

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: P939938

Luminaire Tested: **GALN-SB2D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

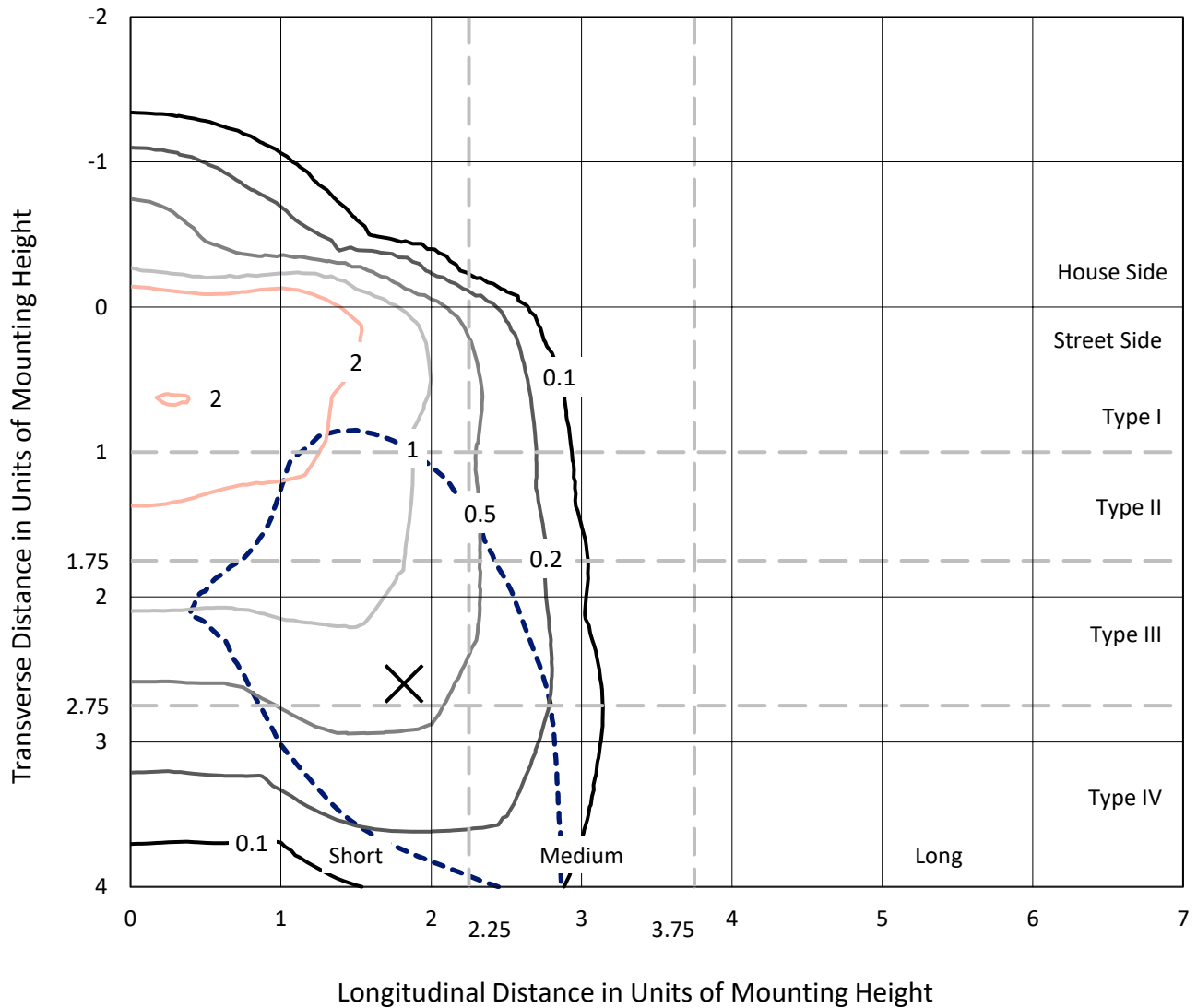
Lumens per Lamp: N/A  
Luminaire Lumens: 15408 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

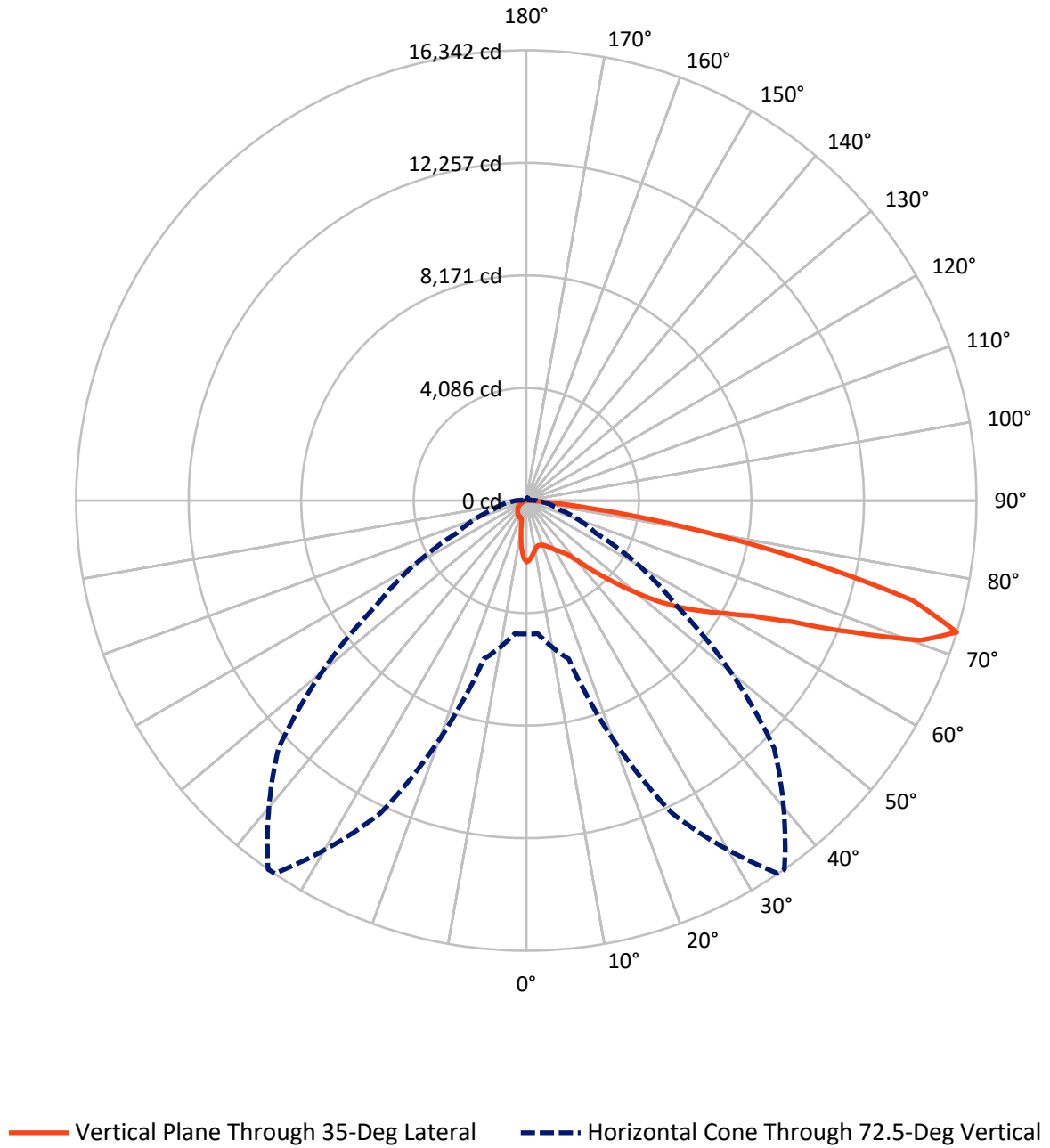
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1734.1	0.0	1734.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	13673.9	0.0	13673.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	15408.0	0.0	15408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	1.2
10°-20°	429.3	2.8
20°-30°	697.4	4.5
30°-40°	1163.5	7.6
40°-50°	2201.5	14.3
50°-60°	3498.1	22.7
60°-70°	4327.4	28.1
70°-80°	2689.9	17.5
80°-90°	217.4	1.4
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°	15408.0	100.0
0°-180°	15408.0	100.0

**Coefficient of Utilization**



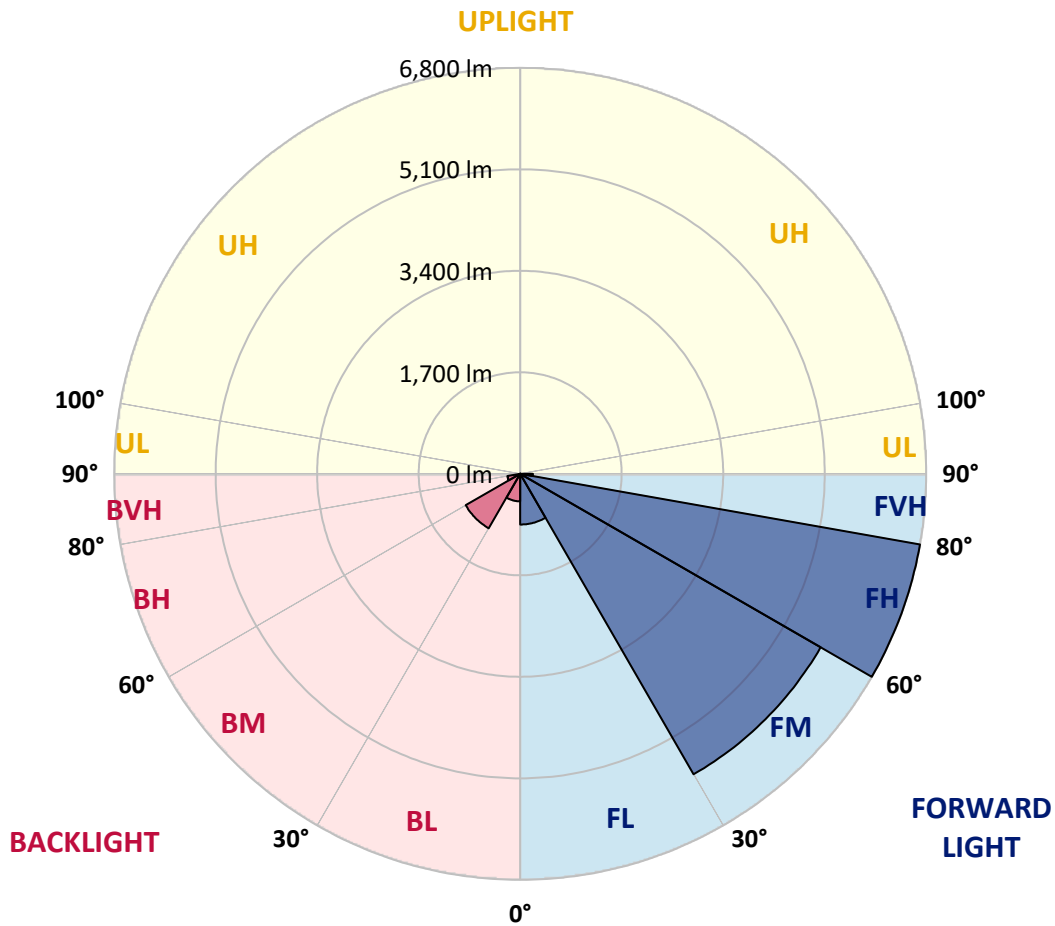
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.4	5.5			
FM (30°-60°)	5810.4	37.7			
FH (60°-80°)	6799.7	44.1			G3/7500
FVH (80°-90°)	214.4	1.4			G2/225
BL (0°-30°)	460.8	3.0	B1/500		
BM (30°-60°)	1052.8	6.8	B2/2500		
BH (60°-80°)	217.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1
2.5°	2133.8	2151.8	2155.2	2160.9	2160.9	2167.7	2178.9	2194.8	2220.7	2234.3
5°	1966.7	1980.2	1997.2	2010.7	2036.7	2040.1	2084.1	2127.0	2186.8	2232.0
