

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: P939169

Luminaire Tested: **GALN-SB1C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7083 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

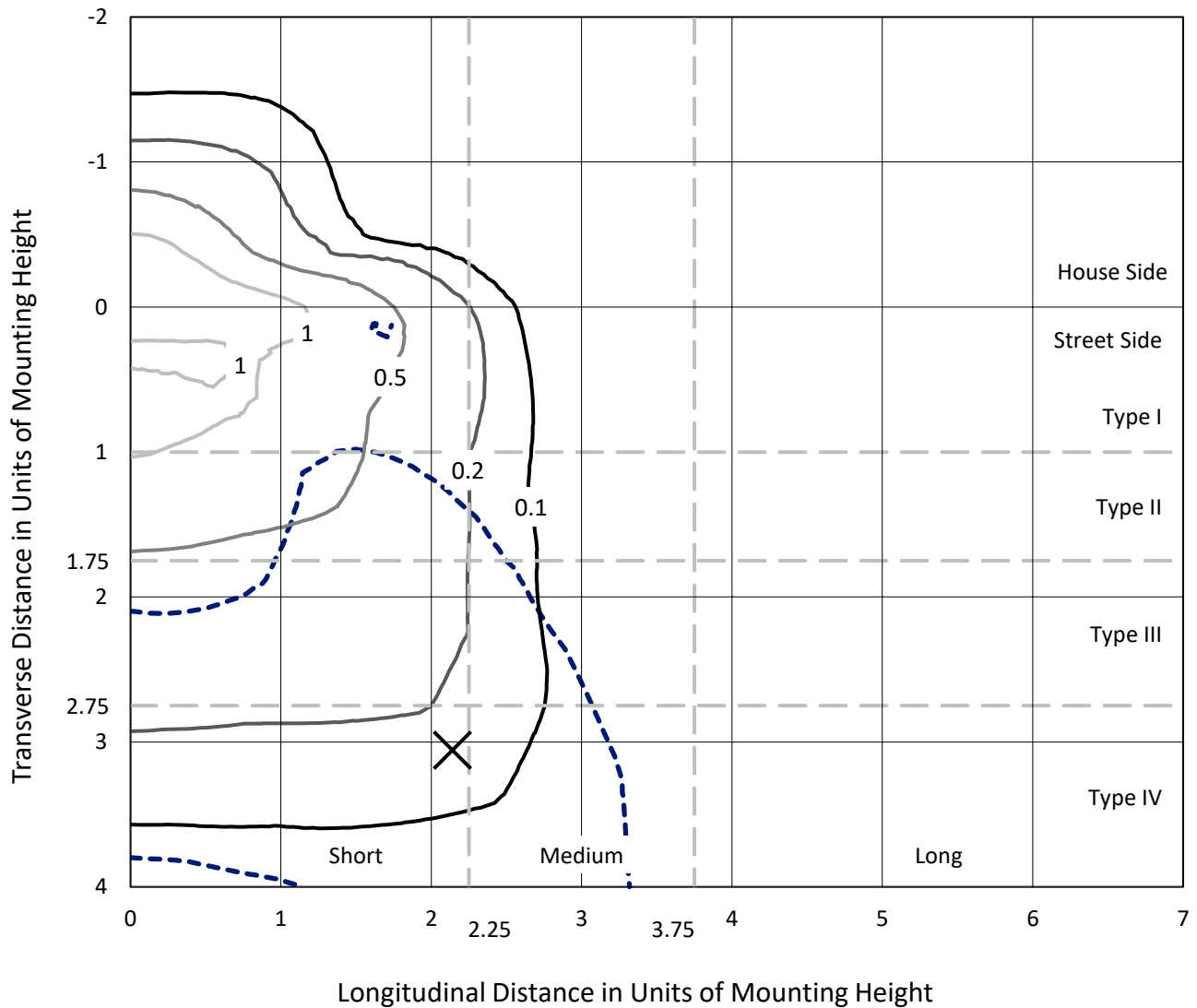
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

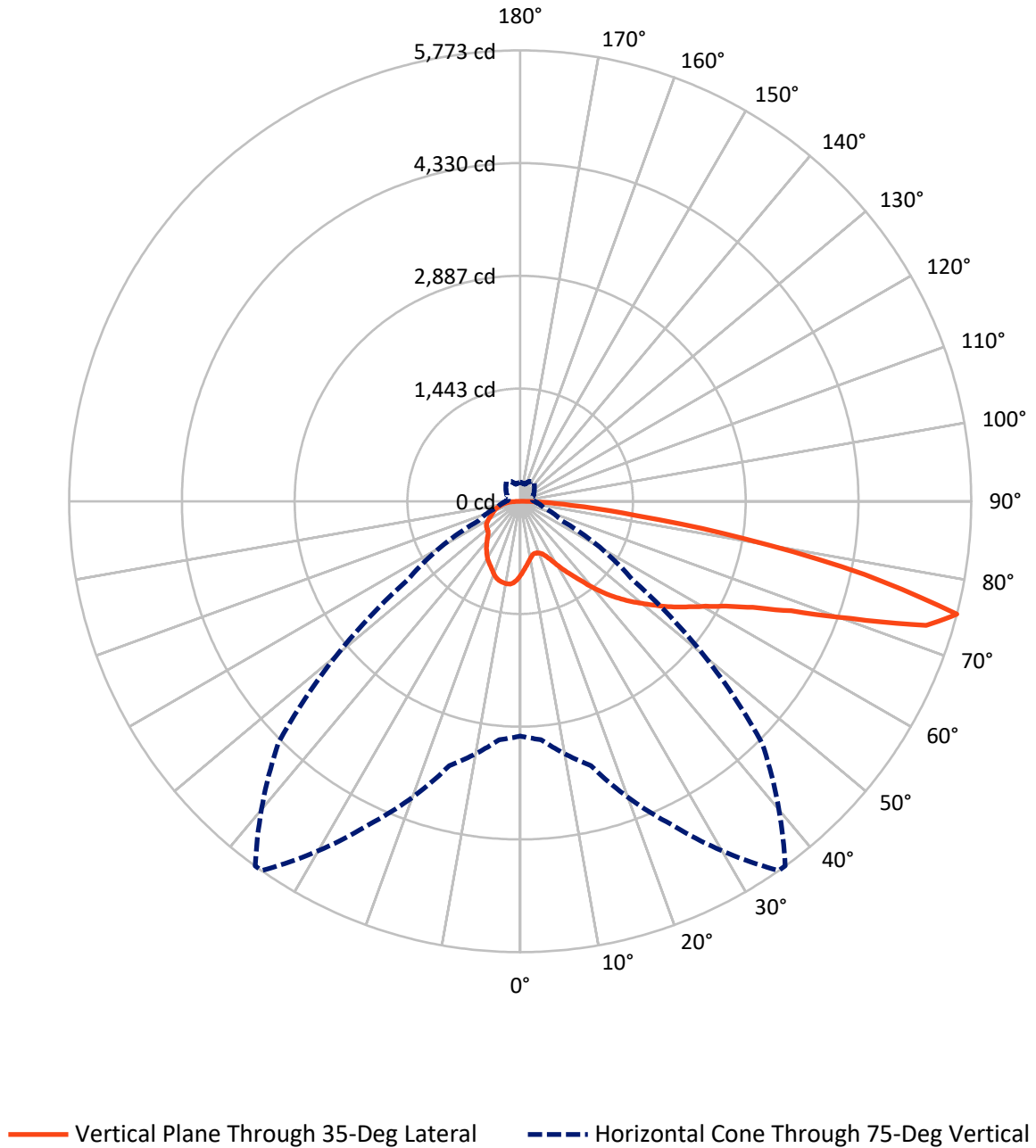
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.6	0.0	1685.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5397.4	0.0	5397.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	7083.0	0.0	7083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.3
10°-20°	257.8	3.6
20°-30°	432.9	6.1
30°-40°	672.7	9.5
40°-50°	998.5	14.1
50°-60°	1378.5	19.5
60°-70°	1672.4	23.6
70°-80°	1382.1	19.5
80°-90°	198.8	2.8
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°	7083.0	100.0
0°-180°	7083.0	100.0

Coefficient of Utilization



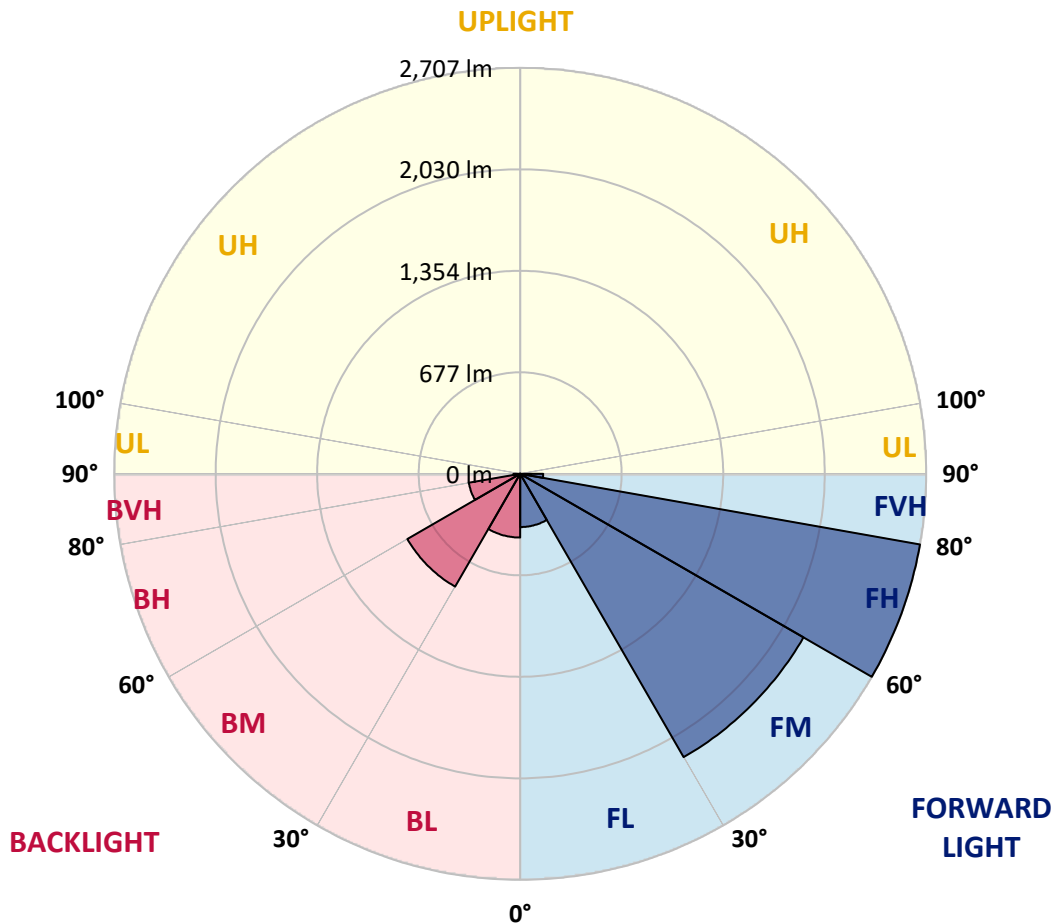
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.2	5.0			
FM (30°-60°)	2181.2	30.8			
FH (60°-80°)	2707.0	38.2			G2/5000
FVH (80°-90°)	154.0	2.2			G2/225
BL (0°-30°)	424.8	6.0	B1/500		
BM (30°-60°)	868.5	12.3	B1/1000		
BH (60°-80°)	347.5	4.9	B1/500		G1/500
BVH (80°-90°)	44.8	0.6			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°	36°	45°	55°	65°	75°
0°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
