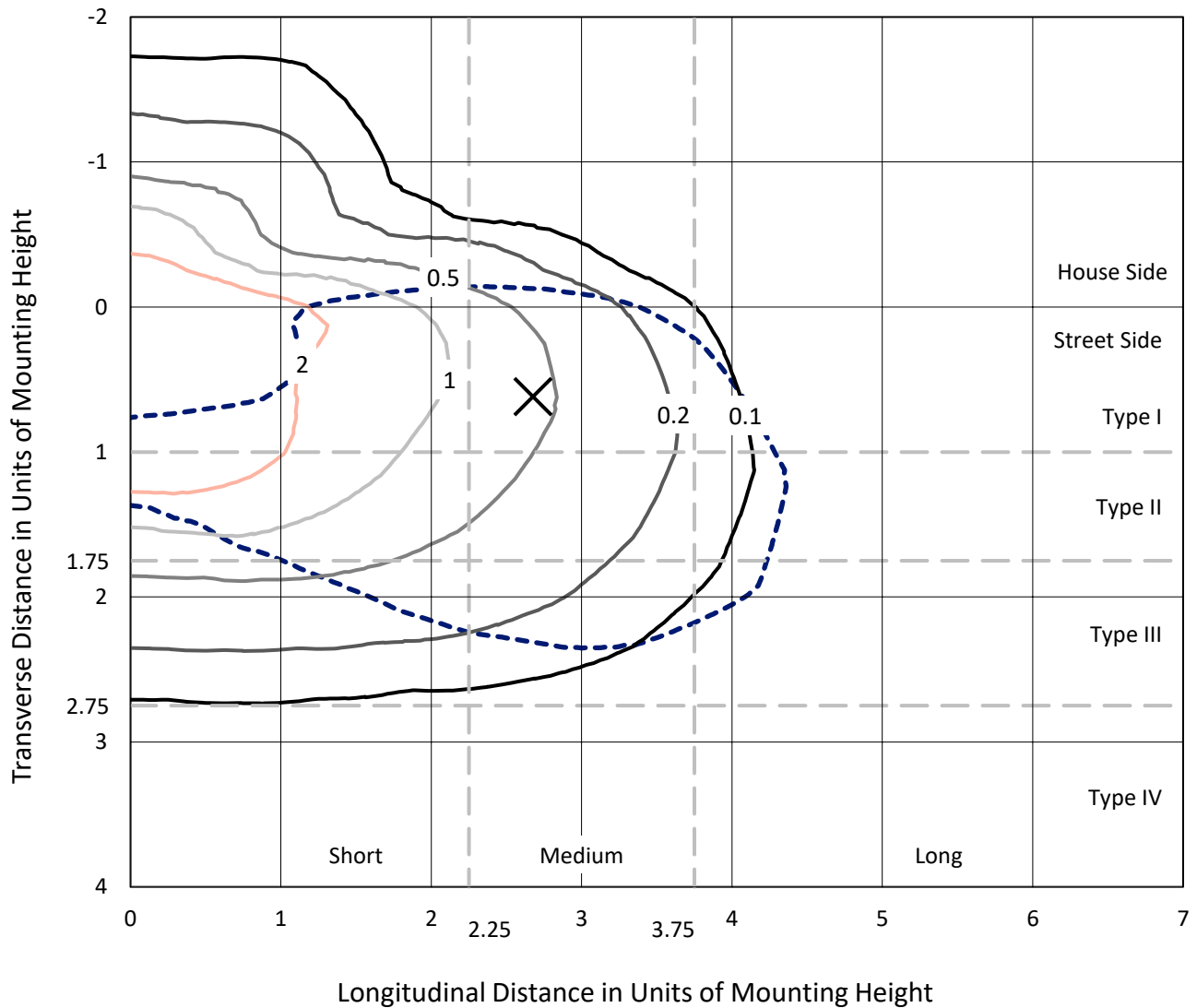
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

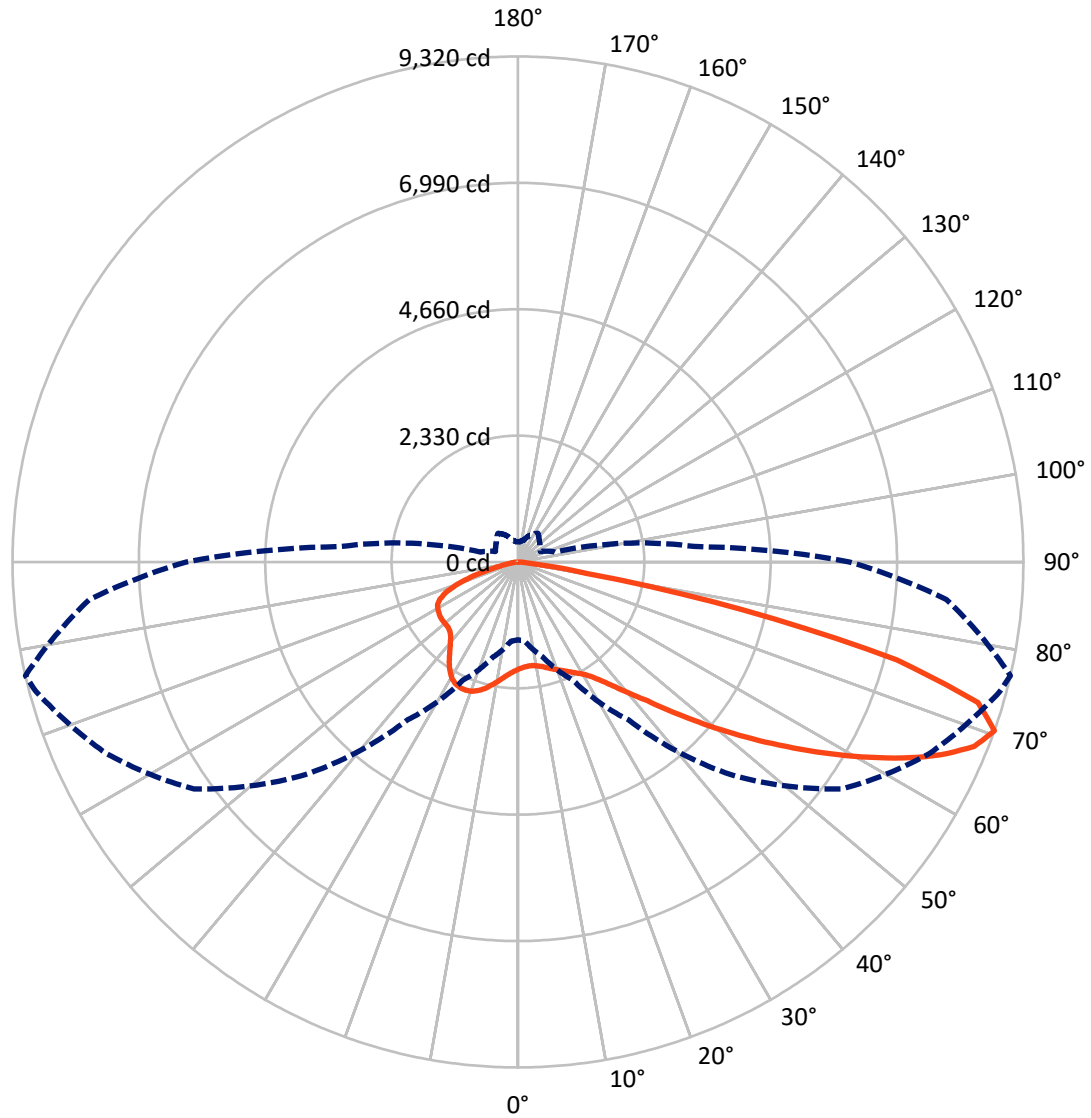
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3100.8	0.0	3100.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11059.2	0.0	11059.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	14160.0	0.0	14160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	1.3
10°-20°	543.8	3.8
20°-30°	929.9	6.6
30°-40°	1495.4	10.6
40°-50°	2334.7	16.5
50°-60°	3118.6	22.0
60°-70°	3323.9	23.5
70°-80°	2046.2	14.5
80°-90°	179.3	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°	14160.0	100.0
0°-180°	14160.0	100.0

Coefficient of Utilization



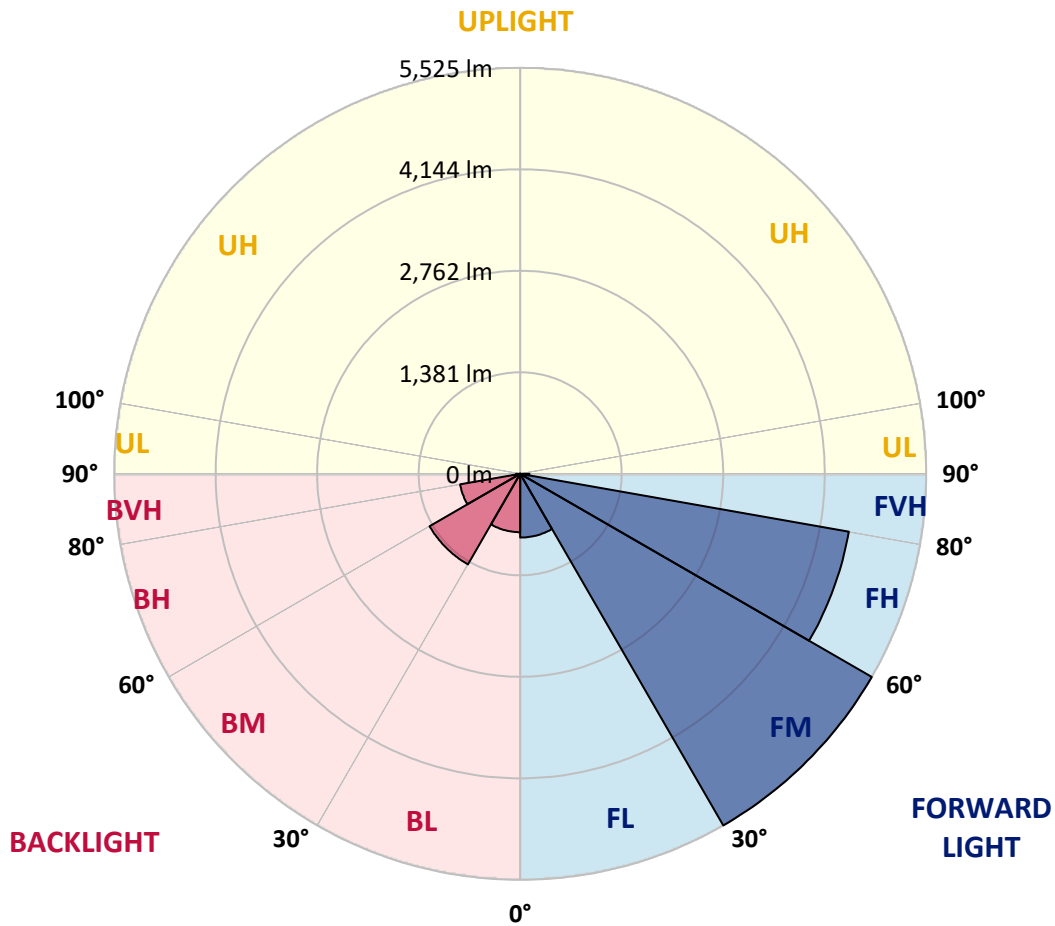
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	867.5	6.1			
FM (30°-60°)	5524.9	39.0			
FH (60°-80°)	4541.4	32.1			G2/5000
FVH (80°-90°)	125.4	0.9			G2/225
BL (0°-30°)	794.5	5.6	B2/1000		
BM (30°-60°)	1423.7	10.1	B2/2500		
BH (60°-80°)	828.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	53.9	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1821.0	1820.3	1829.7	1832.6	1850.0	1862.3	1885.5	1910.2	1942.1	1945.7
5°	1715.8	1715.8	1726.7	1738.3	1760.8	1785.4	1821.0	1863.8	1918.9	1927.6
7.5°	1626.6	1632.4	1641.9	1664.3	1690.4	1726.0	1780.4	1841.3	1913.8	1927.6
10°	1554.8	1561.4	1573.0	1591.1	1630.3	1679.6	1750.6	1829.0	1926.1	1947.9