7.5°	1798.5	1814.3	1836.9	1869.6	1903.5	1913.6	1980.2	2052.5	2147.3	2232.0
10°	1679.9	1681.1	1701.4	1734.1	1788.3	1800.7	1882.0	1984.8	2103.3	2218.5
12.5°	1613.3	1621.2	1630.3	1655.1	1707.0	1714.9	1801.9	1922.7	2059.3	2210.6
15°	1613.3	1619.0	1624.6	1637.0	1678.8	1685.6	1762.3	1883.1	2036.7	2213.9
17.5°	1630.3	1639.3	1634.8	1649.4	1693.5	1698.0	1765.7	1871.9	2035.6	2235.4
20°	1670.9	1677.7	1668.6	1677.7	1721.7	1730.7	1800.7	1893.3	2054.8	2272.7
22.5°	1735.3	1738.6	1717.2	1724.0	1769.1	1780.4	1861.7	1954.3	2101.0	2332.5
25°	1816.5	1823.3	1790.6	1798.5	1841.4	1854.9	1948.6	2045.7	2174.4	2414.9
27.5°	1910.2	1913.6	1885.4	1884.3	1939.6	1958.8	2053.6	2158.6	2272.7	2518.8
30°	2017.5	2027.7	2000.6	1996.0	2066.0	2081.9	2175.6	2297.5	2417.2	2674.6
32.5°	2102.2	2110.1	2094.3	2105.6	2176.7	2189.1	2323.5	2493.9	2644.1	2895.9
35°	2224.1	2228.6	2192.5	2212.8	2294.1	2325.7	2525.5	2769.4	2929.7	3173.6
37.5°	2665.5	2665.5	2512.0	2411.5	2489.4	2517.6	2802.1	3116.0	3282.0	3546.1
40°	3276.3	3266.2	3041.5	2836.0	2825.9	2881.2	3196.2	3552.9	3736.9	3993.2
42.5°	3927.7	3911.9	3606.0	3402.8	3368.9	3388.1	3651.1	4091.4	4278.9	4538.5
45°	4505.8	4501.3	4221.3	3948.1	3887.1	3948.1	4219.0	4721.4	4855.8	5129.0
47.5°	4990.1	4990.1	4785.8	4607.4	4575.8	4611.9	4987.9	5420.3	5407.8	5757.8
50°	5547.8	5543.3	5349.1	5272.4	5305.1	5355.9	5873.0	6156.4	5979.1	6375.4
