

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: P947658

Luminaire Tested: **GALN-SB2D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947658
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-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15020 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

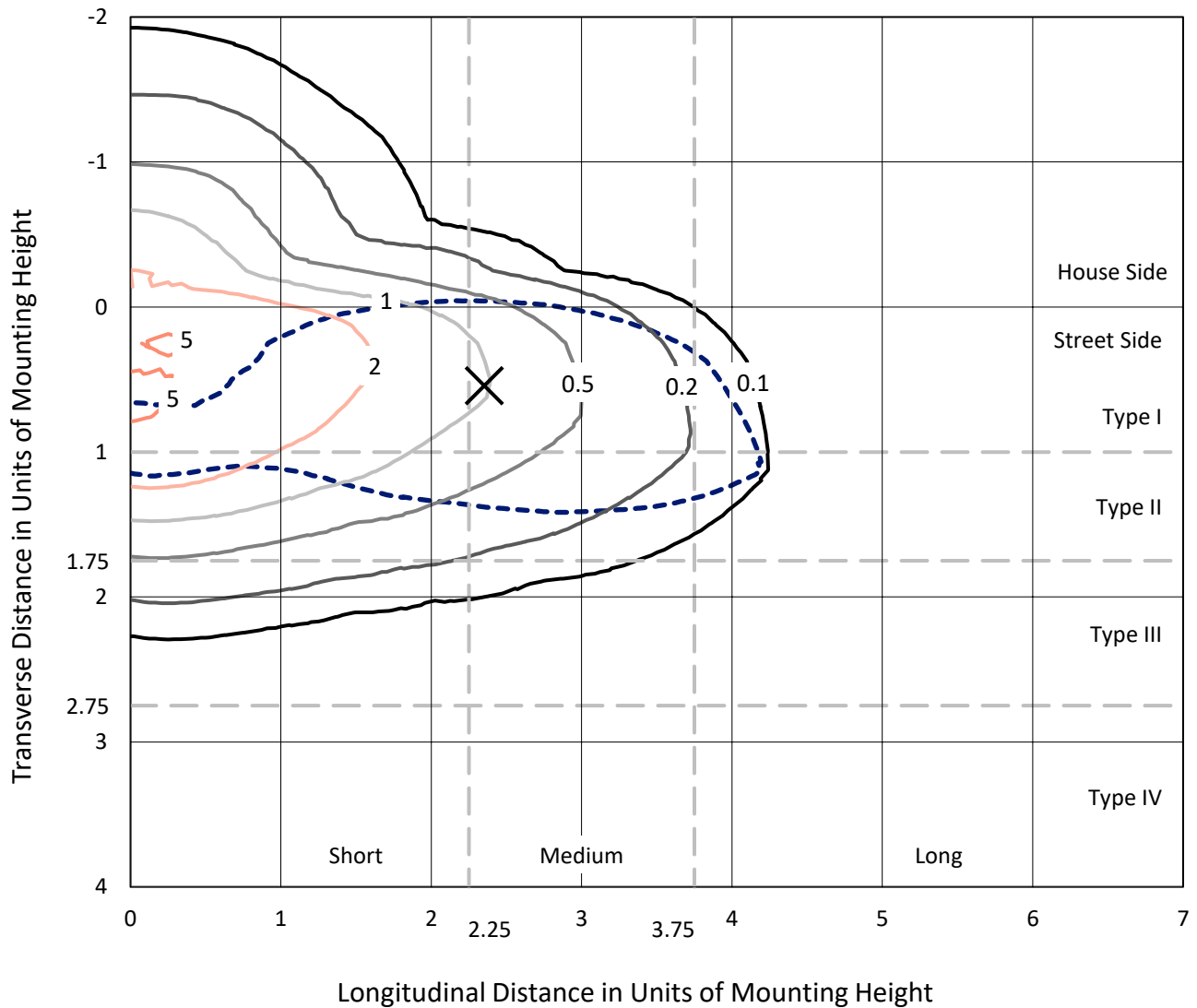
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

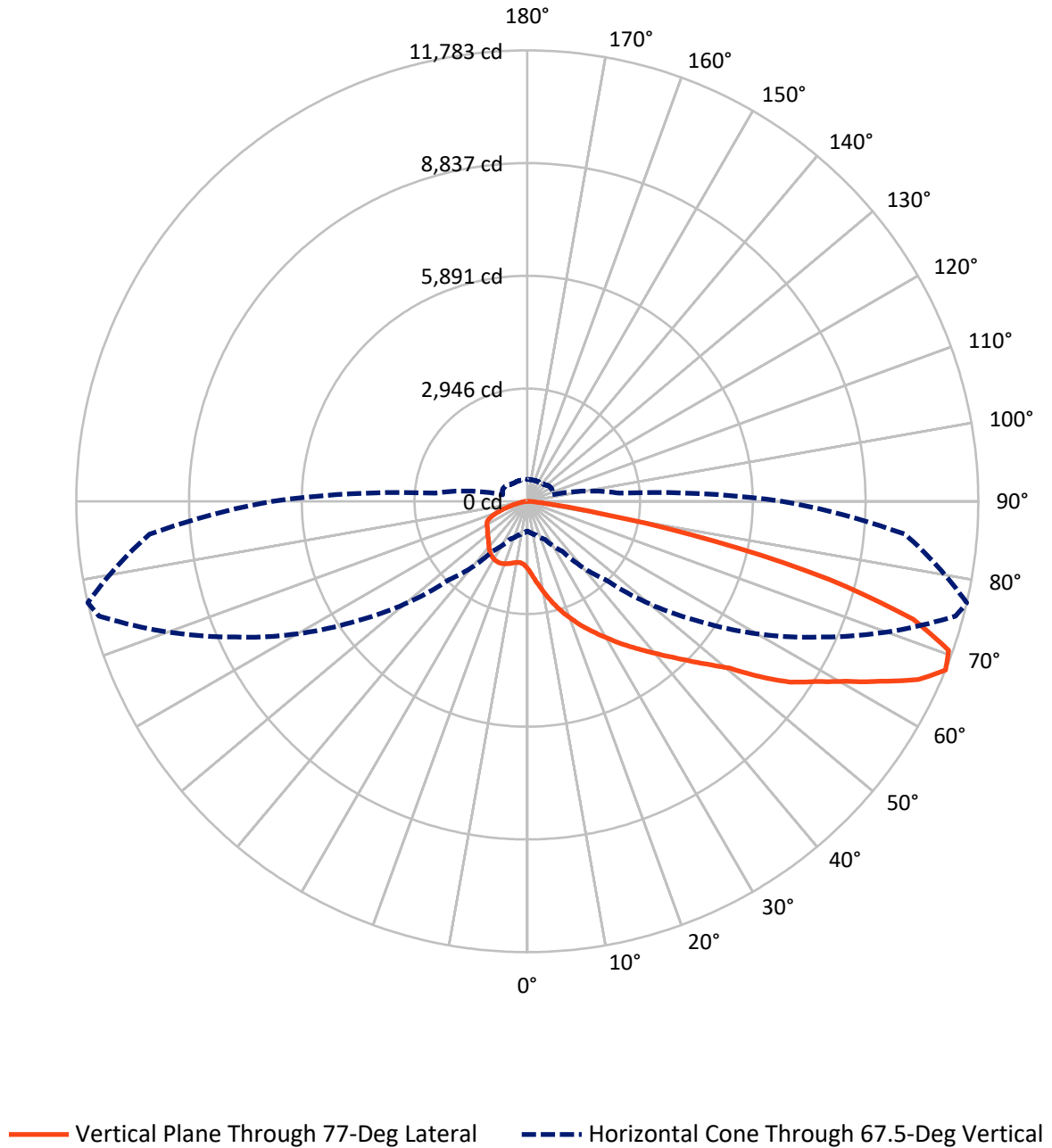
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2841.2	0.0	2841.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	12178.8	0.0	12178.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	15020.0	0.0	15020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.3
10°-20°	678.6	4.5
20°-30°	1281.3	8.5
30°-40°	2064.2	13.7
40°-50°	2823.4	18.8
50°-60°	3184.8	21.2
60°-70°	2972.7	19.8
70°-80°	1629.5	10.8
80°-90°	196.6	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°	15020.0	100.0
0°-180°	15020.0	100.0

Coefficient of Utilization



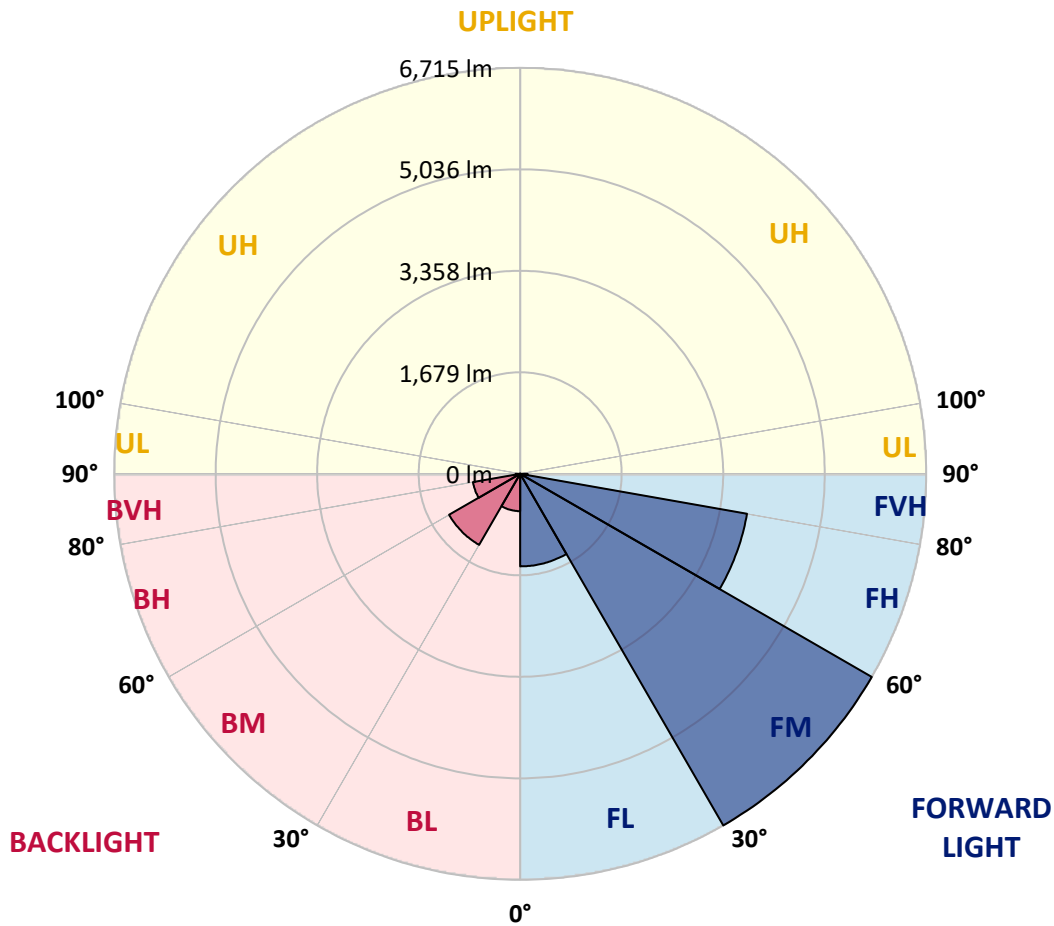
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.1	10.2			
FM (30°-60°)	6715.3	44.7			
FH (60°-80°)	3809.5	25.4			G2/5000
FVH (80°-90°)	122.9	0.8			G2/225
BL (0°-30°)	617.7	4.1	B2/1000		
BM (30°-60°)	1357.2	9.0	B2/2500		
BH (60°-80°)	792.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	73.6	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°	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3
