

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: P946593

Luminaire Tested: **GALN-SB2A-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

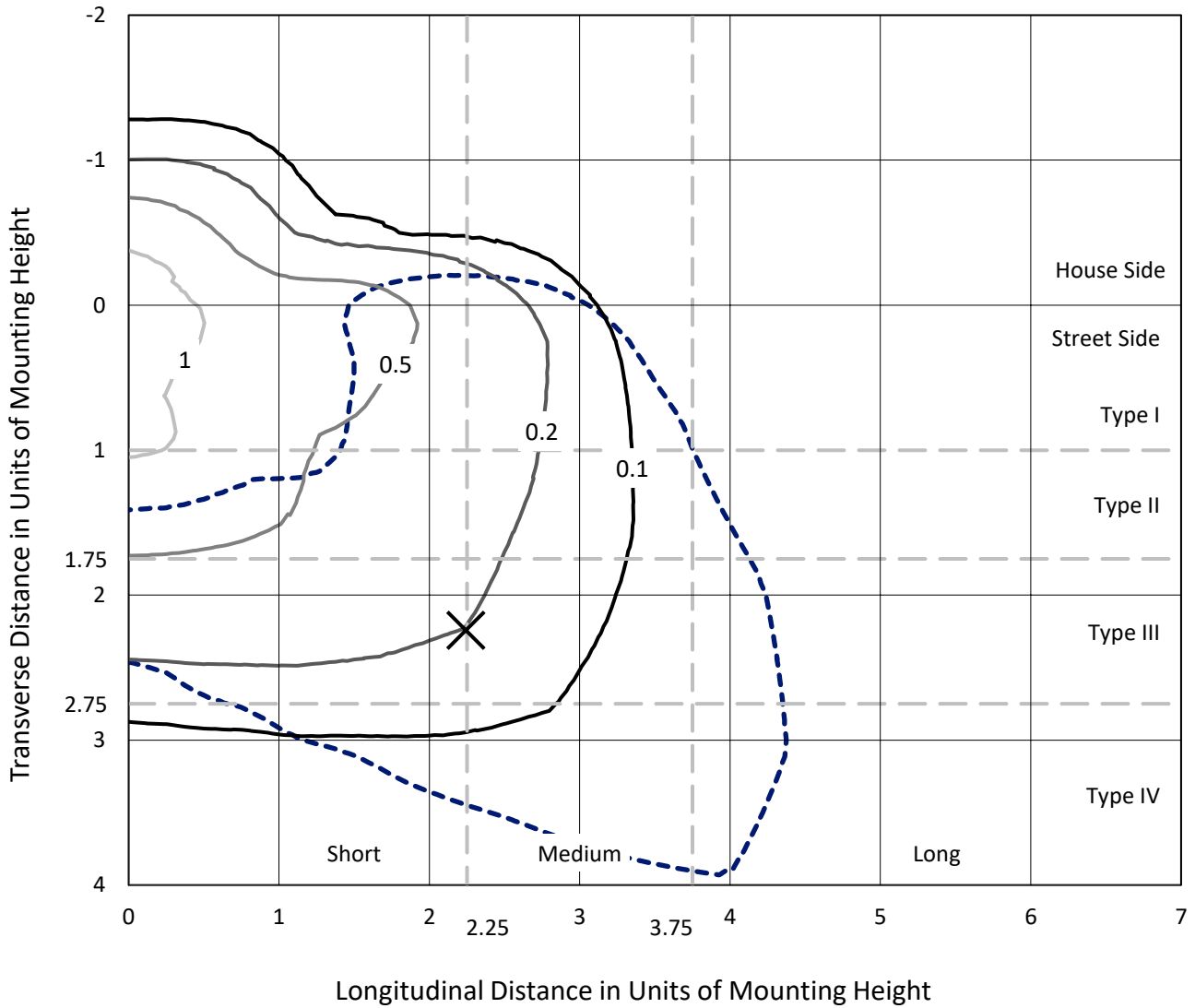
Lumens per Lamp: N/A  
Luminaire Lumens: 6488 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

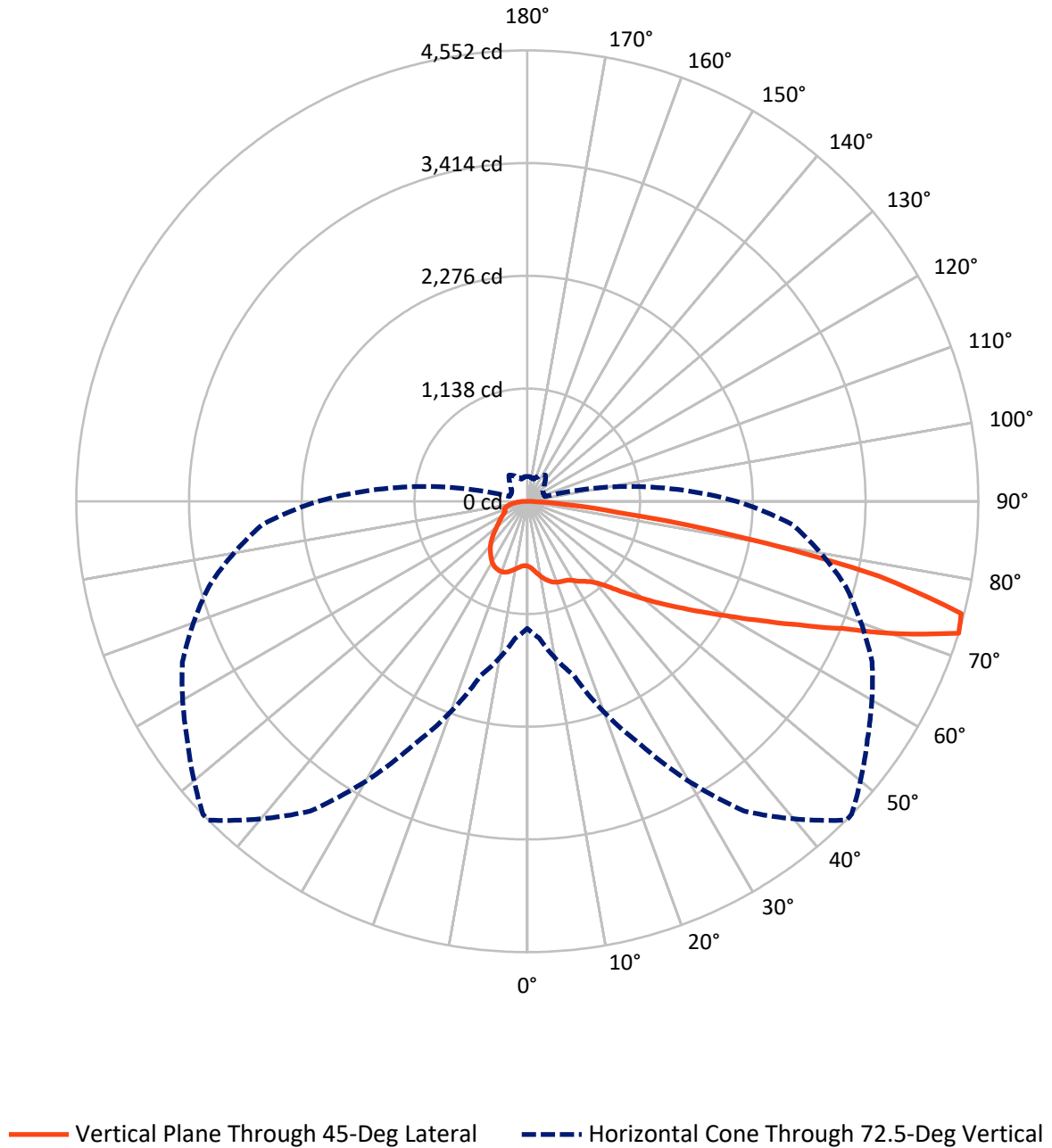
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1466.7	0.0	1466.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5021.3	0.0	5021.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	6488.0	0.0	6488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	1.0
10°-20°	222.1	3.4
20°-30°	386.4	6.0
30°-40°	553.9	8.5
40°-50°	779.9	12.0
50°-60°	1194.6	18.4
60°-70°	1730.5	26.7
70°-80°	1381.9	21.3
80°-90°	172.1	2.7
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°	6488.0	100.0
0°-180°	6488.0	100.0

**Coefficient of Utilization**



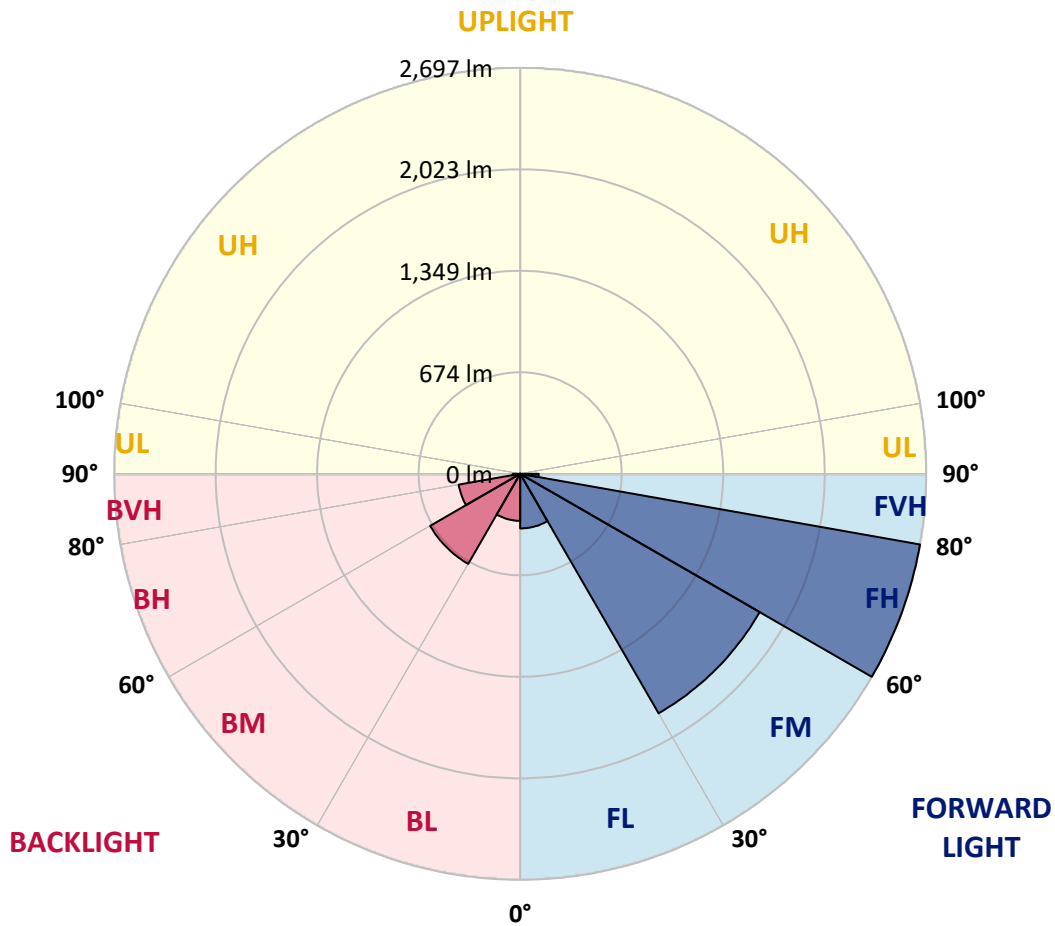
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.8	5.6			
FM (30°-60°)	1837.7	28.3			
FH (60°-80°)	2697.3	41.6			G2/5000
FVH (80°-90°)	123.5	1.9			G2/225
BL (0°-30°)	312.3	4.8	B1/500		
BM (30°-60°)	690.6	10.6	B1/1000		
BH (60°-80°)	415.2	6.4	B1/500		G1/500
BVH (80°-90°)	48.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	680.1	684.6	680.5	676.7	675.0	670.6	670.2	667.5	665.8	661.0
