

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: P939844

Luminaire Tested: **GALN-SB2C-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

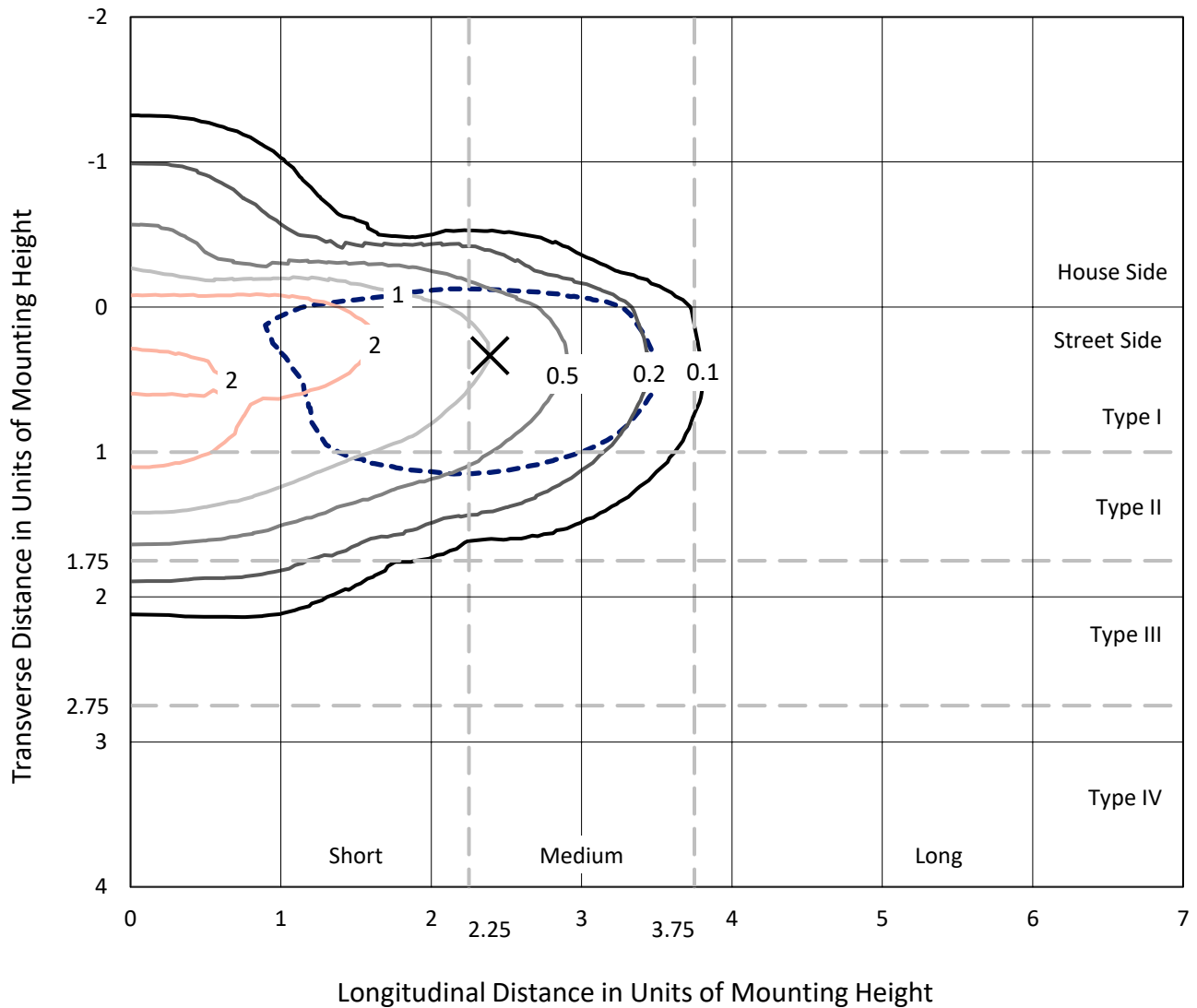
Lumens per Lamp: N/A  
Luminaire Lumens: 10461 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

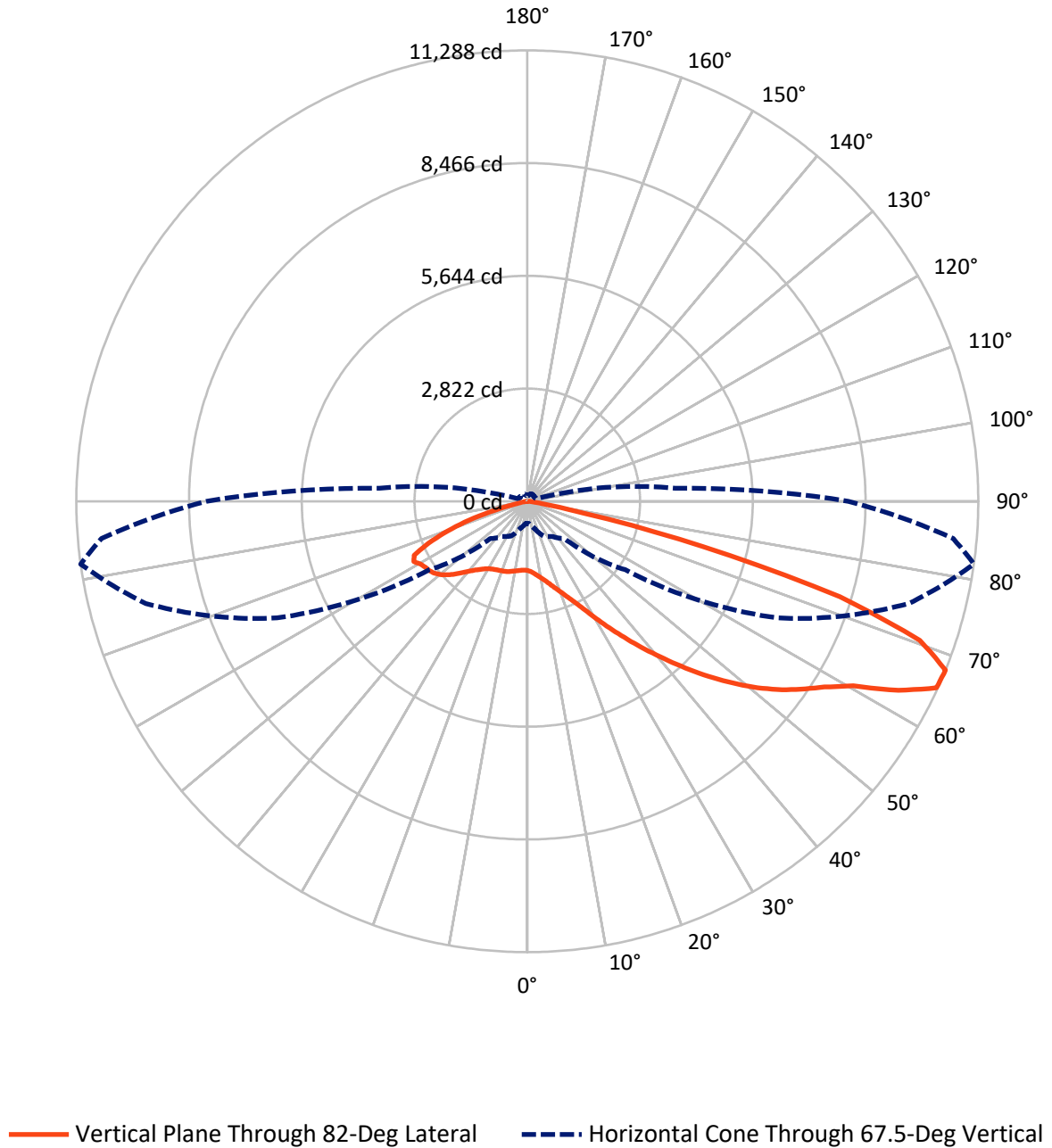
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type 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	1894.9	0.0	1894.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8566.1	0.0	8566.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10461.0	0.0	10461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	1.5
10°-20°	401.2	3.8
20°-30°	642.6	6.1
30°-40°	1136.4	10.9
40°-50°	1991.0	19.0
50°-60°	2655.5	25.4
60°-70°	2472.1	23.6
70°-80°	948.8	9.1
80°-90°	58.9	0.6
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°	10461.0	100.0
0°-180°	10461.0	100.0

**Coefficient of Utilization**



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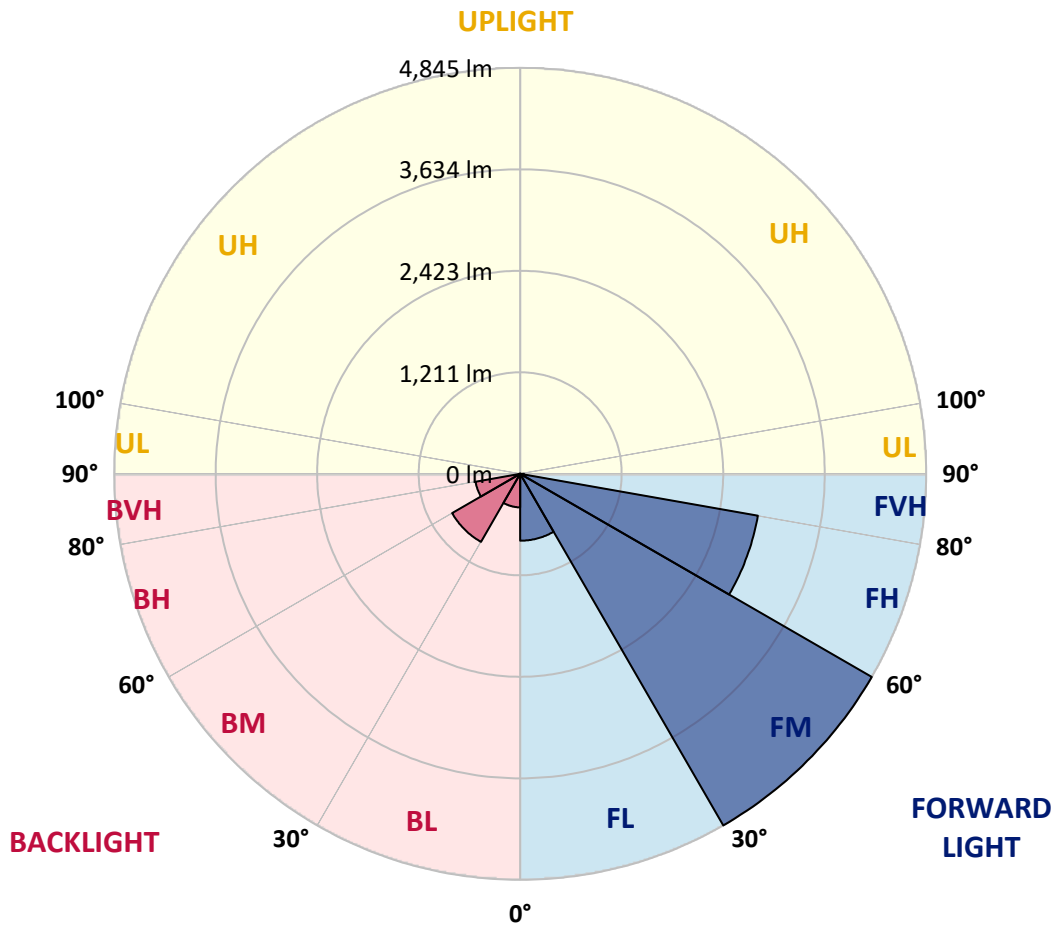
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.1	7.6			
FM (30°-60°)	4845.1	46.3			
FH (60°-80°)	2880.1	27.5			G2/5000
FVH (80°-90°)	42.8	0.4			G1/100
BL (0°-30°)	400.2	3.8	B1/500		
BM (30°-60°)	937.8	9.0	B1/1000		
BH (60°-80°)	540.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.1	0.2			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
