

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: P946782

Luminaire Tested: **GALN-SB2B-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946782  
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-SB2B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

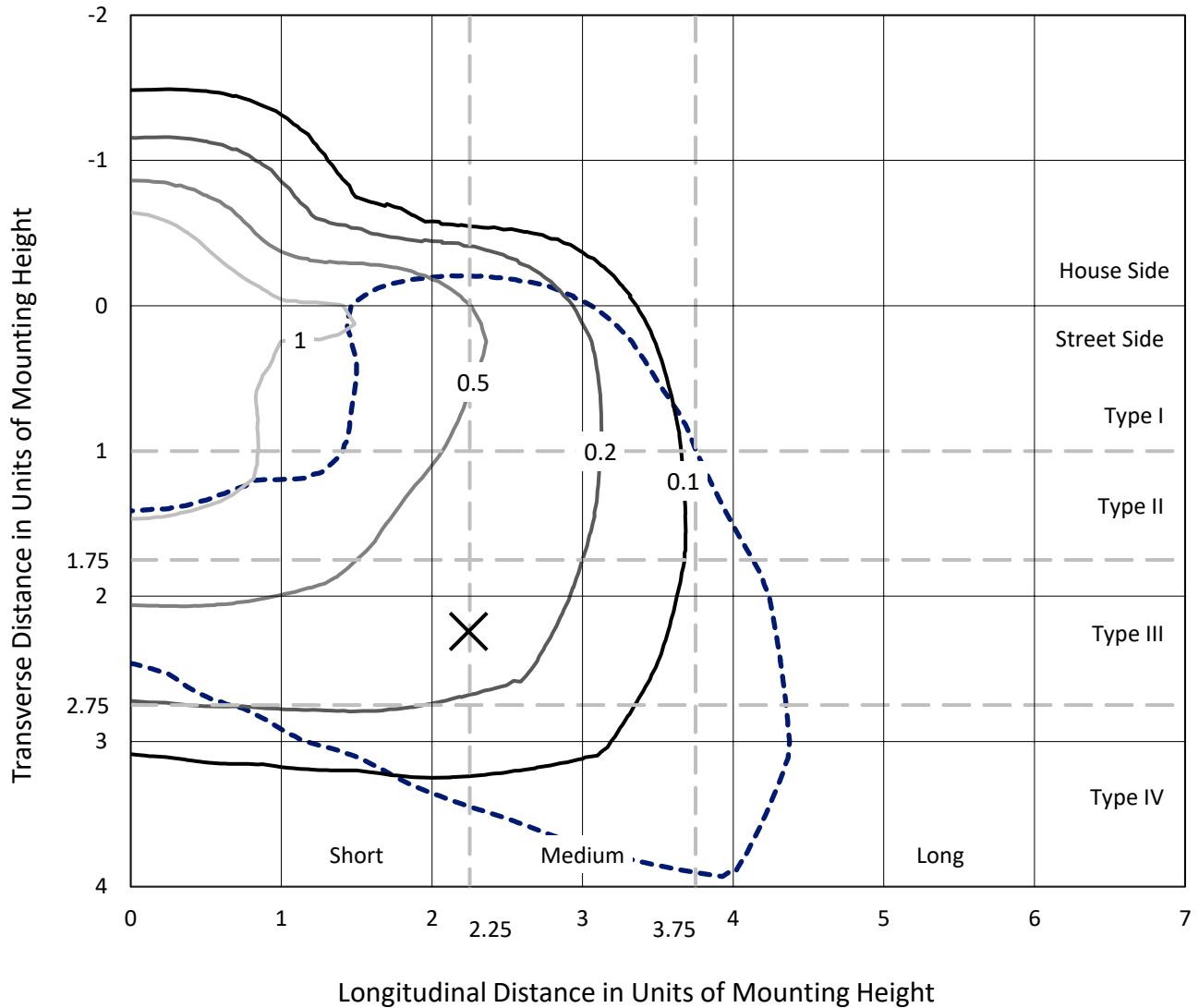
Lumens per Lamp: N/A  
Luminaire Lumens: 9773 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

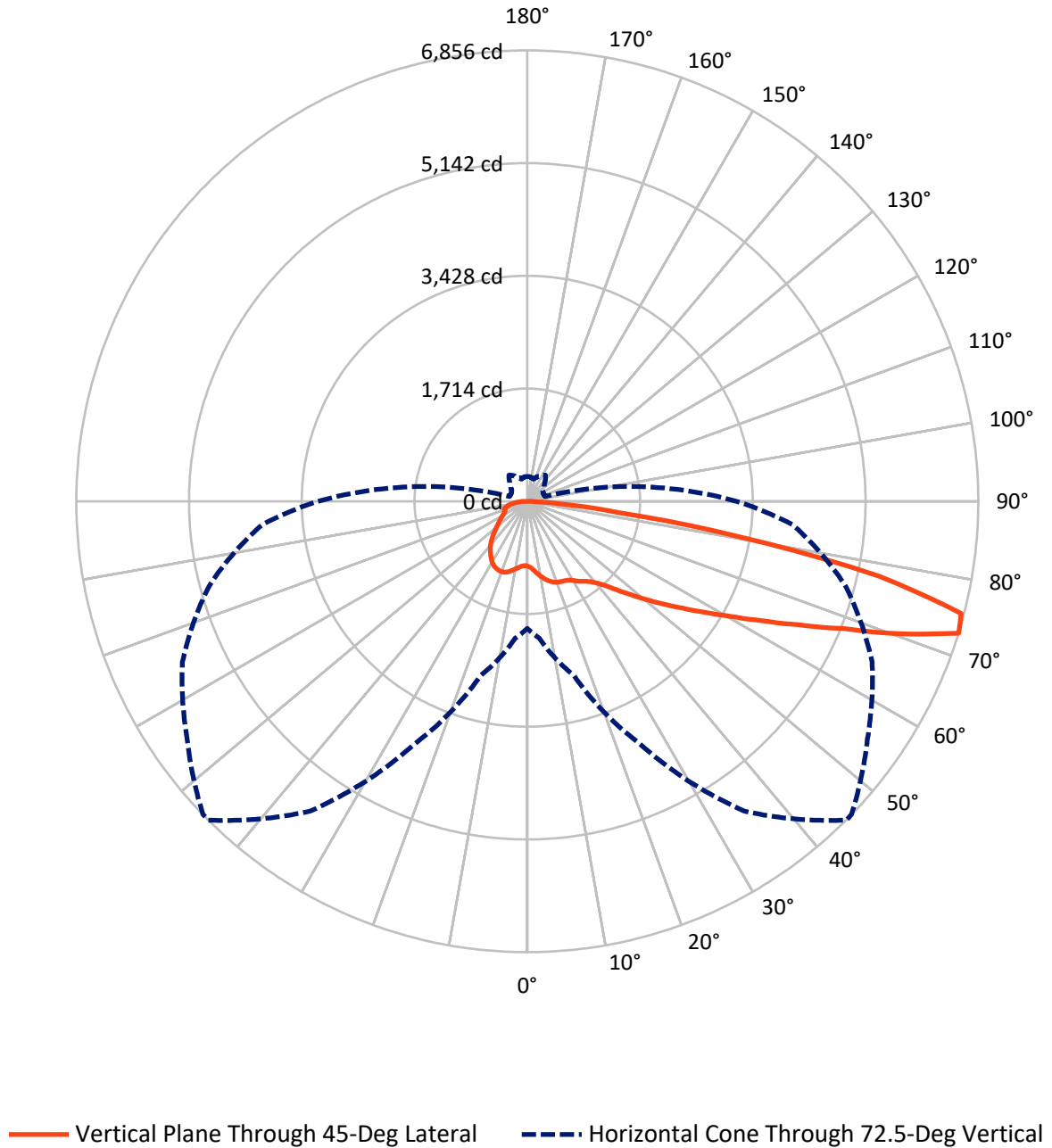
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	2209.3	0.0	2209.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	7563.7	0.0	7563.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	9773.0	0.0	9773.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.0
10°-20°	334.6	3.4
20°-30°	582.0	6.0
30°-40°	834.3	8.5
40°-50°	1174.8	12.0
50°-60°	1799.4	18.4
60°-70°	2606.7	26.7
70°-80°	2081.6	21.3
80°-90°	259.3	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°	9773.0	100.0
0°-180°	9773.0	100.0

**Coefficient of Utilization**



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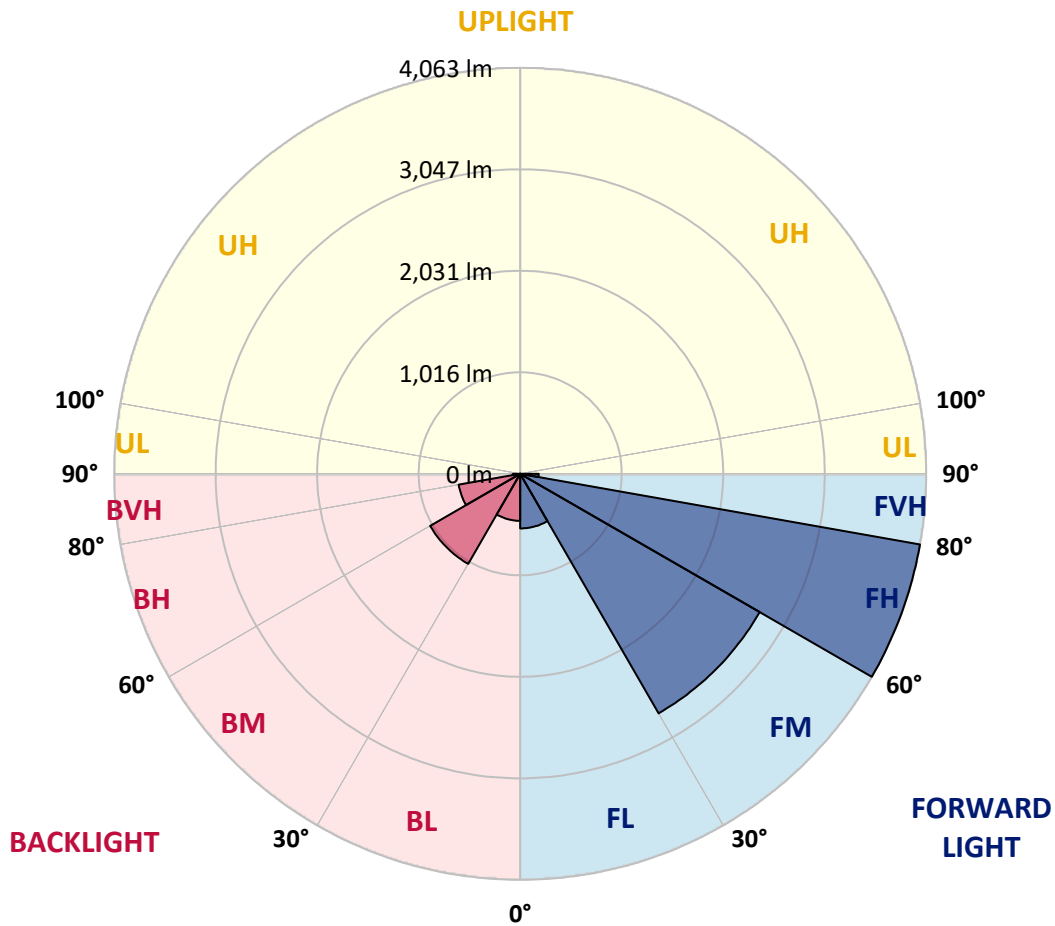
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.5	5.6			
FM (30°-60°)	2768.2	28.3			
FH (60°-80°)	4062.9	41.6			G2/5000
FVH (80°-90°)	186.0	1.9			G2/225
BL (0°-30°)	470.4	4.8	B1/500		
BM (30°-60°)	1040.3	10.6	B2/2500		
BH (60°-80°)	625.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	73.3	0.7			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9