2.5°	2206.6	2222.1	2202.7	2202.7	2137.6	2103.5	2038.3	1988.7	1899.5	1884.0
5°	2608.2	2627.6	2600.4	2588.8	2512.1	2441.5	2332.2	2224.4	2065.5	2049.2
7.5°	2919.1	2943.9	2919.9	2907.5	2839.2	2760.2	2632.2	2481.8	2257.7	2226.0
10°	3172.6	3176.5	3168.8	3173.4	3119.9	3054.8	2923.7	2748.5	2468.6	2425.2
12.5°	3316.1	3333.9	3349.4	3377.3	3368.0	3327.7	3209.8	3000.5	2691.9	2636.1
15°	3383.5	3414.5	3449.4	3513.8	3565.7	3575.8	3485.9	3271.1	2919.1	2851.6
17.5°	3407.6	3437.0	3492.1	3585.1	3696.7	3772.0	3731.6	3533.9	3143.9	3066.4
20°	3529.3	3537.8	3571.1	3659.5	3780.5	3905.3	3935.5	3786.7	3366.5	3278.8
22.5°	3789.8	3772.7	3782.0	3822.3	3909.2	4030.1	4099.1	4010.0	3595.2	3494.4
25°	4220.1	4170.5	4120.8	4074.3	4118.5	4186.8	4265.1	4233.3	3834.8	3706.8
27.5°	4763.6	4703.1	4593.8	4441.1	4387.6	4411.6	4446.5	4440.3	4056.5	3927.0
30°	5298.6	5228.0	5097.8	4876.8	4735.7	4672.1	4645.7	4627.9	4297.6	4159.6
32.5°	5725.8	5669.9	5542.0	5294.7	5090.0	4981.5	4893.8	4830.3	4549.6	4411.6
35°	6099.5	6047.5	5901.0	5631.2	5408.7	5293.1	5178.4	5042.7	4811.7	4672.1
37.5°	6440.6	6388.7	6187.9	5907.2	5683.1	5603.3	5500.9	5270.7	5074.5	4942.7
40°	6656.2	6644.5	6456.9	6139.0	5906.4	5866.9	5832.8	5535.0	5366.0	5243.5
42.5°	6711.2	6736.8	6587.9	6326.6	6104.9	6073.1	6153.0	5834.3	5693.2	5576.1
45°	6578.6	6652.3	6554.6	6377.0	6246.0	6229.0	6436.7	6161.5	6055.3	5948.3
47.5°	6242.9	6367.7	6327.4	6302.6	6284.0	6357.7	6686.4	6508.8	6465.4	6372.4
