

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: P947595

Luminaire Tested: **GALN-SB2D-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947595
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-SB2D-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12617 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

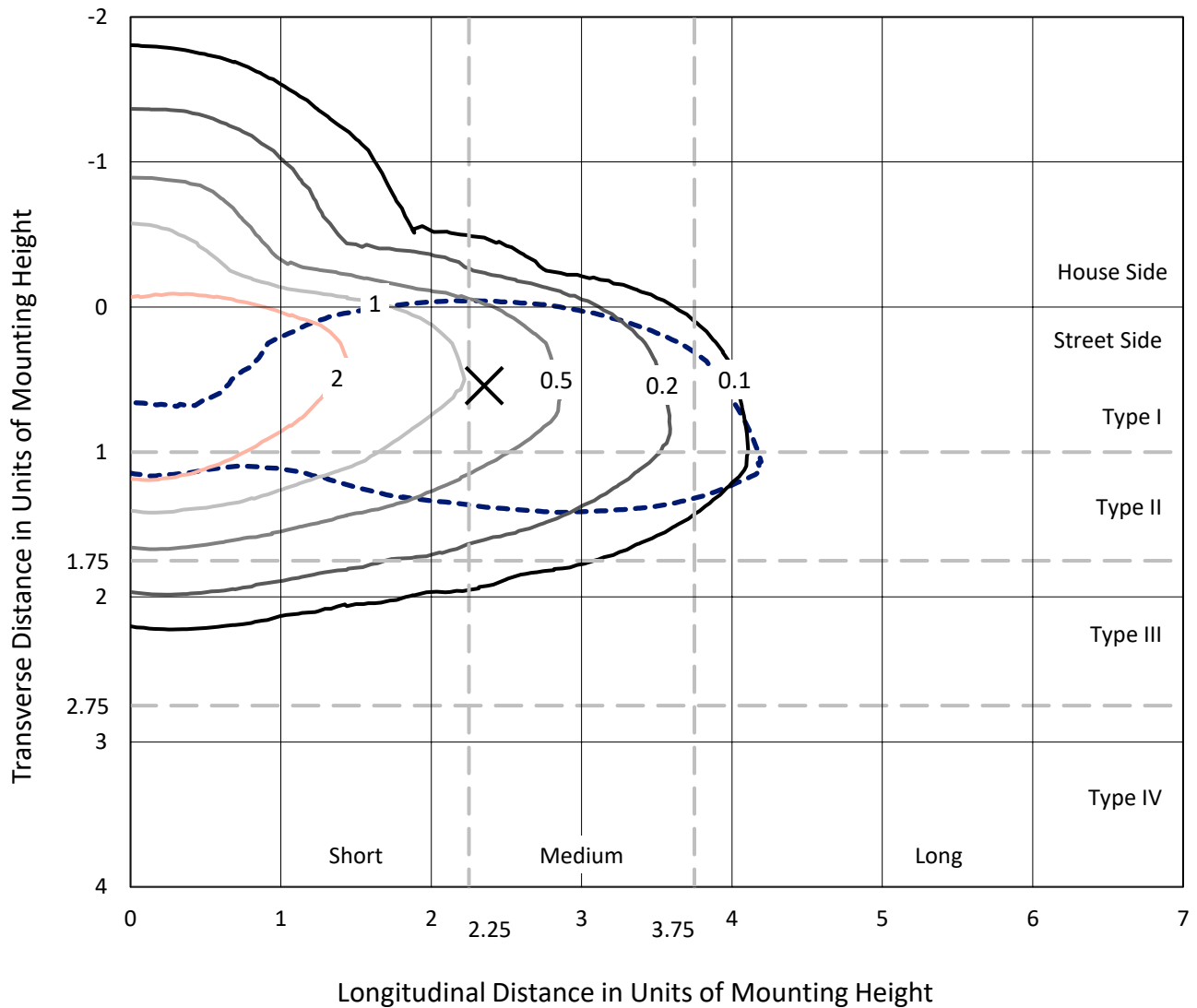
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

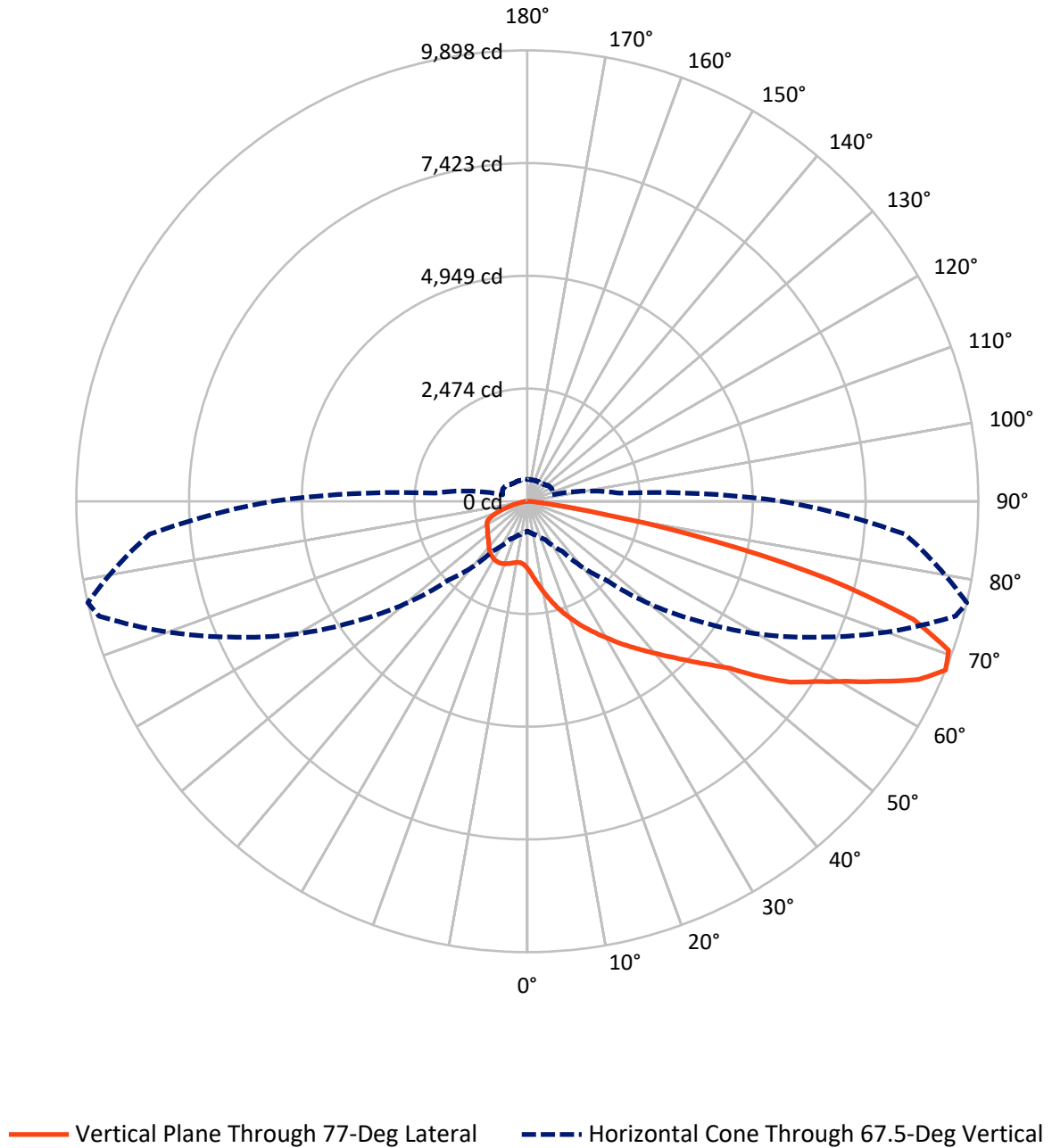
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2386.6	0.0	2386.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10230.4	0.0	10230.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	12617.0	0.0	12617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.3
10°-20°	570.1	4.5
20°-30°	1076.3	8.5
30°-40°	1733.9	13.7
40°-50°	2371.7	18.8
50°-60°	2675.3	21.2
60°-70°	2497.1	19.8
70°-80°	1368.8	10.8
80°-90°	165.1	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°	12617.0	100.0
0°-180°	12617.0	100.0

Coefficient of Utilization



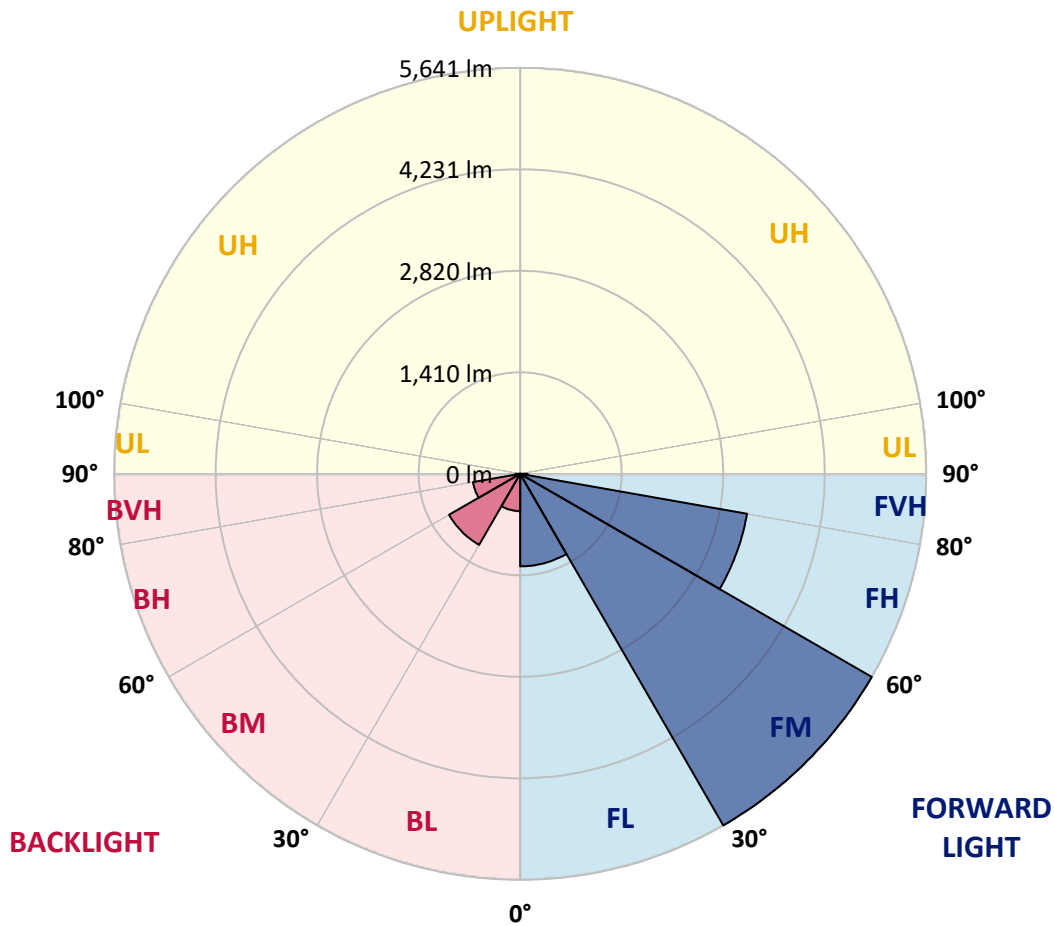
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.1	10.2			
FM (30°-60°)	5640.9	44.7			
FH (60°-80°)	3200.0	25.4			G2/5000
FVH (80°-90°)	103.3	0.8			G2/225
BL (0°-30°)	518.9	4.1	B2/1000		
BM (30°-60°)	1140.0	9.0	B2/2500		
BH (60°-80°)	665.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	61.9	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°	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4