2.5°	1024.5	1031.2	1025.0	1019.4	1016.8	1010.1	1009.6	1005.5	1002.9	995.7
5°	1096.1	1104.8	1094.5	1083.2	1072.9	1056.4	1054.4	1042.5	1029.2	1013.7
7.5°	1176.9	1184.6	1172.8	1155.8	1137.8	1110.5	1110.0	1088.4	1067.2	1041.0
10°	1247.4	1257.7	1241.8	1218.6	1196.0	1165.1	1161.5	1136.8	1110.0	1076.0
12.5°	1309.7	1316.9	1301.5	1273.2	1246.9	1216.0	1211.4	1184.1	1154.3	1115.6
15°	1359.2	1368.4	1347.8	1317.5	1289.7	1259.3	1255.2	1230.5	1200.6	1159.9
17.5°	1391.6	1399.3	1378.2	1344.2	1317.5	1292.2	1289.1	1268.5	1242.3	1201.1
20°	1404.0	1412.2	1390.0	1355.6	1330.8	1311.3	1309.7	1294.8	1276.8	1239.2
22.5°	1416.3	1424.0	1395.2	1359.2	1337.5	1325.2	1324.7	1314.9	1307.7	1276.8
25°	1466.2	1468.3	1429.7	1377.7	1346.8	1336.0	1335.5	1335.0	1338.1	1313.9
27.5°	1509.5	1509.0	1476.0	1427.1	1379.2	1356.6	1356.1	1361.2	1371.0	1350.9
30°	1572.8	1567.2	1528.0	1477.1	1433.3	1398.3	1395.2	1390.6	1398.3	1382.3
32.5°	1707.2	1689.2	1625.8	1535.2	1478.1	1451.3	1447.2	1418.4	1421.5	1411.7
35°	1899.7	1876.1	1791.6	1645.4	1533.7	1495.6	1493.5	1457.0	1450.8	1442.0
37.5°	2128.8	2099.5	2001.2	1805.0	1629.4	1547.1	1544.0	1511.0	1485.8	1476.5
40°	2359.0	2321.9	2240.6	1999.6	1770.5	1633.1	1623.3	1573.3	1544.5	1529.1
42.5°	2582.4	2551.5	2482.0	2217.9	1944.5	1758.7	1737.0	1651.6	1630.0	1615.5
45°	2780.1	2752.3	2701.3	2451.1	2148.4	1929.6	1908.5	1769.0	1762.3	1762.3
47.5°	2940.7	2934.5	2880.5	2689.0	2388.8	2124.2	2087.6	1932.2	1950.2	1978.0
