

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: P947201

Luminaire Tested: **GALN-SB2C-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

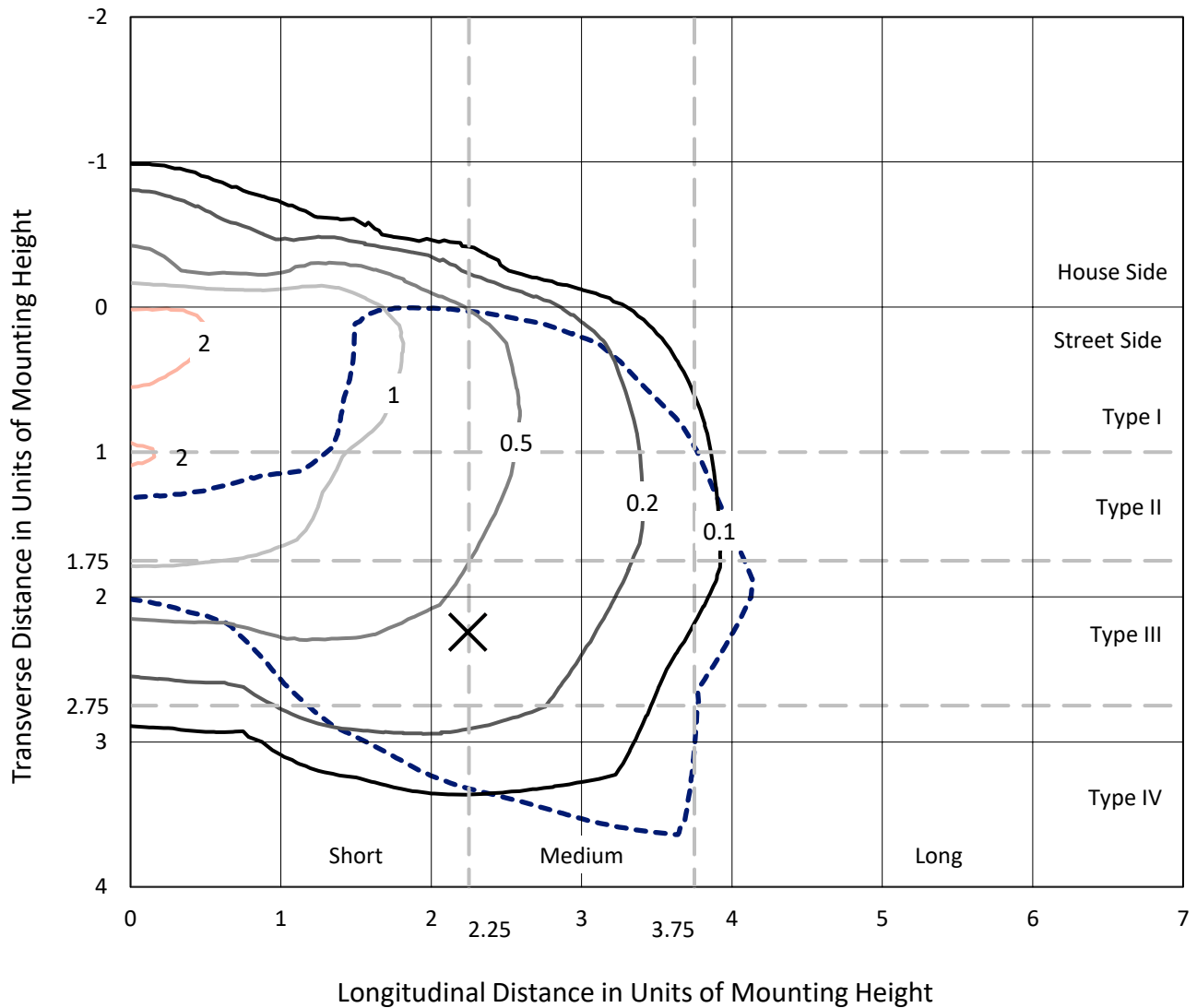
Lumens per Lamp: N/A  
Luminaire Lumens: 11035 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

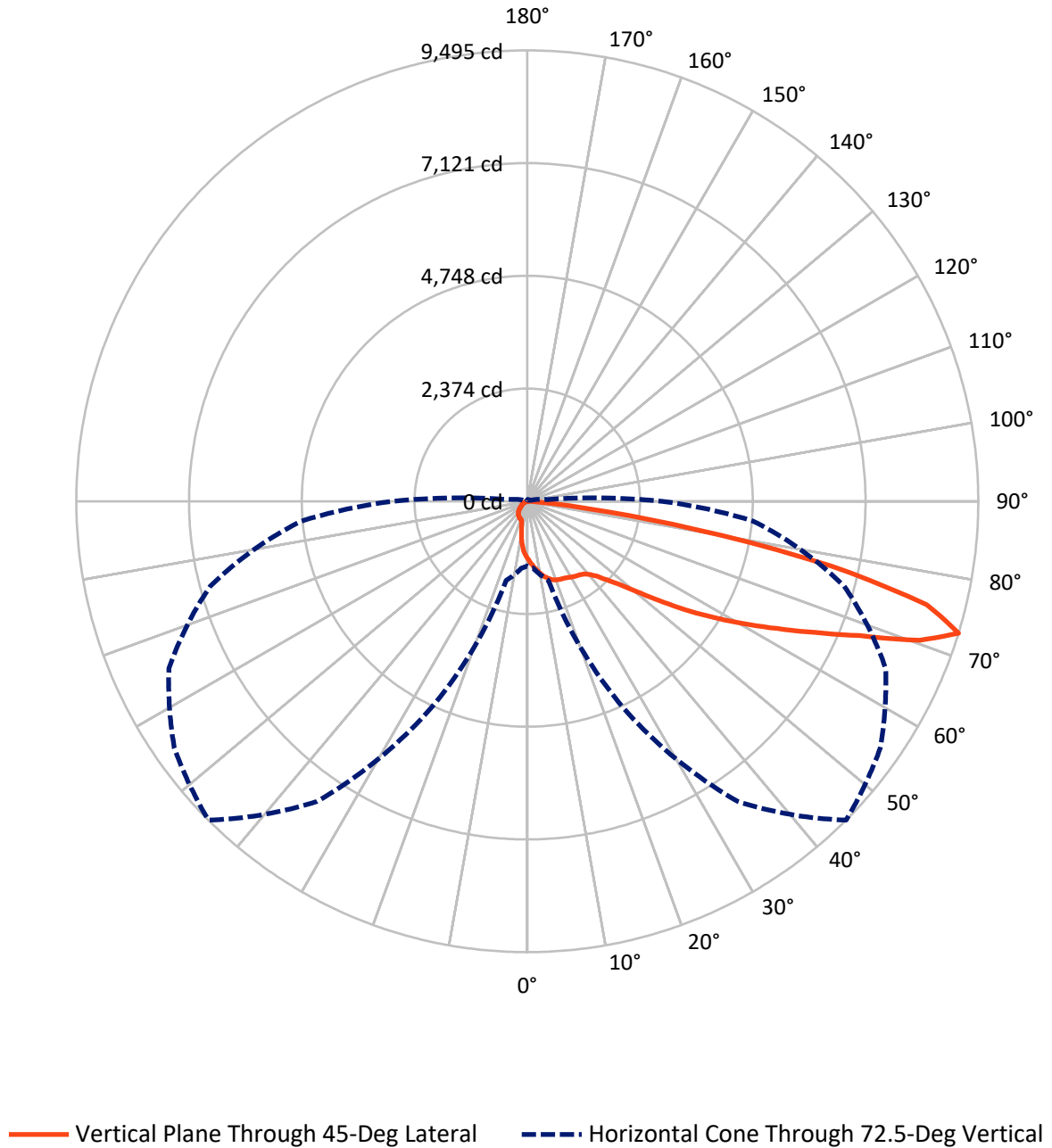
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1159.5	0.0	1159.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	9875.5	0.0	9875.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	11035.0	0.0	11035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.9	1.0
10°-20°	332.9	3.0
20°-30°	546.7	5.0
30°-40°	775.3	7.0
40°-50°	1281.5	11.6
50°-60°	2302.0	20.9
60°-70°	3196.5	29.0
70°-80°	2318.6	21.0
80°-90°	167.6	1.5
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°	11035.0	100.0
0°-180°	11035.0	100.0

**Coefficient of Utilization**



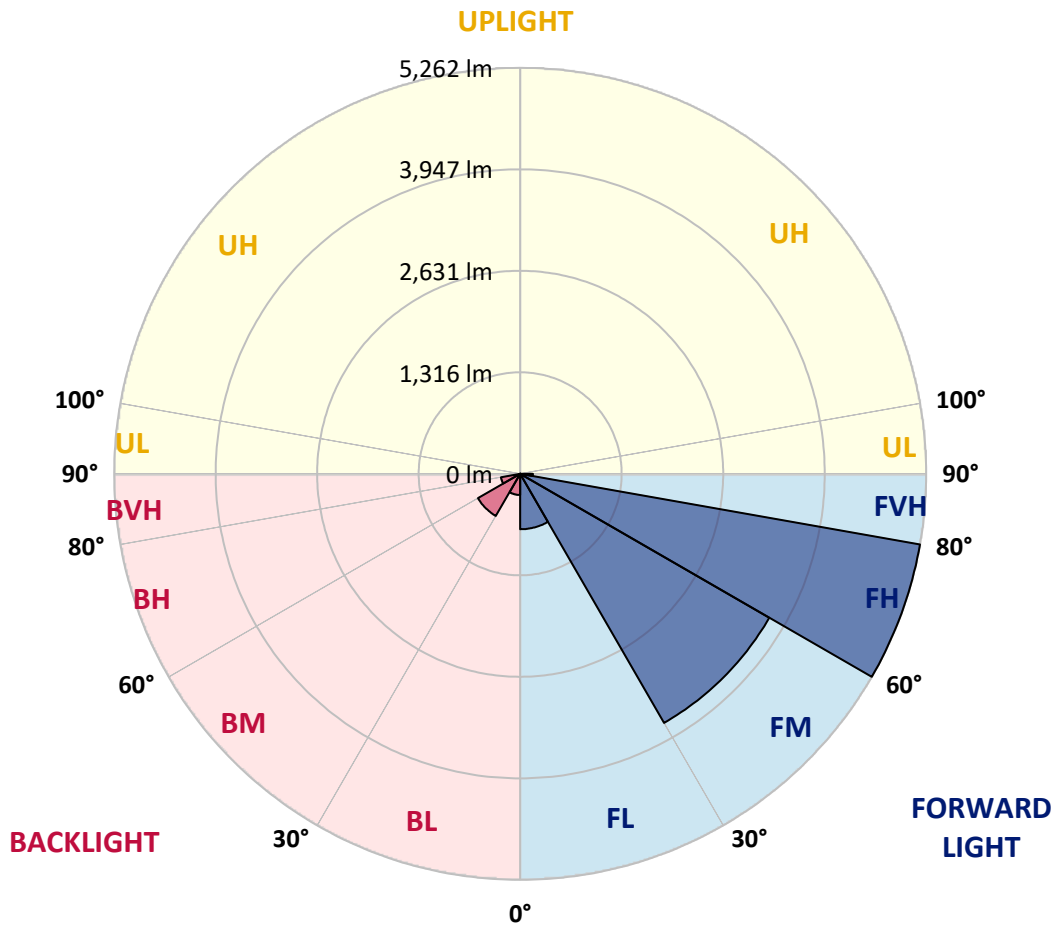
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.8	6.5			
FM (30°-60°)	3728.2	33.8			
FH (60°-80°)	5262.3	47.7			G3/7500
FVH (80°-90°)	166.2	1.5			G2/225
BL (0°-30°)	274.6	2.5	B1/500		
BM (30°-60°)	630.6	5.7	B1/1000		
BH (60°-80°)	252.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9
2.5°	1320.4	1322.6	1321.1	1312.1	1297.0	1288.7	1284.2	1269.2	1259.4	1242.0