2.5°	870.3	875.7	878.0	876.8	882.6	881.8	889.9	899.8	913.6	927.0
5°	803.3	809.1	814.1	818.6	829.8	833.2	845.8	865.0	890.3	915.9
7.5°	740.9	745.9	753.6	762.0	780.7	784.2	805.2	835.1	870.3	907.9
10°	690.0	695.0	703.0	712.6	735.9	740.2	767.0	806.8	852.7	900.2
12.5°	668.2	669.7	674.3	683.9	704.2	706.8	736.3	781.9	835.5	894.5
15°	667.0	670.1	670.5	675.4	692.3	693.4	720.6	765.8	824.8	893.3
17.5°	678.5	680.8	677.4	680.4	694.6	696.5	717.9	758.1	821.3	898.3
20°	709.1	711.1	700.7	696.5	706.8	708.4	729.4	763.1	824.8	908.6
22.5°	774.2	775.4	750.1	732.9	733.6	734.4	752.8	783.4	838.2	927.4
25°	875.7	874.9	834.7	801.4	782.3	778.1	790.3	816.4	860.8	952.3
27.5°	994.4	988.7	948.5	898.7	856.9	850.8	848.1	859.2	892.9	985.2
30°	1128.4	1123.1	1079.8	1014.7	956.9	946.9	921.6	915.9	940.8	1030.0
32.5°	1275.5	1272.0	1220.3	1141.4	1064.1	1052.6	1010.1	994.8	1014.3	1097.8
35°	1398.7	1395.7	1352.8	1271.6	1177.0	1162.9	1119.6	1102.4	1112.3	1184.7
37.5°	1510.2	1508.6	1471.9	1407.9	1310.3	1293.1	1244.4	1238.7	1236.8	1299.2
40°	1613.6	1609.7	1571.4	1537.7	1465.4	1449.7	1406.8	1401.8	1387.3	1440.1
42.5°	1728.0	1718.1	1662.6	1646.9	1627.3	1614.3	1588.7	1589.4	1557.3	1599.0
45°	1821.5	1815.7	1758.7	1749.5	1770.5	1765.2	1787.4	1793.1	1730.7	1765.6
47.5°	1921.8	1916.4	1868.2	1861.7	1918.7	1920.3	1998.8	2000.7	1900.0	1938.6
50°	2045.5	2037.8	1990.0	1998.0	2061.9	2067.7	2211.3	2198.3	2055.8	2114.4
