

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: P945999

Luminaire Tested: **GALN-SB1D-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945999
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-SB1D-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10969 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

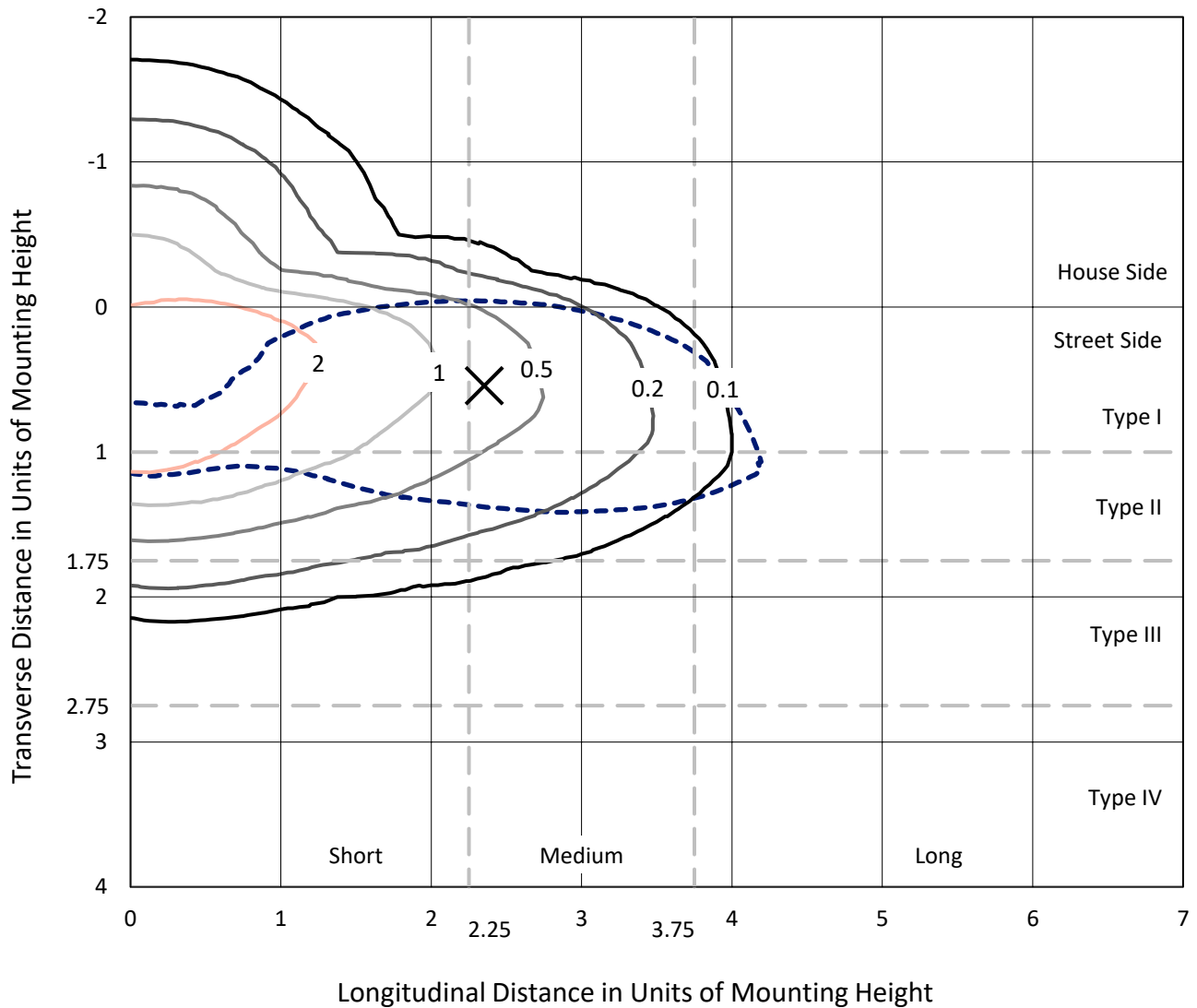
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

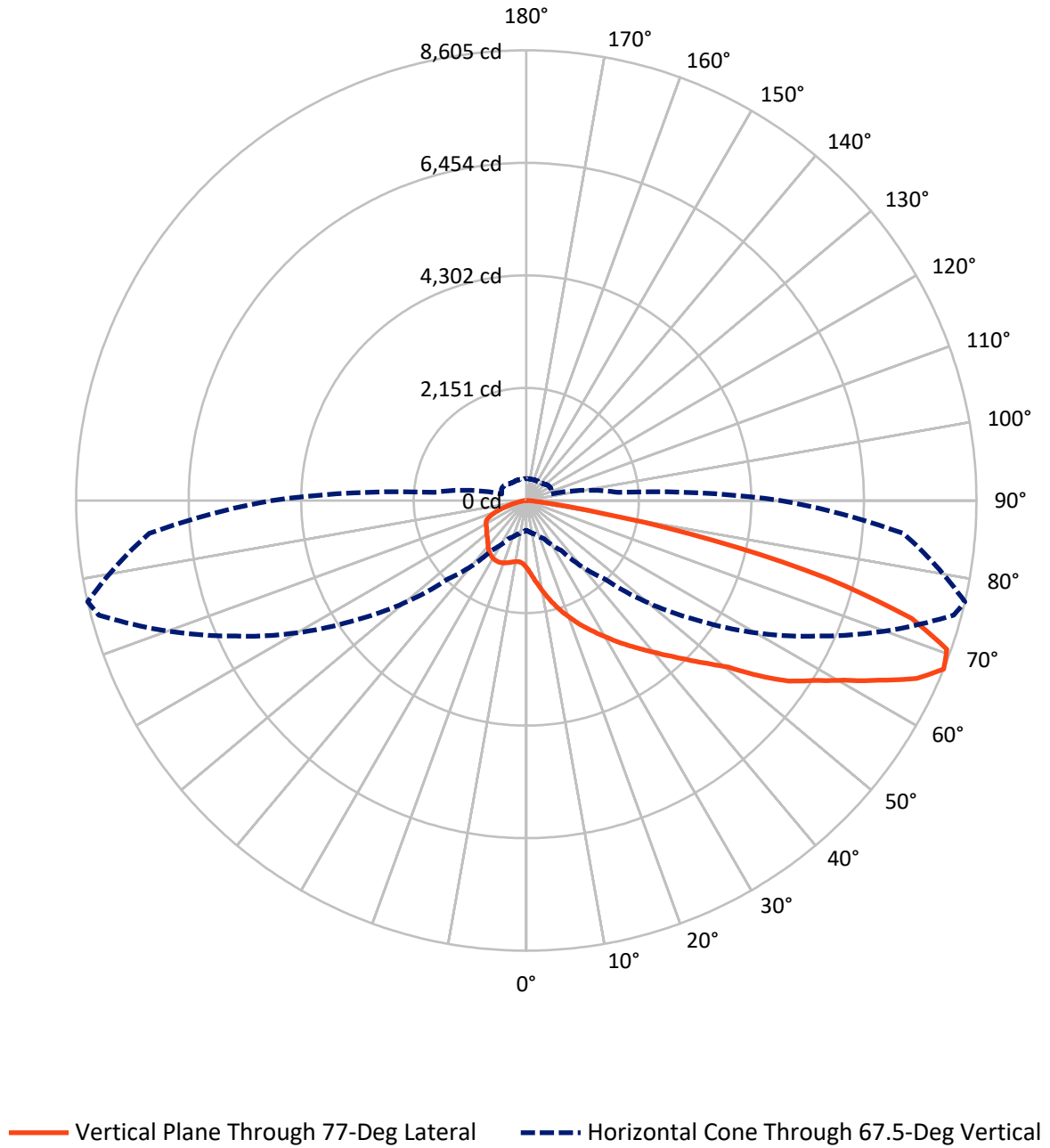
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2074.9	0.0	2074.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8894.1	0.0	8894.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	10969.0	0.0	10969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.3
10°-20°	495.6	4.5
20°-30°	935.7	8.5
30°-40°	1507.5	13.7
40°-50°	2061.9	18.8
50°-60°	2325.9	21.2
60°-70°	2170.9	19.8
70°-80°	1190.0	10.8
80°-90°	143.5	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°	10969.0	100.0
0°-180°	10969.0	100.0

Coefficient of Utilization



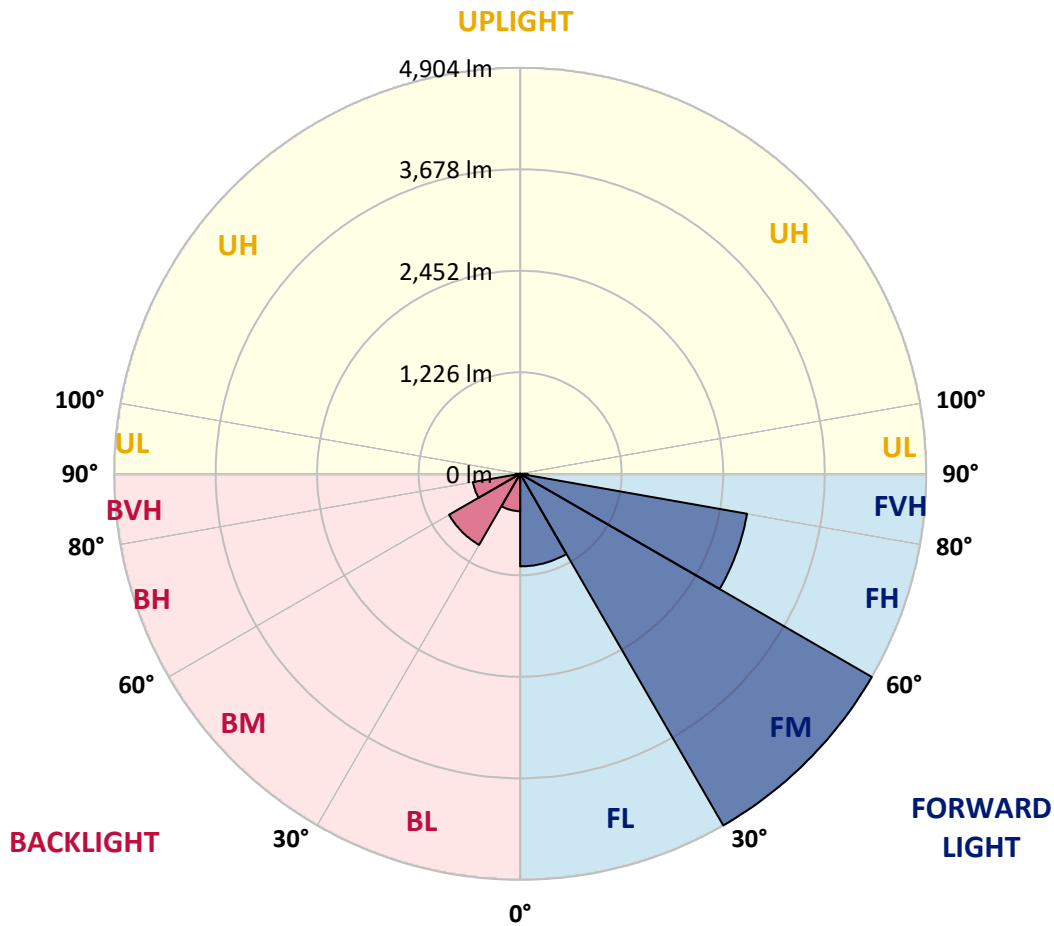
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.2	10.2			
FM (30°-60°)	4904.1	44.7			
FH (60°-80°)	2782.1	25.4			G2/5000
FVH (80°-90°)	89.8	0.8			G1/100
BL (0°-30°)	451.1	4.1	B1/500		
BM (30°-60°)	991.1	9.0	B1/1000		
BH (60°-80°)	578.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0
2.5°	1611.4	1622.8	1608.6	1608.6	1561.1	1536.1	1488.6	1452.3	1387.2	1375.9