50°	3118.9	3101.9	3044.2	2923.2	2671.5	2347.1	2317.3	2132.4	2199.9	2276.1
52.5°	3282.6	3291.8	3227.5	3167.3	2990.7	2595.8	2543.3	2368.7	2514.4	2640.6
55°	3450.9	3451.4	3433.4	3425.2	3325.3	2870.7	2813.0	2652.9	2884.6	3041.1
57.5°	3609.0	3610.0	3636.8	3709.4	3713.5	3187.8	3122.5	3002.0	3296.0	3455.6
60°	3750.0	3757.3	3830.4	4000.3	4054.8	3551.3	3489.5	3414.4	3721.2	3881.8
62.5°	3797.4	3823.7	3986.4	4227.8	4392.0	3997.2	3936.4	3891.6	4168.1	4317.4
65°	3717.1	3777.3	4091.9	4415.7	4739.0	4526.9	4466.7	4417.8	4632.5	4773.0
67.5°	3519.9	3597.7	4085.7	4612.9	5160.2	5164.3	5108.2	4993.4	5130.3	5184.4
70°	3000.4	3116.8	3725.8	4686.5	5643.6	6035.9	5981.8	5686.3	5627.1	5365.6
72.5°	1933.2	2089.7	2743.5	4080.6	5751.2	6856.0	6852.9	6311.9	5784.2	5013.4
75°	705.3	801.1	1274.7	2561.3	4827.6	6814.3	6834.4	6204.8	5280.1	3872.6
77.5°	256.9	281.1	416.0	984.4	2969.0	5467.5	5509.2	4960.4	3758.3	1943.5
80°	134.9	148.3	213.1	382.0	1272.2	3247.1	3312.4	2947.9	1766.4	585.4
82.5°	74.7	80.8	119.4	207.5	573.0	1388.5	1427.6	1164.6	621.4	248.1
85°	40.2	42.7	56.1	113.3	280.1	481.4	492.2	348.0	247.6	145.7
87.5°	11.8	14.4	18.5	36.0	109.7	108.1	110.7	69.0	97.8	73.6
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°
985.9	0°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9
993.6	2.5°	990.5	989.0	983.3	980.8	977.7	977.2	979.7	980.2	980.8	981.3
1005.0	5°	999.8	994.7	989.5	986.4	987.4	988.0	993.1	996.7	999.3	1001.4