52.5°	2127.0	2131.6	2121.3	2134.3	2221.6	2227.0	2420.3	2387.0	2210.1	2287.8
55°	2187.1	2196.3	2228.5	2258.4	2390.1	2395.4	2617.5	2566.6	2338.0	2448.7
57.5°	2264.5	2251.5	2311.6	2369.8	2550.1	2564.3	2809.4	2739.7	2451.3	2587.3
60°	2375.5	2366.3	2413.1	2499.2	2729.3	2751.9	3012.3	2895.5	2534.4	2697.2
62.5°	2600.7	2577.7	2585.0	2661.2	2955.3	2985.1	3241.3	3031.4	2575.8	2740.1
65°	2937.3	2897.8	2861.1	2913.9	3273.4	3302.9	3499.7	3138.3	2560.5	2657.0
67.5°	3361.1	3322.1	3276.9	3326.7	3742.1	3765.5	3818.7	3198.4	2439.9	2336.9
70°	3710.7	3696.2	3750.2	3955.0	4490.7	4491.5	4227.6	3148.6	2109.4	1656.8
72.5°	3664.4	3655.6	3940.1	4573.4	5434.2	5413.9	4614.8	2771.8	1421.0	747.4
75°	3006.2	3063.2	3504.0	4562.3	5773.0	5770.4	4377.7	1762.1	587.8	309.8
77.5°	1612.0	1702.4	2274.8	3368.4	4506.8	4574.6	3077.8	616.5	252.3	198.3
80°	525.7	604.6	906.7	1715.0	2928.4	2915.8	1319.1	242.0	172.7	140.5
82.5°	223.2	232.4	405.1	809.8	1502.9	1479.5	420.0	139.0	121.4	96.1
85°	87.3	97.6	178.8	374.5	650.9	636.8	151.6	68.9	77.7	62.8
87.5°	28.7	34.8	63.9	128.3	202.6	195.3	37.1	23.7	33.7	28.7
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°
943.9	0°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
946.5	2.5°	951.9	958.0	965.3	976.0	985.2	992.9	1000.9	1005.9	1007.8	1013.5
948.1	5°	958.8	972.2	990.2	1007.8	1025.0	1035.4	1044.6	1049.2	1053.4	1056.4
952.3	7.5°	970.3	987.5	1015.8	1038.8	1053.4	1061.8	1067.9	1066.4	1067.9	1068.7