12.5°	1532.4	1538.9	1545.4	1559.2	1595.4	1653.5	1738.3	1834.8	1955.9	1977.6
15°	1584.6	1592.5	1587.5	1583.8	1602.7	1655.6	1744.1	1855.8	1992.9	2024.0
17.5°	1704.9	1707.8	1696.2	1662.2	1659.3	1687.5	1771.7	1884.8	2039.3	2073.4
20°	1899.3	1894.2	1870.3	1802.9	1764.4	1758.6	1818.8	1928.3	2087.1	2123.4
22.5°	2163.3	2157.5	2109.6	2003.0	1917.4	1860.9	1887.0	1984.9	2140.8	2181.4
25°	2492.5	2484.5	2414.2	2269.2	2136.4	1996.5	1979.8	2059.6	2206.8	2244.5
27.5°	2876.9	2870.3	2794.2	2602.7	2411.3	2182.1	2095.1	2147.3	2275.7	2318.5
30°	3290.2	3309.1	3174.2	2968.3	2726.0	2424.3	2250.3	2255.4	2364.9	2403.3
32.5°	3776.1	3808.8	3646.3	3385.2	3054.5	2687.6	2446.1	2406.2	2494.7	2526.6
35°	4257.7	4294.6	4159.8	3871.1	3490.4	2998.0	2650.6	2579.5	2667.3	2702.1
37.5°	4673.9	4723.2	4653.6	4402.7	3956.7	3372.2	2917.5	2783.3	2879.8	2923.3
40°	5002.4	5077.9	5072.8	4916.1	4506.4	3826.2	3256.2	3035.0	3143.7	3190.9
42.5°	5269.3	5334.6	5391.1	5383.2	5080.0	4341.8	3654.3	3362.0	3444.7	3499.1
45°	5453.5	5523.1	5645.0	5776.2	5631.9	4893.7	4110.4	3750.0	3825.4	3907.4
47.5°	5618.1	5697.2	5855.3	6063.4	6100.4	5447.7	4610.1	4201.8	4270.7	4355.6
50°	5632.6	5700.8	5945.9	6241.1	6433.3	5980.0	5146.8	4708.7	4773.3	4863.9
52.5°	5282.4	5389.7	5817.6	6236.0	6586.3	6425.3	5679.8	5236.0	5308.5	5417.3
55°	4100.3	4257.7	5441.2	6041.7	6531.9	6713.2	6186.7	5796.5	5889.4	6003.2
