

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: P945984

Luminaire Tested: **GALN-SB1D-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945984  
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-SB1D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10160 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

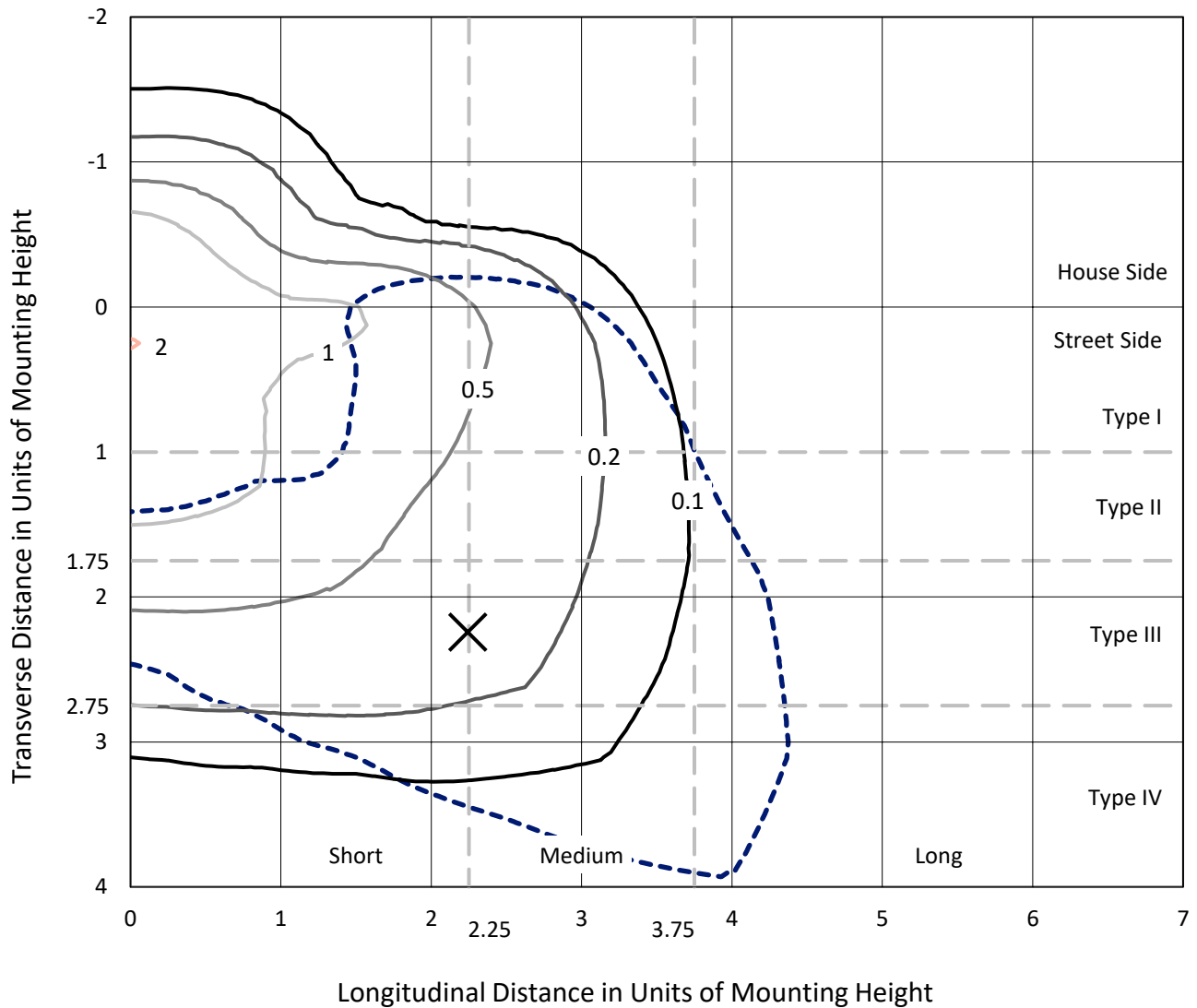
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

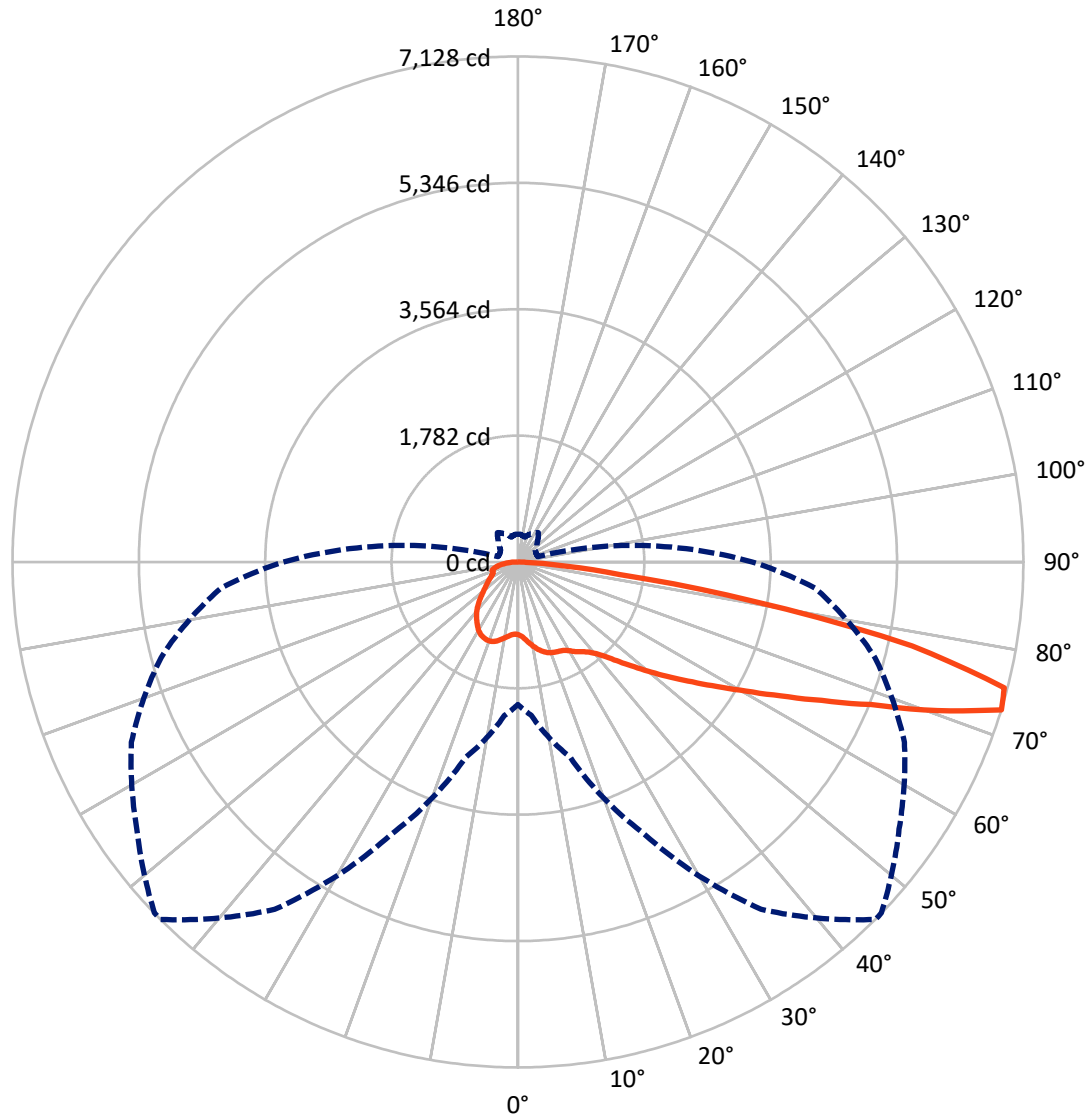
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2296.8	0.0	2296.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	7863.2	0.0	7863.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	10160.0	0.0	10160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	1.0
10°-20°	347.8	3.4
20°-30°	605.0	6.0
30°-40°	867.4	8.5
40°-50°	1221.3	12.0
50°-60°	1870.7	18.4
60°-70°	2709.9	26.7
70°-80°	2164.0	21.3
80°-90°	269.5	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°	10160.0	100.0
0°-180°	10160.0	100.0

**Coefficient of Utilization**



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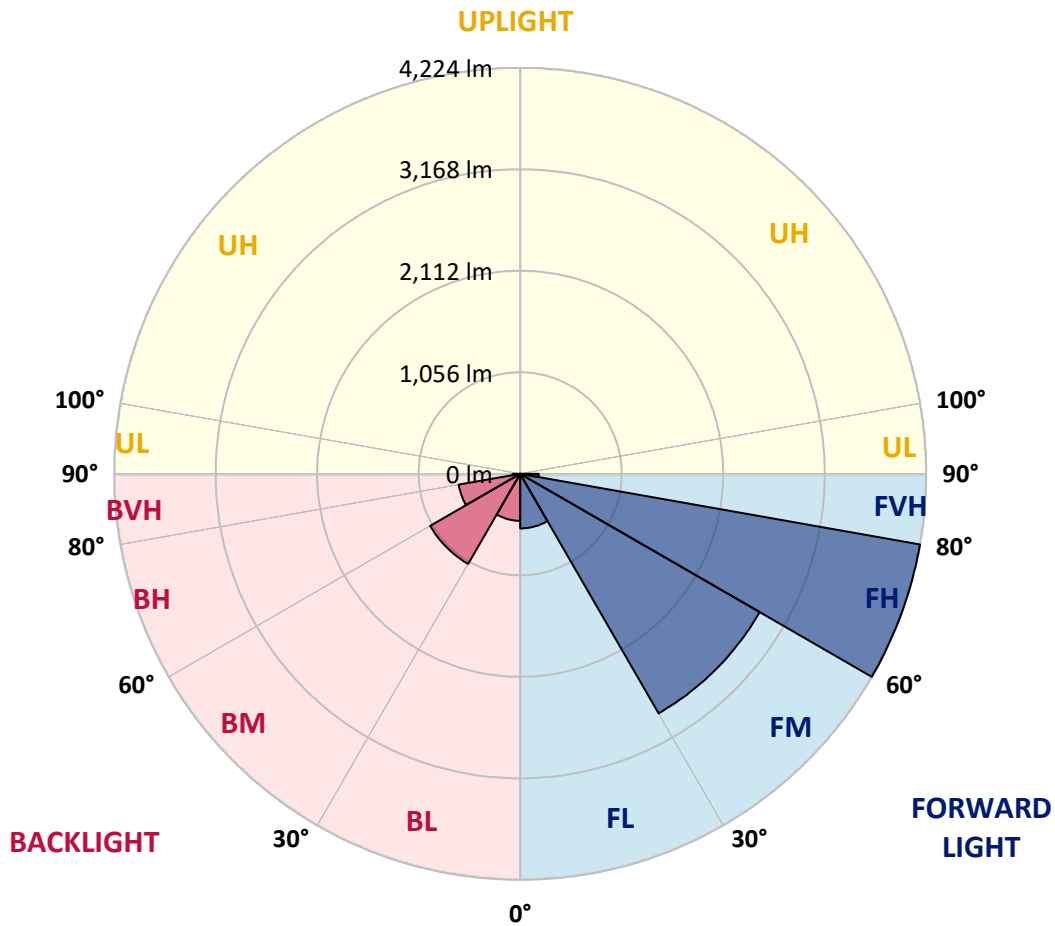
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.2	5.6			
FM (30°-60°)	2877.8	28.3			
FH (60°-80°)	4223.8	41.6			G2/5000
FVH (80°-90°)	193.4	1.9			G2/225
BL (0°-30°)	489.0	4.8	B1/500		
BM (30°-60°)	1081.5	10.6	B2/2500		
BH (60°-80°)	650.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	76.2	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°	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9
