

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: P949443

Luminaire Tested: **GALN-SB4A-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949443  
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-SB4A-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

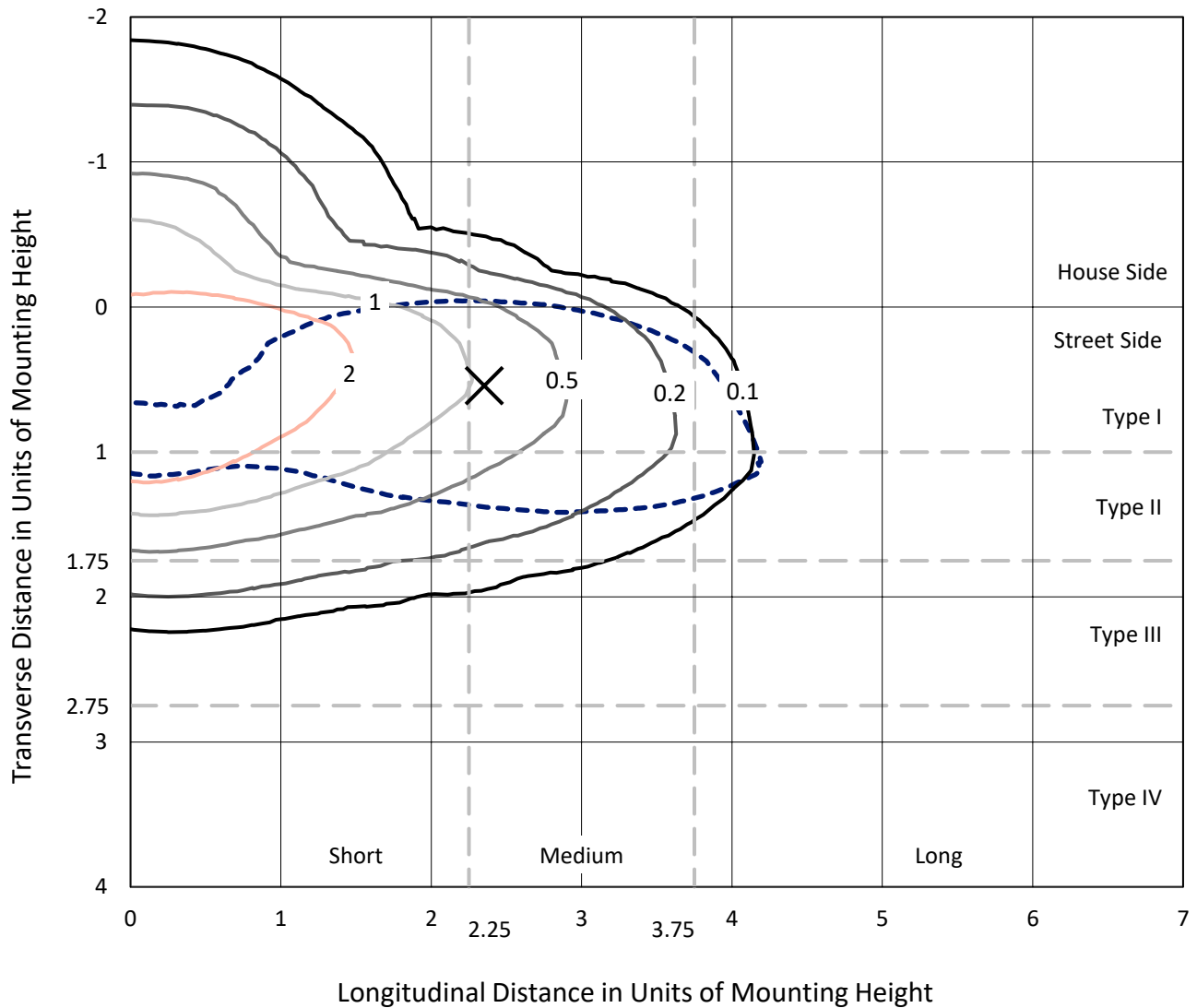
Lumens per Lamp: N/A  
Luminaire Lumens: 13269 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

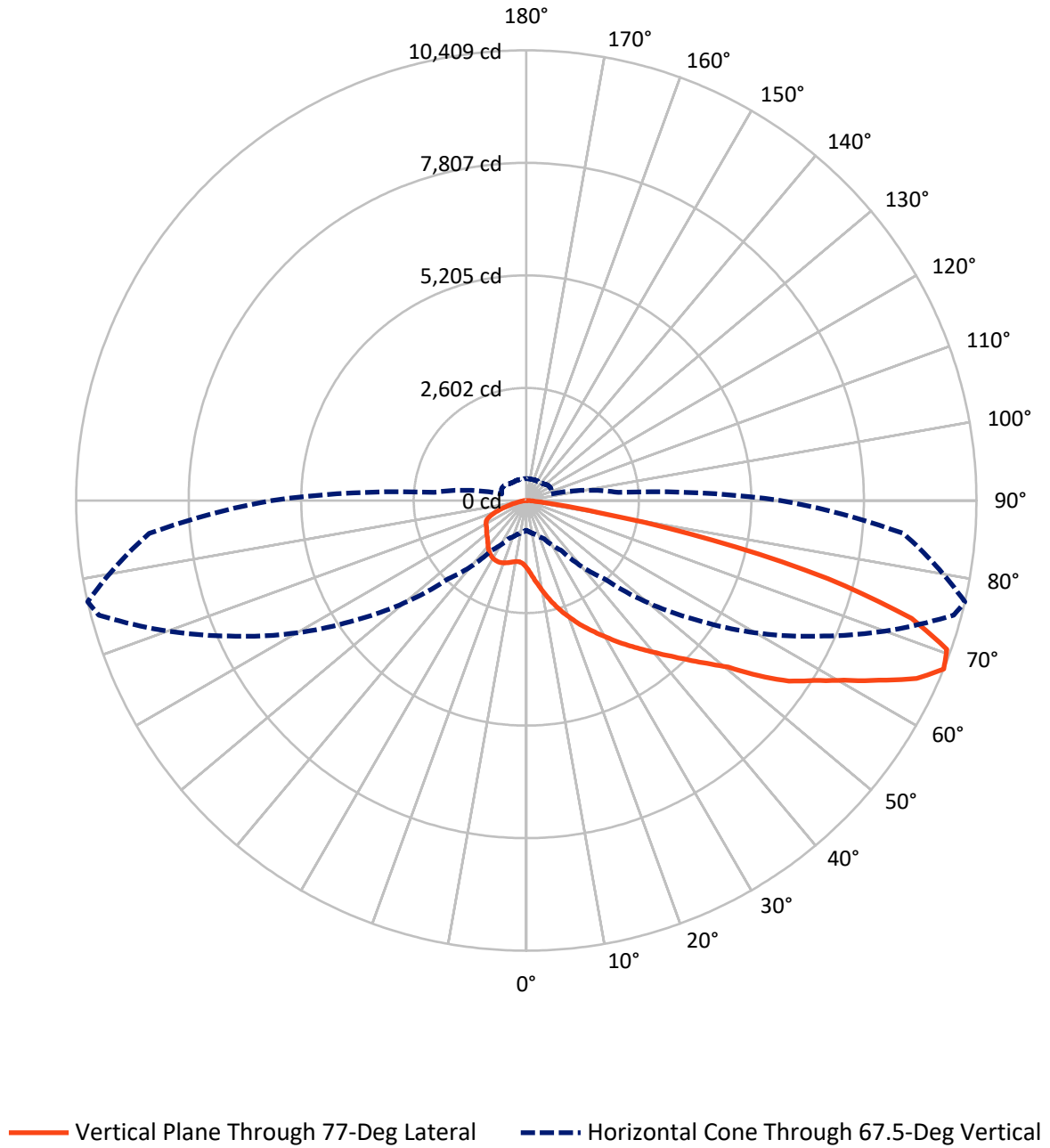
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2510.0	0.0	2510.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	10759.0	0.0	10759.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	13269.0	0.0	13269.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	1.3
10°-20°	599.5	4.5
20°-30°	1131.9	8.5
30°-40°	1823.5	13.7
40°-50°	2494.3	18.8
50°-60°	2813.6	21.2
60°-70°	2626.1	19.8
70°-80°	1439.5	10.8
80°-90°	173.6	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°	13269.0	100.0
0°-180°	13269.0	100.0

**Coefficient of Utilization**



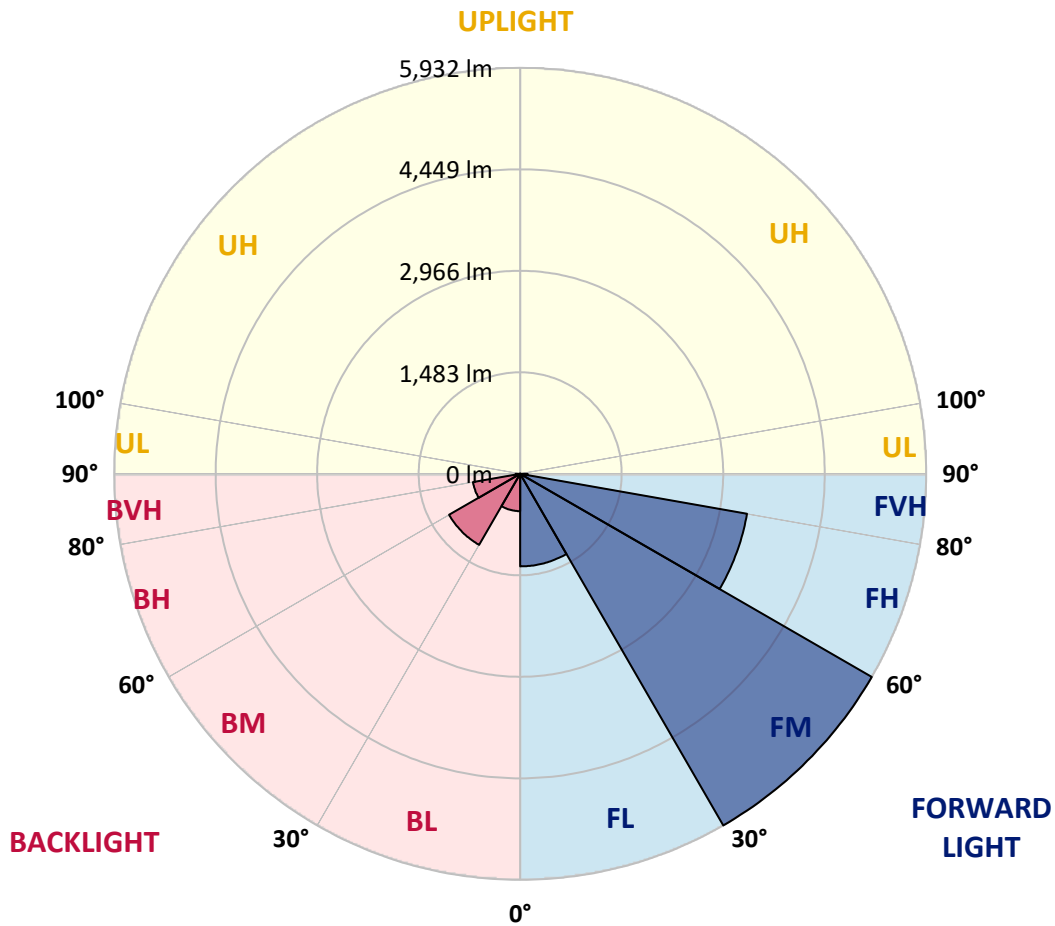
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.6	10.2			
FM (30°-60°)	5932.4	44.7			
FH (60°-80°)	3365.4	25.4			G2/5000
FVH (80°-90°)	108.6	0.8			G2/225
BL (0°-30°)	545.7	4.1	B2/1000		
BM (30°-60°)	1198.9	9.0	B2/2500		
BH (60°-80°)	700.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	65.0	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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1949.3	1963.0	1945.9	1945.9	1888.4	1858.2	1800.7	1756.9	1678.1	1664.4
