

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: P939132

Luminaire Tested: **GALN-SB1C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6673 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

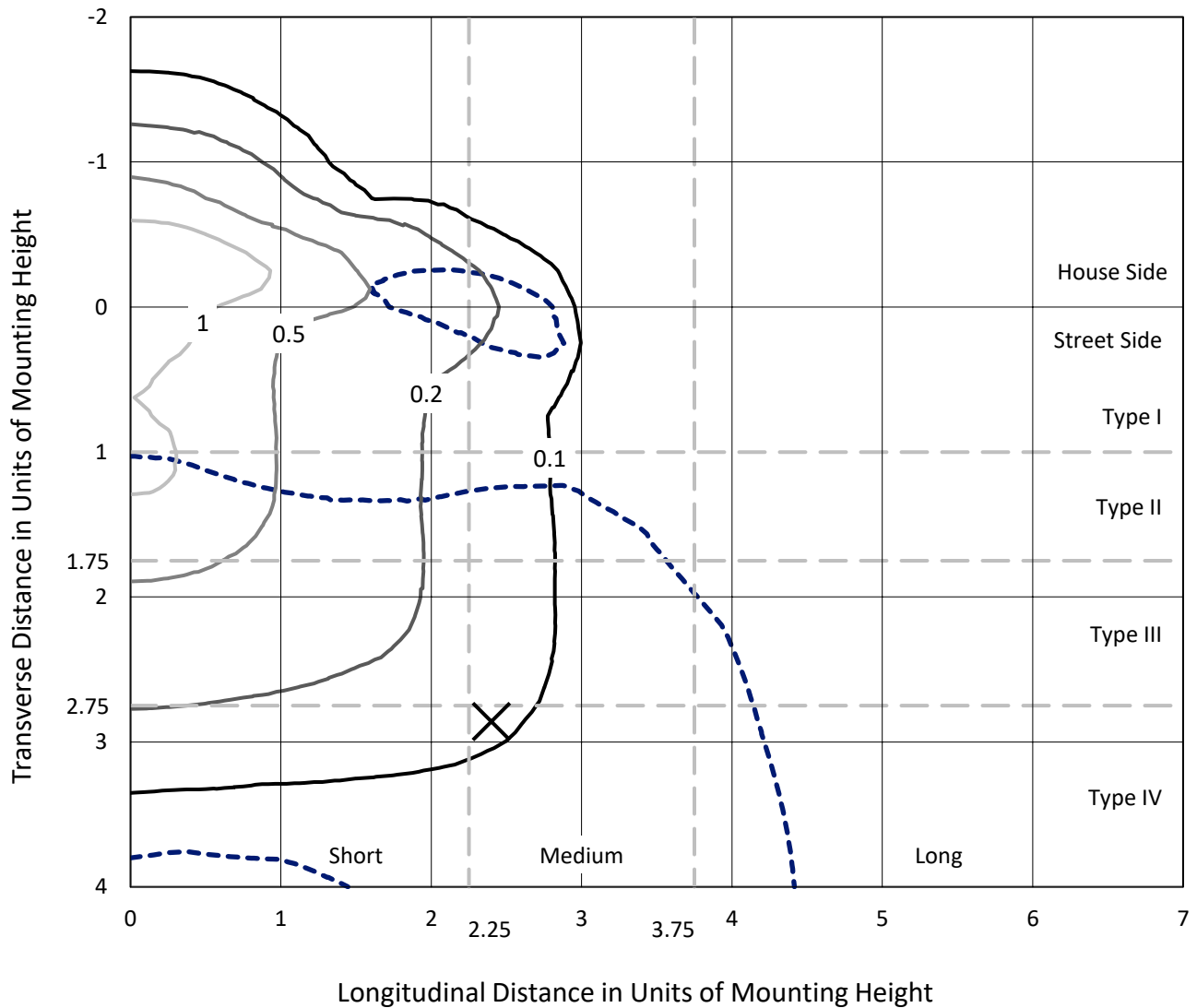
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

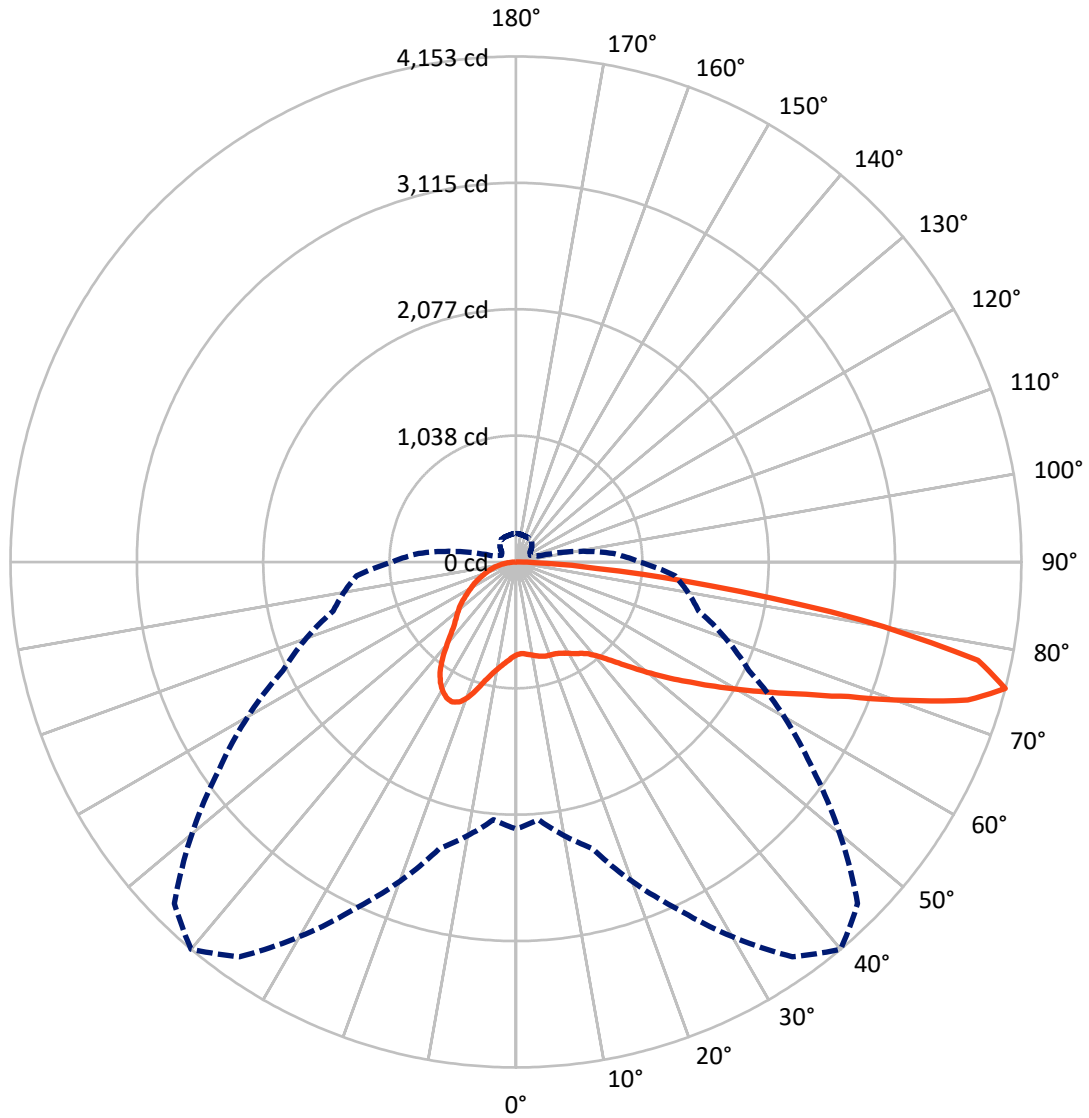
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2067.5	0.0	2067.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4605.5	0.0	4605.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	6673.0	0.0	6673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.1
10°-20°	255.7	3.8
20°-30°	466.9	7.0
30°-40°	662.3	9.9
40°-50°	894.3	13.4
50°-60°	1203.0	18.0
60°-70°	1526.9	22.9
70°-80°	1385.7	20.8
80°-90°	202.0	3.0
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°	6673.0	100.0
0°-180°	6673.0	100.0

Coefficient of Utilization



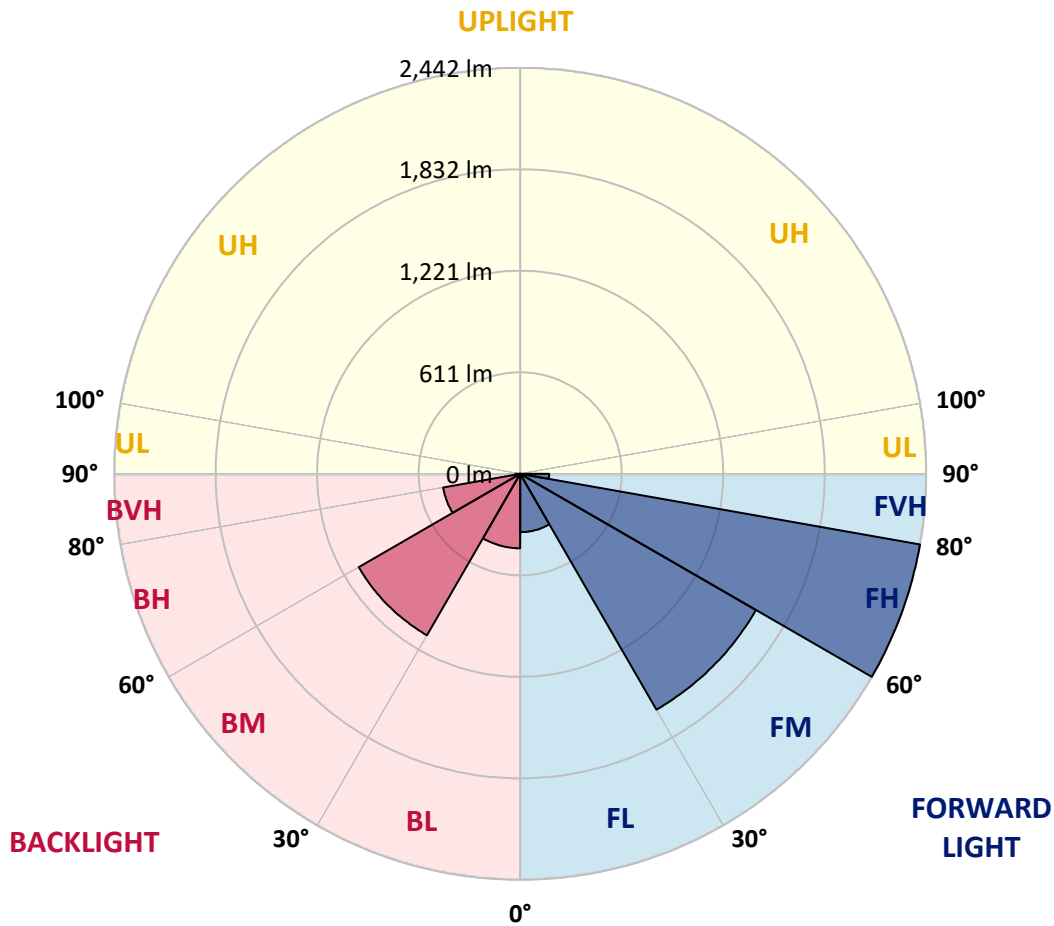
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.0	5.3			
FM (30°-60°)	1638.1	24.5			
FH (60°-80°)	2442.2	36.6			G2/5000
FVH (80°-90°)	174.2	2.6			G2/225
BL (0°-30°)	447.8	6.7	B1/500		
BM (30°-60°)	1121.4	16.8	B2/2500		
BH (60°-80°)	470.4	7.0	B1/500		G1/500
BVH (80°-90°)	27.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	751.4	755.6	754.6	753.2	753.2	753.5	753.2	755.6	758.1	760.6
5°	759.2	763.4	761.3	759.5	758.1	757.8	756.7	756.3	757.8	760.9