5°	1441.7	1450.7	1445.4	1427.3	1398.7	1378.4	1372.4	1341.5	1313.6	1281.2
7.5°	1570.5	1575.0	1565.2	1541.8	1503.4	1468.8	1463.5	1420.6	1376.1	1326.4
10°	1681.9	1687.2	1672.1	1638.2	1594.6	1551.6	1544.1	1496.6	1443.9	1382.9
12.5°	1775.3	1780.6	1761.0	1720.3	1672.1	1627.7	1620.2	1570.5	1512.5	1444.7
15°	1846.1	1855.9	1829.6	1785.9	1733.9	1689.5	1685.7	1636.7	1580.2	1504.9
17.5°	1887.6	1897.3	1872.5	1819.8	1775.3	1737.7	1733.1	1692.5	1639.7	1567.4
20°	1894.3	1903.4	1877.0	1831.1	1794.2	1764.0	1761.8	1732.4	1694.0	1624.7
22.5°	1874.0	1885.3	1861.2	1824.3	1798.7	1782.9	1779.8	1763.3	1741.4	1682.7
25°	1852.9	1861.9	1843.9	1811.5	1797.9	1796.4	1798.7	1795.7	1791.1	1741.4
27.5°	1851.4	1861.2	1840.9	1810.0	1802.4	1818.3	1820.5	1834.8	1838.6	1794.9
30°	1864.2	1871.0	1851.4	1819.0	1815.2	1851.4	1852.2	1877.8	1883.8	1840.1
32.5°	1892.1	1899.6	1880.0	1832.6	1827.3	1877.8	1880.0	1913.9	1923.7	1888.3
35°	1957.6	1966.6	1944.0	1870.2	1851.4	1902.6	1909.4	1949.3	1968.9	1939.5
37.5°	2121.0	2094.7	2063.8	1946.3	1906.4	1941.8	1953.1	1999.8	2034.4	2000.5
40°	2527.0	2444.2	2347.8	2075.9	2002.8	2025.4	2034.4	2081.1	2128.6	2095.4
42.5°	3136.4	3038.5	2883.3	2374.1	2148.2	2159.5	2166.2	2206.9	2274.0	2247.6
45°	3679.4	3644.0	3485.9	2883.3	2420.1	2364.3	2372.6	2393.7	2492.4	2482.6
47.5°	4096.7	4076.4	3954.4	3467.8	2879.5	2615.2	2638.5	2648.3	2790.7	2825.3