2.5°	1065.1	1072.0	1065.6	1059.7	1057.1	1050.1	1049.6	1045.3	1042.6	1035.1
5°	1139.5	1148.6	1137.9	1126.1	1115.4	1098.3	1096.1	1083.8	1069.9	1053.8
7.5°	1223.5	1231.5	1219.2	1201.6	1182.8	1154.5	1153.9	1131.5	1109.5	1082.2
10°	1296.8	1307.5	1291.0	1266.9	1243.3	1211.2	1207.5	1181.8	1153.9	1118.6
12.5°	1361.6	1369.1	1353.0	1323.6	1296.3	1264.2	1259.4	1231.0	1200.0	1159.8
15°	1413.0	1422.6	1401.2	1369.6	1340.7	1309.1	1304.9	1279.2	1248.1	1205.9
17.5°	1446.7	1454.7	1432.8	1397.5	1369.6	1343.4	1340.2	1318.8	1291.5	1248.7
20°	1459.5	1468.1	1445.1	1409.2	1383.5	1363.2	1361.6	1346.1	1327.3	1288.3
22.5°	1472.4	1480.4	1450.4	1413.0	1390.5	1377.7	1377.1	1367.0	1359.5	1327.3
25°	1524.3	1526.4	1486.3	1432.2	1400.1	1388.9	1388.4	1387.8	1391.0	1365.9
27.5°	1569.3	1568.7	1534.5	1483.6	1433.9	1410.3	1409.8	1415.1	1425.3	1404.4
30°	1635.1	1629.2	1588.5	1535.5	1490.1	1453.7	1450.4	1445.6	1453.7	1437.1
32.5°	1774.8	1756.1	1690.2	1596.0	1536.6	1508.8	1504.5	1474.5	1477.7	1467.6
35°	1975.0	1950.3	1862.6	1710.6	1594.4	1554.8	1552.7	1514.7	1508.2	1499.2
37.5°	2213.1	2182.6	2080.4	1876.5	1694.0	1608.3	1605.1	1570.9	1544.6	1535.0
40°	2452.4	2413.8	2329.3	2078.8	1840.6	1697.7	1687.5	1635.6	1605.7	1589.6
42.5°	2684.7	2652.6	2580.3	2305.7	2021.5	1828.3	1805.8	1717.0	1694.5	1679.5
45°	2890.2	2861.3	2808.3	2548.2	2233.5	2006.0	1984.1	1839.0	1832.1	1832.1
