

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: P946421

Luminaire Tested: **GALN-SB2A-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

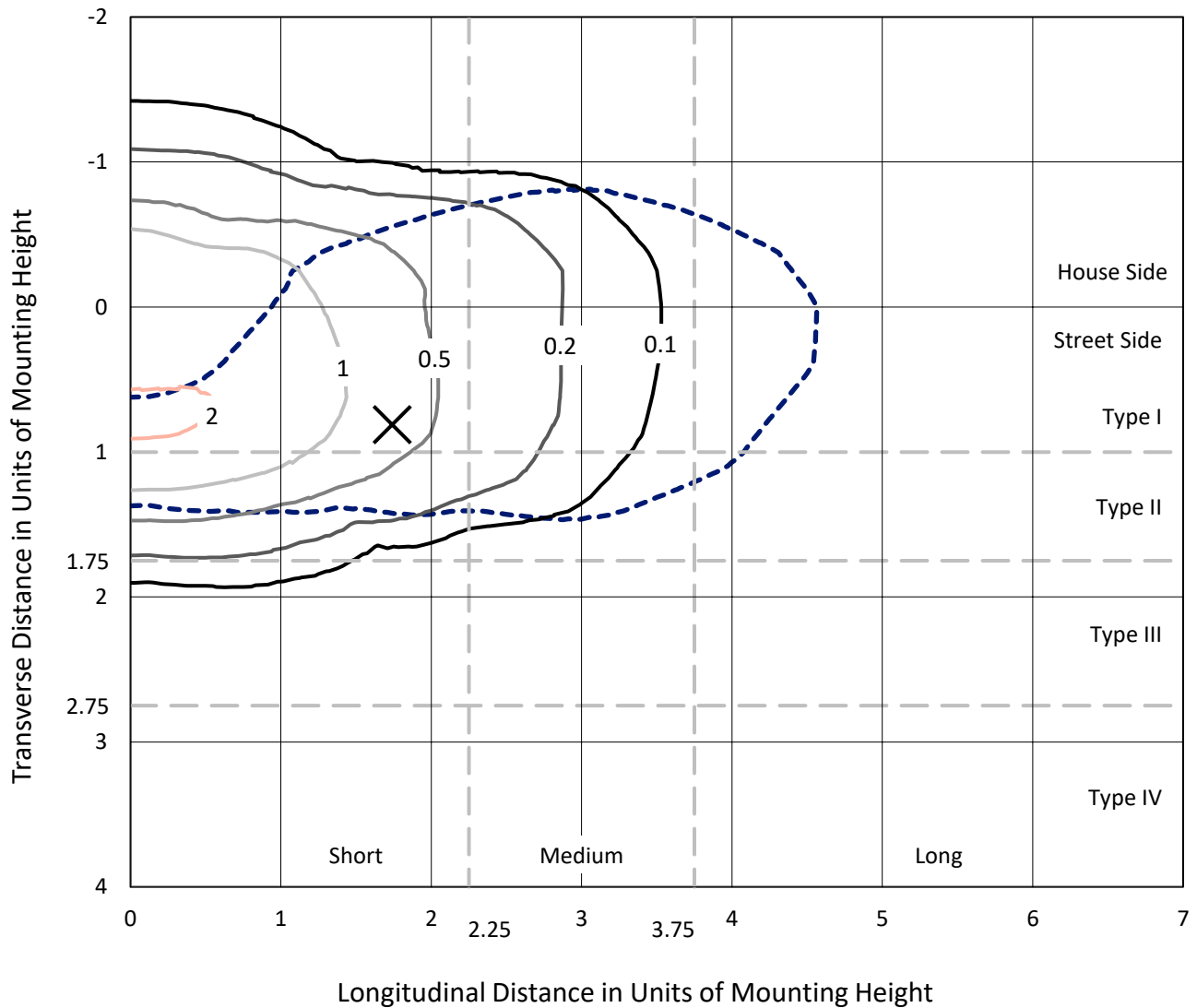
Lumens per Lamp: N/A  
Luminaire Lumens: 7905 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

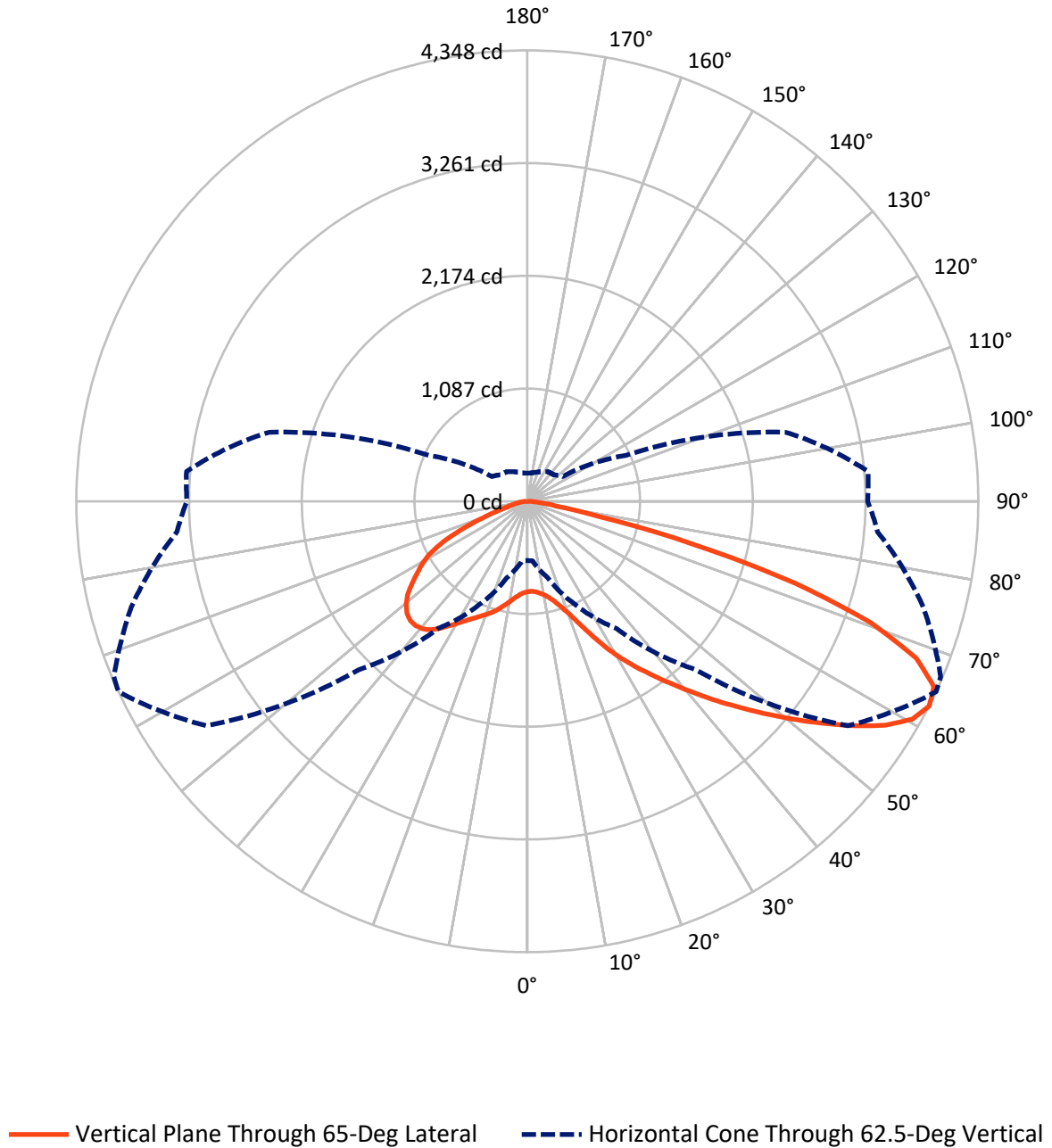
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - 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	2494.5	0.0	2494.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	5410.5	0.0	5410.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	7905.0	0.0	7905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	1.1
10°-20°	294.5	3.7
20°-30°	597.1	7.6
30°-40°	1033.3	13.1
40°-50°	1563.8	19.8
50°-60°	1833.4	23.2
60°-70°	1537.1	19.4
70°-80°	848.6	10.7
80°-90°	110.2	1.4
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°	7905.0	100.0
0°-180°	7905.0	100.0

**Coefficient of Utilization**



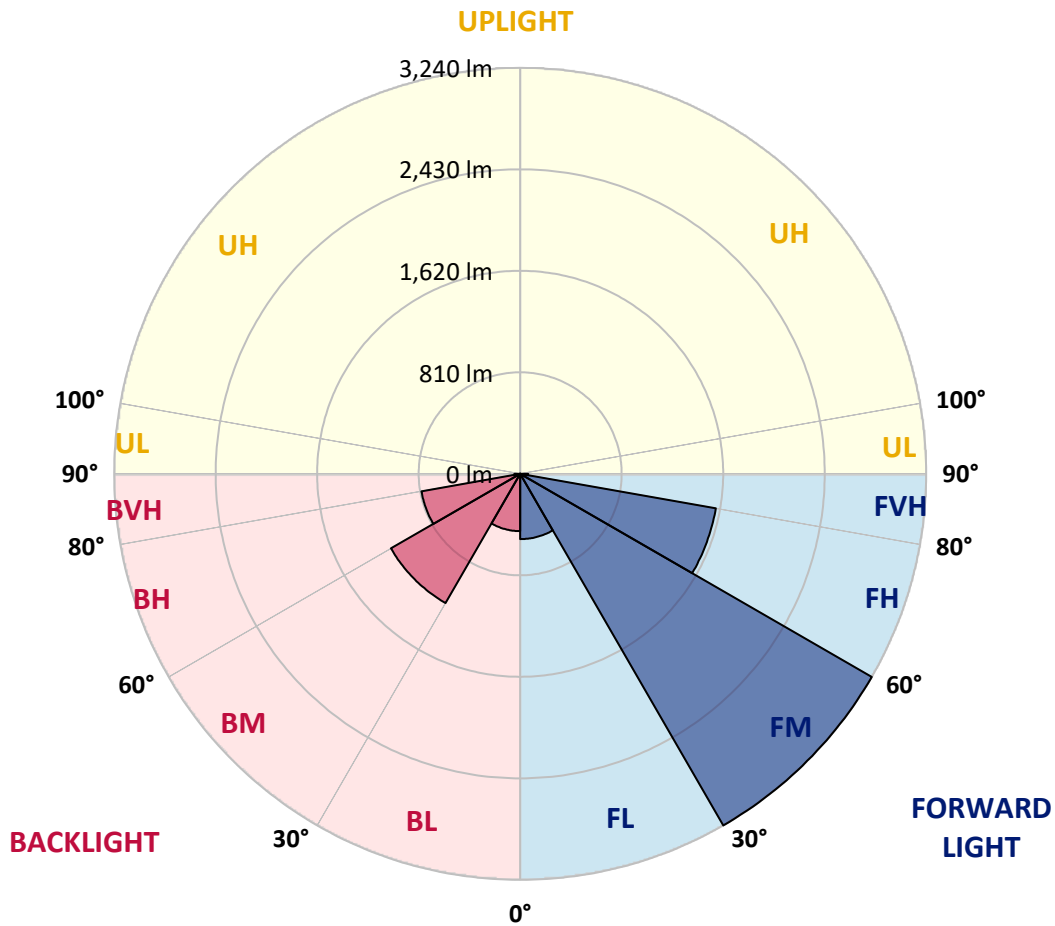
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.0	6.6			
FM	(30°-60°)	3239.7	41.0			
FH	(60°-80°)	1585.5	20.1			G1/1800
FVH	(80°-90°)	64.3	0.8			G1/100
BL	(0°-30°)	457.5	5.8	B1/500		
BM	(30°-60°)	1190.8	15.1	B2/2500		
BH	(60°-80°)	800.2	10.1	B2/1000		G2/1000
BVH	(80°-90°)	46.0	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	865.4	862.9	864.9	864.9	865.8	865.4	868.2	869.0	870.3	872.7