2.5°	1831.7	1842.2	1836.2	1833.2	1827.9	1820.4	1814.4	1795.5	1776.0	1763.2
5°	1868.6	1879.1	1878.4	1881.4	1885.2	1887.4	1885.9	1864.8	1837.0	1815.1
7.5°	1837.0	1849.0	1858.8	1873.9	1900.2	1928.1	1941.7	1937.1	1908.5	1878.4
10°	1747.3	1760.1	1783.5	1818.9	1874.6	1934.9	1985.3	2008.7	1990.6	1957.5
12.5°	1583.2	1596.0	1641.9	1718.7	1812.1	1916.8	2013.2	2075.7	2080.2	2047.1
15°	1398.6	1411.4	1460.4	1556.8	1699.1	1867.1	2028.3	2146.5	2186.4	2157.8
17.5°	1284.1	1295.4	1332.3	1409.9	1558.3	1767.7	2023.0	2221.8	2313.0	2290.4
20°	1249.5	1259.3	1276.6	1330.8	1454.4	1664.5	1988.4	2292.6	2449.3	2436.5
22.5°	1286.4	1295.4	1300.7	1324.8	1402.4	1596.7	1944.7	2364.9	2607.5	2609.0
25°	1371.5	1380.6	1374.5	1389.6	1423.5	1575.6	1928.1	2450.0	2806.3	2822.9
27.5°	1511.6	1512.4	1498.0	1497.3	1502.6	1607.3	1945.4	2541.2	3057.1	3088.0
30°	1792.5	1781.2	1726.3	1666.8	1639.6	1702.2	1993.6	2648.9	3353.1	3408.1
32.5°	2225.6	2209.0	2108.1	1965.8	1822.7	1855.0	2080.2	2771.6	3675.4	3774.9
35°	2695.6	2691.1	2585.6	2374.0	2123.9	2072.7	2221.1	2932.8	4027.2	4185.3
37.5°	3132.4	3130.2	3069.9	2820.6	2516.3	2376.2	2447.0	3143.7	4403.8	4632.7
40°	3531.6	3538.4	3478.1	3255.2	2948.6	2765.6	2754.3	3404.3	4822.5	5120.0
42.5°	3876.5	3884.1	3823.1	3658.1	3375.7	3196.4	3131.7	3723.6	5231.5	5643.5
45°	4110.8	4157.5	4148.4	4016.6	3814.0	3628.0	3585.1	4124.3	5697.7	6198.6