57.5°	3531.7	3600.6	4319.3	5687.8	6283.9	6787.9	6614.6	6362.9	6512.3	6637.0
60°	3174.2	3231.5	3656.5	5137.3	5957.5	6669.7	6945.3	6890.9	7149.0	7297.7
62.5°	2791.3	2845.7	3232.2	4289.6	5539.8	6473.1	7154.1	7378.2	7801.7	7964.2
65°	2411.3	2457.7	2828.3	3604.3	5009.0	6276.6	7262.2	7799.5	8405.8	8574.1
67.5°	1987.8	2026.2	2376.5	3040.8	4363.5	6007.6	7315.8	8131.0	8931.6	9075.9
70°	1434.4	1464.2	1826.1	2404.8	3553.5	5544.9	7294.1	8365.9	9204.3	9319.6
72.5°	678.1	704.9	1129.9	1561.4	2509.9	4644.2	6853.9	8179.5	8927.2	8869.9
75°	361.9	385.1	649.1	856.5	1325.7	3183.6	5608.7	7046.1	7496.4	7217.9
77.5°	245.1	263.2	401.8	514.2	605.5	1511.3	3605.0	4878.4	4693.5	4233.7
80°	194.4	213.2	329.2	348.1	293.0	546.1	1489.6	2258.3	1622.3	1297.4
82.5°	149.4	170.4	277.0	252.4	159.5	224.1	433.7	714.3	415.5	316.2
85°	91.4	113.9	217.6	161.0	89.9	102.3	147.2	198.7	126.9	105.9
87.5°	46.4	65.3	110.2	58.7	40.6	23.9	39.2	39.2	33.4	29.0
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°
1975.4	0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
1965.3	2.5°	1982.7	1997.2	2021.9	2045.1	2063.2	2080.6	2098.0	2107.4	2110.3	2121.9
1976.2	5°	2005.9	2032.7	2080.6	2125.6	2153.8	2171.3	2183.6	2190.8	2192.3	2195.9
2005.9	7.5°	2048.7	2091.5	2158.2	2203.2	2224.2	2222.7	2217.7	2199.5	2192.3	2185.8
2049.4	10°	2108.9	2165.5	2247.4	2278.6	2265.5	2230.7	2185.8	2132.8	2108.2	2084.2