5°	2304.1	2321.3	2297.3	2287.0	2219.2	2156.9	2060.3	1965.1	1824.7	1810.3
7.5°	2578.8	2600.7	2579.5	2568.5	2508.2	2438.4	2325.4	2192.5	1994.5	1966.5
10°	2802.8	2806.2	2799.3	2803.5	2756.2	2698.7	2582.9	2428.1	2180.8	2142.5
12.5°	2929.5	2945.2	2958.9	2983.6	2975.4	2939.8	2835.6	2650.7	2378.1	2328.8
15°	2989.1	3016.5	3047.3	3104.1	3150.0	3158.9	3079.5	2889.8	2578.8	2519.2
17.5°	3010.3	3036.3	3085.0	3167.2	3265.8	3332.2	3296.6	3122.0	2777.4	2708.9
20°	3117.8	3125.4	3154.8	3232.9	3339.8	3450.0	3476.7	3345.2	2974.0	2896.6
22.5°	3348.0	3332.9	3341.1	3376.7	3453.5	3560.3	3621.3	3542.5	3176.1	3087.0
25°	3728.1	3684.3	3640.4	3599.4	3638.4	3698.7	3767.8	3739.8	3387.7	3274.7
27.5°	4208.3	4154.8	4058.3	3923.3	3876.1	3897.3	3928.1	3922.6	3583.6	3469.2
30°	4680.9	4618.5	4503.5	4308.3	4183.6	4127.4	4104.2	4088.4	3796.6	3674.7
32.5°	5058.3	5009.0	4895.9	4677.4	4496.6	4400.7	4323.3	4267.2	4019.2	3897.3
35°	5388.4	5342.5	5213.1	4974.7	4778.1	4676.1	4574.7	4454.8	4250.7	4127.4
37.5°	5689.8	5643.9	5466.5	5218.5	5020.6	4950.1	4859.6	4656.2	4482.9	4366.5
40°	5880.2	5869.9	5704.2	5423.3	5217.9	5182.9	5152.8	4889.8	4740.5	4632.2
42.5°	5928.8	5951.4	5819.9	5589.1	5393.2	5365.1	5435.7	5154.2	5029.5	4926.1
45°	5811.7	5876.8	5790.5	5633.6	5517.9	5502.8	5686.4	5443.2	5349.4	5254.9
47.5°	5515.1	5625.4	5589.8	5567.9	5551.4	5616.5	5906.9	5750.1	5711.7	5629.5