5°	856.7	856.3	860.0	863.3	866.6	869.5	873.1	878.5	879.3	882.2
7.5°	853.9	851.4	857.2	861.3	869.0	876.0	885.9	894.9	898.6	899.8
10°	876.0	871.9	877.2	879.7	886.3	893.2	904.7	919.1	923.2	928.1
12.5°	913.7	909.2	917.0	920.7	926.9	933.0	940.8	954.8	956.8	965.8
15°	965.4	960.1	965.0	969.5	979.8	985.5	993.3	1006.8	1006.8	1013.8
17.5°	1035.6	1028.6	1032.3	1033.9	1040.5	1049.1	1062.2	1074.1	1080.3	1077.8
20°	1140.1	1131.5	1131.5	1123.3	1120.9	1127.8	1145.1	1161.5	1168.0	1155.3
22.5°	1297.2	1284.9	1277.9	1250.0	1239.0	1239.8	1257.0	1277.1	1282.4	1259.9
25°	1496.9	1477.7	1468.2	1427.2	1402.2	1380.5	1394.0	1419.8	1427.2	1399.3
27.5°	1696.7	1697.9	1688.9	1639.7	1598.2	1558.5	1551.5	1578.6	1586.3	1554.8
30°	1976.8	1947.7	1930.4	1871.4	1812.3	1756.5	1727.8	1738.9	1741.0	1703.2
32.5°	2218.3	2211.0	2174.1	2122.4	2046.5	1959.1	1911.2	1893.5	1890.2	1836.5
35°	2493.5	2489.4	2450.5	2389.0	2306.9	2185.5	2099.0	2048.6	2044.5	1969.0
37.5°	2773.2	2773.2	2735.1	2667.8	2582.9	2431.2	2299.5	2219.6	2206.5	2108.0
40°	2996.3	2982.8	2989.8	2961.5	2864.3	2703.1	2522.2	2406.2	2388.5	2270.4
42.5°	3123.1	3118.6	3160.4	3192.0	3152.2	3023.4	2767.5	2608.4	2583.8	2449.2
45°	3151.4	3146.4	3221.1	3336.7	3392.5	3339.6	3034.1	2821.2	2791.3	2636.3
47.5°	3086.2	3076.3	3185.8	3368.3	3547.1	3640.2	3322.8	3052.1	3008.6	2818.4
50°	2890.1	2880.7	3046.4	3288.8	3599.2	3844.5	3636.1	3297.0	3230.5	3013.6
