

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: P947220

Luminaire Tested: **GALN-SB2C-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11927 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

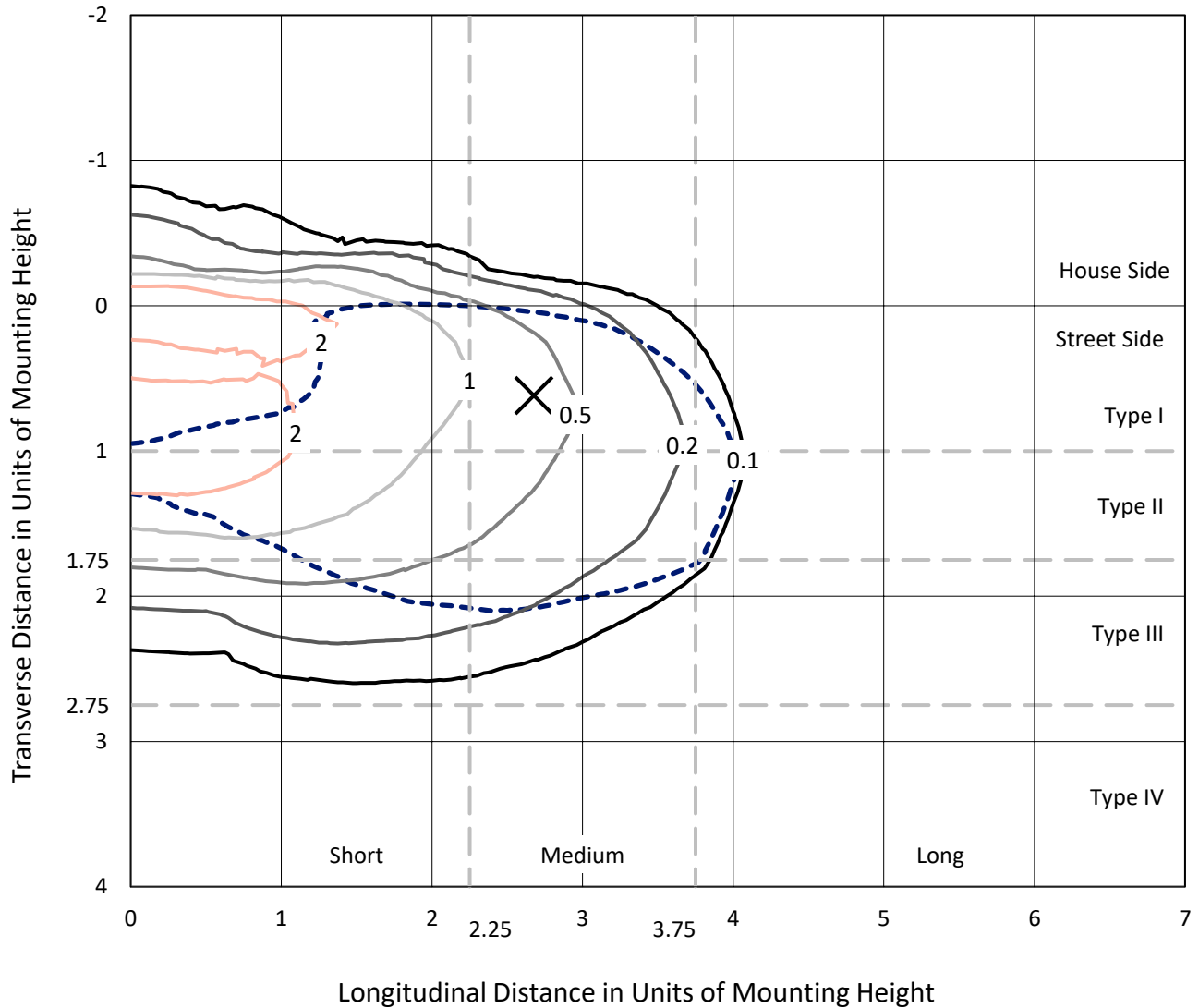
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947220
 CATALOG NUMBER: GALN-SB2C-850-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

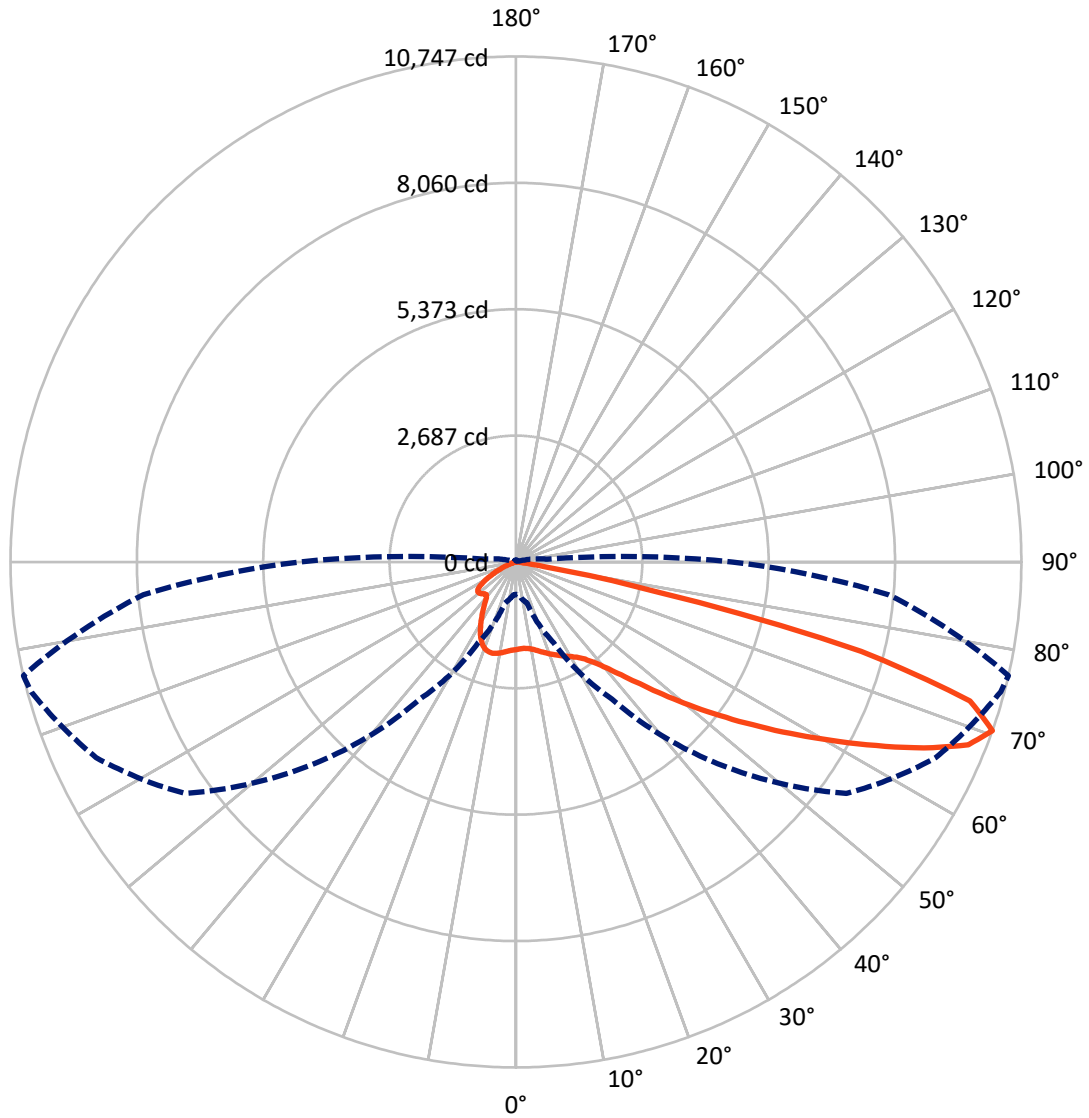
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P947220
CATALOG NUMBER: GALN-SB2C-850-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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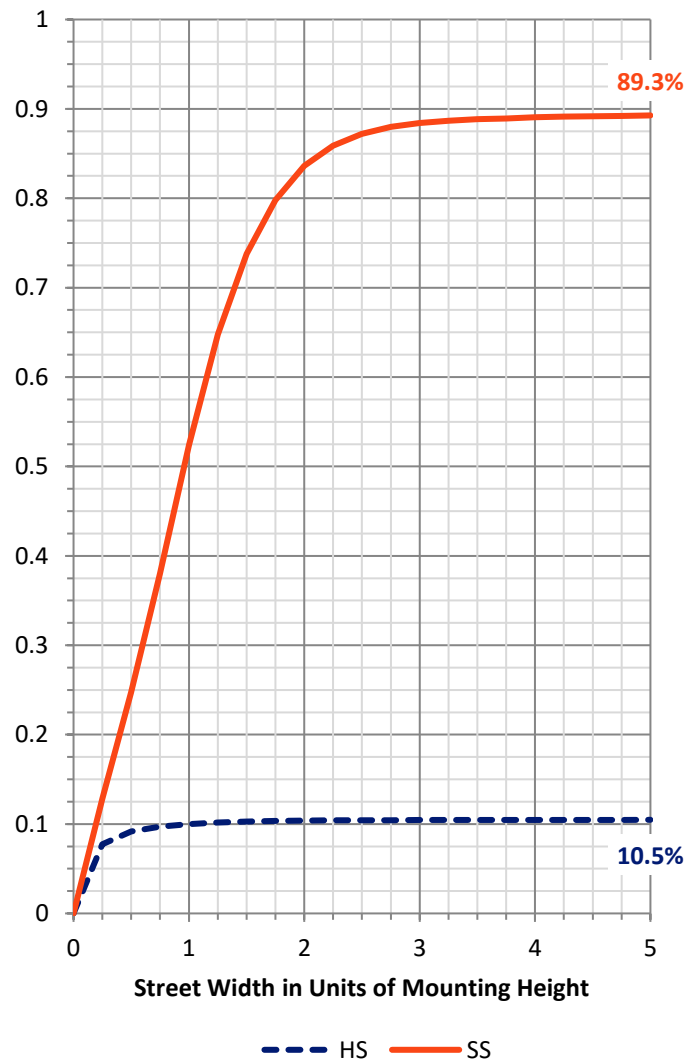
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1257.3	0.0	1257.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10669.7	0.0	10669.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	11927.0	0.0	11927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	1.3
10°-20°	380.6	3.2
20°-30°	588.7	4.9
30°-40°	1068.3	9.0
40°-50°	2016.5	16.9
50°-60°	2913.6	24.4
60°-70°	3101.5	26.0
70°-80°	1643.6	13.8
80°-90°	54.0	0.5
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°	11927.0	100.0
