

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: P946234

Luminaire Tested: **GALN-SB1D-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

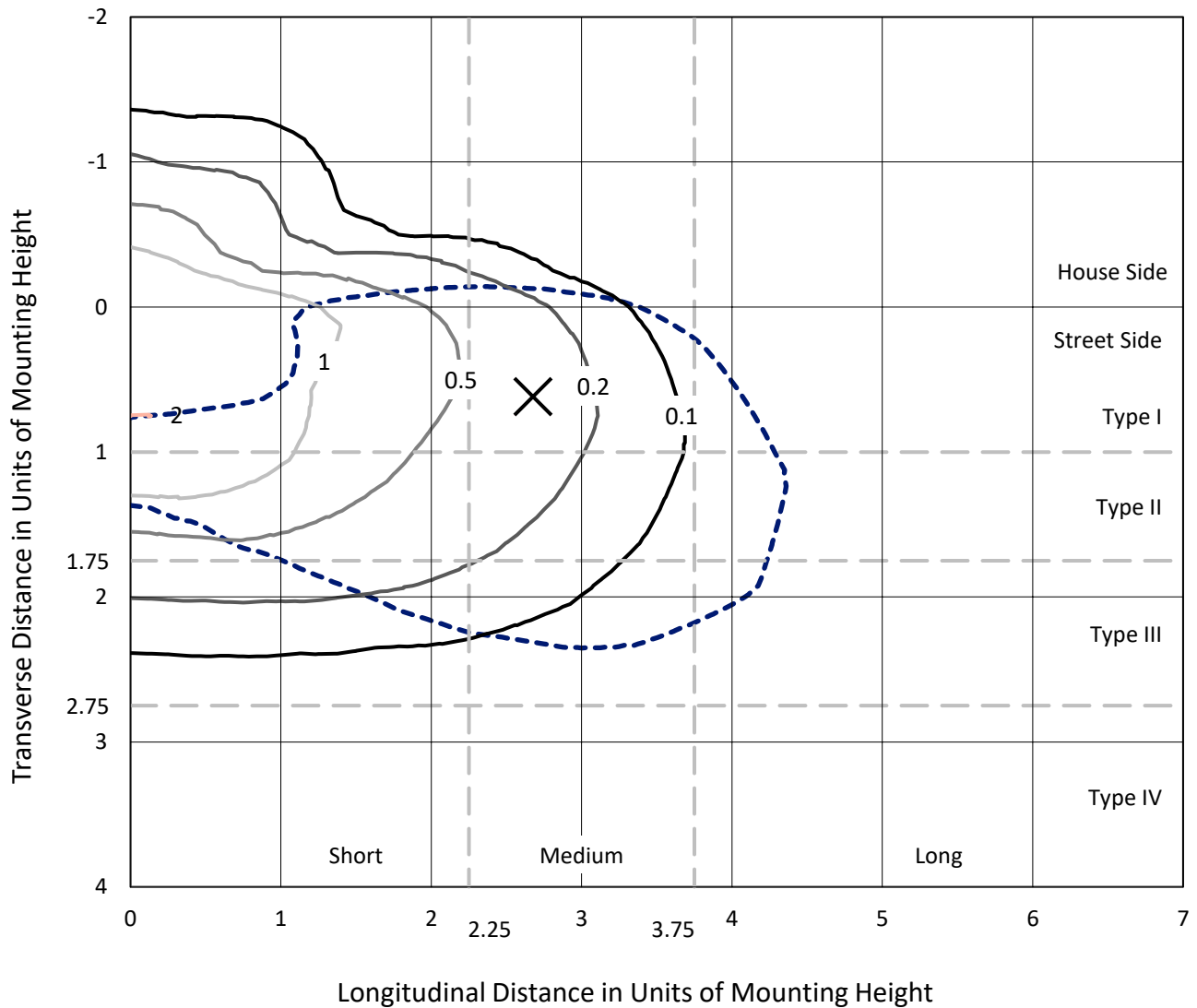
Lumens per Lamp: N/A  
Luminaire Lumens: 7573 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

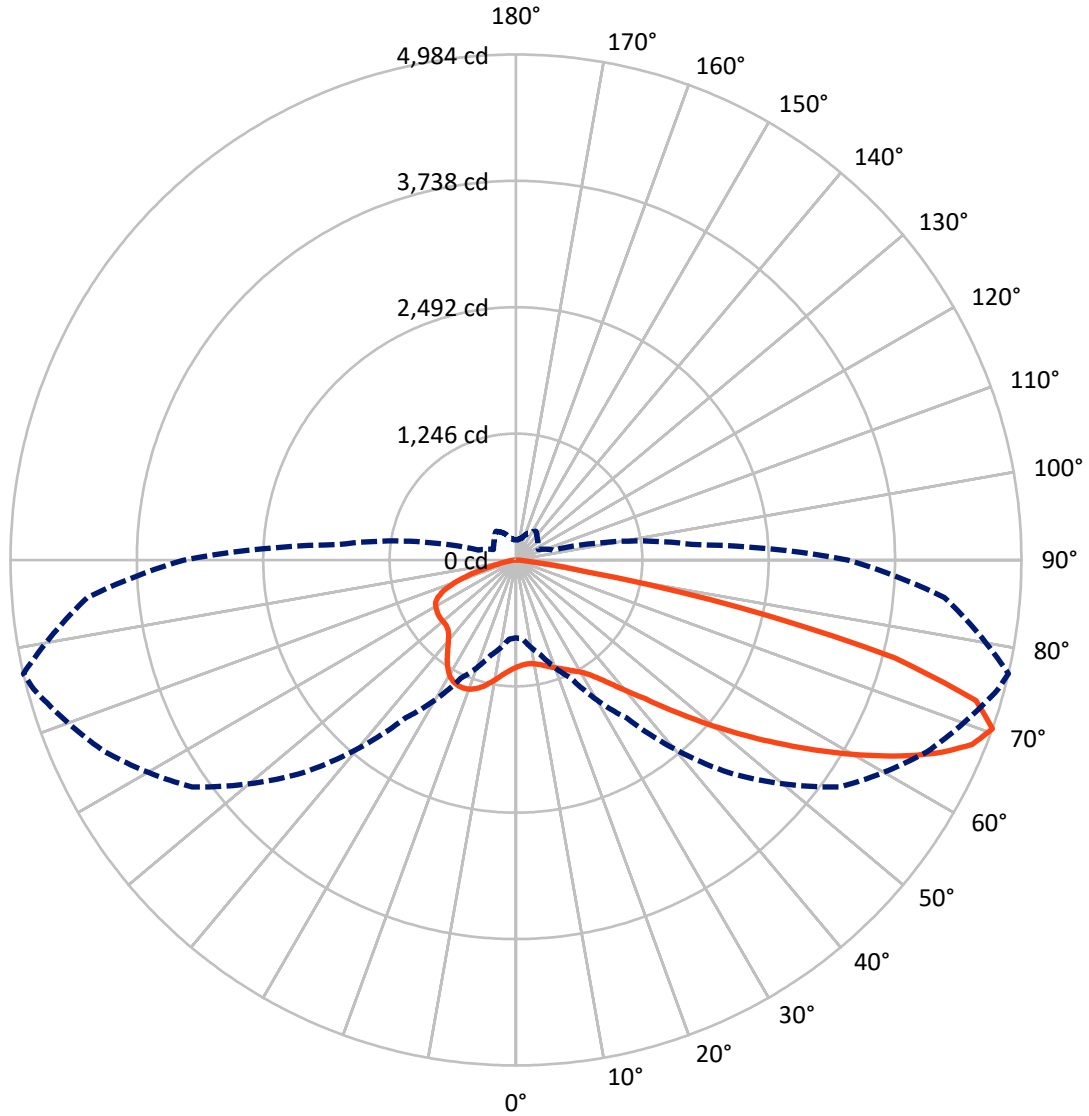
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1658.4	0.0	1658.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	5914.6	0.0	5914.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	7573.0	0.0	7573.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	1.3
10°-20°	290.8	3.8
20°-30°	497.3	6.6
30°-40°	799.7	10.6
40°-50°	1248.6	16.5
50°-60°	1667.9	22.0
60°-70°	1777.7	23.5
70°-80°	1094.3	14.5
80°-90°	95.9	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°	7573.0	100.0
0°-180°	7573.0	100.0

**Coefficient of Utilization**



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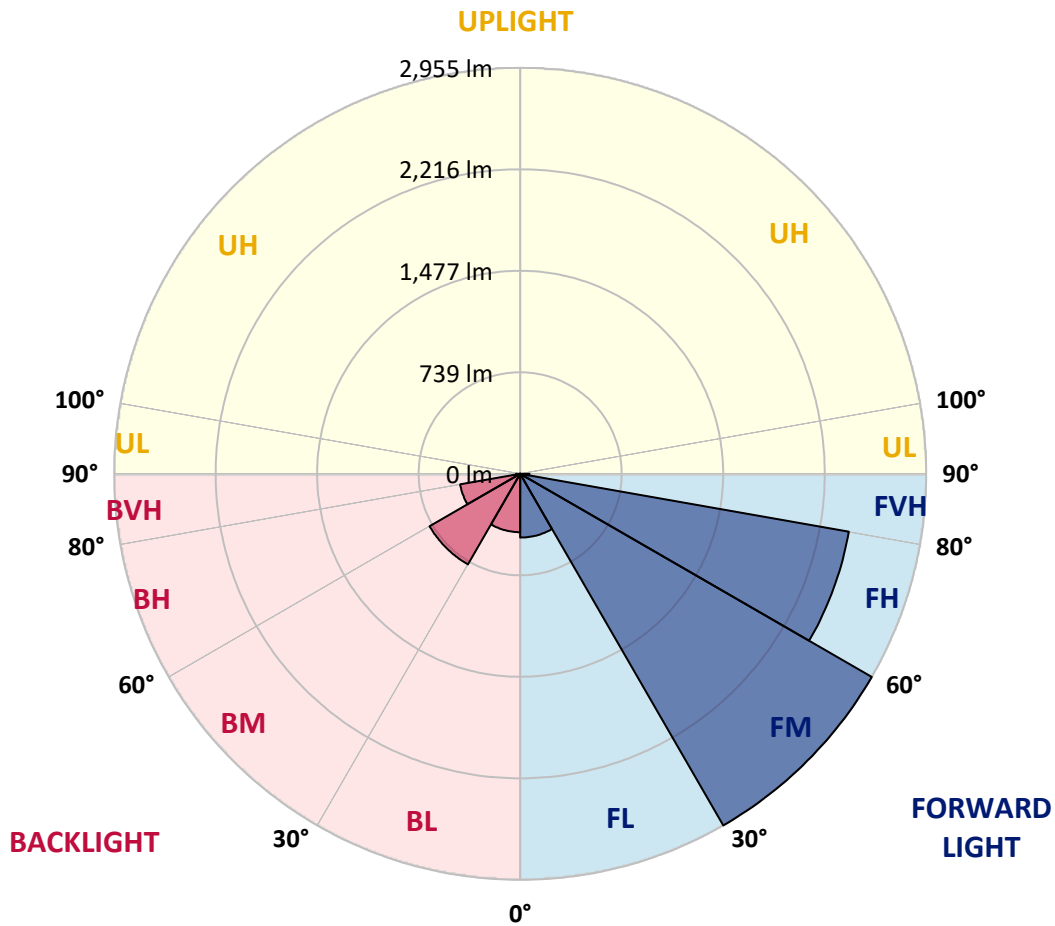
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.0	6.1			
FM (30°-60°)	2954.8	39.0			
FH (60°-80°)	2428.8	32.1			G2/5000
FVH (80°-90°)	67.1	0.9			G1/100
BL (0°-30°)	424.9	5.6	B1/500		
BM (30°-60°)	761.4	10.1	B1/1000		
BH (60°-80°)	443.2	5.9	B1/500		G1/500
BVH (80°-90°)	28.8	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	973.9	973.5	978.5	980.1	989.4	996.0	1008.4	1021.6	1038.7	1040.6
