

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: P945726

Luminaire Tested: **GALN-SB1C-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

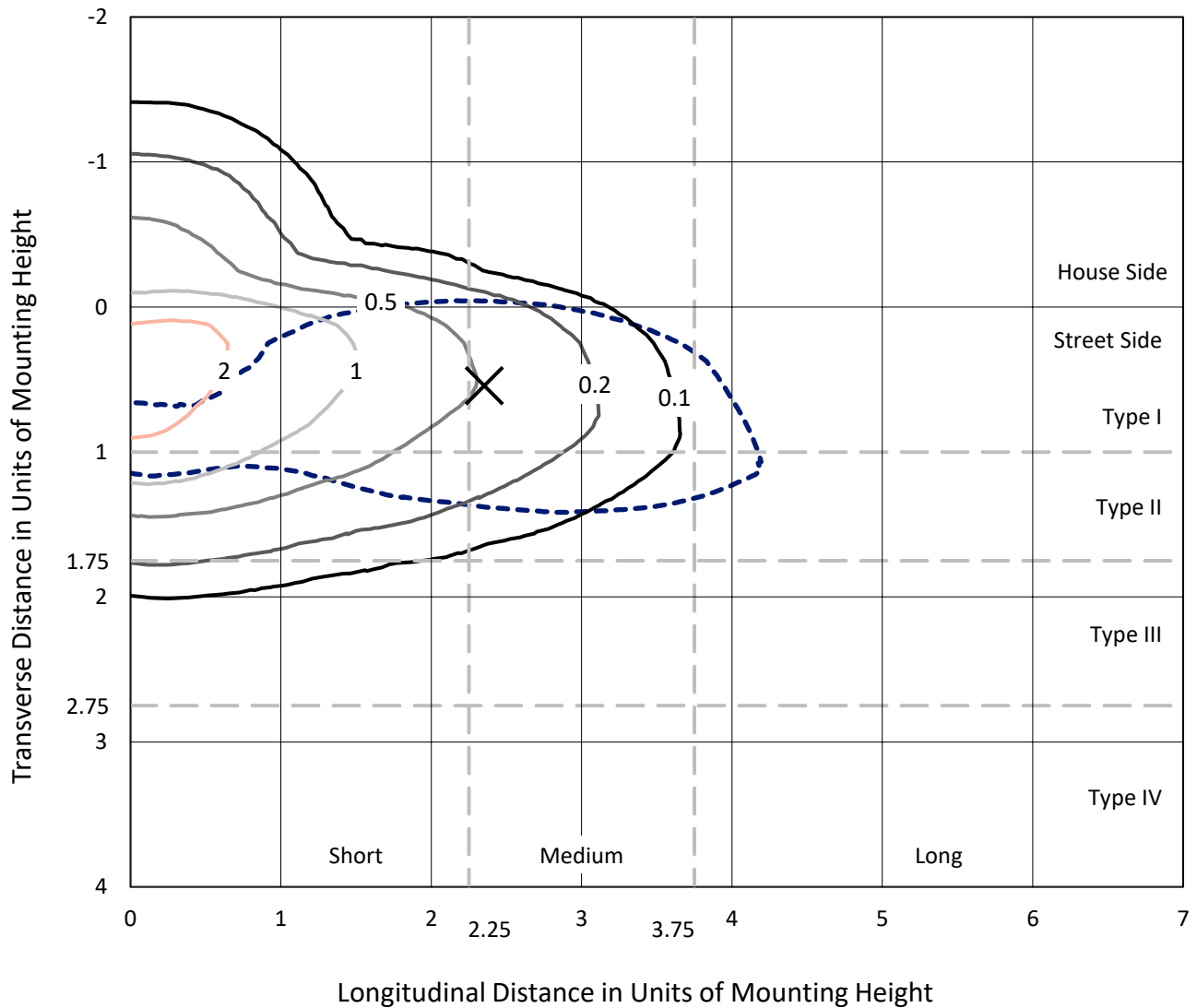
Lumens per Lamp: N/A  
Luminaire Lumens: 6856 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

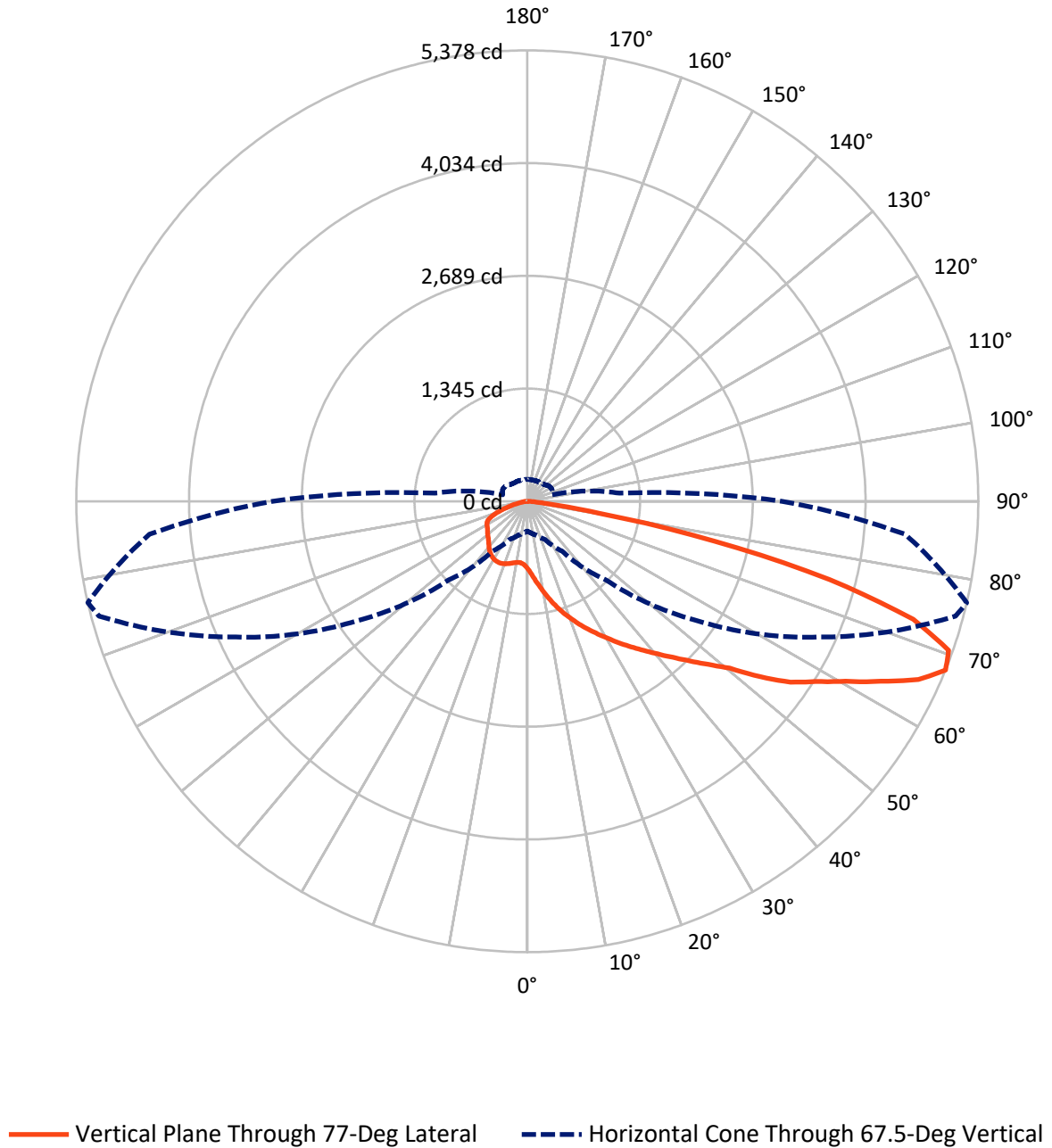
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1296.9	0.0	1296.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	5559.1	0.0	5559.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	6856.0	0.0	6856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	1.3
10°-20°	309.8	4.5
20°-30°	584.9	8.5
30°-40°	942.2	13.7
40°-50°	1288.8	18.8
50°-60°	1453.7	21.2
60°-70°	1356.9	19.8
70°-80°	743.8	10.8
80°-90°	89.7	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°	6856.0	100.0
0°-180°	6856.0	100.0

**Coefficient of Utilization**



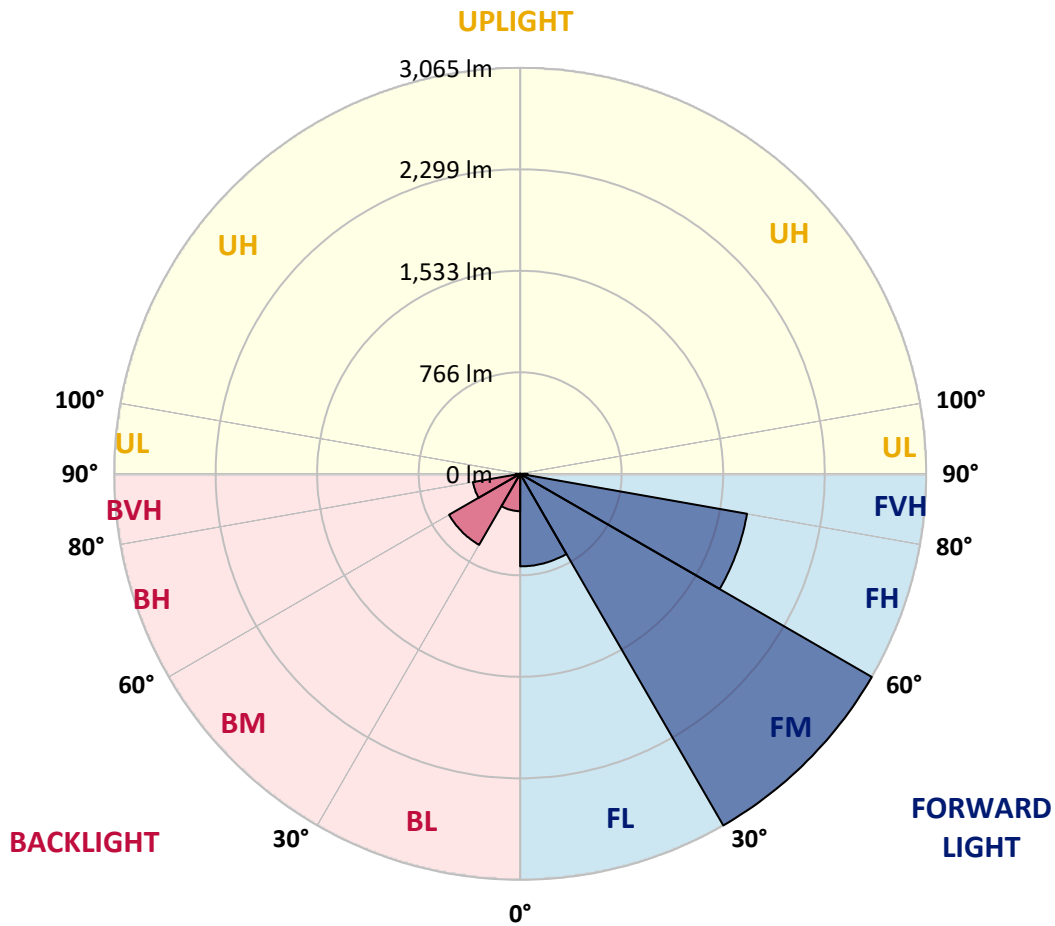
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.9	10.2			
FM (30°-60°)	3065.2	44.7			
FH (60°-80°)	1738.9	25.4			G1/1800
FVH (80°-90°)	56.1	0.8			G1/100
BL (0°-30°)	282.0	4.1	B1/500		
BM (30°-60°)	619.5	9.0	B1/1000		
BH (60°-80°)	361.8	5.3	B1/500		G1/500
BVH (80°-90°)	33.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4
2.5°	1007.2	1014.3	1005.4	1005.4	975.7	960.1	930.4	907.8	867.1	860.0