2.5°	1853.6	1866.6	1850.3	1850.3	1795.6	1766.9	1712.2	1670.5	1595.6	1582.6
5°	2190.9	2207.2	2184.4	2174.6	2110.2	2050.9	1959.1	1868.5	1735.0	1721.3
7.5°	2452.1	2472.9	2452.7	2442.3	2385.0	2318.6	2211.1	2084.8	1896.5	1869.8
10°	2665.0	2668.3	2661.8	2665.7	2620.8	2566.1	2456.0	2308.8	2073.7	2037.2
12.5°	2785.5	2800.5	2813.5	2837.0	2829.2	2795.3	2696.3	2520.5	2261.3	2214.4
15°	2842.2	2868.2	2897.6	2951.6	2995.3	3003.7	2928.2	2747.8	2452.1	2395.4
17.5°	2862.4	2887.1	2933.4	3011.5	3105.3	3168.5	3134.6	2968.5	2641.0	2575.8
20°	2964.6	2971.8	2999.8	3074.1	3175.7	3280.5	3305.9	3180.9	2827.9	2754.3
22.5°	3183.5	3169.1	3177.0	3210.8	3283.8	3385.4	3443.3	3368.4	3020.0	2935.3
25°	3544.9	3503.3	3461.6	3422.5	3459.6	3516.9	3582.7	3556.0	3221.2	3113.8
27.5°	4001.5	3950.7	3858.9	3730.5	3685.6	3705.8	3735.1	3729.9	3407.5	3298.7
30°	4450.9	4391.6	4282.2	4096.6	3978.0	3924.6	3902.5	3887.5	3610.1	3494.1
32.5°	4809.7	4762.8	4655.4	4447.6	4275.7	4184.5	4110.9	4057.5	3821.7	3705.8
35°	5123.6	5080.0	4956.9	4730.3	4543.3	4446.3	4349.9	4235.9	4041.9	3924.6
37.5°	5410.2	5366.6	5197.9	4962.1	4773.9	4706.8	4620.9	4427.4	4262.6	4151.9
40°	5591.3	5581.5	5423.9	5156.9	4961.5	4928.3	4899.6	4649.5	4507.5	4404.6
42.5°	5637.5	5659.0	5534.0	5314.5	5128.2	5101.5	5168.6	4900.9	4782.4	4684.0
45°	5526.1	5588.0	5505.9	5356.8	5246.7	5232.4	5407.0	5175.7	5086.5	4996.6
47.5°	5244.1	5349.0	5315.1	5294.3	5278.6	5340.5	5616.7	5467.5	5431.0	5352.9
