

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: P947662

Luminaire Tested: **GALN-SB2D-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947662  
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-SB2D-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

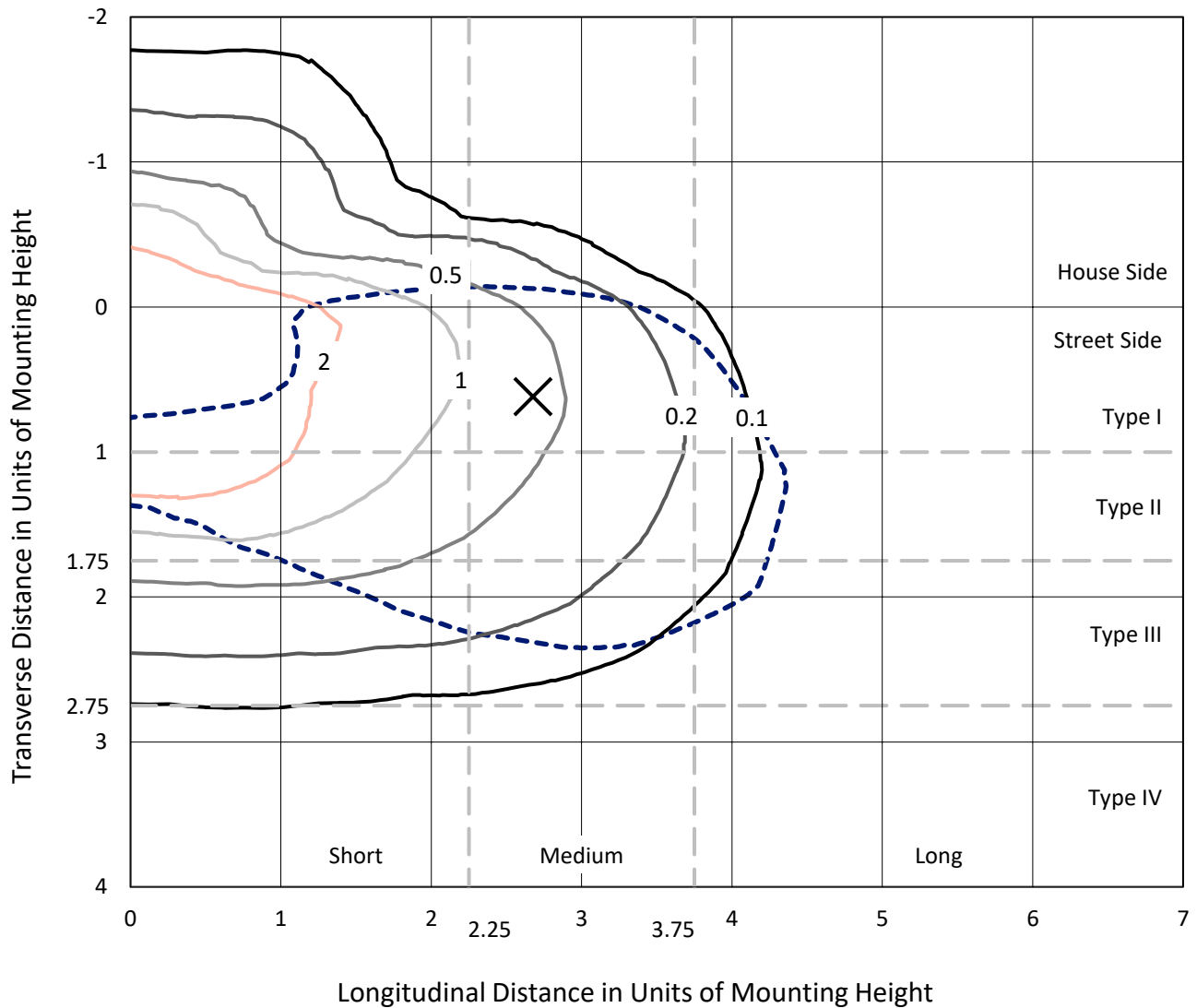
Lumens per Lamp: N/A  
Luminaire Lumens: 15139 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

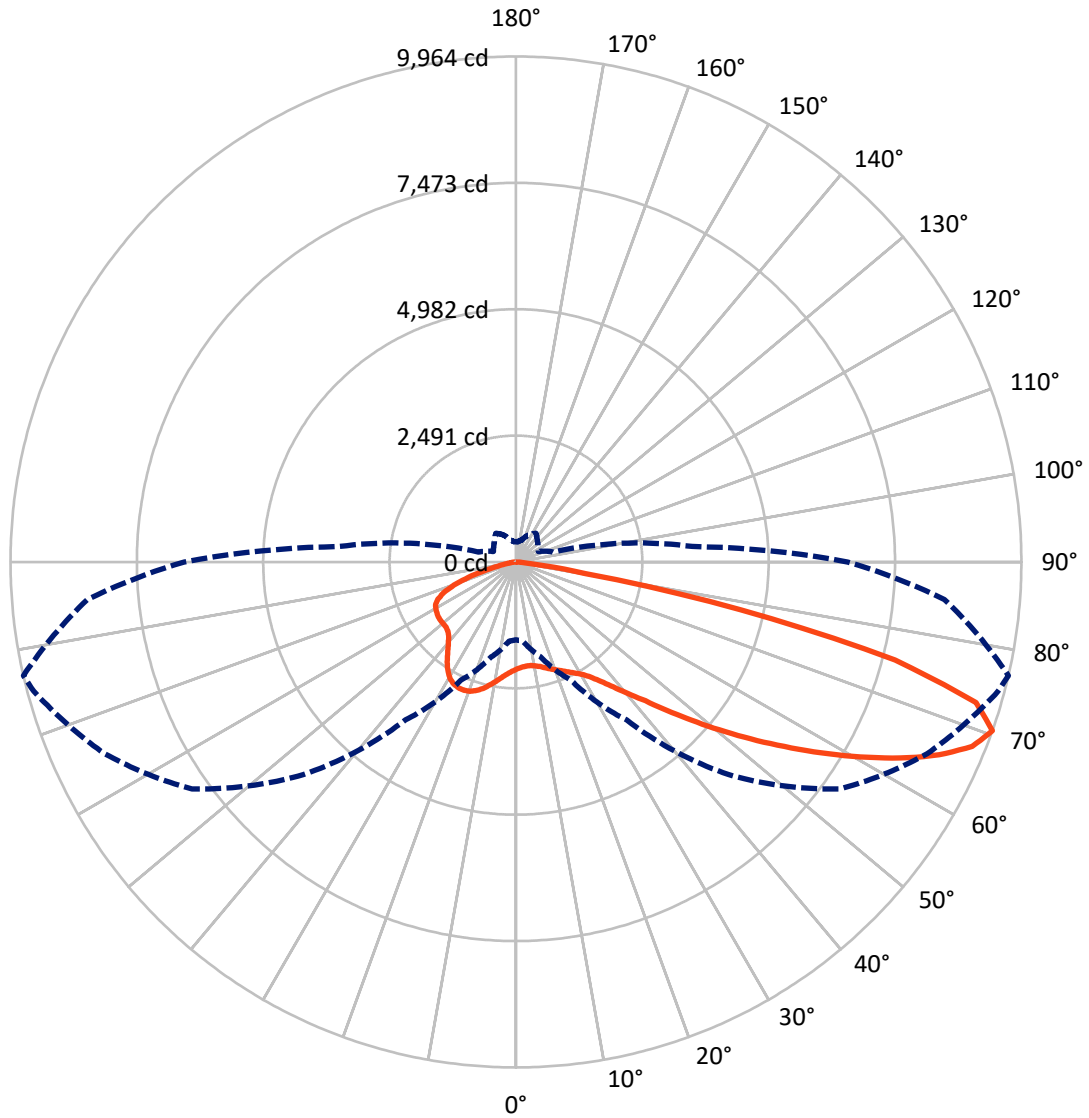
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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
<b>House Side</b>	Lumens	3315.2	0.0	3315.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11823.8	0.0	11823.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	15139.0	0.0	15139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.4	1.3
10°-20°	581.4	3.8
20°-30°	994.2	6.6
30°-40°	1598.8	10.6
40°-50°	2496.1	16.5
50°-60°	3334.2	22.0
60°-70°	3553.7	23.5
70°-80°	2187.6	14.5
80°-90°	191.7	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°	15139.0	100.0
0°-180°	15139.0	100.0

**Coefficient of Utilization**



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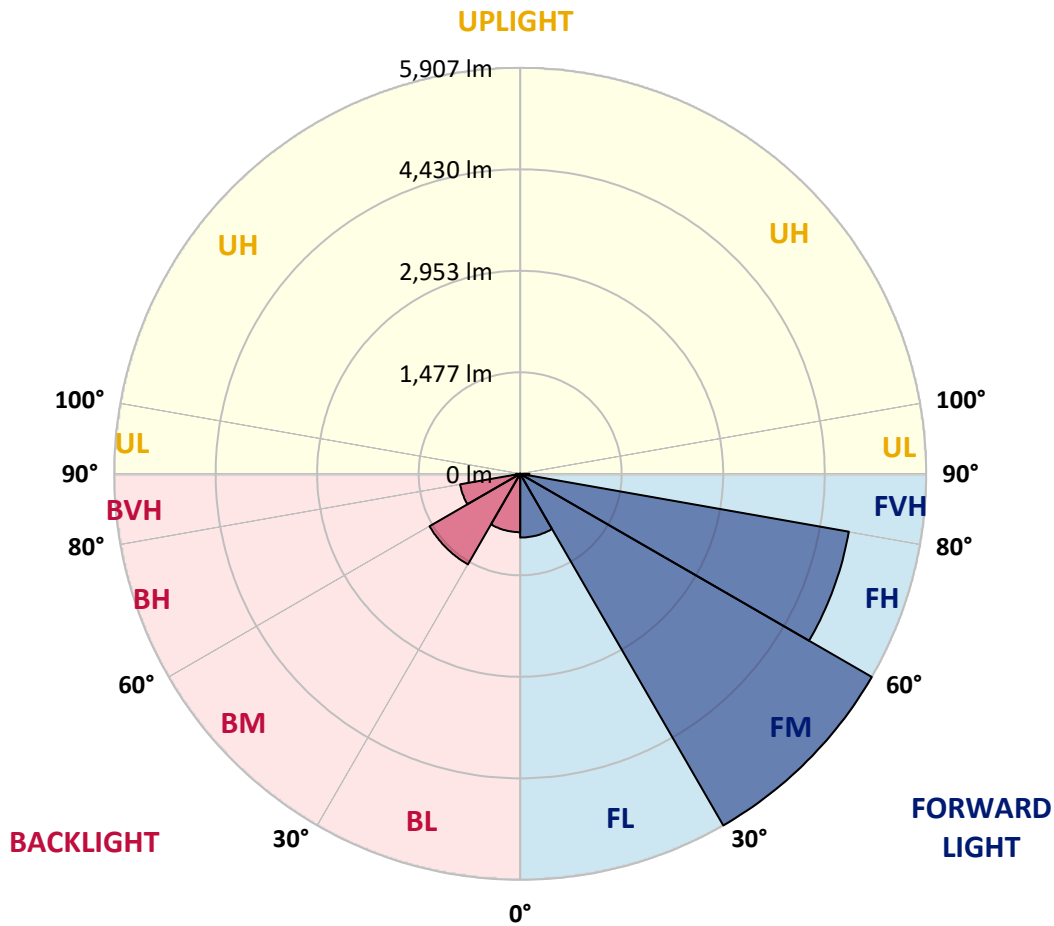
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.5	6.1			
FM (30°-60°)	5906.9	39.0			
FH (60°-80°)	4855.3	32.1			G2/5000
FVH (80°-90°)	134.0	0.9			G2/225
BL (0°-30°)	849.5	5.6	B2/1000		
BM (30°-60°)	1522.1	10.1	B2/2500		
