

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: P946839

Luminaire Tested: **GALN-SB2B-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946839
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-SB2B-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10971 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

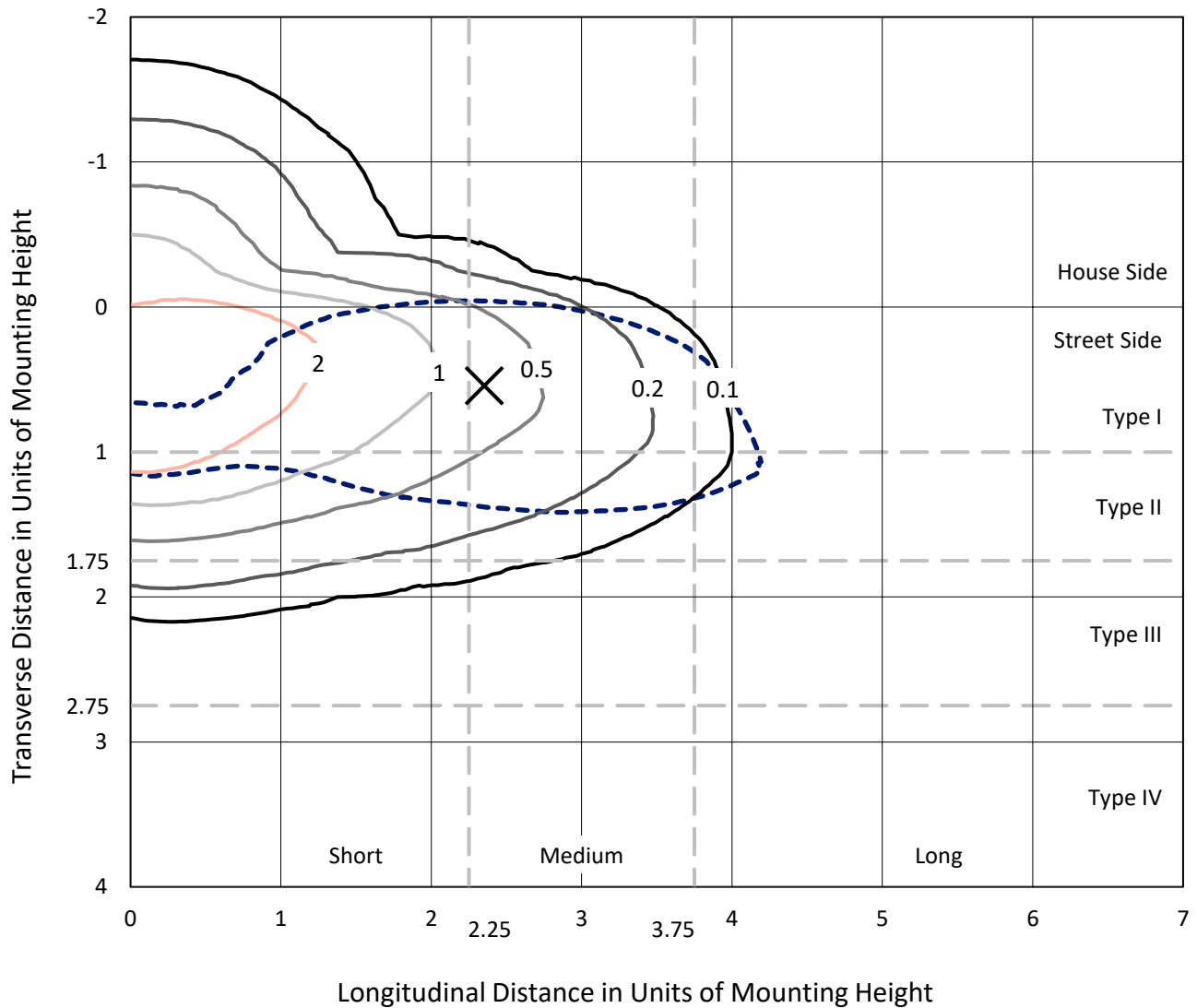
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946839
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Iso-Footcandle Lines of Horizontal Illumination

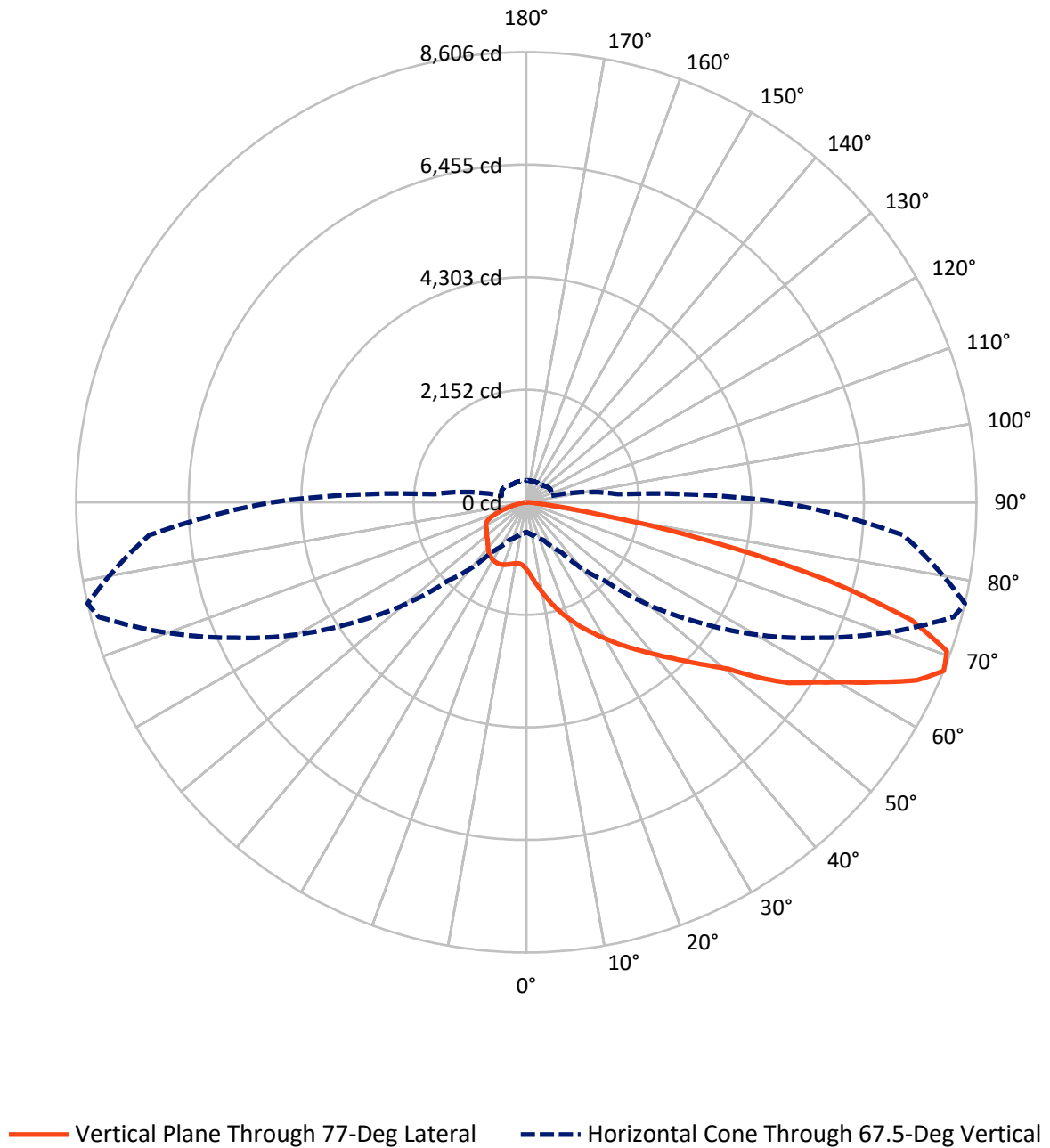
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

REPORT NUMBER: P946839
CATALOG NUMBER: GALN-SB2B-840-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.3	0.0	2075.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8895.7	0.0	8895.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	10971.0	0.0	10971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.3
10°-20°	495.7	4.5
20°-30°	935.9	8.5
30°-40°	1507.7	13.7
40°-50°	2062.3	18.8
50°-60°	2326.3	21.2
60°-70°	2171.3	19.8
70°-80°	1190.2	10.8
80°-90°	143.6	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°	10971.0	100.0
0°-180°	10971.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946839

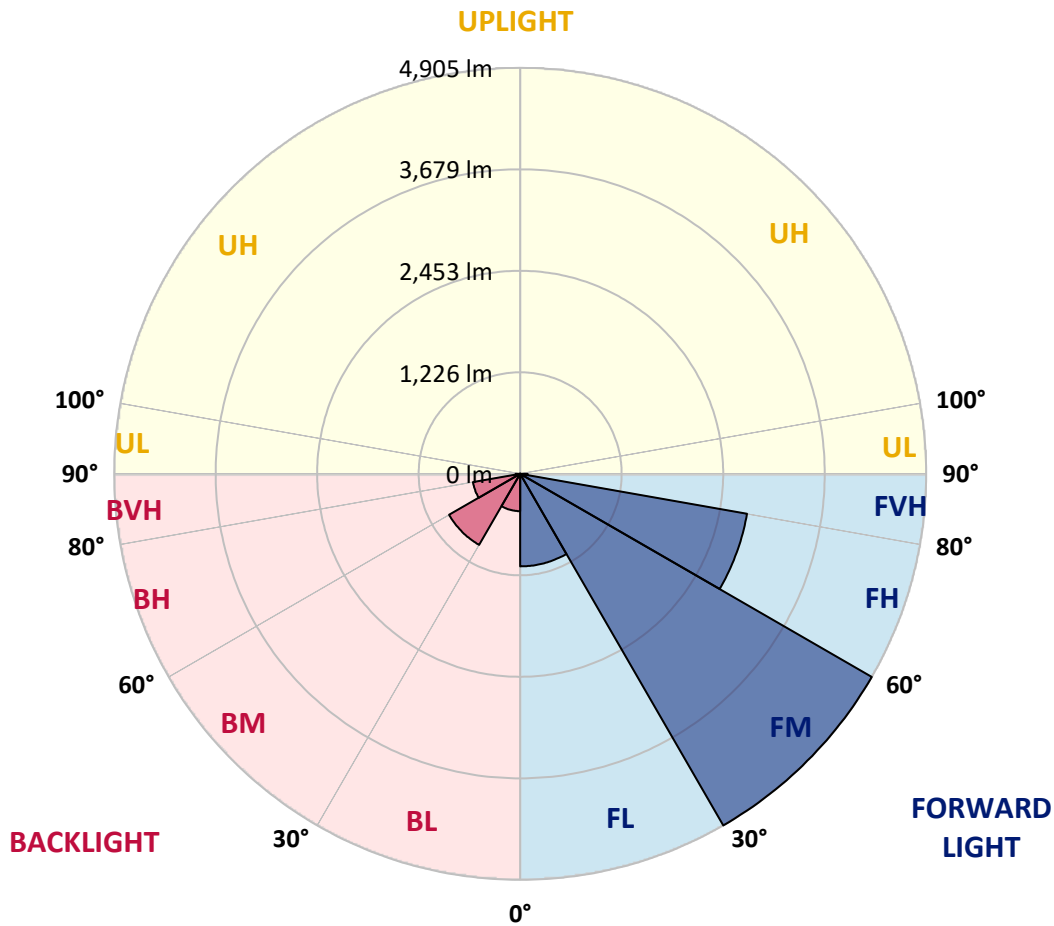
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.4	10.2			
FM (30°-60°)	4905.0	44.7			
FH (60°-80°)	2782.6	25.4			G2/5000
FVH (80°-90°)	89.8	0.8			G1/100
BL (0°-30°)	451.2	4.1	B1/500		
BM (30°-60°)	991.3	9.0	B1/1000		