5°	1190.5	1199.4	1187.0	1181.7	1146.6	1114.4	1064.5	1015.3	942.8	935.4
7.5°	1332.4	1343.8	1332.8	1327.1	1296.0	1259.9	1201.5	1132.8	1030.6	1016.1
10°	1448.2	1449.9	1446.4	1448.5	1424.1	1394.4	1334.6	1254.6	1126.8	1107.0
12.5°	1513.6	1521.8	1528.9	1541.6	1537.4	1519.0	1465.2	1369.6	1228.8	1203.3
15°	1544.4	1558.6	1574.5	1603.9	1627.6	1632.2	1591.1	1493.1	1332.4	1301.7
17.5°	1555.4	1568.9	1594.0	1636.4	1687.4	1721.7	1703.3	1613.1	1435.1	1399.7
20°	1611.0	1614.9	1630.1	1670.4	1725.6	1782.6	1796.4	1728.5	1536.6	1496.7
22.5°	1729.9	1722.1	1726.3	1744.7	1784.4	1839.6	1871.1	1830.4	1641.0	1595.0
25°	1926.3	1903.6	1881.0	1859.8	1879.9	1911.1	1946.8	1932.3	1750.4	1692.0
27.5°	2174.4	2146.8	2096.9	2027.2	2002.7	2013.7	2029.6	2026.8	1851.6	1792.5
30°	2418.6	2386.4	2326.9	2226.1	2161.6	2132.6	2120.6	2112.4	1961.7	1898.7
32.5°	2613.6	2588.1	2529.7	2416.8	2323.4	2273.8	2233.8	2204.8	2076.7	2013.7
35°	2784.2	2760.4	2693.6	2570.4	2468.8	2416.1	2363.7	2301.8	2196.3	2132.6
37.5°	2939.9	2916.2	2824.5	2696.4	2594.1	2557.7	2510.9	2405.8	2316.3	2256.1
40°	3038.3	3032.9	2947.3	2802.2	2696.0	2678.0	2662.4	2526.5	2449.4	2393.4
42.5°	3063.4	3075.1	3007.1	2887.8	2786.6	2772.1	2808.6	2663.1	2598.7	2545.3
45°	3002.9	3036.5	2991.9	2910.9	2851.0	2843.3	2938.1	2812.5	2764.0	2715.1
47.5°	2849.6	2906.6	2888.2	2876.9	2868.4	2902.0	3052.1	2971.0	2951.2	2908.7