47.5°	3057.2	3050.8	2994.6	2795.5	2483.4	2208.3	2170.3	2008.7	2027.4	2056.3
50°	3242.4	3224.7	3164.8	3039.0	2777.3	2440.1	2409.0	2216.9	2287.0	2366.2
52.5°	3412.6	3422.2	3355.3	3292.7	3109.1	2698.6	2644.0	2462.5	2614.0	2745.1
55°	3587.6	3588.1	3569.4	3560.8	3457.0	2984.4	2924.4	2758.0	2998.8	3161.5
57.5°	3751.9	3753.0	3780.8	3856.3	3860.5	3314.1	3246.1	3120.9	3426.5	3592.4
60°	3898.5	3906.0	3982.0	4158.7	4215.4	3691.9	3627.7	3549.6	3868.6	4035.6
62.5°	3947.8	3975.1	4144.2	4395.2	4566.0	4155.4	4092.3	4045.7	4333.1	4488.4
65°	3864.3	3926.9	4253.9	4590.6	4926.7	4706.2	4643.6	4592.7	4815.9	4962.0
67.5°	3659.3	3740.1	4247.5	4795.6	5364.5	5368.8	5310.5	5191.1	5333.5	5389.7
70°	3119.3	3240.2	3873.4	4872.1	5867.1	6274.9	6218.7	5911.5	5850.0	5578.1
72.5°	2009.8	2172.5	2852.2	4242.2	5978.9	7127.5	7124.3	6561.8	6013.2	5212.0
75°	733.3	832.8	1325.2	2662.7	5018.8	7084.2	7105.0	6450.5	5489.2	4025.9
77.5°	267.1	292.2	432.5	1023.3	3086.6	5684.0	5727.4	5156.8	3907.1	2020.5
80°	140.2	154.1	221.6	397.1	1322.5	3375.6	3443.6	3064.7	1836.3	608.5
82.5°	77.6	84.0	124.2	215.7	595.7	1443.5	1484.2	1210.7	646.0	258.0
85°	41.7	44.4	58.3	117.7	291.2	500.4	511.7	361.8	257.4	151.5
87.5°	12.3	15.0	19.3	37.5	114.0	112.4	115.1	71.7	101.7	76.5
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°
1024.9	0°	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9
1033.0	2.5°	1029.8	1028.2	1022.3	1019.6	1016.4	1015.8	1018.5	1019.1	1019.6	1020.1
1044.7	5°	1039.4	1034.0	1028.7	1025.5	1026.6	1027.1	1032.4	1036.2	1038.9	1041.0