5°	917.7	917.7	923.5	929.7	941.7	954.9	973.9	996.8	1026.3	1030.9
7.5°	869.9	873.0	878.1	890.1	904.1	923.1	952.2	984.8	1023.5	1030.9
10°	831.5	835.0	841.2	850.9	871.9	898.3	936.3	978.2	1030.1	1041.8
12.5°	819.5	823.0	826.5	833.9	853.3	884.3	929.7	981.3	1046.0	1057.7
15°	847.5	851.7	849.0	847.1	857.1	885.5	932.8	992.5	1065.8	1082.5
17.5°	911.8	913.4	907.2	889.0	887.4	902.5	947.5	1008.0	1090.6	1108.9
20°	1015.8	1013.1	1000.3	964.2	943.6	940.5	972.7	1031.3	1116.2	1135.6
22.5°	1157.0	1153.9	1128.3	1071.2	1025.5	995.2	1009.2	1061.5	1144.9	1166.7
25°	1333.0	1328.8	1291.2	1213.6	1142.6	1067.8	1058.8	1101.5	1180.2	1200.4
27.5°	1538.6	1535.1	1494.4	1392.0	1289.6	1167.0	1120.5	1148.4	1217.1	1240.0
30°	1759.7	1769.8	1697.6	1587.5	1457.9	1296.6	1203.5	1206.2	1264.8	1285.3
32.5°	2019.5	2037.0	1950.1	1810.5	1633.6	1437.4	1308.2	1286.9	1334.2	1351.3
35°	2277.1	2296.8	2224.7	2070.3	1866.7	1603.4	1417.6	1379.6	1426.5	1445.1
37.5°	2499.7	2526.1	2488.8	2354.6	2116.1	1803.5	1560.3	1488.6	1540.2	1563.4
40°	2675.4	2715.7	2713.0	2629.2	2410.1	2046.3	1741.4	1623.2	1681.3	1706.5
42.5°	2818.1	2853.0	2883.3	2879.0	2716.9	2322.1	1954.4	1798.1	1842.3	1871.4
45°	2916.6	2953.9	3019.0	3089.2	3012.0	2617.2	2198.3	2005.6	2045.9	2089.7
47.5°	3004.7	3046.9	3131.5	3242.8	3262.6	2913.5	2465.6	2247.2	2284.0	2329.4
50°	3012.4	3048.9	3180.0	3337.8	3440.6	3198.2	2752.6	2518.3	2552.8	2601.3
