

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: P939555

Luminaire Tested: **GALN-SB2A-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6183 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

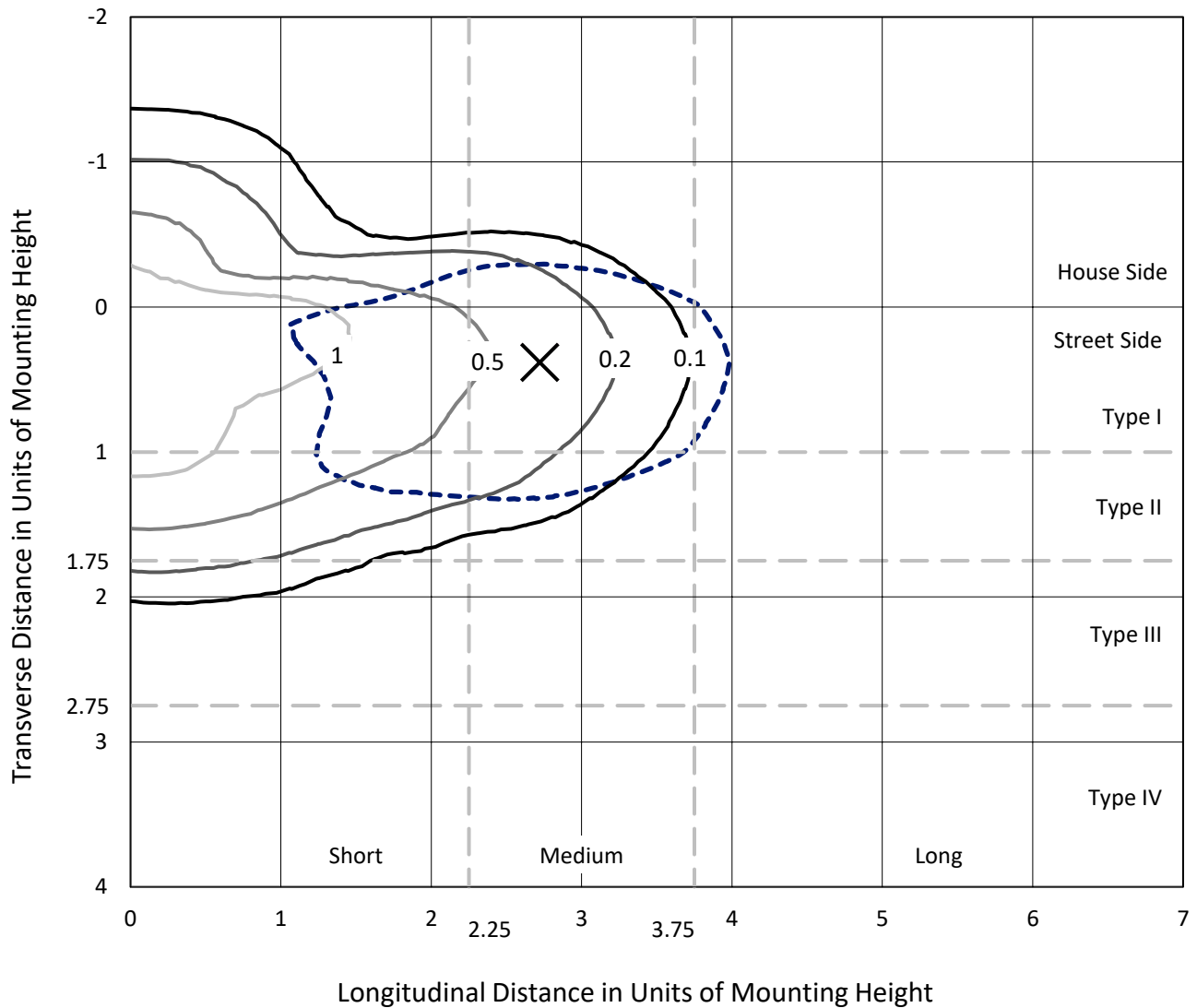
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

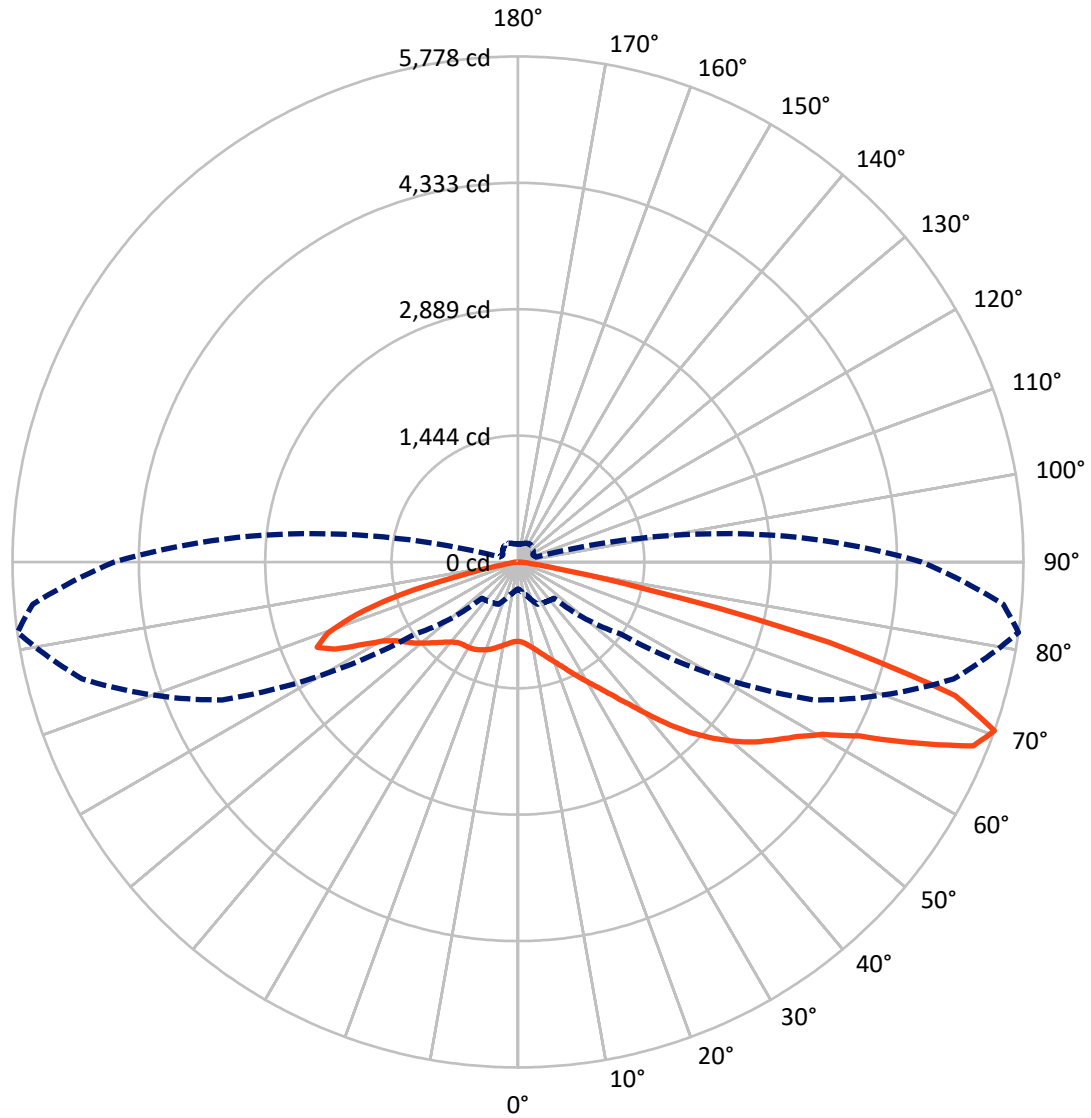
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1524.3	0.0	1524.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4658.7	0.0	4658.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	6183.0	0.0	6183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.4
10°-20°	245.9	4.0
20°-30°	411.4	6.7
30°-40°	642.7	10.4
40°-50°	1023.5	16.6
50°-60°	1424.4	23.0
60°-70°	1490.0	24.1
70°-80°	778.7	12.6
80°-90°	80.9	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°	6183.0	100.0
0°-180°	6183.0	100.0

Coefficient of Utilization



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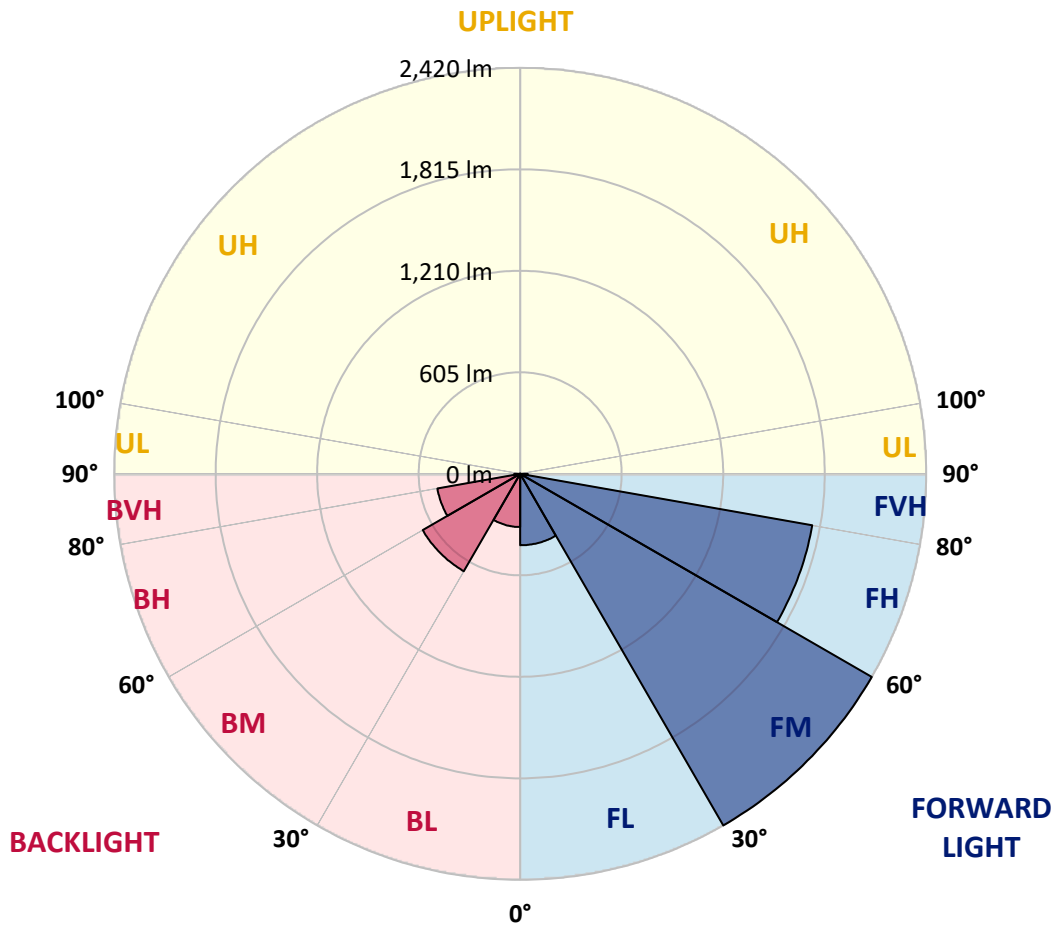
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.8	6.9			
FM (30°-60°)	2420.0	39.1			
FH (60°-80°)	1767.7	28.6			G1/1800
FVH (80°-90°)	45.3	0.7			G1/100
BL (0°-30°)	317.1	5.1	B1/500		
BM (30°-60°)	670.6	10.8	B1/1000		
BH (60°-80°)	501.0	8.1	B2/1000		G2/1000