BH (60°-80°)	579.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.8	0.5			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



REPORT NUMBER: P946839
 CATALOG NUMBER: GALN-SB2B-840-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
2.5°	1611.7	1623.1	1608.9	1608.9	1561.3	1536.4	1488.8	1452.6	1387.5	1376.2
5°	1905.1	1919.2	1899.4	1890.9	1834.9	1783.3	1703.5	1624.8	1508.7	1496.8
7.5°	2132.2	2150.3	2132.8	2123.7	2073.9	2016.1	1922.6	1812.8	1649.1	1625.9
10°	2317.4	2320.2	2314.5	2317.9	2278.9	2231.3	2135.6	2007.6	1803.2	1771.4
12.5°	2422.1	2435.2	2446.5	2466.9	2460.1	2430.6	2344.6	2191.6	1966.3	1925.5
15°	2471.4	2494.1	2519.5	2566.5	2604.5	2611.9	2546.2	2389.3	2132.2	2082.9
17.5°	2489.0	2510.5	2550.7	2618.7	2700.2	2755.1	2725.7	2581.3	2296.4	2239.8
20°	2577.9	2584.1	2608.5	2673.0	2761.4	2852.5	2874.6	2765.9	2458.9	2395.0
22.5°	2768.2	2755.7	2762.5	2791.9	2855.4	2943.7	2994.1	2929.0	2626.0	2552.4
25°	3082.5	3046.2	3010.0	2976.0	3008.3	3058.1	3115.3	3092.1	2801.0	2707.6
27.5°	3479.5	3435.3	3355.4	3243.9	3204.8	3222.3	3247.8	3243.3	2963.0	2868.4
30°	3870.2	3818.7	3723.5	3562.1	3459.1	3412.6	3393.4	3380.3	3139.1	3038.3
32.5°	4182.3	4141.5	4048.0	3867.4	3717.9	3638.6	3574.6	3528.2	3323.1	3222.3
35°	4455.2	4417.3	4310.2	4113.2	3950.6	3866.2	3782.4	3683.3	3514.6	3412.6
37.5°	4704.4	4666.5	4519.8	4314.8	4151.1	4092.8	4018.0	3849.8	3706.5	3610.3
40°	4861.8	4853.3	4716.3	4484.1	4314.2	4285.3	4260.4	4042.9	3919.5	3830.0