7.5°	774.4	778.6	775.5	772.3	769.4	768.0	766.6	764.5	763.4	765.2
10°	791.4	795.6	791.7	786.1	781.5	779.7	778.3	776.2	774.7	775.8
12.5°	808.4	812.6	807.3	799.5	793.5	792.4	790.7	790.0	789.6	789.3
15°	824.3	827.8	821.1	811.9	805.5	803.8	802.0	803.1	804.8	807.0
17.5°	836.7	840.2	830.3	818.3	812.3	811.6	810.5	814.0	819.0	824.3
20°	848.0	851.5	838.8	822.5	815.4	815.4	815.8	823.2	830.3	838.1
22.5°	863.9	866.8	851.2	828.9	818.6	819.3	822.2	829.6	838.5	849.1
25°	887.6	889.8	870.7	840.9	829.3	831.4	833.9	837.4	845.9	858.3
27.5°	925.9	927.6	902.5	862.2	844.5	848.0	851.5	849.1	853.0	863.6
30°	979.7	980.7	948.9	895.4	870.3	872.1	872.8	862.5	855.1	863.6
32.5°	1043.4	1043.0	1005.2	935.8	899.7	897.9	891.9	871.7	854.4	861.8
35°	1142.1	1138.2	1089.4	992.4	933.0	922.0	907.8	882.0	857.9	860.0
37.5°	1305.6	1293.6	1226.0	1085.1	982.5	954.5	933.7	898.6	865.7	859.3
40°	1490.0	1474.8	1400.5	1212.2	1056.8	1011.9	978.3	922.3	878.4	862.5
42.5°	1708.8	1687.2	1607.2	1361.9	1151.0	1085.8	1035.2	952.4	897.2	872.8
45°	1977.4	1948.7	1835.5	1530.7	1269.5	1182.8	1115.2	998.1	925.9	892.6
47.5°	2248.9	2255.9	2094.9	1724.0	1411.8	1302.5	1215.4	1066.7	967.6	924.5
50°	2537.3	2542.3	2352.9	1938.1	1573.2	1437.7	1327.9	1143.5	1025.7	969.8
52.5°	2762.4	2763.1	2587.2	2162.1	1741.3	1586.3	1449.3	1231.3	1092.9	1029.9