50°	4417.6	4410.1	4300.8	3987.5	3479.8	2985.0	2993.3	2972.2	3185.3	3271.2
52.5°	4720.4	4746.0	4665.4	4470.3	4120.8	3469.3	3467.8	3368.4	3656.1	3785.7
55°	4993.8	5002.8	5011.1	4962.9	4765.6	4020.7	4006.3	3843.6	4202.2	4336.3
57.5°	5250.7	5254.4	5328.2	5426.9	5436.7	4612.7	4586.3	4391.2	4798.7	4894.4
60°	5423.1	5440.5	5596.4	5870.5	5990.3	5223.5	5209.2	5010.4	5405.8	5450.3
62.5°	5174.6	5280.0	5673.2	6217.0	6513.0	5900.7	5893.9	5707.1	6044.5	6008.4
65°	4188.6	4367.1	5058.6	6451.3	7026.0	6656.9	6666.7	6467.8	6700.6	6583.1
67.5°	2930.0	3118.3	3936.3	6470.1	7599.2	7544.9	7601.4	7289.6	7397.3	7133.7
70°	2026.1	2123.3	2655.8	6064.9	8045.8	8768.2	8766.7	8298.9	8090.3	7384.5
72.5°	1362.6	1413.0	1724.9	4811.5	7717.4	9495.0	9451.3	9070.2	8323.8	6906.2
75°	574.7	611.6	798.4	2704.0	6105.5	8686.8	8568.6	8015.7	7395.8	5438.2
77.5°	182.3	198.1	314.8	967.9	3363.1	6529.6	6404.6	5005.9	4956.9	2728.1
80°	86.6	100.9	177.0	388.7	1323.4	3551.4	3534.1	2270.9	2132.3	736.6
82.5°	37.7	44.4	97.9	207.9	592.0	1266.9	1292.5	772.8	639.5	279.4
85°	12.1	15.8	45.2	95.7	250.1	314.8	311.1	183.8	257.6	152.1
87.5°	0.0	0.0	15.1	21.8	25.6	18.1	20.3	15.8	71.6	42.2
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°
1208.9	0°	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9	1208.9
1224.0	2.5°	1214.9	1202.9	1181.8	1162.2	1144.9	1127.6	1117.0	1102.0	1100.4	1100.4
