

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: P945646

Luminaire Tested: **GALN-SB1C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945646
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8137 lumens
Efficiency: N/A
Efficacy: 149.6 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

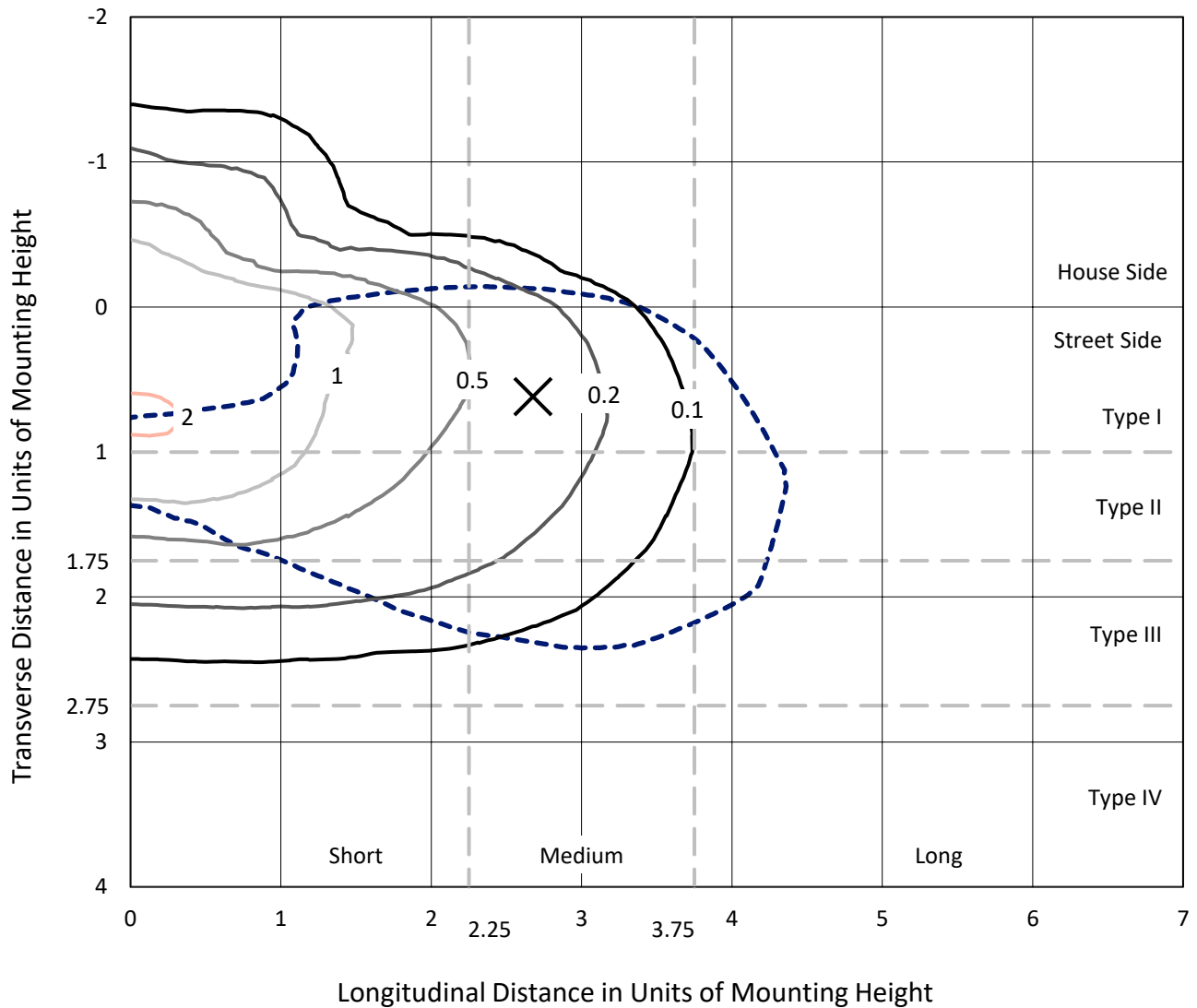
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

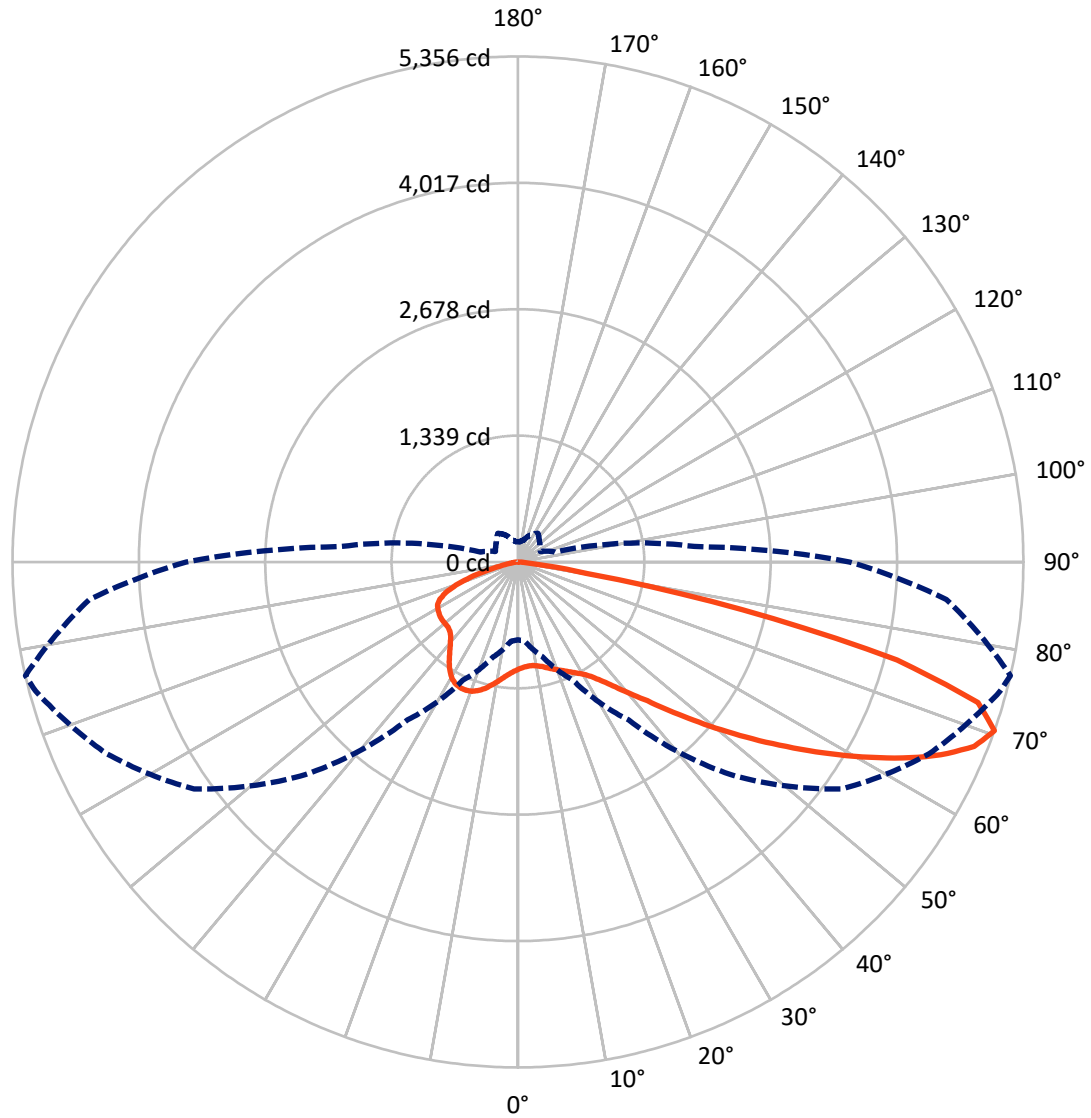
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
House Side	Lumens	1781.9	0.0	1781.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6355.1	0.0	6355.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	8137.0	0.0	8137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.3
10°-20°	312.5	3.8
20°-30°	534.4	6.6
30°-40°	859.3	10.6
40°-50°	1341.6	16.5
50°-60°	1792.1	22.0
60°-70°	1910.1	23.5
70°-80°	1175.8	14.5
80°-90°	103.0	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°	8137.0	100.0
0°-180°	8137.0	100.0

Coefficient of Utilization



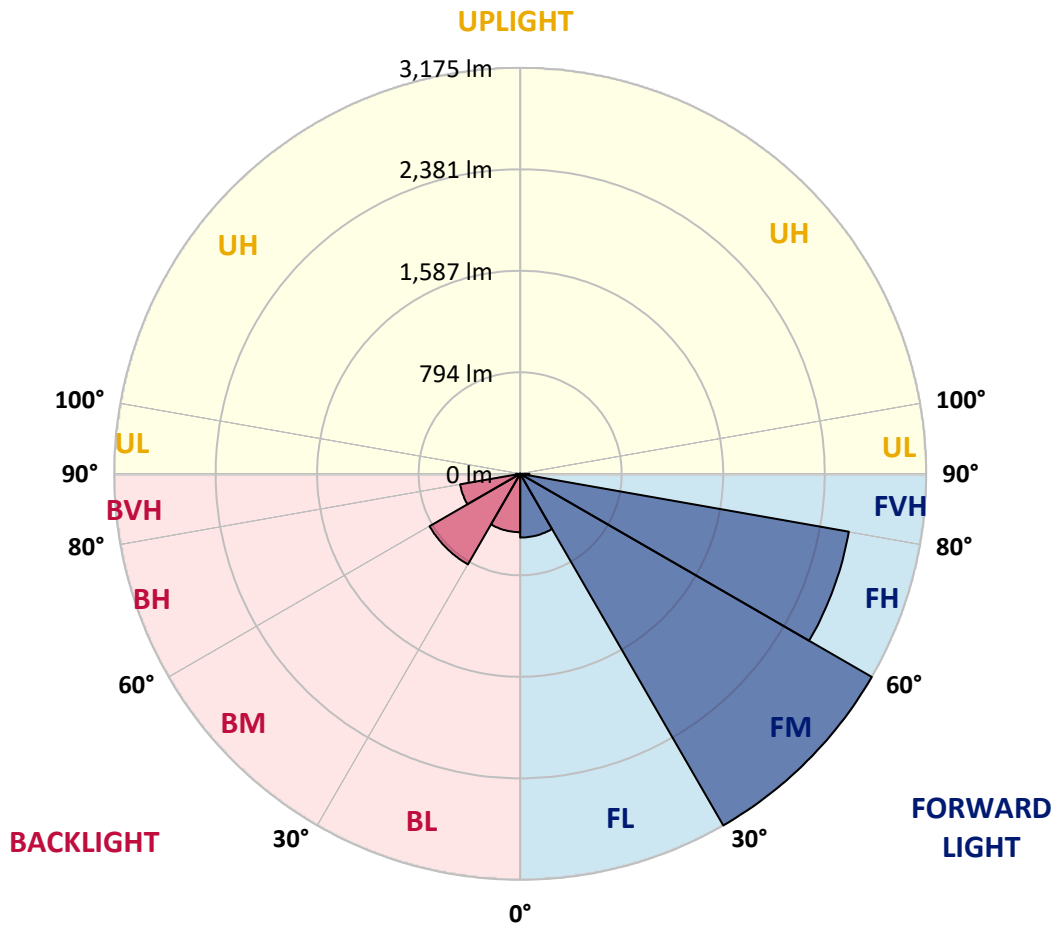
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.5	6.1			
FM (30°-60°)	3174.9	39.0			
FH (60°-80°)	2609.7	32.1			G2/5000
FVH (80°-90°)	72.0	0.9			G1/100
BL (0°-30°)	456.6	5.6	B1/500		
BM (30°-60°)	818.1	10.1	B1/1000		
BH (60°-80°)	476.2	5.9	B1/500		G1/500
BVH (80°-90°)	31.0	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°	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1046.4	1046.0	1051.4	1053.1	1063.1	1070.2	1083.5	1097.7	1116.0	1118.1