956.9	10°	980.2	1004.4	1038.1	1059.9	1071.0	1071.4	1069.8	1064.5	1061.8	1062.2
963.8	12.5°	992.1	1018.9	1055.3	1073.7	1076.7	1068.3	1061.8	1052.6	1049.2	1047.6
974.1	15°	1008.2	1038.8	1074.0	1080.9	1073.3	1062.6	1051.5	1036.5	1028.9	1022.7
991.7	17.5°	1027.7	1061.4	1088.6	1083.6	1067.2	1049.5	1031.5	1009.0	993.3	986.7
1015.8	20°	1054.9	1085.1	1099.7	1077.9	1053.0	1026.2	995.5	968.0	953.4	946.9
1046.5	22.5°	1087.8	1116.9	1110.4	1067.9	1032.7	989.8	951.5	931.2	923.9	919.4
1085.9	25°	1127.3	1152.2	1118.1	1053.4	999.4	941.6	912.1	905.6	902.1	898.7
1134.2	27.5°	1178.6	1192.0	1123.8	1031.9	947.3	890.3	879.5	880.7	879.5	873.8
1201.2	30°	1246.4	1243.7	1129.2	997.1	887.6	843.9	844.7	849.7	850.4	846.6
1294.6	32.5°	1335.6	1308.4	1131.9	951.9	830.5	803.3	804.1	809.5	813.3	806.8
1416.7	35°	1443.5	1383.8	1127.7	895.2	786.5	764.7	758.9	760.4	761.6	755.5
1564.9	37.5°	1569.5	1468.4	1108.9	832.4	750.1	726.8	714.5	704.2	698.0	692.3
1732.6	40°	1707.8	1560.7	1074.4	771.2	709.5	686.5	668.2	648.6	628.0	620.3
1910.3	42.5°	1852.5	1655.7	1032.7	712.6	662.8	644.0	624.5	596.2	565.2	549.5
2094.9	45°	2002.6	1752.9	991.7	654.8	614.9	606.9	584.3	550.2	516.5	496.6
2279.8	47.5°	2149.6	1844.8	931.6	596.6	570.1	579.0	561.3	529.9	492.4	461.0
2463.2	50°	2290.1	1931.0	833.2	537.6	533.8	570.5	553.7	508.5	465.6	425.4