52.5°	5938.5	5965.6	5899.0	5886.5	6053.6	6141.7	6771.7	6876.7	6490.5	6961.3
55°	6247.8	6279.4	6356.2	6443.1	6764.9	6880.0	7642.1	7559.7	6918.4	7469.4
57.5°	6685.9	6640.7	6759.2	6930.8	7451.3	7590.2	8485.5	8204.3	7262.8	7881.5
60°	7217.6	7224.4	7244.7	7461.5	8136.6	8315.0	9316.4	8814.0	7484.1	8134.3
62.5°	7856.6	7866.8	7908.6	8241.6	9056.7	9225.0	10201.5	9313.0	7585.7	8063.2
65°	7812.6	7855.5	8321.8	9460.9	10455.5	10621.5	11234.5	9663.0	7432.1	7412.9
67.5°	7117.1	7187.1	7967.3	10917.3	12564.5	12749.6	12483.2	9731.9	6769.4	5764.6
70°	6204.9	6229.7	7167.9	12226.9	15006.5	15193.9	13600.9	8974.3	5136.9	3215.4
72.5°	4845.6	4851.3	5952.0	12530.6	16331.9	16342.1	12723.7	6662.2	2762.6	1235.1
75°	3461.5	3427.6	3986.5	10162.0	14368.6	14483.8	9538.8	3125.0	1055.6	583.7
77.5°	1856.1	1893.3	2255.7	6026.5	9926.1	10122.5	5204.6	900.9	537.4	397.4
80°	573.5	605.1	924.6	2759.2	5622.4	5740.9	1929.4	400.8	374.8	283.4
82.5°	180.6	187.4	431.3	1159.5	2333.6	2387.8	558.8	226.9	256.3	187.4
85°	51.9	53.1	191.9	432.4	576.9	588.2	156.9	88.1	146.8	116.3
87.5°	5.6	18.1	72.3	72.3	50.8	49.7	16.9	19.2	41.8	14.7
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°
2233.1	0°	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1	2233.1
2243.3	2.5°	2237.7	2238.8	2224.1	2199.3	2172.2	2149.6	2121.4	2098.8	2083.0	2078.5
2263.6	5°	2253.5	2245.6	2203.8	2128.1	2037.8	1959.9	1873.0	1804.1	1759.0	1739.8