50°	5565.3	5801.8	5872.3	6028.9	6208.8	6457.7	6913.6	6888.0	6944.6	6850.8
52.5°	4393.8	4719.4	5128.8	5521.1	5977.8	6424.3	7163.2	7432.3	7671.1	7619.9
55°	3627.0	3773.5	4088.3	4807.8	5529.6	6284.0	7275.6	7871.9	8392.1	8346.4
57.5°	3037.7	3168.8	3362.6	3963.5	4852.0	5965.3	7345.4	8140.1	8886.0	8881.3
60°	2405.8	2544.6	2743.1	3168.8	4060.4	5414.9	7329.9	8445.6	9516.3	9555.1
62.5°	1692.5	1845.3	2065.5	2462.4	3251.7	4701.6	7013.6	8666.6	10258.3	10363.8
65°	1112.6	1213.4	1379.3	1722.0	2422.9	3784.4	6409.6	8695.3	11052.3	11230.6
67.5°	780.0	818.7	916.4	1102.5	1597.2	2902.0	5447.4	8398.3	11581.8	11782.6
70°	608.6	628.0	677.6	752.1	1003.3	1951.5	4174.3	7626.1	11468.6	11677.9
72.5°	525.7	544.3	562.9	572.2	673.0	1204.9	2827.6	6376.3	10402.5	10544.4
75°	476.8	481.5	497.0	493.9	513.3	781.5	1632.1	4645.7	8207.6	8158.7
77.5°	400.8	407.0	432.6	428.8	455.9	534.2	847.4	2998.2	5321.1	4989.2
80°	339.6	342.7	370.6	366.0	396.2	386.9	432.6	1528.2	2257.0	1912.0
82.5°	117.8	145.8	283.0	291.5	302.4	234.1	249.7	623.4	689.3	528.0
85°	57.4	61.3	144.2	204.7	203.9	117.8	121.7	222.5	217.1	170.6
87.5°	9.3	11.6	17.1	79.9	63.6	31.0	41.9	43.4	45.0	38.8
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°
1762.3	0°	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3
1825.1	2.5°	1781.7	1742.9	1661.5	1586.3	1527.4	1470.8	1439.0	1411.9	1396.4	1393.3
1910.4	5°	1829.8	1749.9	1601.8	1477.0	1395.6	1335.1	1303.3	1283.2	1273.1	1266.9