42.5°	4902.0	4920.7	4812.0	4621.1	4459.2	4436.0	4494.3	4261.5	4158.5	4073.0
45°	4805.2	4859.0	4787.6	4658.0	4562.3	4549.8	4701.6	4500.5	4422.9	4344.8
47.5°	4560.0	4651.2	4621.7	4603.6	4590.0	4643.8	4883.9	4754.2	4722.5	4654.6
50°	4065.0	4237.8	4289.3	4403.7	4535.1	4716.9	5049.9	5031.2	5072.5	5004.0
52.5°	3209.3	3447.2	3746.2	4032.7	4366.3	4692.5	5232.2	5428.7	5603.1	5565.8
55°	2649.2	2756.3	2986.2	3511.7	4039.0	4590.0	5314.3	5749.8	6129.8	6096.4
57.5°	2218.8	2314.5	2456.1	2895.0	3544.0	4357.2	5365.3	5945.8	6490.6	6487.2
60°	1757.3	1858.7	2003.6	2314.5	2965.8	3955.2	5354.0	6168.9	6951.0	6979.3
62.5°	1236.3	1347.8	1508.7	1798.6	2375.1	3434.1	5122.9	6330.3	7492.9	7570.0
65°	812.7	886.3	1007.5	1257.8	1769.7	2764.2	4681.7	6351.2	8072.9	8203.1
67.5°	569.7	598.0	669.4	805.3	1166.6	2119.7	3978.9	6134.3	8459.6	8606.3
70°	444.6	458.7	495.0	549.3	732.8	1425.4	3049.1	5570.3	8377.0	8529.9
72.5°	384.0	397.6	411.1	417.9	491.6	880.1	2065.4	4657.4	7598.3	7701.9
75°	348.3	351.7	363.0	360.7	374.9	570.8	1192.1	3393.4	5995.0	5959.4
77.5°	292.8	297.3	316.0	313.2	333.0	390.2	619.0	2189.9	3886.6	3644.3
80°	248.0	250.3	270.7	267.3	289.4	282.6	316.0	1116.2	1648.5	1396.5
82.5°	86.1	106.5	206.7	212.9	220.9	171.0	182.4	455.3	503.5	385.7
85°	41.9	44.7	105.3	149.5	148.9	86.1	88.9	162.5	158.6	124.6
87.5°	6.8	8.5	12.5	58.3	46.4	22.7	30.6	31.7	32.8	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946839
 CATALOG NUMBER: GALN-SB2B-840-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1287.2	0°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
