

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: P945793

Luminaire Tested: **GALN-SB1C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945793
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-SB1C-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7356 lumens
Efficiency: N/A
Efficacy: 135.2 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

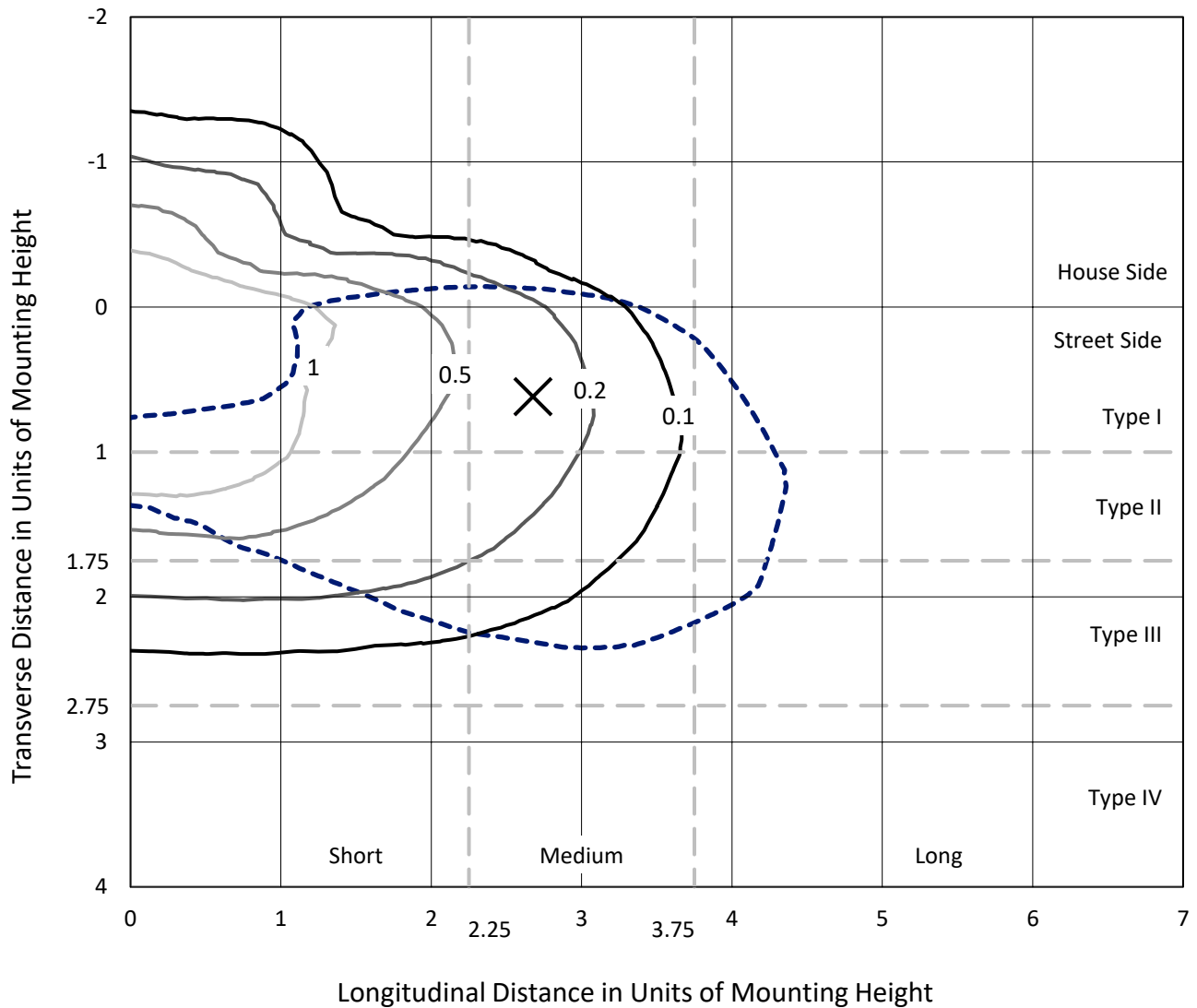
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

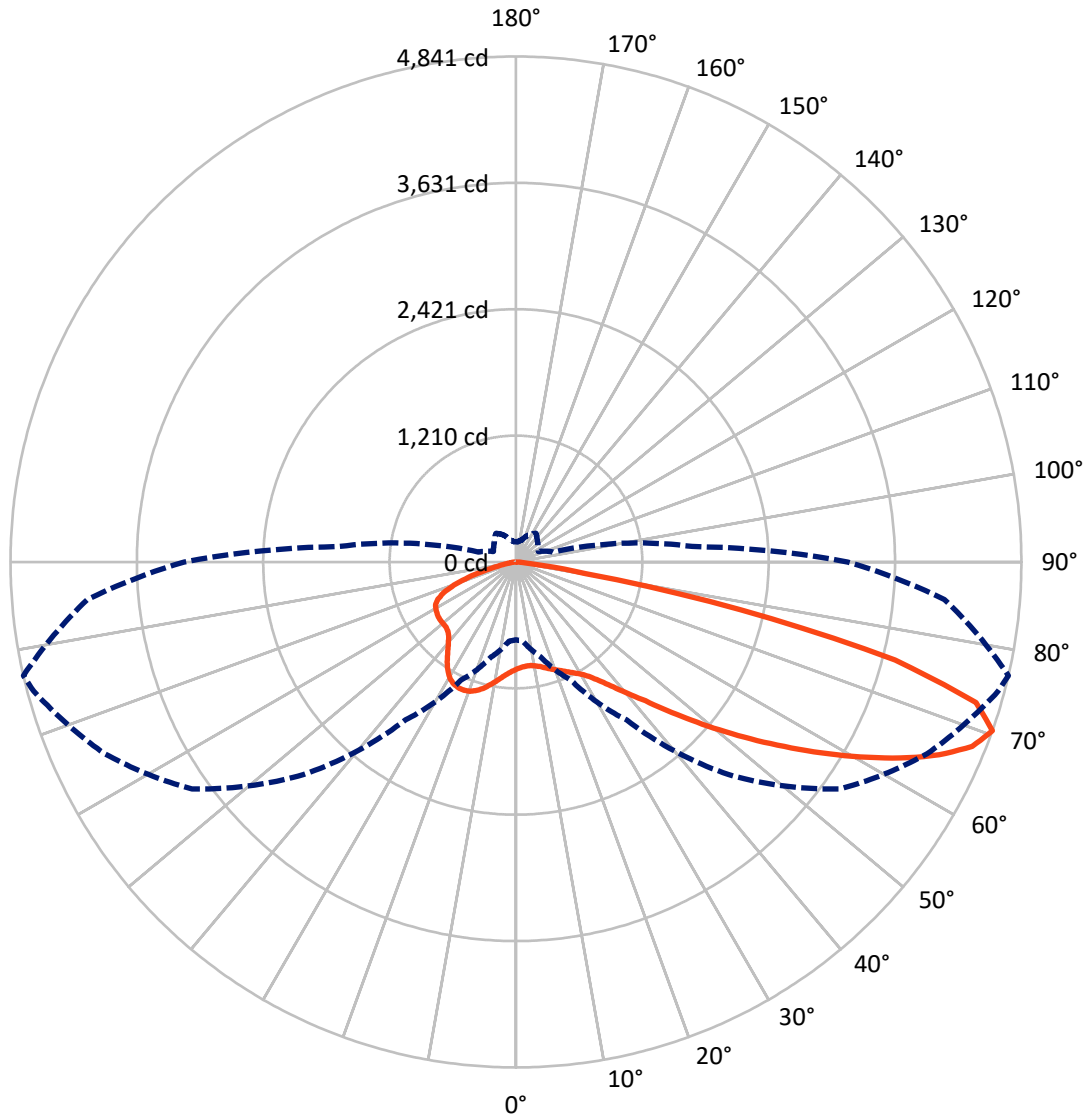
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	1610.9	0.0	1610.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5745.1	0.0	5745.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	7356.0	0.0	7356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.3
10°-20°	282.5	3.8
20°-30°	483.1	6.6
30°-40°	776.8	10.6
40°-50°	1212.8	16.5
50°-60°	1620.1	22.0
60°-70°	1726.7	23.5
70°-80°	1063.0	14.5
80°-90°	93.1	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°	7356.0	100.0
0°-180°	7356.0	100.0

Coefficient of Utilization



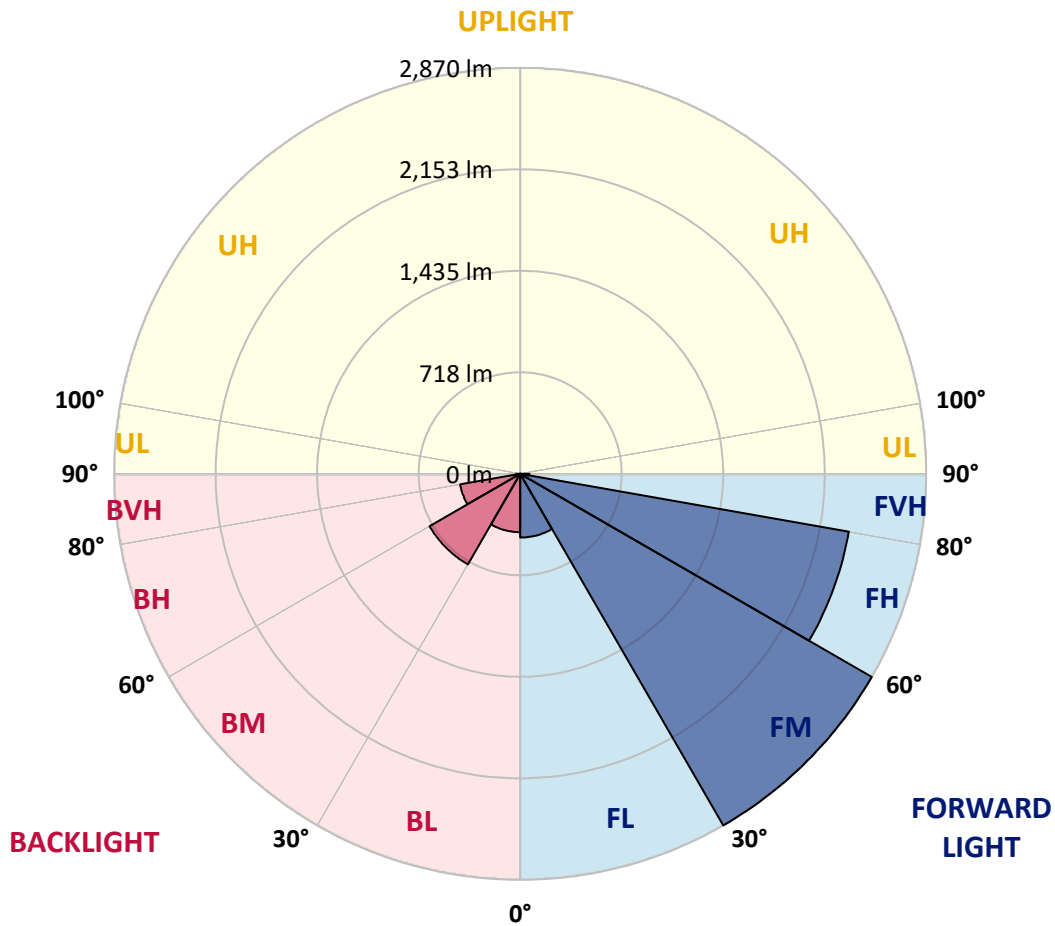
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.7	6.1			
FM (30°-60°)	2870.1	39.0			
FH (60°-80°)	2359.2	32.1			G2/5000
FVH (80°-90°)	65.1	0.9			G1/100
BL (0°-30°)	412.8	5.6	B1/500		
BM (30°-60°)	739.6	10.1	B1/1000		
BH (60°-80°)	430.5	5.9	B1/500		G1/500