47.5°	4177.1	4220.0	4287.8	4305.8	4182.3	3999.3	4050.5	4607.1	6169.2	6754.4
50°	4013.6	4053.5	4194.4	4381.9	4467.8	4411.3	4503.2	5124.5	6652.0	7308.7
52.5°	3691.3	3731.9	3909.7	4206.4	4556.7	4734.4	4957.3	5634.4	7119.7	7833.7
55°	3225.1	3268.0	3496.2	3832.1	4387.2	4867.7	5336.2	6143.6	7548.2	8305.9
57.5°	2590.9	2622.5	2859.8	3329.7	3960.9	4735.2	5615.6	6699.4	7951.9	8769.9
60°	1688.6	1716.5	1992.1	2516.3	3254.4	4292.3	5671.3	7319.3	8488.2	9373.1
62.5°	1123.0	1141.8	1305.2	1690.1	2291.9	3442.0	5345.2	7814.1	9274.5	10423.1
65°	770.5	789.3	952.8	1220.9	1480.7	2276.8	4407.5	7748.6	9987.0	11256.8
67.5°	549.8	565.6	704.2	957.3	1071.8	1322.6	2987.8	6911.0	9884.5	11288.4
70°	393.9	402.9	517.4	745.6	851.8	794.6	1661.5	5285.7	8654.6	10423.8
72.5°	275.7	278.7	359.3	567.9	686.1	579.9	790.8	3524.1	6545.8	8181.6
75°	186.8	190.6	241.8	416.5	550.6	442.9	418.8	1889.7	3842.7	4528.8
77.5°	114.5	116.0	155.9	284.7	412.0	337.4	269.6	800.6	1486.7	1459.6
80°	64.8	64.8	99.4	177.0	280.9	217.7	189.0	340.4	470.7	413.5
82.5°	36.2	36.9	72.3	110.0	186.0	128.8	103.9	157.4	203.4	180.0
85°	15.1	16.6	44.4	52.0	88.9	64.0	42.2	66.3	75.3	67.0
87.5°	1.5	2.3	13.6	9.8	10.5	12.8	6.0	12.8	10.5	10.5
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°
1733.0	0°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
1758.6	2.5°	1744.3	1733.0	1704.4	1671.3	1627.6	1606.5	1577.9	1558.3	1541.7	1543.2