1333.1	2.5°	1301.4	1273.1	1213.6	1158.7	1115.6	1074.3	1051.1	1031.3	1019.9	1017.7
1395.4	5°	1336.5	1278.2	1170.0	1078.8	1019.4	975.2	952.0	937.3	929.9	925.4
1479.2	7.5°	1386.9	1301.4	1147.4	1043.7	981.4	949.7	937.8	935.6	935.0	935.6
1580.6	10°	1456.6	1339.3	1145.1	1035.2	983.1	965.6	965.0	965.6	967.8	968.4
1691.0	12.5°	1531.9	1378.4	1154.2	1042.6	1004.6	995.0	993.3	992.8	994.5	995.6
1802.6	15°	1614.0	1430.0	1169.4	1058.4	1028.4	1018.2	1016.5	1013.1	1012.6	1012.0
1919.8	17.5°	1698.4	1480.9	1186.4	1075.4	1043.7	1029.6	1023.3	1015.4	1009.2	1007.5
2041.0	20°	1783.9	1531.3	1198.3	1083.9	1044.9	1025.0	1012.6	999.0	988.2	982.0
2163.3	22.5°	1875.1	1584.0	1205.7	1081.7	1034.7	1007.5	984.8	969.0	952.5	941.8
2286.8	25°	1964.0	1629.9	1205.1	1069.8	1014.8	980.3	951.4	931.0	908.4	897.0
2414.2	27.5°	2049.5	1671.2	1191.0	1048.8	986.5	948.0	913.5	889.1	867.0	856.3
2542.8	30°	2137.8	1705.7	1168.9	1018.2	953.1	910.6	872.7	851.7	831.9	821.7
2678.7	32.5°	2225.6	1737.5	1137.7	980.3	914.6	873.8	836.5	817.2	805.3	805.3
2824.8	35°	2318.5	1759.5	1096.4	936.1	873.8	834.8	805.3	794.0	792.8	786.0
2979.4	37.5°	2416.5	1773.7	1046.0	890.8	833.6	796.8	787.7	774.2	762.8	748.1
3149.3	40°	2519.5	1787.9	985.4	843.8	791.1	770.8	766.8	748.7	716.4	680.1
3341.8	42.5°	2644.7	1797.5	922.5	796.8	746.4	739.6	745.3	714.1	662.6	635.4
3574.0	45°	2789.7	1813.3	864.8	750.4	700.5	700.5	724.3	683.5	641.1	624.1
3839.1	47.5°	2977.7	1850.2	811.0	699.4	658.1	669.4	677.9	646.7	622.9	602.0