52.5°	2825.1	2882.5	3111.3	3335.1	3522.5	3436.3	3037.6	2800.3	2839.1	2897.2
55°	2192.9	2277.1	2910.0	3231.2	3493.4	3590.3	3308.7	3100.1	3149.7	3210.6
57.5°	1888.8	1925.7	2310.0	3041.9	3360.7	3630.3	3537.6	3403.0	3482.9	3549.6
60°	1697.6	1728.3	1955.5	2747.5	3186.2	3567.1	3714.4	3685.3	3823.4	3902.9
62.5°	1492.8	1521.9	1728.6	2294.1	2962.8	3461.9	3826.1	3946.0	4172.5	4259.4
65°	1289.6	1314.4	1512.6	1927.6	2678.9	3356.8	3883.9	4171.3	4495.6	4585.5
67.5°	1063.1	1083.7	1271.0	1626.3	2333.7	3212.9	3912.6	4348.6	4776.8	4853.9
70°	767.2	783.1	976.6	1286.1	1900.5	2965.5	3901.0	4474.2	4922.6	4984.3
72.5°	362.6	377.0	604.3	835.0	1342.3	2483.8	3665.6	4374.6	4774.4	4743.8
75°	193.5	205.9	347.1	458.1	709.0	1702.7	2999.6	3768.3	4009.2	3860.3
77.5°	131.1	140.8	214.9	275.0	323.9	808.3	1928.0	2609.1	2510.2	2264.3
80°	103.9	114.0	176.1	186.2	156.7	292.1	796.6	1207.8	867.6	693.9
82.5°	79.9	91.1	148.2	135.0	85.3	119.8	231.9	382.0	222.2	169.1
85°	48.9	60.9	116.4	86.1	48.1	54.7	78.7	106.3	67.9	56.6
87.5°	24.8	34.9	59.0	31.4	21.7	12.8	20.9	20.9	17.8	15.5
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°
1056.5	0°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
1051.1	2.5°	1060.4	1068.1	1081.3	1093.7	1103.4	1112.7	1122.0	1127.1	1128.6	1134.8
1056.9	5°	1072.8	1087.1	1112.7	1136.8	1151.9	1161.2	1167.8	1171.7	1172.5	1174.4