55°	2903.3	2901.5	2751.4	2374.1	1934.6	1742.4	1583.8	1331.1	1175.0	1100.7
57.5°	3005.5	3000.2	2864.7	2556.4	2140.6	1926.8	1736.0	1444.4	1272.0	1184.9
60°	3044.5	3041.3	2941.5	2713.9	2357.2	2130.6	1911.6	1571.1	1382.1	1284.4
62.5°	3059.3	3065.4	3016.9	2866.5	2589.0	2356.4	2104.4	1722.6	1506.0	1396.9
65°	3111.7	3122.7	3112.8	3066.1	2850.9	2620.8	2360.3	1902.7	1641.2	1517.6
67.5°	3215.4	3226.4	3230.6	3305.0	3170.8	2950.3	2679.6	2127.1	1799.4	1642.9
70°	3212.9	3209.8	3284.8	3495.0	3571.5	3406.5	3110.0	2403.2	1988.0	1747.0
72.5°	2924.5	2899.0	3076.3	3492.9	3904.9	3882.9	3635.5	2759.2	2150.8	1759.7
75°	2194.0	2126.0	2439.3	3147.8	3960.4	4153.3	3969.6	2980.1	2112.2	1554.8
77.5°	938.3	870.0	1239.1	2330.3	3544.6	3882.6	3663.1	2599.9	1686.1	1028.2
80°	245.6	245.3	374.5	1056.5	2410.6	2867.2	2515.4	1679.0	963.4	367.4
82.5°	101.6	99.1	137.7	410.9	1177.9	1609.0	1313.1	748.9	347.9	99.5
85°	37.9	37.5	66.9	141.9	415.5	663.6	480.3	191.5	86.7	48.5
87.5°	10.6	10.3	14.5	49.2	101.2	153.6	82.1	31.5	24.4	19.1
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°
763.1	0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
764.5	2.5°	765.5	767.3	770.5	773.0	776.2	779.7	784.7	787.8	791.0	793.2
766.3	5°	768.7	772.6	780.8	788.9	798.5	807.3	817.6	825.0	831.0	832.8
772.6	7.5°	775.8	782.2	796.0	809.8	825.0	839.5	854.4	867.1	877.4	881.3
783.9	10°	788.2	796.7	816.2	835.6	855.8	878.1	897.2	915.6	930.1	936.1