5°	1904.7	1918.9	1899.1	1890.6	1834.5	1783.0	1703.2	1624.5	1508.4	1496.5
7.5°	2131.8	2149.9	2132.4	2123.3	2073.5	2015.7	1922.3	1812.5	1648.8	1625.6
10°	2316.9	2319.8	2314.1	2317.5	2278.4	2230.9	2135.2	2007.2	1802.8	1771.1
12.5°	2421.7	2434.7	2446.0	2466.4	2459.6	2430.2	2344.1	2191.2	1965.9	1925.1
15°	2471.0	2493.6	2519.1	2566.1	2604.0	2611.4	2545.7	2388.9	2131.8	2082.5
17.5°	2488.5	2510.0	2550.2	2618.2	2699.7	2754.6	2725.2	2580.8	2296.0	2239.4
20°	2577.4	2583.6	2608.0	2672.5	2760.9	2852.0	2874.1	2765.4	2458.5	2394.5
22.5°	2767.7	2755.2	2762.0	2791.4	2854.9	2943.2	2993.6	2928.5	2625.5	2551.9
25°	3081.9	3045.7	3009.4	2975.5	3007.7	3057.6	3114.7	3091.5	2800.5	2707.1
27.5°	3478.8	3434.7	3354.8	3243.3	3204.2	3221.8	3247.2	3242.7	2962.4	2867.9
30°	3869.5	3818.0	3722.9	3561.5	3458.4	3412.0	3392.8	3379.7	3138.5	3037.7
32.5°	4181.5	4140.7	4047.3	3866.7	3717.2	3637.9	3573.9	3527.5	3322.5	3221.8
35°	4454.4	4416.5	4309.5	4112.4	3949.9	3865.5	3781.7	3682.7	3513.9	3412.0
37.5°	4703.5	4665.6	4519.0	4314.0	4150.3	4092.0	4017.3	3849.1	3705.9	3609.6
40°	4860.9	4852.5	4715.4	4483.3	4313.4	4284.5	4259.6	4042.2	3918.8	3829.3
42.5°	4901.1	4919.8	4811.1	4620.3	4458.4	4435.2	4493.5	4260.8	4157.7	4072.2
45°	4804.3	4858.1	4786.8	4657.1	4561.4	4549.0	4700.7	4499.7	4422.1	4344.0
47.5°	4559.2	4650.3	4620.9	4602.8	4589.2	4643.0	4883.0	4753.4	4721.7	4653.7