BH (60°-80°)	886.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	57.6	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°	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0
2.5°	1946.9	1946.1	1956.2	1959.3	1977.9	1991.1	2015.9	2042.2	2076.4	2080.2
5°	1834.5	1834.5	1846.1	1858.5	1882.5	1908.9	1946.9	1992.6	2051.6	2060.9
7.5°	1739.1	1745.3	1755.4	1779.4	1807.3	1845.3	1903.5	1968.6	2046.1	2060.9
10°	1662.3	1669.3	1681.7	1701.1	1743.0	1795.7	1871.7	1955.4	2059.3	2082.6
12.5°	1638.3	1645.3	1652.3	1667.0	1705.7	1767.8	1858.5	1961.6	2091.1	2114.4
15°	1694.1	1702.6	1697.2	1693.3	1713.5	1770.1	1864.7	1984.1	2130.6	2164.0
17.5°	1822.8	1825.9	1813.5	1777.1	1774.0	1804.2	1894.2	2015.1	2180.3	2216.7
20°	2030.6	2025.2	1999.6	1927.5	1886.4	1880.2	1944.6	2061.6	2231.4	2270.2
22.5°	2312.8	2306.6	2255.5	2141.5	2050.0	1989.5	2017.4	2122.1	2288.8	2332.2
25°	2664.8	2656.3	2581.1	2426.0	2284.2	2134.5	2116.7	2202.0	2359.4	2399.7
27.5°	3075.8	3068.8	2987.4	2782.7	2578.0	2333.0	2240.0	2295.8	2433.0	2478.8
30°	3517.7	3537.9	3393.7	3173.5	2914.5	2592.0	2405.9	2411.3	2528.4	2569.5
32.5°	4037.2	4072.1	3898.4	3619.3	3265.7	2873.4	2615.2	2572.6	2667.2	2701.3
35°	4552.0	4591.6	4447.4	4138.8	3731.7	3205.3	2833.9	2757.9	2851.7	2888.9
37.5°	4997.1	5049.8	4975.4	4707.1	4230.3	3605.3	3119.2	2975.8	3078.9	3125.4
40°	5348.3	5428.9	5423.5	5256.0	4818.0	4090.7	3481.3	3244.8	3361.1	3411.5
42.5°	5633.6	5703.4	5763.9	5755.4	5431.3	4642.0	3906.9	3594.5	3682.9	3741.0
45°	5830.6	5905.0	6035.3	6175.6	6021.3	5232.0	4394.6	4009.3	4089.9	4177.5