5°	986.0	986.0	992.2	998.9	1011.8	1026.0	1046.4	1071.0	1102.7	1107.7
7.5°	934.7	938.1	943.5	956.4	971.4	991.8	1023.1	1058.1	1099.8	1107.7
10°	893.5	897.2	903.9	914.3	936.8	965.2	1006.0	1051.0	1106.8	1119.3
12.5°	880.6	884.3	888.1	896.0	916.8	950.2	998.9	1054.3	1123.9	1136.4
15°	910.6	915.1	912.2	910.1	921.0	951.4	1002.2	1066.4	1145.2	1163.1
17.5°	979.7	981.4	974.7	955.2	953.5	969.7	1018.1	1083.1	1171.9	1191.4
20°	1091.4	1088.5	1074.8	1036.0	1013.9	1010.6	1045.2	1108.1	1199.4	1220.2
22.5°	1243.1	1239.8	1212.3	1151.0	1101.8	1069.3	1084.3	1140.6	1230.2	1253.5
25°	1432.3	1427.7	1387.3	1304.0	1227.7	1147.3	1137.7	1183.5	1268.1	1289.8
27.5°	1653.2	1649.4	1605.7	1495.7	1385.6	1254.0	1203.9	1234.0	1307.7	1332.3
30°	1890.7	1901.6	1824.0	1705.7	1566.5	1393.1	1293.1	1296.0	1359.0	1381.1
32.5°	2169.9	2188.7	2095.3	1945.3	1755.3	1544.4	1405.6	1382.7	1433.6	1451.9
35°	2446.7	2467.9	2390.4	2224.5	2005.7	1722.8	1523.2	1482.3	1532.8	1552.8
37.5°	2685.9	2714.2	2674.2	2530.0	2273.7	1937.8	1676.5	1599.4	1654.9	1679.9
40°	2874.6	2918.0	2915.1	2825.0	2589.6	2198.7	1871.1	1744.0	1806.5	1833.6
42.5°	3028.0	3065.5	3098.0	3093.4	2919.2	2495.0	2099.9	1932.0	1979.5	2010.7
45°	3133.8	3173.9	3243.9	3319.3	3236.4	2812.1	2362.1	2154.9	2198.3	2245.4
47.5°	3228.4	3273.9	3364.7	3484.3	3505.6	3130.5	2649.2	2414.6	2454.2	2502.9