2108.9	12.5°	2183.6	2255.4	2335.9	2334.4	2269.9	2180.7	2076.3	1995.0	1943.5	1906.6
2182.1	15°	2274.2	2356.9	2418.5	2369.2	2227.8	2067.5	1914.5	1808.7	1762.2	1721.6
2256.1	17.5°	2367.8	2456.3	2484.5	2358.4	2121.9	1900.0	1726.7	1643.3	1597.6	1575.9
2335.9	20°	2459.2	2546.9	2523.7	2296.0	1960.9	1710.0	1555.6	1509.9	1500.4	1505.5
2413.5	22.5°	2555.6	2633.9	2531.7	2175.6	1755.7	1515.7	1430.8	1432.3	1453.3	1468.5
2494.7	25°	2654.2	2707.2	2510.6	2001.6	1535.3	1372.8	1351.8	1375.0	1416.3	1446.1
2586.1	27.5°	2749.2	2772.4	2465.0	1786.2	1346.0	1270.6	1274.2	1322.0	1384.4	1425.7
2697.0	30°	2856.6	2830.5	2377.2	1544.0	1214.7	1182.8	1213.3	1269.1	1331.5	1368.5
2837.0	32.5°	2977.7	2880.5	2238.0	1319.9	1121.9	1112.5	1162.5	1198.8	1226.3	1237.2
3022.6	35°	3128.5	2950.8	2059.6	1162.5	1038.5	1061.0	1108.8	1090.7	1079.8	1074.0
3272.1	37.5°	3324.3	3045.8	1850.7	1060.2	971.0	1024.0	1043.6	987.0	944.2	923.2
3574.5	40°	3560.0	3185.1	1649.8	981.2	928.3	992.1	958.0	889.8	835.4	805.7
3914.6	42.5°	3821.8	3330.9	1480.9	921.7	904.3	966.0	894.9	813.7	725.9	716.5
4320.0	45°	4096.7	3481.0	1365.6	876.0	892.7	943.5	858.6	727.4	665.0	703.4
4726.9	47.5°	4371.5	3618.8	1295.9	842.0	886.9	918.1	826.7	679.5	635.3	691.1
5162.7	50°	4677.6	3742.0	1264.8	817.3	880.4	908.0	778.9	667.2	604.1	641.1
5613.8	52.5°	4981.4	3837.8	1241.5	792.6	871.0	900.0	755.7	652.7	566.4	568.6