0°-180°	11927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947220

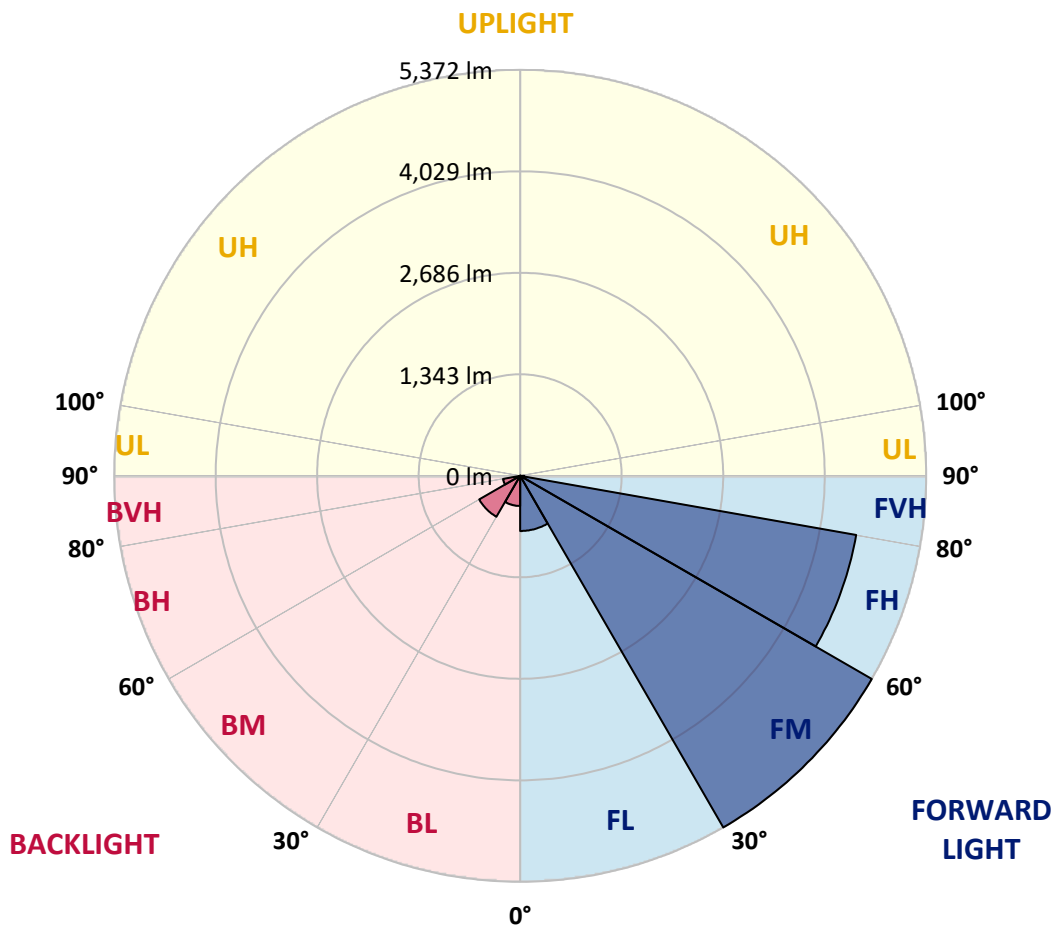
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.2	6.1			
FM (30°-60°)	5372.5	45.0			
FH (60°-80°)	4514.5	37.9			G2/5000
FVH (80°-90°)	52.5	0.4			G1/100
BL (0°-30°)	399.5	3.3	B1/500		
BM (30°-60°)	625.9	5.2	B1/1000		
BH (60°-80°)	230.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type III Medium



REPORT NUMBER: P947220
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4
2.5°	1746.7	1762.5	1760.2	1770.8	1774.5	1789.6	1804.7	1825.0	1847.6	1846.8
5°	1648.0	1663.8	1667.6	1681.9	1700.0	1723.3	1754.2	1794.9	1837.0	1843.8
7.5°	1531.2	1547.8	1557.6	1586.2	1619.4	1667.6	1718.0	1777.5	1847.6	1857.4
10°	1414.5	1429.6	1442.4	1483.0	1535.8	1607.3	1689.4	1775.3	1869.4	1883.7
12.5°	1342.2	1356.5	1370.8	1406.2	1471.7	1559.1	1670.6	1785.8	1905.6	1925.9
15°	1316.6	1329.4	1340.7	1372.3	1433.3	1532.8	1666.8	1807.7	1951.5	1978.6
17.5°	1320.4	1327.1	1334.7	1358.8	1418.3	1520.7	1673.6	1845.3	2005.8	2029.9
20°	1342.2	1346.0	1346.7	1363.3	1416.0	1519.2	1687.2	1881.5	2057.0	2089.4
22.5°	1370.1	1371.6	1370.1	1381.4	1430.3	1530.5	1705.2	1925.2	2114.2	2144.4
25°	1500.4	1471.7	1435.6	1413.8	1454.4	1552.3	1732.4	1983.9	2176.7	2206.1