5°	727.7	733.5	726.6	719.1	712.3	701.3	700.0	692.1	683.2	673.0
7.5°	781.3	786.4	778.6	767.3	755.3	737.2	736.9	722.5	708.5	691.1
10°	828.1	835.0	824.4	809.0	794.0	773.5	771.1	754.7	736.9	714.3
12.5°	869.5	874.3	864.0	845.2	827.8	807.3	804.2	786.1	766.3	740.6
15°	902.3	908.5	894.8	874.6	856.2	836.0	833.3	816.9	797.0	770.0
17.5°	923.8	929.0	915.0	892.4	874.6	857.9	855.8	842.2	824.7	797.4
20°	932.0	937.5	922.8	899.9	883.5	870.5	869.5	859.6	847.6	822.7
22.5°	940.2	945.4	926.2	902.3	888.0	879.7	879.4	872.9	868.1	847.6
25°	973.4	974.8	949.1	914.6	894.1	886.9	886.6	886.2	888.3	872.2
27.5°	1002.1	1001.8	979.9	947.4	915.6	900.6	900.3	903.7	910.2	896.8
30°	1044.1	1040.4	1014.4	980.6	951.5	928.3	926.2	923.2	928.3	917.7
32.5°	1133.3	1121.4	1079.3	1019.2	981.3	963.5	960.7	941.6	943.7	937.2
35°	1261.2	1245.5	1189.4	1092.3	1018.2	992.9	991.5	967.2	963.1	957.3
37.5°	1413.3	1393.8	1328.5	1198.3	1081.7	1027.1	1025.0	1003.1	986.4	980.2
40°	1566.0	1541.4	1487.4	1327.5	1175.4	1084.1	1077.6	1044.5	1025.3	1015.1
42.5°	1714.4	1693.9	1647.7	1472.4	1290.9	1167.5	1153.2	1096.4	1082.1	1072.5
45°	1845.6	1827.2	1793.3	1627.2	1426.3	1281.0	1267.0	1174.4	1169.9	1169.9
47.5°	1952.3	1948.2	1912.3	1785.1	1585.9	1410.2	1385.9	1282.7	1294.7	1313.1
50°	2070.5	2059.2	2021.0	1940.6	1773.5	1558.2	1538.4	1415.7	1460.4	1511.0