50°	2540.3	2648.3	2680.5	2752.0	2834.1	2947.7	3155.8	3144.1	3169.9	3127.1
52.5°	2005.6	2154.2	2341.1	2520.1	2728.6	2932.4	3269.7	3392.5	3501.5	3478.2
55°	1655.6	1722.4	1866.1	2194.6	2524.0	2868.4	3321.0	3593.2	3830.6	3809.8
57.5°	1386.6	1446.4	1534.9	1809.2	2214.7	2722.9	3352.9	3715.6	4056.1	4054.0
60°	1098.2	1161.5	1252.1	1446.4	1853.4	2471.7	3345.8	3855.1	4343.8	4361.5
62.5°	772.6	842.3	942.8	1124.0	1484.3	2146.1	3201.4	3955.9	4682.5	4730.6
65°	507.9	553.9	629.6	786.0	1105.9	1727.4	2925.7	3969.0	5044.9	5126.3
67.5°	356.0	373.7	418.3	503.3	729.0	1324.7	2486.5	3833.5	5286.6	5378.3
70°	277.8	286.7	309.3	343.3	458.0	890.8	1905.4	3481.0	5234.9	5330.5
72.5°	239.9	248.4	256.9	261.2	307.2	550.0	1290.7	2910.5	4748.3	4813.1
75°	217.7	219.8	226.9	225.4	234.3	356.7	745.0	2120.6	3746.4	3724.1
77.5°	183.0	185.8	197.5	195.7	208.1	243.8	386.8	1368.5	2428.8	2277.4
80°	155.0	156.4	169.2	167.0	180.8	176.6	197.5	697.5	1030.2	872.7
82.5°	53.8	66.5	129.2	133.1	138.0	106.9	114.0	284.5	314.6	241.0
85°	26.2	28.0	65.8	93.4	93.1	53.8	55.6	101.6	99.1	77.9
87.5°	4.2	5.3	7.8	36.5	29.0	14.2	19.1	19.8	20.5	17.7
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°
804.4	0°	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4	804.4
833.1	2.5°	813.3	795.6	758.4	724.1	697.2	671.4	656.8	644.5	637.4	636.0
872.0	5°	835.2	798.8	731.2	674.2	637.0	609.4	594.9	585.7	581.1	578.3