1802.3	5°	1778.2	1749.6	1685.6	1605.7	1506.3	1435.5	1360.2	1308.2	1266.1	1257.0
1862.6	7.5°	1824.9	1779.7	1667.5	1523.7	1355.7	1228.4	1114.7	1041.6	989.7	973.1
1935.6	10°	1885.2	1819.6	1644.2	1420.5	1178.7	1016.8	894.8	837.5	802.1	790.1
2021.5	12.5°	1955.2	1865.6	1613.3	1294.7	996.4	840.5	763.0	734.3	723.0	719.3
2126.9	15°	2043.3	1922.8	1566.6	1145.6	842.0	732.8	699.7	695.9	697.4	695.9
2253.5	17.5°	2148.0	1985.3	1490.5	991.9	738.1	677.8	665.8	668.8	672.6	671.8
2395.1	20°	2262.5	2047.1	1393.4	855.6	667.3	638.7	631.9	634.9	637.9	636.4
2558.5	22.5°	2392.8	2113.4	1285.7	749.4	619.9	602.5	595.0	595.8	595.8	592.7
2765.6	25°	2548.7	2186.4	1172.7	674.1	583.7	570.1	561.1	558.1	553.6	544.5
3017.2	27.5°	2734.7	2264.0	1064.2	621.4	555.1	542.3	531.7	524.2	512.9	497.8
3319.2	30°	2944.1	2358.2	972.3	588.2	532.5	519.7	507.6	496.3	479.8	460.9
3666.4	32.5°	3190.4	2459.1	905.3	566.4	512.2	498.6	484.3	470.7	452.7	433.8
4056.5	35°	3484.1	2581.1	866.1	551.3	496.3	478.3	462.4	447.4	433.8	417.3
4480.6	37.5°	3802.7	2710.6	854.1	543.8	485.8	457.9	439.8	429.3	427.8	418.0
4939.3	40°	4151.4	2864.3	863.1	539.3	474.5	438.3	418.8	416.5	420.3	402.9
5429.6	42.5°	4520.5	3046.6	878.2	534.0	458.7	418.8	399.9	399.9	396.9	372.8
5947.7	45°	4919.7	3256.7	893.3	521.2	439.8	399.2	384.9	379.6	366.8	343.4
6468.9	47.5°	5321.9	3470.6	904.6	497.8	417.3	382.6	369.8	357.8	338.9	317.8
6980.3	50°	5703.7	3662.6	892.5	463.2	391.6	366.8	353.2	336.7	316.3	302.0