797.4	12.5°	803.8	814.4	839.9	866.8	894.7	925.5	950.3	972.9	991.0	999.1
816.2	15°	823.9	837.7	870.3	906.4	947.5	990.3	1021.8	1046.9	1067.1	1077.0
835.6	17.5°	845.9	864.3	905.3	959.8	1018.6	1074.9	1111.7	1130.1	1151.0	1160.5
853.7	20°	867.1	889.8	948.5	1027.8	1106.0	1165.8	1195.6	1200.5	1201.9	1203.0
870.7	22.5°	889.1	919.5	1002.7	1113.5	1197.3	1238.7	1243.0	1221.8	1192.0	1178.2
887.3	25°	913.1	953.5	1073.5	1208.0	1275.9	1280.9	1248.3	1196.6	1140.4	1114.5
900.7	27.5°	936.5	992.8	1158.4	1298.2	1332.5	1289.0	1218.9	1145.7	1077.7	1050.5
910.3	30°	959.8	1037.7	1252.2	1377.1	1358.4	1268.8	1172.6	1090.8	1022.5	993.8
918.8	32.5°	983.6	1090.1	1360.1	1434.1	1353.8	1226.0	1114.9	1029.2	969.1	939.0
926.2	35°	1010.5	1154.5	1462.4	1465.3	1323.0	1163.0	1038.8	955.6	903.2	879.2
935.1	37.5°	1045.5	1236.3	1552.7	1473.0	1269.2	1070.6	944.3	868.5	825.4	814.4
948.2	40°	1089.0	1334.7	1621.7	1460.7	1189.5	958.4	840.9	780.4	756.0	758.5
965.9	42.5°	1145.7	1444.7	1670.2	1428.8	1078.8	842.7	750.3	723.4	735.1	745.0
992.4	45°	1219.3	1559.0	1700.3	1374.7	953.5	744.7	696.9	703.3	712.1	713.2
1035.2	47.5°	1313.4	1674.8	1720.1	1292.9	825.7	675.6	662.9	664.3	662.6	655.1
1099.3	50°	1430.9	1787.3	1737.8	1184.6	717.1	632.5	615.5	610.5	586.1	562.0
1184.6	52.5°	1564.7	1890.7	1745.2	1050.1	632.5	596.4	568.8	537.6	492.0	484.5