52.5°	2464.0	2468.5	2728.1	3061.1	3530.7	3971.6	3906.0	3554.9	3475.0	3213.3
55°	1919.4	1929.2	2248.3	2614.9	3256.8	3952.3	4090.1	3820.7	3741.1	3401.1
57.5°	1374.3	1417.8	1716.8	2079.7	2730.6	3646.8	4130.3	4073.3	3996.2	3606.2
60°	890.8	898.6	1206.2	1572.0	2079.3	3103.8	4048.7	4264.8	4204.6	3815.4
62.5°	570.9	576.2	763.6	1099.5	1496.5	2296.3	3773.9	4348.1	4329.6	3953.6
65°	419.6	415.5	513.1	726.7	1008.1	1416.1	3240.4	4307.9	4344.4	4040.1
67.5°	350.2	344.5	392.5	503.2	742.7	804.2	2397.6	4046.7	4180.4	4030.3
70°	319.1	314.2	343.3	373.6	579.5	538.5	1208.6	3518.0	3723.9	3918.3
72.5°	270.3	261.7	301.4	331.8	450.7	413.0	499.5	2702.3	2953.3	3559.4
75°	209.6	203.8	237.9	292.0	338.8	322.4	315.8	1640.9	1914.9	2752.7
77.5°	166.1	158.3	189.5	227.6	304.7	243.2	230.1	706.6	978.1	1757.4
80°	125.1	118.1	144.0	180.0	234.2	183.3	148.9	288.3	368.7	890.4
82.5°	89.0	82.8	100.5	132.1	157.5	164.5	91.5	161.6	181.7	343.3
85°	57.0	53.3	67.3	82.8	100.1	105.8	55.8	84.5	92.7	141.5
87.5°	31.2	25.4	36.1	38.6	46.3	42.2	26.7	30.8	33.2	51.3
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°
871.1	0°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
872.7	2.5°	874.4	875.6	879.7	880.9	883.8	887.5	890.0	892.4	892.4	894.9
885.9	5°	886.3	889.1	897.8	902.3	909.6	917.0	921.5	926.9	930.2	931.8
906.8	7.5°	909.2	913.7	926.1	933.8	946.6	956.8	963.8	971.2	972.8	977.3