50°	4916.5	5125.4	5187.7	5326.1	5485.0	5704.9	6107.6	6085.0	6135.0	6052.1
52.5°	3881.5	4169.2	4530.9	4877.4	5280.9	5675.4	6328.1	6565.8	6776.8	6731.6
55°	3204.1	3333.6	3611.7	4247.3	4885.0	5551.4	6427.5	6954.2	7413.8	7373.4
57.5°	2683.6	2799.3	2970.6	3501.4	4286.3	5269.9	6489.1	7191.2	7850.1	7846.0
60°	2125.4	2248.0	2423.3	2799.3	3587.0	4783.6	6475.4	7461.0	8406.9	8441.2
62.5°	1495.2	1630.2	1824.7	2175.4	2872.6	4153.5	6196.0	7656.2	9062.4	9155.6
65°	982.9	1071.9	1218.5	1521.2	2140.4	3343.2	5662.4	7681.6	9763.8	9921.3
67.5°	689.0	723.3	809.6	974.0	1411.0	2563.7	4812.4	7419.3	10231.6	10409.0
70°	537.7	554.8	598.6	664.4	886.3	1724.0	3687.7	6737.1	10131.6	10316.5
72.5°	464.4	480.8	497.3	505.5	594.5	1064.4	2498.0	5632.9	9189.8	9315.2
75°	421.2	425.3	439.0	436.3	453.4	690.4	1441.8	4104.2	7250.8	7207.6
77.5°	354.1	359.6	382.2	378.8	402.7	471.9	748.6	2648.7	4700.7	4407.6
80°	300.0	302.7	327.4	323.3	350.0	341.8	382.2	1350.0	1993.9	1689.1
82.5°	104.1	128.8	250.0	257.5	267.1	206.9	220.6	550.7	608.9	466.4
85°	50.7	54.1	127.4	180.8	180.1	104.1	107.5	196.6	191.8	150.7
87.5°	8.2	10.3	15.1	70.5	56.2	27.4	37.0	38.4	39.7	34.2
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°
1556.9	0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
1612.3	2.5°	1574.0	1539.7	1467.8	1401.4	1349.3	1299.3	1271.2	1247.3	1233.6	1230.8
1687.7	5°	1616.5	1545.9	1415.1	1304.8	1232.9	1179.5	1151.4	1133.6	1124.7	1119.2