2025.1	7.5°	1898.8	1781.7	1570.8	1428.9	1343.6	1300.2	1283.9	1280.8	1280.1	1280.8
2163.9	10°	1994.1	1833.6	1567.7	1417.3	1346.0	1321.9	1321.2	1321.9	1325.0	1325.8
2315.1	12.5°	2097.3	1887.1	1580.1	1427.4	1375.4	1362.2	1359.9	1359.1	1361.5	1363.0
2467.9	15°	2209.7	1957.7	1601.0	1449.1	1408.0	1394.0	1391.7	1387.1	1386.3	1385.5
2628.4	17.5°	2325.2	2027.5	1624.3	1472.3	1428.9	1409.5	1401.0	1390.2	1381.6	1379.3
2794.3	20°	2442.3	2096.5	1640.6	1484.0	1430.5	1403.3	1386.3	1367.7	1352.9	1344.4
2961.7	22.5°	2567.1	2168.6	1650.7	1480.9	1416.5	1379.3	1348.3	1326.6	1304.1	1289.4
3130.8	25°	2688.8	2231.4	1649.9	1464.6	1389.4	1342.1	1302.5	1274.6	1243.6	1228.1
3305.2	27.5°	2805.9	2288.0	1630.5	1435.9	1350.6	1297.9	1250.6	1217.3	1187.0	1172.3
3481.2	30°	2926.9	2335.3	1600.3	1394.0	1304.9	1246.7	1194.8	1166.1	1139.0	1125.0
3667.3	32.5°	3047.0	2378.7	1557.6	1342.1	1252.1	1196.3	1145.2	1118.8	1102.5	1102.5
3867.3	35°	3174.2	2408.9	1501.0	1281.6	1196.3	1142.8	1102.5	1087.0	1085.5	1076.2
4079.0	37.5°	3308.3	2428.3	1432.0	1219.6	1141.3	1090.9	1078.5	1059.9	1044.4	1024.2
4311.6	40°	3449.4	2447.7	1349.1	1155.2	1083.1	1055.2	1049.8	1025.0	980.8	931.2
4575.2	42.5°	3620.8	2460.9	1263.0	1090.9	1021.9	1012.6	1020.3	977.7	907.1	869.9
4893.1	45°	3819.2	2482.6	1183.9	1027.3	959.1	959.1	991.6	935.8	877.7	854.4
5255.9	47.5°	4076.7	2533.0	1110.3	957.5	900.9	916.4	928.1	885.4	852.9	824.2
5697.9	50°	4448.8	2653.9	1034.3	887.0	856.7	887.7	871.5	846.7	808.7	785.4