50°	4064.3	4237.0	4288.5	4402.9	4534.2	4716.0	5048.9	5030.2	5071.6	5003.1
52.5°	3208.7	3446.5	3745.5	4032.0	4365.5	4691.6	5231.3	5427.7	5602.1	5564.8
55°	2648.7	2755.8	2985.6	3511.1	4038.2	4589.2	5313.4	5748.8	6128.7	6095.3
57.5°	2218.4	2314.1	2455.7	2894.5	3543.4	4356.5	5364.3	5944.7	6489.4	6486.0
60°	1757.0	1858.3	2003.3	2314.1	2965.3	3954.4	5353.0	6167.8	6949.7	6978.0
62.5°	1236.0	1347.6	1508.4	1798.3	2374.7	3433.5	5122.0	6329.1	7491.6	7568.6
65°	812.5	886.1	1007.3	1257.6	1769.4	2763.7	4680.9	6350.1	8071.4	8201.6
67.5°	569.6	597.9	669.3	805.2	1166.4	2119.3	3978.2	6133.2	8458.1	8604.8
70°	444.5	458.6	494.9	549.2	732.7	1425.2	3048.5	5569.3	8375.4	8528.3
72.5°	383.9	397.5	411.1	417.9	491.5	879.9	2065.0	4656.5	7596.9	7700.5
75°	348.2	351.6	362.9	360.7	374.8	570.7	1191.9	3392.8	5993.9	5958.3
77.5°	292.7	297.3	315.9	313.1	332.9	390.1	618.9	2189.5	3885.9	3643.6
80°	248.0	250.3	270.7	267.3	289.3	282.5	315.9	1116.0	1648.2	1396.3
82.5°	86.1	106.4	206.7	212.9	220.8	171.0	182.3	455.2	503.4	385.6
85°	41.9	44.7	105.3	149.5	148.9	86.1	88.9	162.5	158.5	124.6
87.5°	6.8	8.5	12.5	58.3	46.4	22.6	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1287.0	0°	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0	1287.0
1332.9	2.5°	1301.2	1272.8	1213.4	1158.5	1115.4	1074.1	1050.9	1031.1	1019.8	1017.5
1395.2	5°	1336.3	1277.9	1169.8	1078.6	1019.2	975.0	951.8	937.1	929.7	925.2