1243.6	5°	1223.2	1203.6	1166.0	1126.1	1080.1	1036.4	992.7	950.6	937.0	927.2
1275.2	7.5°	1247.3	1216.4	1156.9	1080.9	993.5	897.8	830.8	758.5	730.6	715.6
1317.4	10°	1282.0	1239.8	1149.4	1016.1	874.5	744.2	648.5	570.2	540.1	527.2
1363.3	12.5°	1320.4	1268.4	1135.8	935.5	744.2	588.3	494.9	458.7	454.2	454.2
1418.3	15°	1366.3	1303.1	1112.5	840.6	607.8	465.5	432.3	433.9	438.4	441.4
1471.8	17.5°	1413.8	1340.0	1075.6	734.4	487.3	418.8	419.5	421.8	425.6	428.6
1529.8	20°	1465.0	1376.9	1026.6	621.4	418.0	405.2	407.5	409.7	412.8	414.3
1584.0	22.5°	1520.0	1411.5	968.6	510.7	394.7	393.9	394.7	396.9	400.7	400.7
1647.3	25°	1578.7	1449.9	902.3	430.1	382.6	382.6	384.1	385.6	388.7	388.7
1708.3	27.5°	1639.0	1485.3	832.3	387.9	372.1	371.3	371.3	373.6	375.1	375.9
1768.5	30°	1705.3	1526.8	762.3	378.9	363.8	360.0	357.8	359.3	360.8	361.5
1831.8	32.5°	1773.1	1566.7	699.7	382.6	355.5	348.7	341.2	339.7	339.7	342.7
1897.3	35°	1848.4	1610.4	651.5	395.4	351.0	332.2	320.1	313.3	314.1	318.6
1975.7	37.5°	1938.8	1663.1	616.1	406.7	348.0	313.3	293.8	285.5	280.2	285.5
2083.4	40°	2057.0	1740.7	590.5	415.8	344.2	291.5	265.1	251.6	241.8	244.8
2250.6	42.5°	2231.0	1862.7	580.7	416.5	335.9	265.9	235.8	217.7	203.4	204.1
2502.2	45°	2475.1	2055.5	631.2	406.7	317.9	238.0	204.9	180.8	171.7	169.5
2878.0	47.5°	2809.5	2336.5	747.9	386.4	291.5	210.9	174.7	154.4	147.6	143.9