BVH (80°-90°)	35.6	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	928.2	933.4	931.8	930.1	930.1	927.8	927.5	924.2	921.6	917.3
5°	940.0	945.5	944.9	946.2	950.5	951.5	952.4	950.5	945.2	940.0
7.5°	929.5	935.7	937.7	945.5	958.7	970.5	979.3	982.9	978.0	970.5
10°	894.0	900.9	907.8	926.5	949.8	977.7	1001.3	1015.4	1014.4	1007.2
12.5°	822.2	829.4	844.2	880.6	923.2	972.5	1016.4	1045.9	1056.1	1050.9
15°	764.8	771.0	782.2	819.6	875.0	949.8	1022.0	1079.4	1105.3	1102.4
17.5°	763.1	765.8	772.6	790.4	833.0	914.4	1016.1	1112.2	1161.8	1161.4
20°	792.0	793.0	796.9	800.5	824.8	887.5	1001.0	1139.4	1225.1	1225.1
22.5°	832.0	831.4	835.3	832.0	843.8	885.2	991.5	1163.4	1295.6	1300.9
25°	892.1	888.8	887.8	880.3	882.6	906.5	1002.0	1190.6	1379.3	1390.1
27.5°	972.1	966.9	963.3	945.9	940.0	950.5	1034.1	1223.4	1472.5	1491.2
30°	1076.5	1066.9	1061.7	1031.5	1010.2	1011.8	1082.7	1267.1	1569.9	1600.1
32.5°	1218.8	1204.1	1190.0	1140.4	1101.4	1088.6	1145.4	1327.4	1675.5	1723.8
35°	1378.3	1366.5	1351.4	1274.9	1214.9	1185.4	1230.0	1411.8	1799.2	1875.7
37.5°	1531.8	1521.7	1528.9	1425.9	1348.4	1305.5	1340.9	1524.9	1951.8	2064.7
40°	1690.6	1682.8	1683.7	1585.3	1495.1	1446.9	1475.4	1667.0	2126.7	2289.4
42.5°	1863.2	1857.3	1837.6	1750.3	1649.0	1604.0	1630.3	1831.1	2314.3	2545.3