935.9	10°	940.4	945.7	959.7	974.4	989.6	1002.3	1008.9	1014.2	1016.3	1017.1
973.2	12.5°	976.1	983.9	1001.9	1020.0	1036.0	1047.0	1048.7	1047.4	1041.7	1036.8
1019.2	15°	1020.0	1026.9	1047.0	1066.7	1082.3	1084.4	1074.1	1067.5	1060.6	1059.3
1070.4	17.5°	1072.5	1076.2	1094.6	1113.9	1115.1	1108.1	1093.0	1086.8	1080.3	1075.7
1137.3	20°	1133.6	1132.3	1145.5	1153.7	1145.1	1123.7	1100.8	1090.5	1083.9	1078.6
1219.3	22.5°	1206.6	1197.1	1195.5	1193.5	1170.5	1125.8	1094.6	1081.5	1071.2	1063.9
1333.7	25°	1312.8	1276.7	1251.7	1237.7	1186.1	1114.7	1074.9	1045.8	1026.5	1013.8
1473.6	27.5°	1445.7	1385.0	1321.8	1287.8	1186.1	1092.2	1027.4	980.2	948.6	935.5
1608.9	30°	1572.4	1508.8	1415.7	1348.1	1183.2	1055.2	950.7	885.0	848.1	835.0
1724.6	32.5°	1680.7	1611.4	1515.4	1414.1	1176.2	995.4	855.5	782.9	747.2	731.7
1839.0	35°	1781.2	1707.3	1615.5	1486.7	1157.8	907.6	750.9	695.6	655.8	630.8
1955.5	37.5°	1884.1	1796.3	1710.2	1552.3	1124.6	805.1	670.5	623.4	576.6	543.0
2079.3	40°	1996.1	1891.1	1811.5	1591.3	1070.0	707.5	608.2	565.1	515.5	479.8
2222.0	42.5°	2126.9	2004.7	1924.3	1611.4	995.4	638.1	567.6	525.4	478.6	449.5
2375.0	45°	2263.5	2129.8	2027.2	1611.0	912.1	605.7	554.5	512.7	461.0	430.6
2532.1	47.5°	2406.6	2260.6	2116.2	1584.7	839.9	610.3	547.1	485.2	428.2	398.6
2690.8	50°	2550.1	2403.7	2202.3	1535.5	809.2	600.4	519.6	446.6	379.4	352.7
2839.7	52.5°	2692.4	2555.9	2276.6	1465.4	778.0	563.9	484.4	396.6	359.3	340.8