2285.1	7.5°	2277.2	2254.6	2163.1	2014.1	1841.4	1687.8	1532.0	1411.2	1334.5	1296.1
2305.4	10°	2297.5	2252.3	2095.4	1849.3	1585.1	1352.5	1142.5	996.9	915.6	877.2
2329.1	12.5°	2316.7	2251.2	2007.3	1654.0	1296.1	1011.6	816.3	744.0	721.4	713.5
2367.5	15°	2352.8	2254.6	1896.7	1430.4	1008.2	764.3	693.2	692.1	696.6	694.3
2426.2	17.5°	2402.5	2258.0	1771.4	1193.3	777.9	674.0	670.6	680.8	687.6	684.2
2499.6	20°	2466.8	2271.5	1638.2	958.5	668.4	651.4	659.3	668.4	674.0	668.4
2597.8	22.5°	2557.2	2295.2	1492.5	770.0	633.4	637.9	644.7	654.8	660.5	652.6
2723.1	25°	2667.8	2332.5	1349.1	669.5	616.4	622.1	632.2	643.5	650.3	642.4
2881.2	27.5°	2811.2	2392.3	1217.0	646.9	599.5	602.9	617.6	634.5	643.5	633.4
3105.8	30°	3018.9	2490.5	1103.0	657.1	589.3	581.4	601.7	625.5	635.6	626.6
3411.8	32.5°	3294.4	2629.4	1033.0	672.9	584.8	556.6	575.8	606.3	623.2	617.6
3811.5	35°	3655.7	2840.5	1005.9	690.9	581.4	530.6	544.2	576.9	606.3	611.9
4315.0	37.5°	4093.7	3134.1	1013.8	698.8	571.3	509.2	515.9	544.2	582.6	600.6
4881.7	40°	4591.6	3476.2	1059.0	690.9	560.0	491.1	492.2	513.7	547.6	574.7
5491.4	42.5°	5105.3	3875.8	1142.5	661.6	549.8	475.3	471.9	486.6	509.2	528.4
6099.9	45°	5594.1	4286.8	1225.0	620.9	537.4	459.5	451.6	457.2	461.8	469.7
6692.6	47.5°	6020.9	4575.8	1201.2	583.7	520.5	441.4	427.9	425.6	412.1	411.0