27.5°	1904.8	1822.7	1693.2	1547.8	1504.1	1584.0	1770.0	2043.4	2240.0	2266.4
30°	2561.6	2453.9	2234.0	1906.3	1663.8	1650.3	1819.0	2102.9	2307.0	2335.7
32.5°	3219.9	3193.6	2939.7	2486.3	2023.1	1797.9	1900.3	2183.5	2395.9	2418.5
35°	3885.7	3832.3	3624.4	3176.2	2576.7	2098.4	2035.9	2289.0	2512.7	2538.3
37.5°	4395.7	4363.3	4234.5	3865.4	3233.5	2562.4	2267.9	2452.4	2682.1	2710.8
40°	4846.1	4831.0	4787.3	4544.0	3967.8	3169.5	2628.7	2705.5	2917.1	2951.0
42.5°	5200.1	5235.5	5260.3	5192.5	4724.8	3862.4	3113.7	3061.0	3244.8	3279.4
45°	5562.4	5574.4	5674.6	5772.5	5476.5	4587.0	3660.5	3477.5	3652.3	3695.2
47.5°	5795.1	5843.3	6019.6	6192.0	6108.4	5305.5	4248.0	3969.3	4124.5	4205.1
50°	5812.4	5903.6	6146.1	6446.6	6568.6	5989.4	4886.7	4529.7	4694.7	4783.6
52.5°	5523.9	5665.5	6041.4	6481.3	6817.2	6568.6	5547.3	5090.1	5301.8	5417.7
55°	4235.2	4420.5	5647.5	6293.0	6827.0	7007.7	6190.5	5673.8	5978.1	6109.2
57.5°	3689.9	3783.3	4440.1	5966.1	6645.5	7184.7	6772.0	6229.7	6714.0	6876.7
60°	3070.0	3192.8	3723.8	5431.3	6399.2	7202.1	7285.7	6946.7	7511.6	7694.7
62.5°	2086.4	2219.7	2747.7	4512.4	6062.5	7193.8	7706.7	7684.9	8398.1	8594.7
65°	1292.5	1376.1	1724.1	3684.6	5591.7	7202.8	8147.3	8581.2	9333.6	9533.2