52.5°	2179.2	2185.4	2142.6	2102.6	1985.4	1723.3	1688.4	1572.5	1669.3	1753.0
55°	2291.0	2291.3	2279.3	2273.9	2207.6	1905.8	1867.5	1761.2	1915.0	2018.9
57.5°	2395.9	2396.6	2414.3	2462.5	2465.3	2116.3	2072.9	1992.9	2188.1	2294.0
60°	2489.5	2494.3	2542.9	2655.6	2691.9	2357.6	2316.6	2266.7	2470.4	2577.0
62.5°	2521.0	2538.4	2646.4	2806.7	2915.7	2653.6	2613.3	2583.5	2767.1	2866.2
65°	2467.7	2507.7	2716.5	2931.5	3146.1	3005.3	2965.3	2932.8	3075.4	3168.7
67.5°	2336.8	2388.4	2712.4	3062.4	3425.7	3428.4	3391.2	3314.9	3405.9	3441.7
70°	1991.9	2069.1	2473.5	3111.2	3746.6	4007.1	3971.2	3775.0	3735.7	3562.1
72.5°	1283.4	1387.3	1821.4	2709.0	3818.0	4551.5	4549.5	4190.2	3839.9	3328.3
75°	468.2	531.8	846.3	1700.4	3204.9	4523.8	4537.2	4119.2	3505.3	2570.9
77.5°	170.5	186.6	276.2	653.5	1971.1	3629.7	3657.4	3293.1	2495.0	1290.2
80°	89.5	98.4	141.5	253.6	844.5	2155.6	2199.0	1957.0	1172.7	388.6
82.5°	49.6	53.7	79.3	137.7	380.4	921.8	947.8	773.1	412.5	164.7
85°	26.7	28.4	37.3	75.2	185.9	319.6	326.7	231.0	164.4	96.7
87.5°	7.9	9.6	12.3	23.9	72.8	71.8	73.5	45.8	64.9	48.9
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°
654.5	0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
659.6	2.5°	657.6	656.6	652.8	651.1	649.0	648.7	650.4	650.8	651.1	651.4
667.2	5°	663.7	660.3	656.9	654.9	655.5	655.9	659.3	661.7	663.4	664.8
681.2	7.5°	675.7	673.0	667.2	666.8	667.8	670.9	675.4	680.8	683.9	686.3