45°	2056.5	2052.8	2034.5	1934.4	1818.3	1767.7	1803.2	2012.2	2503.0	2786.1
47.5°	2223.4	2226.4	2224.1	2139.8	2019.4	1945.2	1987.6	2201.1	2678.5	3012.5
50°	2303.8	2319.2	2341.9	2315.6	2240.8	2165.4	2173.6	2383.6	2845.8	3224.8
52.5°	2261.8	2291.0	2352.7	2394.7	2423.6	2407.8	2385.9	2564.7	3003.3	3416.4
55°	2105.3	2146.3	2248.7	2350.1	2497.4	2611.9	2640.8	2765.4	3156.9	3585.0
57.5°	1820.2	1886.8	1978.7	2183.7	2431.8	2710.7	2938.0	3044.0	3319.6	3765.1
60°	1331.4	1420.6	1534.8	1839.9	2202.1	2657.8	3191.0	3471.8	3550.9	3998.4
62.5°	852.0	907.2	1012.1	1299.6	1715.9	2387.2	3268.4	4006.6	3943.0	4380.9
65°	583.3	618.8	714.9	876.3	1109.3	1776.9	3061.1	4407.5	4565.7	4987.3
67.5°	423.9	450.8	532.8	674.2	722.8	1051.5	2375.4	4389.2	5171.0	5611.9
70°	309.1	328.1	397.0	532.8	556.1	585.0	1439.0	3731.0	5157.9	5777.9
72.5°	229.0	242.1	288.4	413.4	450.1	395.0	712.3	2711.6	4432.1	5226.1
75°	165.7	175.5	209.6	316.3	360.2	300.9	355.3	1584.7	3091.6	3676.2
77.5°	126.6	134.2	156.5	231.6	288.4	225.7	220.5	729.0	1465.9	1473.1
80°	101.7	106.6	118.8	163.1	221.1	169.0	143.7	294.3	463.3	392.1
82.5°	74.8	83.0	100.4	114.5	158.1	116.5	87.6	148.6	176.2	151.6
85°	42.7	48.2	60.7	82.0	101.1	71.2	50.2	65.9	82.0	67.3
87.5°	15.1	19.7	21.3	32.2	44.0	29.5	19.4	19.0	26.9	20.0