1479.0	7.5°	1386.7	1301.2	1147.1	1043.5	981.2	949.5	937.7	935.4	934.8	935.4
1580.3	10°	1456.3	1339.1	1144.9	1035.0	982.9	965.4	964.8	965.4	967.7	968.2
1690.7	12.5°	1531.6	1378.2	1153.9	1042.4	1004.5	994.8	993.1	992.6	994.3	995.4
1802.3	15°	1613.7	1429.7	1169.2	1058.3	1028.2	1018.1	1016.4	1013.0	1012.4	1011.8
1919.5	17.5°	1698.1	1480.6	1186.2	1075.2	1043.5	1029.4	1023.1	1015.2	1009.0	1007.3
2040.6	20°	1783.6	1531.0	1198.1	1083.7	1044.7	1024.8	1012.4	998.8	988.0	981.8
2162.9	22.5°	1874.7	1583.7	1205.5	1081.5	1034.5	1007.3	984.6	968.8	952.4	941.6
2286.4	25°	1963.6	1629.6	1204.9	1069.6	1014.7	980.1	951.2	930.9	908.2	896.9
2413.8	27.5°	2049.1	1670.9	1190.7	1048.6	986.3	947.8	913.3	889.0	866.9	856.1
2542.3	30°	2137.5	1705.4	1168.7	1018.1	952.9	910.5	872.5	851.6	831.8	821.6
2678.2	32.5°	2225.2	1737.1	1137.5	980.1	914.4	873.7	836.3	817.0	805.2	805.2
2824.3	35°	2318.1	1759.2	1096.2	936.0	873.7	834.6	805.2	793.8	792.7	785.9
2978.9	37.5°	2416.0	1773.4	1045.8	890.7	833.5	796.7	787.6	774.0	762.7	748.0
3148.7	40°	2519.1	1787.5	985.2	843.7	791.0	770.6	766.7	748.5	716.3	680.0
3341.2	42.5°	2644.2	1797.2	922.4	796.7	746.3	739.5	745.1	714.0	662.5	635.3
3573.4	45°	2789.2	1813.0	864.6	750.2	700.4	700.4	724.2	683.4	641.0	624.0
3838.4	47.5°	2977.2	1849.8	810.8	699.3	657.9	669.3	677.8	646.6	622.8	601.9
4161.1	50°	3248.9	1938.2	755.3	647.7	625.7	648.3	636.4	618.3	590.6	573.6