47.5°	6006.6	6091.1	6260.1	6482.6	6522.2	5824.4	4928.8	4492.3	4566.0	4656.7
50°	6022.1	6095.0	6357.0	6672.6	6878.0	6393.5	5502.6	5034.3	5103.3	5200.2
52.5°	5647.6	5762.3	6219.8	6667.2	7041.6	6869.5	6072.5	5598.0	5675.5	5791.8
55°	4383.8	4552.0	5817.4	6459.4	6983.5	7177.3	6614.4	6197.3	6296.5	6418.3
57.5°	3775.9	3849.6	4617.9	6081.0	6718.3	7257.2	7071.9	6802.8	6962.6	7095.9
60°	3393.7	3454.9	3909.3	5492.5	6369.4	7130.8	7425.4	7367.3	7643.3	7802.3
62.5°	2984.3	3042.4	3455.7	4586.1	5922.8	6920.7	7648.7	7888.3	8341.1	8514.8
65°	2578.0	2627.6	3023.8	3853.4	5355.3	6710.6	7764.3	8338.8	8987.0	9166.9
67.5°	2125.2	2166.3	2540.8	3251.0	4665.2	6422.9	7821.6	8693.1	9549.1	9703.4
70°	1533.6	1565.4	1952.3	2571.0	3799.2	5928.3	7798.4	8944.3	9840.6	9963.9
72.5°	724.9	753.6	1208.0	1669.3	2683.5	4965.3	7327.7	8745.1	9544.4	9483.2
75°	386.9	411.7	693.9	915.7	1417.3	3403.7	5996.5	7533.2	8014.7	7717.0
77.5°	262.1	281.4	429.5	549.7	647.4	1615.8	3854.2	5215.7	5018.0	4526.4
80°	207.8	228.0	352.0	372.2	313.2	583.8	1592.6	2414.4	1734.4	1387.1
82.5°	159.7	182.2	296.2	269.8	170.6	239.6	463.7	763.7	444.3	338.0
85°	97.7	121.7	232.6	172.1	96.1	109.3	157.4	212.4	135.7	113.2
87.5°	49.6	69.8	117.9	62.8	43.4	25.6	41.9	41.9	35.7	31.0
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°
2112.0	0°	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0
2101.2	2.5°	2119.8	2135.3	2161.7	2186.5	2205.8	2224.5	2243.1	2253.1	2256.2	2268.6