7464.6	52.5°	6044.9	3829.1	841.3	422.5	364.5	350.2	338.2	320.8	304.3	289.2
7901.5	55°	6341.7	3963.9	750.9	384.1	340.4	335.9	323.9	302.0	279.4	266.6
8334.5	57.5°	6626.3	4066.3	637.9	352.5	318.6	320.1	302.0	282.4	261.3	247.8
8918.2	60°	7005.2	4203.4	523.4	323.1	295.2	299.8	280.2	265.9	239.5	222.2
9919.2	62.5°	7610.7	4416.6	415.7	287.0	268.1	269.6	261.3	244.0	212.4	192.1
10661.1	65°	8091.3	4338.2	327.6	247.8	237.2	239.5	239.5	220.7	186.8	163.4
10701.0	67.5°	8037.0	3714.6	261.3	209.4	207.9	209.4	214.7	198.8	165.7	146.9
9886.0	70°	7403.6	2954.7	209.4	174.0	180.8	177.0	192.1	181.5	149.1	130.3
7664.2	72.5°	6041.1	2128.4	159.7	143.9	138.6	144.6	173.2	163.4	124.3	103.2
4059.6	75°	3530.1	1135.8	119.0	113.7	100.2	120.5	153.6	139.3	94.9	76.1
1244.2	77.5°	1149.3	396.2	87.4	83.6	74.6	97.2	131.1	117.5	77.6	60.3
364.5	80°	308.0	119.8	59.5	55.0	48.2	72.3	103.9	93.4	55.7	39.2
156.7	82.5°	123.5	50.5	34.6	30.9	26.4	49.7	82.1	75.3	41.4	24.9
49.0	85°	39.9	16.6	12.8	9.8	12.1	30.9	49.0	51.2	29.4	12.8
7.5	87.5°	5.3	2.3	2.3	3.0	2.3	5.3	15.1	14.3	8.3	1.5
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

180°
1733.0
1528.2
1236.7
956.5
781.0
717.0
695.2
670.3
635.7
591.2
543.0
496.3
459.4
434.6
415.7
417.3
403.7
372.8
342.7
317.1
299.8
287.7
265.1
246.3
219.9
190.6
161.2
143.9
128.0
100.9
73.8
58.0
38.4
24.9
9.8
0.0
0.0

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