50°	3236.8	3276.0	3416.8	3586.4	3696.9	3436.4	2957.6	2705.9	2742.9	2795.0
52.5°	3035.5	3097.2	3343.0	3583.5	3784.8	3692.3	3263.9	3008.8	3050.5	3113.0
55°	2356.2	2446.7	3126.8	3471.8	3753.5	3857.7	3555.2	3331.0	3384.3	3449.7
57.5°	2029.5	2069.1	2482.1	3268.5	3611.0	3900.6	3801.0	3656.4	3742.3	3814.0
60°	1824.0	1857.0	2101.2	2952.1	3423.5	3832.7	3991.1	3959.8	4108.2	4193.6
62.5°	1604.0	1635.3	1857.4	2465.0	3183.4	3719.8	4111.1	4239.9	4483.2	4576.6
65°	1385.6	1412.3	1625.3	2071.2	2878.4	3606.8	4173.2	4482.0	4830.4	4927.1
67.5°	1142.3	1164.4	1365.6	1747.4	2507.5	3452.2	4204.0	4672.4	5132.5	5215.4
70°	824.3	841.4	1049.3	1381.9	2042.0	3186.4	4191.5	4807.5	5289.2	5355.5
72.5°	389.6	405.1	649.3	897.2	1442.3	2668.8	3938.6	4700.4	5130.0	5097.1
75°	208.0	221.3	373.0	492.2	761.8	1829.5	3223.0	4049.0	4307.8	4147.8
77.5°	140.9	151.3	230.9	295.5	348.0	868.5	2071.6	2803.4	2697.1	2432.9
80°	111.7	122.5	189.2	200.0	168.4	313.8	856.0	1297.7	932.2	745.5
82.5°	85.8	97.9	159.2	145.0	91.7	128.8	249.2	410.5	238.8	181.7
85°	52.5	65.4	125.0	92.5	51.7	58.8	84.6	114.2	72.9	60.8
87.5°	26.7	37.5	63.3	33.8	23.3	13.8	22.5	22.5	19.2	16.7
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°
1135.2	0°	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2
1129.4	2.5°	1139.4	1147.7	1161.9	1175.2	1185.6	1195.6	1205.6	1211.0	1212.7	1219.4
1135.6	5°	1152.7	1168.1	1195.6	1221.4	1237.7	1247.7	1254.8	1259.0	1259.8	1261.9