2112.8	5°	2144.6	2173.3	2224.5	2272.5	2302.8	2321.4	2334.6	2342.3	2343.9	2347.7
2144.6	7.5°	2190.3	2236.1	2307.4	2355.5	2378.0	2376.4	2371.0	2351.6	2343.9	2336.9
2191.1	10°	2254.7	2315.2	2402.8	2436.1	2422.2	2384.9	2336.9	2280.3	2253.9	2228.3
2254.7	12.5°	2334.6	2411.3	2497.4	2495.8	2426.8	2331.5	2219.8	2133.0	2077.9	2038.4
2333.0	15°	2431.5	2519.9	2585.8	2533.0	2381.8	2210.5	2046.9	1933.7	1884.1	1840.7
2412.1	17.5°	2531.5	2626.1	2656.3	2521.4	2268.6	2031.4	1846.1	1756.9	1708.1	1684.8
2497.4	20°	2629.2	2723.0	2698.2	2454.7	2096.5	1828.3	1663.1	1614.3	1604.2	1609.6
2580.3	22.5°	2732.3	2816.0	2706.7	2326.0	1877.1	1620.5	1529.7	1531.3	1553.8	1570.1
2667.2	25°	2837.7	2894.3	2684.2	2139.9	1641.4	1467.7	1445.2	1470.0	1514.2	1546.0
2764.9	27.5°	2939.3	2964.1	2635.4	1909.7	1439.0	1358.4	1362.3	1413.4	1480.1	1524.3
2883.5	30°	3054.1	3026.2	2541.6	1650.7	1298.7	1264.6	1297.1	1356.8	1423.5	1463.1
3033.1	32.5°	3183.5	3079.7	2392.7	1411.1	1199.5	1189.4	1242.9	1281.6	1311.1	1322.7
3231.6	35°	3344.8	3154.9	2202.0	1242.9	1110.3	1134.3	1185.5	1166.1	1154.5	1148.3
3498.3	37.5°	3554.2	3256.4	1978.7	1133.5	1038.2	1094.8	1115.7	1055.2	1009.5	987.0
3821.7	40°	3806.1	3405.3	1763.9	1049.0	992.4	1060.7	1024.2	951.3	893.2	861.4
4185.3	42.5°	4086.0	3561.1	1583.2	985.5	966.9	1032.8	956.8	869.9	776.1	766.0
4618.7	45°	4379.9	3721.6	1460.0	936.6	954.4	1008.7	918.0	777.7	711.0	752.1
5053.7	47.5°	4673.8	3869.0	1385.5	900.2	948.2	981.6	883.9	726.5	679.2	738.9
5519.7	50°	5000.9	4000.8	1352.2	873.8	941.3	970.7	832.7	713.3	645.9	685.4