4161.9	50°	3249.5	1938.5	755.5	647.9	625.8	648.4	636.5	618.4	590.7	573.7
4674.9	52.5°	3587.1	1990.6	706.2	601.4	598.0	620.7	603.7	586.7	565.8	543.1
5064.0	55°	3817.0	2000.2	664.9	567.4	579.3	577.1	570.8	555.6	544.2	514.2
5448.0	57.5°	4074.1	2019.5	630.9	547.1	567.4	542.5	540.3	527.2	512.5	492.1
5916.3	60°	4381.6	2049.5	601.4	539.1	557.3	519.9	508.6	503.5	488.7	478.5
6479.8	62.5°	4716.9	2076.7	571.4	540.3	545.4	497.8	480.8	479.1	470.0	466.6
7008.7	65°	4945.6	2002.5	534.0	539.1	526.7	475.1	453.6	453.1	445.7	444.6
7238.1	67.5°	4865.8	1767.5	483.6	523.3	507.4	452.5	428.7	426.4	416.8	417.4
6998.5	70°	4466.0	1432.2	414.0	484.2	483.6	432.1	402.7	395.3	382.3	384.5
6085.1	72.5°	3716.2	1061.3	320.5	419.1	445.7	413.4	372.6	360.7	344.3	346.6
4492.0	75°	2683.8	721.5	233.3	318.8	387.9	391.3	343.2	322.8	303.0	306.4
2500.3	77.5°	1373.3	408.9	171.6	219.7	304.7	355.6	316.6	289.4	284.9	316.6
720.9	80°	448.0	205.0	118.9	154.0	199.9	291.1	277.5	246.3	245.2	252.6
151.2	82.5°	133.7	86.6	76.5	101.4	110.4	223.1	239.6	186.3	160.3	168.8
50.4	85°	45.9	41.9	43.6	50.4	52.7	130.8	167.6	123.5	116.7	128.6
11.3	87.5°	10.8	14.7	12.5	11.3	11.3	31.7	65.1	51.5	71.4	47.6
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°
1287.2
1017.7
924.8
937.3
969.0
996.2
1011.4
1009.2
984.3
942.4
897.0
855.7
821.2
805.9
784.3
745.8
675.1
636.0
626.9
601.4
572.0
538.6
514.8
485.3
481.4
466.6
444.0
417.4
386.8
346.0
307.5
312.0
216.9
174.4
126.9
45.9
0.0

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