924.4	7.5°	866.7	813.3	717.0	652.2	613.3	593.5	586.1	584.6	584.3	584.6
987.7	10°	910.2	837.0	715.6	646.9	614.4	603.4	603.1	603.4	604.8	605.2
1056.8	12.5°	957.3	861.4	721.3	651.5	627.8	621.8	620.7	620.4	621.5	622.2
1126.5	15°	1008.6	893.6	730.8	661.4	642.7	636.3	635.3	633.1	632.8	632.4
1199.7	17.5°	1061.4	925.5	741.4	672.1	652.2	643.4	639.5	634.5	630.7	629.6
1275.5	20°	1114.8	957.0	748.9	677.4	653.0	640.6	632.8	624.3	617.6	613.7
1351.9	22.5°	1171.8	989.9	753.5	676.0	646.6	629.6	615.4	605.5	595.3	588.5
1429.1	25°	1227.3	1018.5	753.1	668.5	634.2	612.6	594.6	581.8	567.7	560.6
1508.7	27.5°	1280.8	1044.4	744.3	655.4	616.5	592.4	570.8	555.6	541.8	535.1
1589.0	30°	1336.0	1066.0	730.5	636.3	595.6	569.1	545.4	532.3	519.9	513.5
1674.0	32.5°	1390.8	1085.8	711.0	612.6	571.6	546.1	522.7	510.7	503.3	503.3
1765.3	35°	1448.9	1099.6	685.2	585.0	546.1	521.7	503.3	496.2	495.5	491.2
1861.9	37.5°	1510.1	1108.4	653.7	556.7	520.9	497.9	492.3	483.8	476.7	467.5
1968.1	40°	1574.5	1117.3	615.8	527.3	494.4	481.7	479.2	467.9	447.7	425.0
2088.4	42.5°	1652.7	1123.3	576.5	497.9	466.4	462.2	465.7	446.3	414.1	397.1
2233.5	45°	1743.3	1133.2	540.4	468.9	437.8	437.8	452.6	427.2	400.6	390.0
2399.1	47.5°	1860.8	1156.2	506.8	437.1	411.2	418.3	423.6	404.2	389.3	376.2
2600.8	50°	2030.7	1211.4	472.1	404.9	391.1	405.2	397.8	386.5	369.1	358.5