50°	4674.9	4873.6	4932.8	5064.4	5215.5	5424.5	5807.5	5786.0	5833.5	5754.7
52.5°	3690.8	3964.4	4308.2	4637.8	5021.4	5396.5	6017.2	6243.2	6443.8	6400.8
55°	3046.7	3169.8	3434.2	4038.6	4644.9	5278.6	6111.6	6612.5	7049.5	7011.1
57.5°	2551.7	2661.8	2824.6	3329.4	4075.7	5011.0	6170.3	6837.8	7464.4	7460.4
60°	2020.9	2137.5	2304.2	2661.8	3410.8	4548.6	6157.2	7094.4	7993.8	8026.4
62.5°	1421.8	1550.1	1735.0	2068.5	2731.5	3949.4	5891.5	7280.0	8617.1	8705.7
65°	934.6	1019.3	1158.6	1446.5	2035.3	3178.9	5384.2	7304.1	9284.0	9433.8
67.5°	655.2	687.8	769.8	926.1	1341.6	2437.8	4575.9	7054.7	9728.9	9897.5
70°	511.3	527.5	569.2	631.7	842.8	1639.3	3506.5	6406.0	9633.8	9809.6
72.5°	441.6	457.2	472.8	480.6	565.3	1012.1	2375.2	5356.2	8738.3	8857.4
75°	400.5	404.4	417.5	414.9	431.1	656.5	1371.0	3902.5	6894.5	6853.5
77.5°	336.7	341.9	363.4	360.2	383.0	448.7	711.9	2518.5	4469.8	4191.0
80°	285.3	287.9	311.3	307.4	332.8	325.0	363.4	1283.7	1895.9	1606.1
82.5°	99.0	122.4	237.7	244.9	254.0	196.7	209.7	523.6	579.0	443.5
85°	48.2	51.5	121.1	171.9	171.3	99.0	102.3	186.9	182.4	143.3
87.5°	7.8	9.8	14.3	67.1	53.4	26.1	35.2	36.5	37.8	32.6
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°
1480.4	0°	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4
1533.1	2.5°	1496.6	1464.1	1395.7	1332.5	1283.0	1235.5	1208.8	1186.0	1173.0	1170.4
1604.8	5°	1537.0	1469.9	1345.6	1240.7	1172.3	1121.5	1094.8	1077.9	1069.4	1064.2