BVH (80°-90°)	28.0	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°	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2
2.5°	946.0	945.6	950.5	952.0	961.1	967.5	979.5	992.3	1008.9	1010.8
5°	891.4	891.4	897.0	903.0	914.7	927.5	946.0	968.2	996.8	1001.4
7.5°	845.0	848.0	852.9	864.6	878.2	896.6	924.9	956.5	994.2	1001.4
10°	807.7	811.1	817.1	826.6	846.9	872.5	909.4	950.1	1000.6	1011.9
12.5°	796.0	799.4	802.8	810.0	828.8	859.0	903.0	953.1	1016.1	1027.4
15°	823.2	827.3	824.7	822.8	832.6	860.1	906.1	964.1	1035.3	1051.5
17.5°	885.7	887.2	881.2	863.5	862.0	876.7	920.4	979.1	1059.4	1077.1
20°	986.7	984.0	971.6	936.6	916.6	913.6	944.9	1001.7	1084.2	1103.1
22.5°	1123.8	1120.8	1095.9	1040.5	996.1	966.7	980.3	1031.1	1112.1	1133.2
25°	1294.8	1290.7	1254.2	1178.8	1109.9	1037.2	1028.5	1069.9	1146.4	1166.0
27.5°	1494.5	1491.1	1451.6	1352.1	1252.6	1133.6	1088.4	1115.5	1182.2	1204.4
30°	1709.3	1719.0	1649.0	1542.0	1416.2	1259.4	1169.0	1171.6	1228.5	1248.5
32.5°	1961.7	1978.6	1894.2	1758.6	1586.8	1396.2	1270.7	1250.0	1296.0	1312.5
35°	2211.8	2231.0	2161.0	2011.0	1813.2	1557.4	1377.0	1340.1	1385.6	1403.7
37.5°	2428.1	2453.7	2417.5	2287.2	2055.5	1751.8	1515.6	1445.9	1496.0	1518.6
40°	2598.7	2637.9	2635.3	2553.9	2341.0	1987.7	1691.5	1576.6	1633.2	1657.6
42.5°	2737.4	2771.3	2800.7	2796.5	2639.0	2255.5	1898.4	1746.5	1789.5	1817.8
45°	2833.1	2869.2	2932.5	3000.7	2925.7	2542.2	2135.3	1948.1	1987.3	2029.9
47.5°	2918.6	2959.6	3041.8	3149.9	3169.1	2830.0	2394.9	2182.8	2218.6	2262.7