67.5°	1021.3	1059.7	1241.3	2829.0	4780.5	6999.5	8587.2	9424.0	10214.1	10372.3
70°	686.2	709.5	903.1	1896.6	3556.6	6061.0	8578.9	9847.3	10667.5	10746.6
72.5°	361.5	379.6	528.0	878.2	2148.1	4308.3	7231.4	9341.1	10216.4	10097.4
75°	180.8	210.9	355.5	445.9	917.4	2402.7	4490.6	7364.8	8041.1	7580.2
77.5°	137.1	165.7	293.7	293.7	319.4	808.9	1901.8	4016.8	3705.0	3085.1
80°	87.4	113.0	256.8	222.2	133.3	205.6	495.6	1125.3	787.1	598.8
82.5°	51.2	73.8	213.9	146.9	74.6	76.1	140.1	239.5	204.1	158.9
85°	20.3	48.2	146.9	58.0	29.4	18.8	42.2	51.2	42.2	31.6
87.5°	0.0	11.3	25.6	0.0	2.3	1.5	3.0	3.8	3.8	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947220
 CATALOG NUMBER: GALN-SB2C-850-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1860.4	0°	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4	1860.4
1861.9	2.5°	1868.7	1870.2	1874.7	1875.5	1864.9	1851.4	1846.1	1843.8	1834.8	1834.0
1874.0	5°	1891.3	1898.1	1891.3	1871.7	1825.0	1759.5	1709.8	1669.1	1632.2	1620.9
1915.4	7.5°	1936.5	1943.2	1922.9	1846.1	1728.6	1598.3	1480.8	1397.9	1323.4	1295.5
1965.8	10°	2001.2	2010.3	1946.3	1791.1	1583.2	1373.8	1175.0	1034.9	925.7	881.2
2034.4	12.5°	2082.6	2086.4	1959.1	1707.5	1394.2	1095.1	813.5	663.6	566.4	530.3