1701.2	7.5°	1595.0	1496.6	1319.5	1200.3	1128.7	1092.2	1078.5	1075.9	1075.3	1075.9
1817.7	10°	1675.1	1540.3	1316.9	1190.5	1130.6	1110.4	1109.8	1110.4	1113.0	1113.7
1944.7	12.5°	1761.7	1585.2	1327.3	1199.0	1155.4	1144.3	1142.4	1141.7	1143.7	1145.0
2073.0	15°	1856.2	1644.5	1344.9	1217.2	1182.7	1171.0	1169.1	1165.1	1164.5	1163.8
2207.8	17.5°	1953.2	1703.1	1364.4	1236.8	1200.3	1184.0	1176.9	1167.8	1160.6	1158.6
2347.2	20°	2051.5	1761.1	1378.1	1246.6	1201.6	1178.8	1164.5	1148.9	1136.5	1129.3
2487.9	22.5°	2156.4	1821.6	1386.6	1244.0	1189.9	1158.6	1132.6	1114.3	1095.5	1083.1
2629.9	25°	2258.6	1874.4	1385.9	1230.3	1167.1	1127.4	1094.2	1070.7	1044.7	1031.6
2776.4	27.5°	2357.0	1921.9	1369.6	1206.2	1134.5	1090.2	1050.5	1022.5	997.1	984.7
2924.3	30°	2458.6	1961.7	1344.2	1171.0	1096.1	1047.3	1003.6	979.5	956.7	945.0
3080.6	32.5°	2559.5	1998.1	1308.4	1127.4	1051.8	1004.9	961.9	939.8	926.1	926.1
3248.6	35°	2666.4	2023.5	1260.9	1076.6	1004.9	960.0	926.1	913.1	911.8	904.0
3426.4	37.5°	2779.0	2039.8	1202.9	1024.5	958.7	916.4	905.9	890.3	877.3	860.3
3621.8	40°	2897.6	2056.1	1133.2	970.4	909.8	886.4	881.8	861.0	823.9	782.2
3843.2	42.5°	3041.5	2067.2	1060.9	916.4	858.4	850.6	857.1	821.3	762.0	730.7
4110.2	45°	3208.2	2085.4	994.5	862.9	805.6	805.6	833.0	786.1	737.3	717.7
4415.0	47.5°	3424.4	2127.7	932.6	804.3	756.8	769.8	779.6	743.8	716.4	692.3
4786.3	50°	3737.1	2229.3	868.8	745.1	719.7	745.7	732.0	711.2	679.3	659.7