1026.1	7.5°	1017.8	1013.7	1005.0	1004.4	1006.0	1010.6	1017.3	1025.5	1030.2	1033.8
1053.3	10°	1044.6	1036.9	1026.6	1028.1	1031.2	1037.9	1051.8	1058.5	1066.2	1072.9
1086.8	12.5°	1071.9	1065.2	1053.3	1054.4	1059.5	1071.4	1084.8	1093.0	1098.1	1103.3
1122.9	15°	1107.4	1095.6	1082.7	1082.7	1092.0	1104.8	1111.0	1117.7	1120.8	1126.5
1161.5	17.5°	1144.0	1128.5	1111.5	1110.5	1121.8	1128.0	1131.6	1132.6	1133.7	1139.8
1199.0	20°	1180.5	1163.5	1139.3	1137.3	1139.8	1138.8	1138.3	1137.3	1138.8	1146.5
1237.7	22.5°	1216.6	1197.0	1163.5	1154.3	1147.0	1137.3	1136.8	1136.2	1137.3	1145.0
1279.4	25°	1258.8	1235.1	1190.3	1162.5	1138.3	1124.9	1126.5	1127.0	1128.0	1134.2
1322.6	27.5°	1304.6	1278.3	1215.0	1159.9	1116.2	1106.9	1104.3	1105.9	1109.5	1119.2
1365.9	30°	1350.4	1319.5	1237.7	1149.6	1088.4	1075.5	1067.2	1070.9	1082.2	1092.0
1403.4	32.5°	1392.1	1361.2	1255.7	1127.0	1052.8	1032.8	1021.9	1026.6	1037.9	1041.5
1445.1	35°	1441.0	1406.0	1263.4	1090.9	1014.2	983.3	968.9	962.2	967.9	964.3
1494.0	37.5°	1495.6	1459.0	1262.4	1043.6	968.9	933.4	913.3	888.1	876.2	863.9
1566.1	40°	1576.4	1523.9	1250.0	986.4	912.8	880.4	844.3	801.6	774.8	750.6
1682.5	42.5°	1686.6	1614.0	1227.4	923.6	849.5	819.1	770.2	720.3	678.0	637.9
1859.1	45°	1850.8	1731.9	1199.0	856.7	781.0	751.1	698.1	642.0	594.1	542.6
2109.8	47.5°	2087.6	1890.5	1172.3	780.5	708.9	681.6	633.8	581.8	525.1	475.2
2472.2	50°	2413.0	2118.0	1147.6	706.4	637.9	617.3	579.2	526.2	469.0	428.9