1072.8	7.5°	1095.7	1118.6	1154.2	1178.3	1189.5	1188.8	1186.0	1176.3	1172.5	1169.0
1096.1	10°	1127.9	1158.1	1201.9	1218.6	1211.6	1193.0	1169.0	1140.7	1127.5	1114.7
1127.9	12.5°	1167.8	1206.2	1249.3	1248.5	1214.0	1166.3	1110.4	1067.0	1039.4	1019.7
1167.0	15°	1216.3	1260.5	1293.5	1267.1	1191.5	1105.8	1023.9	967.3	942.5	920.8
1206.6	17.5°	1266.3	1313.6	1328.8	1261.3	1134.8	1016.2	923.5	878.9	854.4	842.8
1249.3	20°	1315.2	1362.1	1349.7	1227.9	1048.7	914.5	831.9	807.5	802.5	805.2
1290.8	22.5°	1366.8	1408.7	1354.0	1163.5	939.0	810.6	765.2	766.0	777.3	785.4
1334.2	25°	1419.5	1447.8	1342.7	1070.5	821.1	734.2	723.0	735.4	757.5	773.4
1383.1	27.5°	1470.3	1482.7	1318.3	955.3	719.8	679.5	681.5	707.1	740.4	762.5
1442.4	30°	1527.7	1513.8	1271.4	825.7	649.6	632.6	648.9	678.7	712.1	731.9
1517.3	32.5°	1592.5	1540.5	1196.9	705.9	600.0	595.0	621.7	641.1	655.9	661.7
1616.6	35°	1673.2	1578.2	1101.5	621.7	555.4	567.4	593.0	583.3	577.5	574.4
1750.0	37.5°	1777.9	1629.0	989.8	567.0	519.3	547.6	558.1	527.9	505.0	493.7
1911.7	40°	1904.0	1703.4	882.4	524.8	496.4	530.6	512.3	475.9	446.8	430.9
2093.6	42.5°	2044.0	1781.4	792.0	493.0	483.6	516.6	478.6	435.2	388.2	383.2
2310.4	45°	2191.0	1861.7	730.3	468.5	477.4	504.6	459.2	389.0	355.7	376.2
2528.0	47.5°	2338.0	1935.4	693.1	450.3	474.3	491.0	442.1	363.4	339.8	369.6
2761.1	50°	2501.6	2001.3	676.4	437.1	470.8	485.6	416.6	356.8	323.1	342.9