5376.3	52.5°	4125.2	2289.3	812.1	691.7	687.8	713.8	694.3	674.7	650.6	624.6
5823.8	55°	4389.6	2300.3	764.6	652.6	666.3	663.7	656.5	638.9	625.9	591.4
6265.3	57.5°	4685.3	2322.5	725.5	629.1	652.6	623.9	621.3	606.3	589.4	566.0
6804.0	60°	5039.0	2357.0	691.7	620.0	640.9	597.9	584.9	579.0	562.1	550.3
7452.0	62.5°	5424.5	2388.3	657.1	621.3	627.2	572.5	552.9	551.0	540.6	536.7
8060.3	65°	5687.7	2302.9	614.2	620.0	605.7	546.4	521.7	521.0	512.6	511.3
8324.0	67.5°	5595.8	2032.7	556.2	601.8	583.5	520.4	493.0	490.4	479.3	480.0
8048.6	70°	5136.0	1647.1	476.1	556.8	556.2	496.9	463.1	454.6	439.6	442.2
6998.0	72.5°	4273.7	1220.5	368.6	481.9	512.6	475.4	428.5	414.9	396.0	398.6
5166.0	75°	3086.4	829.7	268.3	366.7	446.1	450.0	394.7	371.2	348.4	352.3
2875.4	77.5°	1579.4	470.2	197.3	252.7	350.4	409.0	364.1	332.8	327.6	364.1
829.1	80°	515.2	235.8	136.8	177.1	229.9	334.8	319.1	283.3	282.0	290.5
173.9	82.5°	153.7	99.6	87.9	116.6	127.0	256.6	275.5	214.3	184.3	194.1
58.0	85°	52.8	48.2	50.1	58.0	60.6	150.4	192.8	142.0	134.2	147.8
13.0	87.5°	12.4	16.9	14.3	13.0	13.0	36.5	74.9	59.3	82.1	54.7
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>
1480.4
1170.4
1063.5
1077.9
1114.3
1145.6
1163.2
1160.6
1131.9
1083.7
1031.6
984.1
944.4
926.8
902.0
857.7
776.3
731.4
721.0
691.7
657.8
619.4
592.0
558.1
553.6
536.7
510.6
480.0
444.8
397.9
353.6
358.9
249.4
200.6
145.9
52.8
0.0

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