6400.3	52.5°	4910.9	2725.3	966.8	823.4	818.7	849.8	826.5	803.2	774.5	743.5
6933.0	55°	5225.7	2738.4	910.2	776.9	793.2	790.1	781.5	760.6	745.1	704.0
7458.6	57.5°	5577.7	2764.8	863.7	749.0	776.9	742.8	739.7	721.8	701.7	673.8
8099.8	60°	5998.7	2805.9	823.4	738.1	762.9	711.7	696.2	689.3	669.1	655.1
8871.3	62.5°	6457.7	2843.1	782.3	739.7	746.6	681.5	658.3	655.9	643.5	638.9
9595.4	65°	6770.9	2741.5	731.1	738.1	721.1	650.5	621.0	620.3	610.2	608.6
9909.4	67.5°	6661.6	2419.8	662.1	716.4	694.7	619.5	586.9	583.8	570.6	571.4
9581.5	70°	6114.2	1960.8	566.8	662.9	662.1	591.6	551.3	541.2	523.3	526.4
8330.9	72.5°	5087.7	1453.0	438.8	573.7	610.2	566.0	510.2	493.9	471.4	474.5
6149.9	75°	3674.3	987.8	319.4	436.5	531.1	535.7	469.8	441.9	414.8	419.5
3423.1	77.5°	1880.2	559.8	234.9	300.8	417.1	486.9	433.4	396.2	390.0	433.4
987.0	80°	613.3	280.7	162.8	210.9	273.7	398.5	379.9	337.3	335.7	345.8
207.0	82.5°	183.0	118.6	104.7	138.8	151.2	305.5	328.0	255.1	219.4	231.0
69.0	85°	62.8	57.4	59.7	69.0	72.1	179.1	229.5	169.0	159.7	176.0
15.5	87.5°	14.7	20.2	17.1	15.5	15.5	43.4	89.2	70.6	97.7	65.1
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>
1762.3
1393.3
1266.1
1283.2
1326.6
1363.8
1384.7
1381.6
1347.5
1290.1
1228.1
1171.5
1124.2
1103.3
1073.8
1021.1
924.2
870.7
858.3
823.4
783.1
737.3
704.8
664.5
659.0
638.9
607.9
571.4
529.5
473.7
421.0
427.2
296.9
238.8
173.7
62.8
0.0

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