3002.3	52.5°	2664.1	2052.5	664.0	423.9	465.8	481.3	404.1	349.1	302.9	304.1
3245.1	55°	2826.3	2085.9	650.4	406.5	454.6	472.0	403.0	340.5	287.8	282.4
3501.9	57.5°	2999.2	2104.9	633.7	387.1	435.2	448.4	401.8	333.9	283.1	274.2
3764.5	60°	3175.3	2132.8	612.0	363.4	409.2	420.0	399.1	331.6	280.4	265.3
4011.9	62.5°	3333.2	2142.5	586.0	340.9	375.8	392.1	393.3	329.7	273.0	247.1
4217.5	65°	3436.7	2100.6	540.7	315.3	339.8	363.4	382.0	323.1	259.9	233.9
4319.1	67.5°	3432.5	1981.1	469.7	282.4	304.8	331.6	365.7	311.8	244.0	217.6
4242.3	70°	3272.7	1745.3	379.7	244.0	266.5	297.5	344.8	295.2	225.0	199.7
3772.2	72.5°	2806.9	1366.0	275.8	199.0	221.9	262.2	317.6	275.0	205.6	183.8
2787.9	75°	2005.2	864.5	186.9	152.8	172.6	222.2	283.9	251.3	187.7	184.6
1396.3	77.5°	1024.3	413.1	123.7	111.7	120.2	175.3	238.5	224.6	190.4	152.4
397.2	80°	333.2	152.4	78.0	76.0	79.9	116.7	184.6	184.2	144.3	103.6
96.2	82.5°	106.3	65.5	50.8	48.9	46.9	73.3	128.8	145.8	97.4	65.5
34.5	85°	42.3	39.2	29.9	27.5	19.8	34.5	67.5	97.0	72.5	47.3
8.9	87.5°	15.5	15.5	8.1	5.8	4.3	11.6	18.2	29.1	41.5	24.4
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>
1056.5
1138.3
1177.5
1169.8
1110.8
1015.0
918.4
846.3
804.0
787.3
777.6
767.9
736.5
664.8
577.5
496.4
432.1
388.2
387.1
383.6
357.6
312.2
286.2
275.4
266.5
247.1
233.9
218.7
<i>202.1</i>
182.7
174.1
135.7
91.5
65.2
48.5
24.0
0.0

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