6001.9	52.5°	5325.8	4103.1	1327.4	847.4	931.2	962.2	807.9	697.8	605.5	607.9
6487.3	55°	5649.9	4169.8	1300.2	812.6	908.7	943.6	805.6	680.7	575.3	564.4
7000.6	57.5°	5995.7	4207.8	1266.9	773.8	869.9	896.3	803.3	667.6	566.0	548.2
7525.5	60°	6347.7	4263.6	1223.5	726.5	818.0	839.7	797.8	662.9	560.6	530.3
8020.1	62.5°	6663.3	4283.0	1171.5	681.5	751.3	783.9	786.2	659.0	545.8	493.9
8431.1	65°	6870.3	4199.2	1080.8	630.4	679.2	726.5	763.7	645.9	519.5	467.5
8634.2	67.5°	6861.8	3960.4	938.9	564.4	609.4	662.9	731.1	623.4	487.7	435.0
8480.7	70°	6542.3	3489.0	759.1	487.7	532.7	594.7	689.3	590.0	449.7	399.3
7541.0	72.5°	5611.1	2730.8	551.3	397.7	443.5	524.1	635.0	549.7	410.9	367.5
5573.2	75°	4008.5	1728.2	373.7	305.5	345.0	444.3	567.5	502.4	375.3	369.1
2791.2	77.5°	2047.7	825.7	247.3	223.3	240.4	350.5	476.8	448.9	380.7	304.7
793.9	80°	666.0	304.7	155.8	152.0	159.7	233.4	369.1	368.3	288.4	207.0
192.3	82.5°	212.4	131.0	101.6	97.7	93.8	146.5	257.4	291.5	194.6	131.0
69.0	85°	84.5	78.3	59.7	55.0	39.5	69.0	134.9	193.8	145.0	94.6
17.8	87.5°	31.0	31.0	16.3	11.6	8.5	23.3	36.4	58.2	83.0	48.8
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>
2112.0
2275.6
2353.9
2338.4
2220.6
2029.1
1836.0
1691.8
1607.3
1573.9
1554.6
1535.2
1472.4
1328.9
1154.5
992.4
863.7
776.1
773.8
766.8
714.9
624.1
572.2
550.5
532.7
493.9
467.5
437.3
404.0
365.2
348.1
271.4
183.0
130.3
96.9
48.1
0.0

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