699.3	10°	693.5	688.3	681.5	682.5	684.6	689.0	698.3	702.7	707.8	712.3
721.5	12.5°	711.6	707.1	699.3	700.0	703.4	711.2	720.1	725.6	729.0	732.4
745.4	15°	735.2	727.3	718.8	718.8	724.9	733.5	737.6	742.0	744.1	747.8
771.1	17.5°	759.4	749.2	737.9	737.2	744.7	748.8	751.2	751.9	752.6	756.7
796.0	20°	783.7	772.4	756.4	755.0	756.7	756.0	755.7	755.0	756.0	761.1
821.6	22.5°	807.6	794.6	772.4	766.3	761.5	755.0	754.7	754.3	755.0	760.1
849.3	25°	835.7	819.9	790.2	771.7	755.7	746.8	747.8	748.2	748.8	752.9
878.0	27.5°	866.1	848.6	806.6	770.0	741.0	734.8	733.1	734.1	736.5	743.0
906.7	30°	896.5	876.0	821.6	763.2	722.5	714.0	708.5	710.9	718.4	724.9
931.7	32.5°	924.2	903.7	833.6	748.2	698.9	685.6	678.4	681.5	689.0	691.4
959.4	35°	956.6	933.4	838.7	724.2	673.3	652.8	643.2	638.8	642.6	640.2
991.9	37.5°	992.9	968.6	838.0	692.8	643.2	619.7	606.3	589.6	581.7	573.5
1039.7	40°	1046.5	1011.7	829.8	654.9	606.0	584.4	560.5	532.2	514.4	498.3
1116.9	42.5°	1119.7	1071.5	814.8	613.2	563.9	543.8	511.3	478.2	450.1	423.5
1234.2	45°	1228.7	1149.8	796.0	568.7	518.5	498.7	463.5	426.2	394.4	360.2
1400.6	47.5°	1385.9	1255.0	778.2	518.1	470.6	452.5	420.7	386.2	348.6	315.5
1641.2	50°	1601.9	1406.1	761.8	468.9	423.5	409.8	384.5	349.3	311.4	284.7
1923.2	52.5°	1876.7	1611.5	755.0	421.4	379.4	374.3	354.1	321.3	285.4	262.8