1291.8	55°	1713.4	1986.2	1726.1	884.8	561.3	550.0	508.2	470.7	465.8	459.4
1433.1	57.5°	1891.0	2089.2	1687.2	700.4	488.4	495.9	455.2	459.4	450.5	440.6
1614.6	60°	2085.3	2195.8	1618.9	532.3	413.0	428.3	441.3	441.0	438.5	430.4
1806.1	62.5°	2260.2	2265.8	1484.4	407.7	346.8	375.9	411.6	411.3	409.1	404.5
2006.1	65°	2364.2	2255.2	1260.0	321.0	292.3	332.7	371.3	374.1	374.5	374.1
2156.5	67.5°	2345.8	2131.0	952.1	255.5	247.4	288.8	331.3	335.2	338.0	338.7
2175.6	70°	2137.7	1858.1	620.8	203.9	207.4	250.2	293.4	297.3	299.8	302.6
1887.8	72.5°	1666.3	1366.2	355.3	164.9	172.4	217.0	255.9	260.5	261.9	267.2
1313.8	75°	1015.4	803.4	191.8	129.9	141.6	185.5	218.7	224.0	226.5	232.9
645.2	77.5°	482.8	347.9	109.4	101.2	114.0	151.5	184.7	190.8	184.0	187.6
178.0	80°	163.2	129.2	69.0	77.2	87.1	118.2	147.9	154.0	139.8	139.1
59.1	82.5°	57.0	52.4	43.9	51.3	56.3	84.6	111.8	119.6	104.1	103.7
26.5	85°	22.3	21.2	24.4	28.0	33.6	52.0	73.6	77.5	64.1	51.7
7.8	87.5°	4.6	5.0	6.0	6.4	10.3	18.1	26.5	32.6	25.8	21.9
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>
763.1
791.7
833.5
881.6
936.5
999.1
1076.3
1160.2
1205.8
1182.1
1118.4
1053.6
997.0
942.9
884.5
822.2
767.0
754.2
720.2
660.8
565.2
487.0
460.5
438.9
427.5
402.8
374.1
339.4
304.0
269.3
233.6
184.7
137.7
98.7
51.0
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0.0

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