6067.8	55°	5284.5	3900.1	1216.2	760.0	849.9	882.6	753.5	636.7	538.1	527.9
6547.8	57.5°	5608.0	3935.7	1185.0	723.8	813.7	838.3	751.3	624.4	529.4	512.7
7038.8	60°	5937.2	3987.9	1144.4	679.5	765.1	785.4	746.2	620.0	524.3	496.0
7501.5	62.5°	6232.4	4006.0	1095.8	637.5	702.7	733.2	735.4	616.4	510.5	462.0
7885.8	65°	6426.0	3927.7	1010.9	589.6	635.3	679.5	714.3	604.1	485.9	437.3
8075.8	67.5°	6418.0	3704.3	878.2	527.9	570.0	620.0	683.9	583.1	456.2	406.8
7932.3	70°	6119.3	3263.4	710.0	456.2	498.2	556.2	644.7	551.9	420.6	373.5
7053.3	72.5°	5248.3	2554.2	515.6	372.0	414.8	490.2	593.9	514.2	384.4	343.7
5212.7	75°	3749.3	1616.5	349.5	285.7	322.7	415.5	530.8	469.9	351.0	345.2
2610.7	77.5°	1915.3	772.3	231.3	208.9	224.8	327.8	446.0	419.9	356.1	285.0
742.6	80°	622.9	285.0	145.8	142.1	149.4	218.3	345.2	344.5	269.8	193.6
179.8	82.5°	198.7	122.6	95.0	91.4	87.7	137.1	240.8	272.7	182.0	122.6
64.5	85°	79.0	73.2	55.8	51.5	37.0	64.5	126.2	181.3	135.6	88.5
16.7	87.5°	29.0	29.0	15.2	10.9	8.0	21.8	34.1	54.4	77.6	45.7
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>
1975.4
2128.5
2201.7
2187.2
2077.0
1897.9
1717.3
1582.4
1503.3
1472.2
1454.0
1435.9
1377.2
1243.0
1079.8
928.3
807.9
725.9
723.8
717.2
668.6
583.8
535.2
514.9
498.2
462.0
437.3
409.0
377.8
341.6
325.6
253.8
171.1
121.8
90.7
45.0
0.0

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