

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: P945720

Luminaire Tested: **GALN-SB1C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6579 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

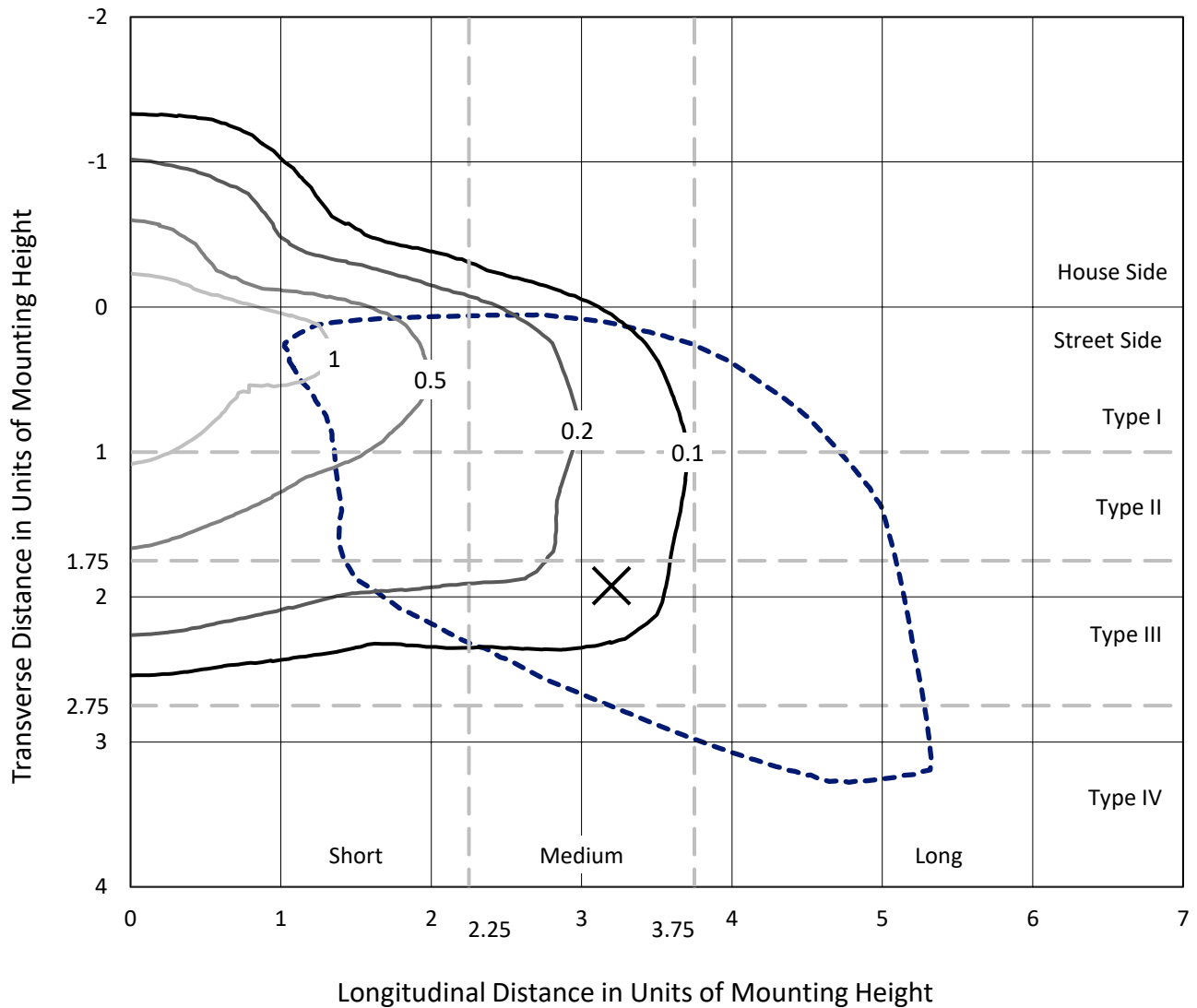
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

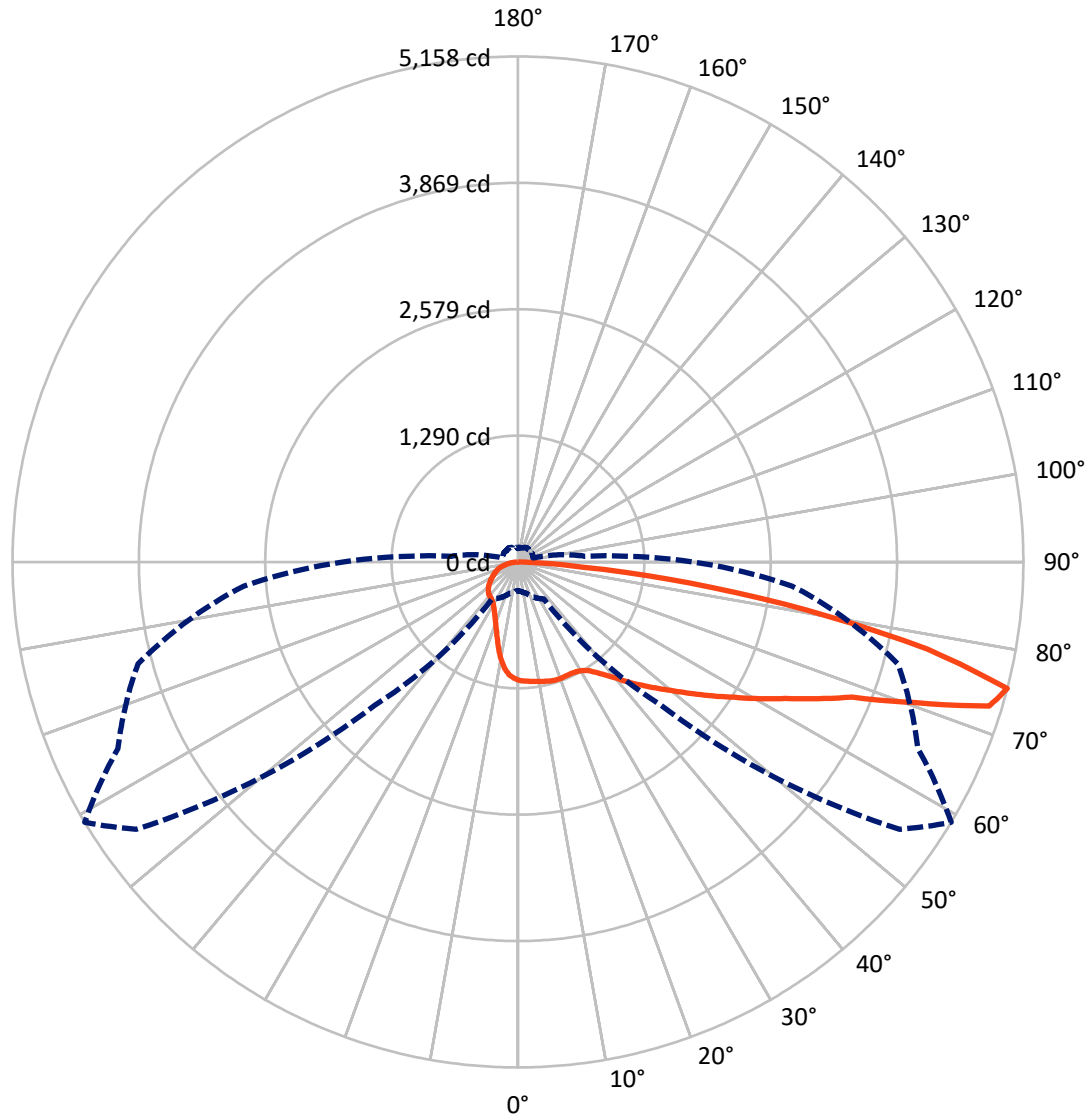
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.9	0.0	1233.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5345.1	0.0	5345.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	6579.0	0.0	6579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.6
10°-20°	276.8	4.2
20°-30°	420.4	6.4
30°-40°	624.9	9.5
40°-50°	929.3	14.1
50°-60°	1261.4	19.2
60°-70°	1540.0	23.4
70°-80°	1208.6	18.4
80°-90°	209.4	3.2
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°	6579.0	100.0
0°-180°	6579.0	100.0

Coefficient of Utilization



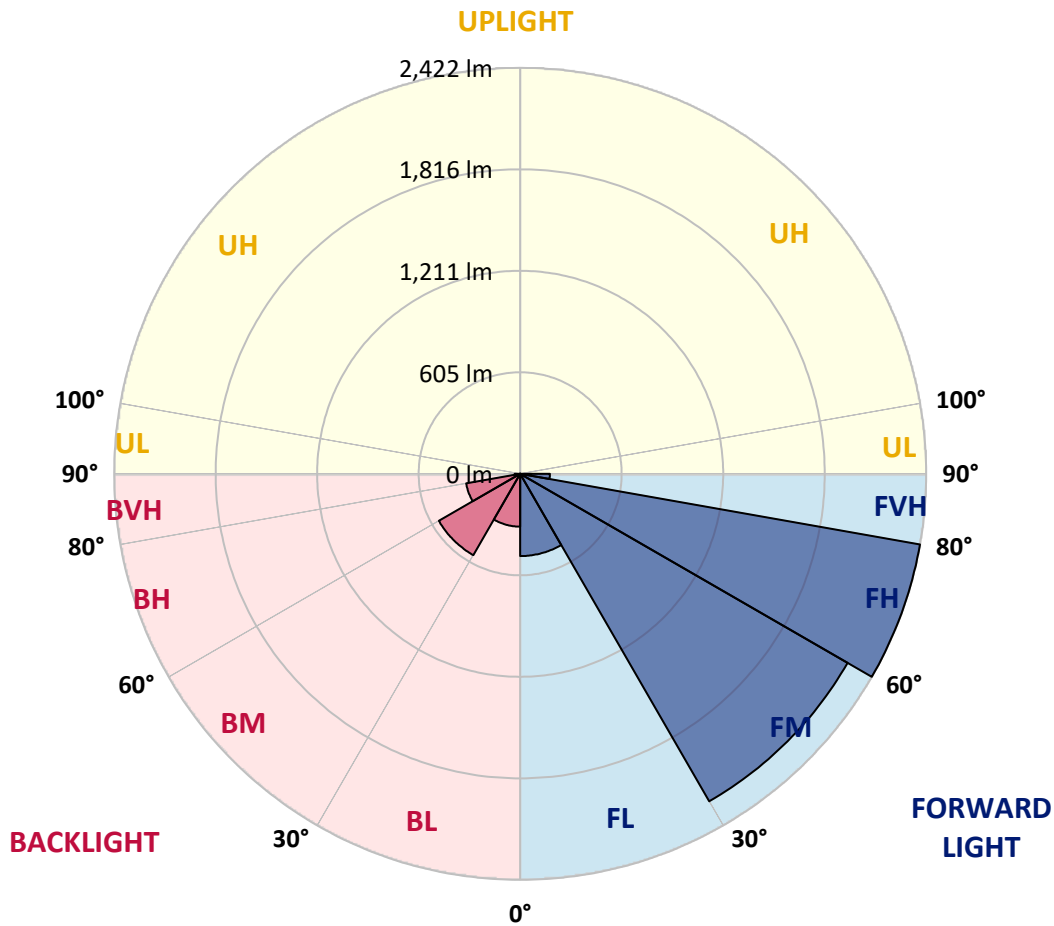
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.5	7.5			
FM (30°-60°)	2255.6	34.3			
FH (60°-80°)	2421.7	36.8			G2/5000
FVH (80°-90°)	177.3	2.7			G2/225
BL (0°-30°)	314.9	4.8	B1/500		
BM (30°-60°)	560.1	8.5	B1/1000		
BH (60°-80°)	326.9	5.0	B1/500		G1/500
BVH (80°-90°)	32.0	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1217.8	1213.6	1217.8	1216.1	1215.3	1213.9	1214.3	1216.8	1215.3	1217.1
5°	1209.7	1207.2	1211.5	1210.4	1215.0	1215.7	1220.3	1223.1	1224.9	1225.3