1152.7	7.5°	1177.3	1201.9	1240.2	1266.0	1278.1	1277.3	1274.4	1264.0	1259.8	1256.0
1177.7	10°	1211.9	1244.4	1291.5	1309.4	1301.9	1281.9	1256.0	1225.6	1211.4	1197.7
1211.9	12.5°	1254.8	1296.0	1342.3	1341.5	1304.4	1253.1	1193.1	1146.4	1116.8	1095.6
1254.0	15°	1306.9	1354.4	1389.8	1361.5	1280.2	1188.1	1100.2	1039.3	1012.7	989.3
1296.5	17.5°	1360.6	1411.5	1427.7	1355.2	1219.4	1091.8	992.2	944.3	918.1	905.6
1342.3	20°	1413.1	1463.6	1450.2	1319.4	1126.9	982.7	893.9	867.6	862.2	865.1
1386.9	22.5°	1468.6	1513.6	1454.8	1250.2	1008.9	871.0	822.2	823.1	835.1	843.9
1433.6	25°	1525.2	1555.7	1442.7	1150.2	882.2	788.9	776.8	790.1	813.9	831.0
1486.1	27.5°	1579.8	1593.2	1416.5	1026.4	773.5	730.1	732.2	759.7	795.5	819.3
1549.8	30°	1641.5	1626.5	1366.1	887.2	698.0	679.7	697.2	729.3	765.1	786.4
1630.3	32.5°	1711.1	1655.3	1286.0	758.5	644.7	639.3	668.0	688.9	704.7	710.9
1737.0	35°	1797.8	1695.7	1183.5	668.0	596.8	609.7	637.2	626.8	620.5	617.2
1880.3	37.5°	1910.3	1750.3	1063.5	609.3	558.0	588.4	599.7	567.2	542.6	530.5
2054.1	40°	2045.8	1830.3	948.1	563.8	533.4	570.1	550.5	511.3	480.1	463.0
2249.5	42.5°	2196.2	1914.1	851.0	529.7	519.7	555.1	514.3	467.6	417.2	411.7
2482.5	45°	2354.1	2000.3	784.7	503.4	513.0	542.2	493.4	418.0	382.1	404.2
2716.3	47.5°	2512.1	2079.5	744.7	483.8	509.7	527.6	475.1	390.5	365.1	397.1
2966.7	50°	2687.9	2150.4	726.8	469.7	505.9	521.8	447.6	383.4	347.1	368.4