3371.4	50°	3257.6	2697.3	877.5	363.8	265.1	185.3	149.9	137.1	132.6	128.8
3956.6	52.5°	3777.4	3063.3	983.7	341.2	238.8	162.7	134.1	126.5	122.8	119.8
4521.5	55°	4254.2	3315.6	977.7	317.1	213.2	144.6	122.8	118.3	113.7	110.7
5008.1	57.5°	4550.9	3351.0	805.9	290.7	183.8	130.3	112.2	109.2	103.9	100.2
5429.2	60°	4687.2	3149.2	564.9	256.1	154.4	116.7	100.9	99.4	92.6	87.4
5827.6	62.5°	4712.1	2774.1	376.6	213.2	128.8	103.9	89.6	87.4	78.3	69.3
6151.5	65°	4611.2	2237.8	260.6	166.5	110.0	90.4	76.8	72.3	62.5	53.5
6228.3	67.5°	4291.8	1571.2	181.5	119.8	93.4	71.6	61.0	59.5	52.0	44.4
5836.7	70°	3706.6	895.6	121.3	89.6	73.8	49.0	48.2	49.7	42.2	36.2
4768.6	72.5°	2841.9	409.7	75.3	65.5	50.5	33.1	38.4	39.2	32.4	27.1
2975.2	75°	1672.9	175.5	47.5	42.2	25.6	21.8	27.9	28.6	21.8	17.3
1087.6	77.5°	569.4	66.3	30.1	24.9	12.8	12.1	18.1	18.1	12.1	6.8
218.4	80°	129.6	24.9	15.1	9.8	6.0	5.3	6.0	5.3	3.0	0.8
67.0	82.5°	36.9	9.8	6.0	3.8	2.3	2.3	0.8	0.0	0.0	0.0
23.3	85°	10.5	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	4.5	0.8	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

180°
1208.9
1104.2
931.7
717.8
527.2
454.2
441.4
428.6
415.0
402.2
389.4
376.6
363.0
345.0
320.9
284.0
243.3
201.1
166.5
141.6
128.0
119.0
109.2
99.4
85.9
64.8
50.5
42.2
33.1
24.1
15.1
5.3
0.0
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