7.5°	1196.2	1193.8	1199.8	1204.7	1214.6	1217.5	1227.0	1231.6	1234.1	1238.4
10°	1147.0	1146.0	1160.8	1179.6	1203.0	1217.5	1232.0	1239.8	1243.7	1255.0
12.5°	1060.0	1061.4	1080.9	1117.0	1163.7	1210.4	1237.6	1249.0	1255.0	1269.1
15°	976.8	976.5	997.7	1036.3	1101.7	1179.2	1240.5	1259.9	1270.2	1291.1
17.5°	928.7	927.3	942.1	971.5	1032.4	1131.5	1233.4	1266.0	1287.9	1314.1
20°	919.8	917.0	924.8	939.3	982.5	1079.1	1215.0	1266.0	1302.1	1336.0
22.5°	952.0	947.4	944.2	942.5	961.6	1035.9	1194.1	1261.7	1322.9	1367.5
25°	1016.8	1009.7	993.4	977.5	971.9	1016.4	1175.7	1260.6	1354.1	1410.0
27.5°	1121.6	1112.7	1079.8	1041.6	1007.2	1026.4	1167.6	1267.0	1388.4	1454.9
30°	1251.4	1241.9	1200.5	1141.7	1080.2	1063.2	1177.8	1285.8	1432.3	1514.8
32.5°	1367.9	1357.3	1321.9	1262.1	1178.9	1126.9	1210.4	1321.5	1501.3	1597.9
35°	1471.2	1458.8	1427.0	1371.8	1299.9	1216.4	1269.1	1384.9	1599.3	1733.1
37.5°	1572.4	1557.9	1523.3	1464.9	1414.6	1335.7	1350.2	1466.3	1729.6	1897.3
40°	1685.7	1664.8	1622.7	1565.0	1516.2	1475.5	1456.7	1566.1	1862.0	2080.7
42.5°	1795.4	1775.6	1725.3	1676.1	1614.9	1603.2	1580.2	1682.9	2006.7	2282.0
45°	1913.6	1889.9	1829.0	1766.7	1728.2	1688.2	1699.9	1799.7	2148.6	2487.3
47.5°	2024.4	1997.9	1926.0	1856.6	1835.4	1759.7	1809.6	1928.1	2296.2	2695.4
50°	2084.2	2058.0	1998.2	1935.6	1918.9	1847.8	1928.5	2069.3	2450.9	2902.8