50°	2926.1	2961.5	3088.9	3242.2	3342.0	3106.6	2673.7	2446.1	2479.7	2526.8
52.5°	2744.1	2799.9	3022.2	3239.6	3421.5	3337.9	2950.6	2720.0	2757.7	2814.2
55°	2130.1	2211.8	2826.7	3138.6	3393.3	3487.4	3213.9	3011.3	3059.5	3118.6
57.5°	1834.7	1870.5	2243.8	2954.7	3264.4	3526.2	3436.2	3305.5	3383.1	3447.9
60°	1649.0	1678.7	1899.5	2668.8	3094.9	3464.8	3608.0	3579.7	3713.9	3791.1
62.5°	1450.1	1478.3	1679.1	2228.4	2877.9	3362.7	3716.5	3832.9	4052.9	4137.3
65°	1252.6	1276.8	1469.3	1872.4	2602.1	3260.7	3772.6	4051.8	4366.7	4454.2
67.5°	1032.6	1052.6	1234.6	1579.7	2266.8	3120.9	3800.5	4224.0	4639.9	4714.9
70°	745.2	760.6	948.6	1249.3	1846.0	2880.5	3789.2	4346.0	4781.5	4841.4
72.5°	352.2	366.2	587.0	811.1	1303.9	2412.6	3560.5	4249.2	4637.6	4607.9
75°	188.0	200.0	337.2	444.9	688.7	1653.9	2913.7	3660.4	3894.3	3749.7
77.5°	127.3	136.8	208.7	267.1	314.6	785.1	1872.8	2534.3	2438.2	2199.4
80°	101.0	110.8	171.0	180.8	152.2	283.7	773.8	1173.2	842.8	674.0
82.5°	77.6	88.5	143.9	131.1	82.9	116.4	225.3	371.1	215.9	164.3
85°	47.5	59.1	113.0	83.6	46.7	53.1	76.5	103.2	65.9	55.0
87.5°	24.1	33.9	57.3	30.5	21.1	12.4	20.3	20.3	17.3	15.1
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°
1026.2	0°	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2
1021.0	2.5°	1030.0	1037.5	1050.3	1062.4	1071.8	1080.9	1089.9	1094.8	1096.3	1102.3
1026.6	5°	1042.1	1056.0	1080.9	1104.2	1118.9	1127.9	1134.4	1138.1	1138.9	1140.8