2117.2	15°	2172.2	2166.9	1960.6	1593.8	1136.6	774.3	531.0	436.1	396.9	384.9
2200.1	17.5°	2266.4	2244.5	1930.4	1429.6	854.1	529.5	393.9	371.3	364.5	361.5
2282.2	20°	2359.0	2310.1	1875.5	1214.9	613.1	395.4	357.8	351.0	347.2	345.7
2365.0	22.5°	2443.4	2359.8	1781.3	965.6	445.1	349.5	338.2	332.2	325.4	322.4
2445.6	25°	2525.5	2388.4	1648.7	732.9	356.3	326.9	317.8	306.6	297.5	293.7
2532.2	27.5°	2605.3	2406.5	1483.0	542.3	317.8	305.8	289.2	273.4	266.6	265.1
2624.9	30°	2690.4	2412.5	1294.7	404.5	294.5	279.4	255.3	237.3	233.5	234.2
2749.9	32.5°	2794.4	2421.5	1104.9	331.4	274.9	247.8	219.2	200.4	197.3	200.4
2932.2	35°	2918.6	2439.6	921.9	305.0	257.6	215.4	184.5	168.7	165.7	168.0
3165.7	37.5°	3087.4	2469.0	750.9	299.8	243.3	188.3	155.2	142.4	142.4	143.1
3451.9	40°	3311.8	2547.3	598.0	296.0	235.8	168.0	131.1	125.8	128.0	129.5
3816.4	42.5°	3585.2	2713.8	494.9	291.5	227.5	158.9	119.0	116.7	120.5	122.0
4253.3	45°	3891.8	2924.7	458.7	284.0	219.9	165.0	113.7	110.7	115.2	116.0
4742.9	47.5°	4208.9	3131.0	454.2	275.7	212.4	174.0	112.2	105.4	110.7	111.5
5265.6	50°	4529.7	3265.9	458.7	262.9	200.4	174.0	113.0	100.2	104.7	107.0