52.5°	2134.1	2105.8	2027.6	1992.9	1987.9	1943.7	2075.0	2230.7	2605.5	3086.1
55°	2187.2	2155.7	2055.9	2024.8	2047.4	2051.3	2248.8	2413.7	2769.0	3264.9
57.5°	2248.4	2208.4	2083.1	2051.7	2105.4	2177.3	2448.4	2603.4	2929.7	3430.5
60°	2306.1	2265.8	2135.5	2094.5	2168.1	2323.5	2677.4	2833.1	3111.6	3578.1
62.5°	2317.4	2284.2	2177.3	2176.9	2253.0	2494.0	2948.5	3064.9	3270.5	3723.9
65°	2121.4	2100.5	2037.1	2173.8	2374.8	2739.7	3250.4	3361.5	3472.6	3851.3
67.5°	1614.6	1617.4	1612.8	1876.5	2276.4	3092.5	3687.4	3679.0	3722.1	3994.3
70°	738.3	754.9	863.2	1295.3	1823.7	3133.2	4410.1	4300.1	4035.3	4179.4
72.5°	398.9	411.6	455.8	627.5	1096.4	2785.7	4950.2	5028.4	4451.9	4304.0
75°	292.7	299.8	330.6	398.9	460.4	2070.4	4756.6	5158.0	4503.9	4013.4
77.5°	219.1	222.3	247.4	316.0	235.7	1091.5	3800.7	4271.8	3855.6	3297.4
80°	158.9	162.4	181.2	237.1	165.3	399.2	2609.8	2998.4	2640.6	2101.9
82.5°	109.7	111.1	119.3	161.4	115.4	155.0	1480.8	1758.3	1474.1	737.6
85°	66.2	68.0	71.5	94.1	65.5	73.6	639.2	661.1	440.6	176.3
87.5°	27.3	29.0	31.9	39.6	25.8	20.5	105.5	132.4	82.5	51.7
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°
1207.6	0°	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6
1211.1	2.5°	1209.3	1206.9	1200.1	1190.9	1182.4	1171.8	1167.2	1163.3	1159.8	1153.1
1220.7	5°	1216.8	1210.0	1192.0	1168.6	1142.1	1113.1	1084.8	1065.3	1048.7	1036.3