7222.1	50°	6315.6	4639.0	1066.9	546.4	495.6	421.1	399.7	386.1	362.4	351.1
7618.4	52.5°	6409.3	4389.5	871.6	509.2	455.0	394.0	363.5	342.1	312.7	302.6
7846.5	55°	6285.1	3900.6	696.6	464.0	398.5	357.9	324.0	295.8	272.1	259.7
7871.3	57.5°	5981.4	3278.6	550.9	411.0	338.7	317.2	283.4	255.2	234.8	222.4
7595.8	60°	5477.8	2603.4	435.8	347.7	289.0	273.2	238.2	220.2	202.1	187.4
6884.6	62.5°	4713.5	1858.3	342.1	275.5	241.6	223.5	203.2	189.7	168.2	147.9
5605.4	65°	3678.2	1136.9	264.2	202.1	194.2	185.2	172.7	160.3	134.3	114.0
3656.8	67.5°	2320.1	538.5	188.5	152.4	153.5	149.0	143.4	133.2	114.0	96.0
1638.2	70°	1021.7	260.8	124.2	116.3	114.0	114.0	118.5	115.2	97.1	80.2
569.0	72.5°	347.7	140.0	92.6	88.1	82.4	81.3	99.4	96.0	77.9	62.1
283.4	75°	181.8	93.7	67.7	63.2	49.7	59.8	79.0	74.5	55.3	40.6
187.4	77.5°	118.5	66.6	46.3	40.6	28.2	39.5	58.7	51.9	32.7	20.3
123.1	80°	74.5	44.0	27.1	19.2	13.5	21.5	31.6	22.6	12.4	4.5
72.3	82.5°	39.5	22.6	10.2	6.8	5.6	6.8	7.9	5.6	2.3	0.0
37.3	85°	15.8	7.9	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0
6.8	87.5°	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2233.1
2086.4
1746.5
1301.7
878.4
711.3
693.2
683.0
667.2
651.4
641.3
633.4
625.5
617.6
611.9
605.1
583.7
536.3
474.2
409.8
352.2
301.4
259.7
220.2
184.0
144.5
110.6
93.7
76.8
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37.3
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