2993.5	55°	2835.6	2706.4	2357.4	1363.2	700.1	521.3	425.3	377.7	343.3	326.5
3144.0	57.5°	2979.1	2880.3	2434.1	1261.1	602.1	468.8	392.9	354.8	327.3	312.9
3269.9	60°	3128.4	3079.2	2513.2	1167.2	505.3	401.5	369.1	336.3	308.4	292.4
3390.9	62.5°	3282.2	3298.2	2575.1	1046.2	416.3	360.5	347.8	314.2	287.1	271.9
3490.9	65°	3437.2	3509.4	2615.8	878.5	337.5	321.5	324.8	290.0	262.5	249.4
3564.4	67.5°	3554.1	3661.6	2604.3	664.8	276.8	284.6	296.1	264.5	238.7	228.4
3552.5	70°	3567.2	3643.5	2491.1	455.2	231.7	248.5	264.1	239.5	212.9	205.5
3385.1	72.5°	3392.5	3397.4	2175.7	297.3	196.0	218.2	230.5	214.1	188.2	180.9
2961.5	75°	2934.4	2809.7	1597.4	196.0	164.0	187.4	198.9	187.4	162.4	164.0
2215.9	77.5°	2223.3	1989.9	969.9	139.4	137.0	157.5	173.1	164.9	143.5	161.2
1114.3	80°	1145.5	1076.6	432.7	104.2	108.3	125.9	142.3	131.6	113.6	108.3
248.9	82.5°	262.5	305.1	170.6	74.6	78.3	90.6	108.7	98.8	81.6	68.9
103.8	85°	91.9	100.5	75.5	46.8	45.9	56.6	73.8	66.0	55.4	44.3
43.9	87.5°	29.1	38.1	28.3	18.9	19.7	25.4	34.0	31.2	25.8	16.8
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>
871.1
894.9
932.6
975.7
1015.0
1036.8
1059.3
1076.2
1079.0
1066.3
1018.7
942.0
842.8
739.4
639.0
552.0
486.8
455.2
435.5
402.7
354.3
340.8
324.8
310.5
291.2
271.5
248.9
228.8
205.9
180.5
158.3
141.9
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46.8
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