1789.1	7.5°	1677.4	1574.0	1387.7	1262.3	1187.0	1148.6	1134.3	1131.5	1130.8	1131.5
1911.7	10°	1761.7	1619.9	1384.9	1252.1	1189.1	1167.8	1167.1	1167.8	1170.6	1171.2
2045.2	12.5°	1852.8	1667.1	1395.9	1261.0	1215.1	1203.4	1201.4	1200.7	1202.8	1204.1
2180.2	15°	1952.1	1729.5	1414.4	1280.2	1243.8	1231.5	1229.5	1225.4	1224.7	1224.0
2321.9	17.5°	2054.1	1791.1	1434.9	1300.7	1262.3	1245.2	1237.7	1228.1	1220.6	1218.5
2468.5	20°	2157.6	1852.1	1449.3	1311.0	1263.7	1239.7	1224.7	1208.2	1195.2	1187.7
2616.5	22.5°	2267.8	1915.8	1458.2	1308.2	1251.4	1218.5	1191.1	1171.9	1152.1	1139.1
2765.8	25°	2375.4	1971.3	1457.5	1293.8	1227.4	1185.6	1150.7	1126.0	1098.6	1084.9
2919.9	27.5°	2478.8	2021.3	1440.4	1268.5	1193.2	1146.6	1104.8	1075.4	1048.6	1035.6
3075.4	30°	2585.6	2063.0	1413.7	1231.5	1152.8	1101.4	1055.5	1030.1	1006.2	993.8
3239.8	32.5°	2691.8	2101.4	1376.0	1185.6	1106.2	1056.9	1011.7	988.4	974.0	974.0
3416.5	35°	2804.1	2128.1	1326.0	1132.2	1056.9	1009.6	974.0	960.3	958.9	950.7
3603.5	37.5°	2922.6	2145.2	1265.1	1077.4	1008.2	963.7	952.7	936.3	922.6	904.8
3808.9	40°	3047.3	2162.4	1191.8	1020.6	956.9	932.2	927.4	905.5	866.4	822.6
4041.8	42.5°	3198.7	2174.0	1115.8	963.7	902.7	894.5	901.4	863.7	801.4	768.5
4322.6	45°	3374.0	2193.2	1045.9	907.5	847.3	847.3	876.0	826.7	775.4	754.8
4643.2	47.5°	3601.4	2237.7	980.8	845.9	795.9	809.6	819.9	782.2	753.4	728.1
5033.6	50°	3930.2	2344.5	913.7	783.6	756.9	784.3	769.9	748.0	714.4	693.8