1066.7	7.5°	1058.1	1053.8	1044.7	1044.2	1045.8	1050.6	1057.6	1066.2	1071.0	1074.7
1095.1	10°	1086.0	1077.9	1067.2	1068.8	1072.0	1079.0	1093.5	1100.4	1108.4	1115.4
1129.8	12.5°	1114.3	1107.4	1095.1	1096.1	1101.5	1113.8	1127.7	1136.3	1141.6	1147.0
1167.3	15°	1151.3	1138.9	1125.6	1125.6	1135.2	1148.6	1155.0	1162.0	1165.2	1171.1
1207.5	17.5°	1189.3	1173.2	1155.5	1154.5	1166.2	1172.7	1176.4	1177.5	1178.6	1185.0
1246.5	20°	1227.3	1209.6	1184.4	1182.3	1185.0	1183.9	1183.4	1182.3	1183.9	1191.9
1286.7	22.5°	1264.7	1244.4	1209.6	1200.0	1192.5	1182.3	1181.8	1181.2	1182.3	1190.3
1330.0	25°	1308.6	1284.0	1237.4	1208.5	1183.4	1169.5	1171.1	1171.6	1172.7	1179.1
1375.0	27.5°	1356.2	1329.0	1263.1	1205.9	1160.4	1150.7	1148.0	1149.7	1153.4	1163.6
1419.9	30°	1403.9	1371.8	1286.7	1195.1	1131.5	1118.1	1109.5	1113.3	1125.0	1135.2
1459.0	32.5°	1447.2	1415.1	1305.4	1171.6	1094.5	1073.7	1062.4	1067.2	1079.0	1082.8
1502.4	35°	1498.1	1461.7	1313.4	1134.1	1054.4	1022.3	1007.3	1000.3	1006.2	1002.5
1553.2	37.5°	1554.8	1516.8	1312.4	1084.9	1007.3	970.4	949.5	923.3	910.9	898.1
1628.1	40°	1638.8	1584.3	1299.5	1025.5	948.9	915.2	877.8	833.3	805.5	780.4
1749.1	42.5°	1753.4	1677.9	1276.0	960.2	883.1	851.5	800.7	748.8	704.9	663.1
1932.7	45°	1924.1	1800.5	1246.5	890.6	811.9	780.9	725.8	667.4	617.6	564.1
2193.3	47.5°	2170.3	1965.3	1218.7	811.4	737.0	708.6	658.9	604.8	545.9	494.0
2570.1	50°	2508.6	2201.9	1193.0	734.3	663.1	641.7	602.1	547.0	487.6	445.8