1042.1	7.5°	1064.3	1086.5	1121.2	1144.5	1155.4	1154.7	1152.1	1142.6	1138.9	1135.5
1064.7	10°	1095.5	1124.9	1167.5	1183.7	1176.9	1158.8	1135.5	1108.0	1095.2	1082.7
1095.5	12.5°	1134.4	1171.6	1213.5	1212.7	1179.2	1132.8	1078.6	1036.4	1009.7	990.4
1133.6	15°	1181.4	1224.4	1256.4	1230.8	1157.3	1074.1	994.6	939.6	915.5	894.4
1172.0	17.5°	1230.0	1276.0	1290.7	1225.1	1102.3	987.0	897.0	853.7	829.9	818.6
1213.5	20°	1277.5	1323.1	1311.0	1192.7	1018.7	888.3	808.1	784.4	779.5	782.1
1253.8	22.5°	1327.6	1368.3	1315.2	1130.2	912.1	787.4	743.3	744.1	755.0	762.9
1296.0	25°	1378.9	1406.4	1304.3	1039.8	797.6	713.2	702.2	714.3	735.8	751.2
1343.4	27.5°	1428.2	1440.3	1280.5	927.9	699.2	660.0	661.9	686.8	719.2	740.7
1401.1	30°	1484.0	1470.4	1234.9	802.1	631.0	614.5	630.3	659.3	691.7	710.9
1473.8	32.5°	1546.9	1496.4	1162.6	685.7	582.8	577.9	603.9	622.7	637.1	642.7
1570.2	35°	1625.2	1532.9	1069.9	603.9	539.5	551.2	576.0	566.6	561.0	557.9
1699.8	37.5°	1727.0	1582.3	961.4	550.8	504.4	532.0	542.1	512.7	490.5	479.6
1856.9	40°	1849.4	1654.6	857.1	509.7	482.2	515.4	497.7	462.3	434.0	418.6
2033.6	42.5°	1985.4	1730.3	769.3	478.8	469.8	501.8	464.9	422.7	377.1	372.2
2244.2	45°	2128.2	1808.3	709.4	455.1	463.8	490.1	446.1	377.9	345.5	365.4
2455.6	47.5°	2271.0	1879.9	673.2	437.4	460.7	476.9	429.5	353.0	330.0	359.0
2682.0	50°	2429.9	1944.0	657.0	424.6	457.4	471.7	404.6	346.6	313.8	333.0