5654.2	52.5°	4338.4	2407.6	854.1	727.4	723.3	750.7	730.1	709.6	684.3	656.9
6124.7	55°	4616.5	2419.2	804.1	686.3	700.7	698.0	690.4	671.9	658.2	621.9
6589.1	57.5°	4927.4	2442.5	763.0	661.7	686.3	656.2	653.4	637.7	619.9	595.2
7155.6	60°	5299.4	2478.8	727.4	652.1	674.0	628.8	615.1	608.9	591.1	578.8
7837.1	62.5°	5704.9	2511.7	691.1	653.4	659.6	602.1	581.5	579.5	568.5	564.4
8476.8	65°	5981.6	2421.9	645.9	652.1	637.0	574.7	548.6	548.0	539.0	537.7
8754.2	67.5°	5885.0	2137.7	584.9	632.9	613.7	547.3	518.5	515.8	504.1	504.8
8464.5	70°	5401.4	1732.2	500.7	585.6	584.9	522.6	487.0	478.1	462.3	465.1
7359.7	72.5°	4494.6	1283.6	387.7	506.9	539.0	500.0	450.7	436.3	416.4	419.2
5432.9	75°	3245.9	872.6	282.2	385.6	469.2	473.3	415.1	390.4	366.4	370.6
3024.0	77.5°	1661.0	494.5	207.5	265.8	368.5	430.1	382.9	350.0	344.5	382.9
871.9	80°	541.8	247.9	143.8	186.3	241.8	352.1	335.6	297.9	296.6	305.5
182.9	82.5°	161.6	104.8	92.5	122.6	133.6	269.9	289.7	225.3	193.8	204.1
61.0	85°	55.5	50.7	52.7	61.0	63.7	158.2	202.7	149.3	141.1	155.5
13.7	87.5°	13.0	17.8	15.1	13.7	13.7	38.4	78.8	62.3	86.3	57.5
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>
1556.9
1230.8
1118.5
1133.6
1171.9
1204.8
1223.3
1220.6
1190.4
1139.7
1084.9
1034.9
993.2
974.7
948.6
902.1
816.4
769.2
758.2
727.4
691.8
651.4
622.6
587.0
582.2
564.4
537.0
504.8
467.8
418.5
371.9
377.4
262.3
211.0
153.4
55.5
0.0

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