1231.6	7.5°	1228.1	1215.3	1182.4	1134.7	1073.8	1011.5	955.2	915.2	885.1	874.2
1247.2	10°	1239.8	1224.5	1167.2	1083.0	977.9	882.0	807.3	766.2	742.2	734.4
1265.6	12.5°	1253.6	1231.3	1143.5	1011.1	870.6	765.5	700.4	676.3	663.9	659.7
1288.3	15°	1273.7	1236.9	1107.8	921.2	768.4	680.6	638.5	621.8	615.5	615.1
1311.6	17.5°	1289.0	1238.0	1052.2	825.0	689.8	629.3	594.6	588.2	592.5	598.8
1334.6	20°	1305.9	1228.4	979.3	737.2	634.6	584.3	569.8	574.1	584.3	593.5
1365.1	22.5°	1318.0	1211.1	891.2	668.9	586.8	558.5	557.8	566.6	572.3	576.9
1400.8	25°	1328.6	1181.7	797.7	611.6	547.5	542.9	550.7	547.9	544.0	547.9
1436.5	27.5°	1336.4	1135.4	714.2	561.3	519.9	532.3	527.7	521.3	521.0	523.1
1478.7	30°	1333.9	1073.4	645.5	513.5	500.4	512.5	501.5	500.4	499.4	500.4
1542.0	32.5°	1333.9	1003.0	592.8	480.6	488.0	483.4	482.4	479.9	475.7	475.3
1628.0	35°	1341.3	932.6	547.5	462.9	477.8	466.8	467.5	461.5	452.7	448.4
1742.0	37.5°	1356.6	875.9	502.6	454.4	459.7	459.4	456.6	446.3	430.7	417.3
1884.2	40°	1393.4	859.3	471.8	450.5	451.2	455.5	448.1	428.2	392.8	370.9
2028.6	42.5°	1451.1	887.3	465.0	441.0	445.6	449.8	435.3	389.3	364.2	351.1
2180.1	45°	1524.3	936.1	479.6	427.2	432.1	439.6	396.4	374.4	363.1	363.5
2330.2	47.5°	1617.0	987.4	506.5	415.1	412.7	416.9	370.5	357.1	341.5	345.4
2474.2	50°	1724.3	1039.5	531.9	398.9	391.1	377.3	353.9	341.2	321.4	312.2
2613.3	52.5°	1840.4	1089.7	542.2	379.0	367.7	351.8	342.6	327.0	303.0	287.7