5807.9	52.5°	4852.8	3327.6	455.7	235.0	179.3	163.4	113.0	95.7	100.2	101.7
6393.9	55°	5166.2	3315.6	409.7	193.6	152.1	144.6	110.0	91.9	94.9	95.7
6947.5	57.5°	5414.0	3147.6	324.6	150.6	123.5	120.5	100.2	87.4	89.6	88.9
7455.1	60°	5543.5	2778.5	232.0	116.0	97.2	94.9	88.1	81.3	82.9	79.1
7885.2	62.5°	5545.0	2290.5	155.2	91.9	77.6	75.3	75.3	73.1	71.6	64.0
8218.1	65°	5426.8	1748.9	103.2	73.1	62.5	58.7	63.3	62.5	57.2	46.7
8319.8	67.5°	5158.6	1146.4	78.3	57.2	48.2	45.9	50.5	52.7	49.0	39.2
7949.2	70°	4607.3	667.3	64.8	44.4	36.2	33.9	40.7	45.2	40.7	31.6
6794.6	72.5°	3827.0	360.0	52.7	33.1	24.9	22.6	32.4	36.9	32.4	23.3
4359.5	75°	2483.3	192.8	40.7	21.8	12.8	14.3	24.1	27.1	22.6	15.1
1279.7	77.5°	833.8	85.1	25.6	10.5	6.0	6.0	14.3	16.6	10.5	5.3
232.7	80°	186.0	35.4	10.5	4.5	2.3	2.3	3.0	3.0	1.5	0.0
71.6	82.5°	61.0	14.3	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18.1	85°	23.3	5.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	9.0	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

<u>180°</u>
1860.4
1835.5
1614.1
1284.2
862.4
519.0
384.9
360.8
344.2
321.6
292.2
263.6
234.2
199.6
167.2
142.4
129.5
122.0
116.7
112.2
107.7
101.7
95.7
88.9
78.3
61.8
45.2
38.4
30.1
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