2897.0	52.5°	2826.9	2427.4	1137.3	634.8	571.5	563.7	533.4	483.9	429.9	395.9
3392.2	55°	3302.1	2797.6	1137.3	566.3	513.3	515.9	494.8	448.9	402.1	371.7
3903.0	57.5°	3787.1	3172.4	1116.7	503.0	463.9	474.7	461.3	421.1	378.9	347.5
4439.9	60°	4234.0	3486.5	1033.3	445.3	420.1	437.1	428.3	393.8	342.4	316.1
4888.9	62.5°	4577.4	3663.6	872.6	399.5	384.1	403.6	399.0	357.8	335.7	324.9
5257.5	65°	4749.3	3634.7	667.2	358.8	353.7	384.1	374.3	372.7	355.2	342.9
5377.4	67.5°	4643.8	3386.6	483.9	329.0	336.2	366.0	403.6	409.8	377.4	353.2
5039.7	70°	4181.0	2937.6	360.4	300.7	314.0	366.6	460.3	428.9	370.2	341.8
4042.0	72.5°	3180.6	2190.6	279.6	270.8	285.2	369.1	485.5	420.1	349.6	377.9
2518.0	75°	1818.9	1202.7	224.5	234.2	249.2	344.9	472.6	397.5	333.6	347.0
997.7	77.5°	693.5	462.3	185.3	198.2	200.3	301.2	452.0	395.9	317.7	309.9
299.1	80°	240.4	180.7	153.4	157.5	155.0	267.7	433.5	344.4	260.0	232.7
123.6	82.5°	98.3	90.1	121.5	116.4	110.2	208.0	350.1	281.6	212.6	187.9
59.7	85°	42.7	57.1	80.3	70.5	63.8	144.2	280.6	238.4	179.7	155.0
19.6	87.5°	8.8	21.6	34.0	31.9	32.9	96.3	199.2	169.4	127.2	95.2
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>
985.9
983.3
1002.4
1034.8
1071.4
1105.3
1128.5
1141.9
1149.6
1150.1
1142.4
1129.0
1102.8
1054.4
975.6
871.6
752.2
634.3
536.5
469.5
426.3
393.3
368.6
342.4
312.0
321.3
338.8
349.1
337.2
374.8
347.0
282.6
225.0
185.9
154.4
74.7
0.0

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