2744.6	55°	1950.4	1135.4	530.9	355.3	344.4	332.0	330.6	321.0	295.2	273.9
2861.4	57.5°	2054.5	1173.6	502.6	331.3	320.6	313.2	322.8	318.2	285.6	258.4
2971.8	60°	2142.6	1199.8	461.5	306.8	299.4	295.5	310.0	308.6	272.2	241.7
3070.9	62.5°	2212.7	1210.0	416.2	283.5	281.7	274.6	292.3	292.3	255.2	225.4
3158.0	65°	2267.5	1200.1	370.2	260.5	264.0	253.4	270.7	268.6	237.1	210.9
3258.1	67.5°	2316.0	1167.6	319.2	237.8	246.0	232.5	248.1	243.1	217.3	196.4
3344.9	70°	2337.6	1091.8	261.2	215.2	225.1	212.0	225.4	216.2	195.0	180.9
3249.7	72.5°	2164.2	907.4	205.6	191.5	200.0	189.3	201.0	190.4	170.9	164.6
2806.2	75°	1790.5	680.9	158.2	165.6	172.0	163.9	171.6	163.9	146.2	150.8
2072.9	77.5°	1300.3	459.7	121.0	138.4	141.2	137.0	143.7	134.8	118.9	117.9
1033.1	80°	646.6	269.3	94.8	109.4	108.3	105.5	113.3	109.0	95.6	101.2
278.9	82.5°	187.2	115.4	69.0	76.8	74.7	75.4	81.0	83.2	124.6	123.5
86.7	85°	58.8	45.3	41.4	42.8	40.7	41.8	47.8	94.8	87.8	51.3
26.9	87.5°	15.2	15.6	10.3	11.0	11.3	13.4	15.2	57.7	27.6	18.0
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>
1207.6
1149.9
1026.0
855.1
722.3
660.8
616.5
601.3
596.7
579.4
550.3
526.6
504.3
479.9
452.7
421.9
373.7
351.1
365.2
355.3
314.6
287.4
273.9
256.9
240.7
224.4
209.5
195.0
178.0
159.3
137.7
112.5
100.2
126.3
55.6
19.1
0.0

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