4674.1	52.5°	3586.4	1990.2	706.1	601.3	597.9	620.6	603.6	586.6	565.6	543.0
5063.1	55°	3816.3	1999.9	664.7	567.3	579.2	577.0	570.7	555.5	544.1	514.1
5447.0	57.5°	4073.3	2019.1	630.8	547.0	567.3	542.4	540.2	527.1	512.4	492.0
5915.2	60°	4380.8	2049.1	601.3	539.0	557.2	519.8	508.5	503.4	488.6	478.5
6478.6	62.5°	4716.0	2076.3	571.3	540.2	545.3	497.7	480.7	479.0	470.0	466.6
7007.5	65°	4944.7	2002.1	533.9	539.0	526.6	475.1	453.5	453.0	445.6	444.5
7236.8	67.5°	4864.9	1767.2	483.5	523.2	507.3	452.4	428.6	426.4	416.7	417.3
6997.3	70°	4465.2	1432.0	413.9	484.1	483.5	432.0	402.6	395.2	382.2	384.5
6084.0	72.5°	3715.5	1061.1	320.5	419.0	445.6	413.3	372.6	360.7	344.3	346.5
4491.2	75°	2683.3	721.4	233.3	318.8	387.9	391.3	343.1	322.7	302.9	306.3
2499.8	77.5°	1373.1	408.8	171.6	219.7	304.6	355.6	316.5	289.3	284.8	316.5
720.8	80°	447.9	205.0	118.9	154.0	199.9	291.0	277.4	246.3	245.2	252.5
151.2	82.5°	133.6	86.6	76.4	101.4	110.4	223.1	239.5	186.3	160.2	168.7
50.4	85°	45.9	41.9	43.6	50.4	52.7	130.8	167.6	123.4	116.6	128.5
11.3	87.5°	10.8	14.7	12.5	11.3	11.3	31.7	65.1	51.5	71.3	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°
1287.0
1017.5
924.6
937.1
968.8
996.0
1011.3
1009.0
984.1
942.2
896.9
855.5
821.0
805.7
784.2
745.7
674.9
635.9
626.8
601.3
571.9
538.5
514.7
485.2
481.3
466.6
443.9
417.3
386.7
346.0
307.5
312.0
216.9
174.4
126.8
45.9
0.0

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