3225.9	52.5°	2862.6	2205.4	713.5	455.5	500.5	517.2	434.2	375.1	325.5	326.7
3486.8	55°	3036.7	2241.2	698.9	436.7	488.4	507.2	433.0	365.9	309.2	303.4
3762.7	57.5°	3222.6	2261.6	680.9	415.9	467.6	481.7	431.7	358.8	304.2	294.6
4044.8	60°	3411.8	2291.6	657.6	390.5	439.7	451.3	428.8	356.3	301.3	285.0
4310.7	62.5°	3581.4	2302.0	629.7	366.3	403.8	421.3	422.6	354.2	293.4	265.5
4531.6	65°	3692.7	2257.0	580.9	338.8	365.1	390.5	410.5	347.1	279.2	251.3
4640.8	67.5°	3688.1	2128.7	504.7	303.4	327.6	356.3	393.0	335.1	262.1	233.8
4558.2	70°	3516.4	1875.3	408.0	262.1	286.3	319.6	370.5	317.1	241.7	214.6
4053.2	72.5°	3015.9	1467.7	296.3	213.8	238.4	281.7	341.3	295.5	220.9	197.5
2995.5	75°	2154.5	928.9	200.9	164.2	185.4	238.8	305.0	270.0	201.7	198.4
1500.2	77.5°	1100.6	443.8	132.9	120.0	129.2	188.4	256.3	241.3	204.6	163.8
426.7	80°	358.0	163.8	83.8	81.7	85.8	125.4	198.4	197.9	155.0	111.3
103.4	82.5°	114.2	70.4	54.6	52.5	50.4	78.8	138.4	156.7	104.6	70.4
37.1	85°	45.4	42.1	32.1	29.6	21.3	37.1	72.5	104.2	77.9	50.8
9.6	87.5°	16.7	16.7	8.8	6.3	4.6	12.5	19.6	31.3	44.6	26.3
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>
1135.2
1223.1
1265.2
1256.9
1193.5
1090.6
986.8
909.3
863.9
846.0
835.6
825.1
791.4
714.3
620.5
533.4
464.2
417.2
415.9
412.2
384.2
335.5
307.6
295.9
286.3
265.5
251.3
235.0
<i>217.1</i>
196.3
187.1
145.9
98.3
70.0
52.1
25.8
0.0

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