2252.0	55°	2192.2	1857.2	755.0	376.0	340.8	342.5	328.5	298.0	266.9	246.8
2591.1	57.5°	2514.1	2106.1	741.3	333.9	307.9	315.1	306.2	279.6	251.6	230.7
2947.5	60°	2810.8	2314.5	686.0	295.6	278.9	290.2	284.4	261.5	227.3	209.9
3245.6	62.5°	3038.8	2432.1	579.3	265.2	255.0	268.0	264.9	237.5	222.8	215.7
3490.3	65°	3152.9	2413.0	442.9	238.2	234.8	255.0	248.5	247.5	235.8	227.6
3569.9	67.5°	3082.9	2248.2	321.3	218.4	223.2	243.0	268.0	272.1	250.5	234.5
3345.7	70°	2775.6	1950.2	239.2	199.6	208.5	243.3	305.6	284.7	245.7	226.9
2683.3	72.5°	2111.5	1454.3	185.6	179.8	189.3	245.1	322.3	278.9	232.1	250.9
1671.7	75°	1207.5	798.4	149.0	155.5	165.4	229.0	313.8	263.9	221.5	230.4
662.4	77.5°	460.4	306.9	123.0	131.6	133.0	199.9	300.1	262.8	210.9	205.8
198.6	80°	159.6	120.0	101.9	104.6	102.9	177.7	287.8	228.7	172.6	154.5
82.0	82.5°	65.3	59.8	80.7	77.2	73.1	138.1	232.4	187.0	141.2	124.8
39.6	85°	28.4	37.9	53.3	46.8	42.4	95.7	186.3	158.2	119.3	102.9
13.0	87.5°	5.8	14.4	22.6	21.2	21.9	63.9	132.3	112.4	84.4	63.2
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>
654.5
652.8
665.4
687.0
711.2
733.8
749.2
758.1
763.2
763.5
758.4
749.5
732.1
700.0
647.7
578.6
499.3
421.1
356.1
311.7
283.0
261.1
244.7
227.3
207.1
213.3
224.9
231.7
223.9
248.8
230.4
187.6
149.4
123.4
102.5
49.6
0.0

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