2921.5	52.5°	2241.6	1244.0	441.3	375.8	373.7	387.9	377.3	366.6	353.5	339.4
3164.6	55°	2385.3	1250.0	415.5	354.6	362.0	360.6	356.7	347.2	340.1	321.3
3404.5	57.5°	2546.0	1262.0	394.2	341.9	354.6	339.0	337.6	329.5	320.3	307.5
3697.2	60°	2738.1	1280.8	375.8	336.9	348.2	324.9	317.8	314.6	305.4	299.0
4049.4	62.5°	2947.7	1297.8	357.1	337.6	340.8	311.1	300.5	299.4	293.7	291.6
4379.9	65°	3090.6	1251.4	333.7	336.9	329.1	296.9	283.5	283.1	278.5	277.8
4523.2	67.5°	3040.7	1104.5	302.2	327.0	317.1	282.8	267.9	266.5	260.5	260.8
4373.5	70°	2790.9	895.0	258.7	302.6	302.2	270.0	251.6	247.0	238.9	240.3
3802.7	72.5°	2322.3	663.2	200.3	261.9	278.5	258.3	232.9	225.4	215.2	216.6
2807.2	75°	1677.1	450.9	145.8	199.2	242.4	244.5	214.5	201.7	189.3	191.5
1562.5	77.5°	858.2	255.5	107.2	137.3	190.4	222.3	197.8	180.8	178.0	197.8
450.5	80°	279.9	128.1	74.3	96.3	124.9	181.9	173.4	153.9	153.2	157.8
94.5	82.5°	83.5	54.1	47.8	63.3	69.0	139.4	149.7	116.4	100.2	105.5
31.5	85°	28.7	26.2	27.3	31.5	32.9	81.8	104.8	77.2	72.9	80.3
7.1	87.5°	6.7	9.2	7.8	7.1	7.1	19.8	40.7	32.2	44.6	29.7
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>
804.4
636.0
577.9
585.7
605.5
622.5
632.1
630.7
615.1
588.9
560.6
534.7
513.2
503.6
490.2
466.1
421.9
397.4
391.8
375.8
357.4
336.6
321.7
303.3
300.8
291.6
277.5
260.8
241.7
216.2
192.2
195.0
135.5
109.0
79.3
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