3011.7	52.5°	2938.9	2523.6	1182.3	659.9	594.1	586.1	554.5	503.1	446.9	411.6
3526.6	55°	3432.9	2908.4	1182.3	588.7	533.6	536.3	514.3	466.7	418.0	386.4
4057.5	57.5°	3937.1	3298.0	1160.9	522.9	482.2	493.5	479.6	437.8	393.9	361.3
4615.7	60°	4401.6	3624.5	1074.2	463.0	436.7	454.4	445.3	409.4	355.9	328.6
5082.4	62.5°	4758.6	3808.6	907.2	415.3	399.3	419.6	414.8	372.0	349.0	337.7
5465.7	65°	4937.4	3778.7	693.6	373.0	367.7	399.3	389.1	387.5	369.3	356.5
5590.4	67.5°	4827.7	3520.7	503.1	342.0	349.5	380.5	419.6	426.0	392.3	367.2
5239.3	70°	4346.5	3054.0	374.7	312.6	326.5	381.1	478.5	445.8	384.8	355.4
4202.0	72.5°	3306.6	2277.4	290.6	281.5	296.5	383.8	504.7	436.7	363.4	392.9
2617.8	75°	1890.9	1250.3	233.4	243.5	259.0	358.6	491.3	413.2	346.8	360.7
1037.3	77.5°	720.9	480.6	192.7	206.1	208.2	313.1	469.9	411.6	330.2	322.2
311.0	80°	249.9	187.9	159.5	163.8	161.1	278.3	450.7	358.1	270.3	241.9
128.5	82.5°	102.2	93.7	126.3	121.0	114.5	216.2	363.9	292.8	221.0	195.4
62.1	85°	44.4	59.4	83.5	73.3	66.4	149.9	291.7	247.8	186.8	161.1
20.3	87.5°	9.1	22.5	35.3	33.2	34.3	100.1	207.1	176.1	132.2	99.0
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>
1024.9
1022.3
1042.1
1075.8
1113.8
1149.1
1173.2
1187.1
1195.1
1195.7
1187.7
1173.7
1146.4
1096.1
1014.2
906.1
782.0
659.4
557.7
488.1
443.2
408.9
383.2
355.9
324.3
334.0
352.2
362.9
350.6
389.6
360.7
293.8
233.9
193.2
160.6
77.6
0.0

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