2916.3	52.5°	2587.8	1993.7	645.0	411.8	452.5	467.5	392.6	339.1	294.2	295.4
3152.2	55°	2745.3	2026.1	631.8	394.8	441.5	458.5	391.4	330.8	279.5	274.3
3401.6	57.5°	2913.3	2044.5	615.6	376.0	422.7	435.5	390.3	324.4	275.0	266.4
3656.6	60°	3084.3	2071.7	594.5	353.0	397.5	408.0	387.7	322.1	272.4	257.7
3897.0	62.5°	3237.7	2081.1	569.2	331.2	365.1	380.9	382.0	320.2	265.2	240.0
4096.6	65°	3338.3	2040.4	525.2	306.3	330.0	353.0	371.1	313.8	252.4	227.2
4195.3	67.5°	3334.1	1924.4	456.2	274.3	296.1	322.1	355.3	302.9	237.0	211.3
4120.7	70°	3178.9	1695.3	368.8	237.0	258.8	289.0	334.9	286.7	218.5	194.0
3664.1	72.5°	2726.4	1326.9	267.9	193.3	215.5	254.7	308.5	267.1	199.7	178.6
2708.0	75°	1947.7	839.7	181.6	148.4	167.6	215.9	275.8	244.1	182.3	179.3
1356.2	77.5°	995.0	401.2	120.2	108.5	116.8	170.3	231.7	218.1	185.0	148.1
385.8	80°	323.6	148.1	75.7	73.8	77.6	113.4	179.3	178.9	140.1	100.6
93.4	82.5°	103.2	63.7	49.4	47.5	45.6	71.2	125.1	141.7	94.6	63.7
33.5	85°	41.1	38.1	29.0	26.7	19.2	33.5	65.6	94.2	70.4	46.0
8.7	87.5°	15.1	15.1	7.9	5.7	4.1	11.3	17.7	28.3	40.3	23.7
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

180°
1026.2
1105.7
1143.8
1136.2
1079.0
985.9
892.1
822.0
781.0
764.8
755.4
745.9
715.4
645.7
561.0
482.2
419.7
377.1
376.0
372.6
347.4
303.3
278.0
267.5
258.8
240.0
227.2
212.5
196.3
177.4
169.2
131.9
88.9
63.3
47.1
23.4
0.0

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