2643.2	52.5°	2429.5	2000.7	707.2	484.0	514.2	568.2	543.7	493.9	441.5	399.4
2812.4	55°	2547.8	2036.7	585.8	438.0	485.9	548.7	531.9	476.7	407.4	362.6
2928.4	57.5°	2615.2	2007.6	484.8	392.9	446.8	516.5	511.6	440.0	366.8	332.4
2951.0	60°	2586.1	1889.6	402.0	353.4	409.7	481.7	476.3	403.6	335.8	303.3
2830.0	62.5°	2425.7	1664.9	336.6	319.0	376.0	446.1	441.1	375.6	312.1	280.7
2508.8	65°	2102.5	1354.3	285.6	290.2	341.9	403.2	410.5	352.3	293.3	262.7
1940.9	67.5°	1603.6	981.0	245.8	265.4	308.6	361.1	382.1	335.4	277.6	248.5
1123.1	70°	914.0	557.1	212.1	241.2	279.1	322.0	360.3	322.0	260.8	236.6
420.8	72.5°	346.5	255.8	183.4	217.1	250.8	289.1	336.2	301.0	241.2	223.2
217.5	75°	184.9	155.8	154.3	188.8	218.3	256.9	305.9	280.3	226.7	235.9
150.5	77.5°	126.0	110.3	129.0	161.6	182.6	221.3	273.8	248.9	196.4	195.7
104.1	80°	87.3	78.1	104.9	130.2	141.3	186.1	238.9	213.7	160.1	149.3
64.3	82.5°	52.5	50.9	78.5	97.3	99.9	143.6	198.0	179.2	131.0	114.1
38.3	85°	28.7	30.2	50.2	57.1	58.2	100.3	155.1	138.6	100.7	84.6
13.8	87.5°	8.0	10.3	18.4	22.6	28.0	52.1	92.3	82.3	50.5	35.2
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>
943.9
1013.2
1057.2
1069.8
1062.9
1046.9
1024.7
987.1
946.2
920.1
898.7
874.9
848.5
809.8
759.7
696.1
623.8
551.4
495.1
457.6
422.0
394.8
358.8
327.8
298.7
275.7
257.7
243.9
233.6
220.2
243.5
180.3
142.8
114.9
85.4
35.2
0.0

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