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°
906.5	0°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
916.3	2.5°	913.1	911.4	904.9	896.0	886.8	878.0	875.0	868.8	864.5	862.2
937.7	5°	931.4	926.2	910.8	891.1	870.4	848.1	832.4	817.9	807.4	797.6
966.9	7.5°	957.7	948.5	921.9	887.5	850.7	813.7	786.1	765.1	751.0	741.8
1001.0	10°	988.2	974.1	933.4	881.9	825.1	772.0	739.5	721.5	712.6	707.7
1040.0	12.5°	1023.3	1003.3	945.2	869.1	786.1	725.4	703.1	697.8	698.2	698.5
1089.2	15°	1066.6	1038.7	954.7	841.2	735.2	689.6	685.7	694.2	703.1	707.4
1145.0	17.5°	1115.5	1076.1	956.4	795.3	685.4	666.7	679.1	697.5	711.0	716.9
1207.4	20°	1168.0	1114.2	944.6	730.3	644.4	648.0	670.3	693.9	708.7	716.2
1278.6	22.5°	1228.0	1154.9	916.3	662.1	610.9	627.6	653.9	676.8	692.3	699.8
1362.2	25°	1296.6	1200.5	872.1	604.7	582.0	604.7	630.9	649.9	662.4	669.3
1455.7	27.5°	1372.7	1248.0	813.0	559.1	556.8	581.0	602.7	617.5	624.0	629.3
1555.1	30°	1449.2	1291.4	741.5	524.6	534.8	557.7	573.2	579.7	581.7	582.7
1666.0	32.5°	1531.8	1328.8	666.3	496.1	513.8	535.1	544.3	547.2	538.1	531.8
1800.5	35°	1631.9	1368.8	592.9	473.4	493.1	511.5	514.4	511.8	501.0	488.2
1969.2	37.5°	1755.6	1418.6	534.1	457.4	473.8	485.9	482.3	481.6	482.6	467.5
2171.9	40°	1907.2	1483.6	491.1	444.9	458.0	460.6	450.5	456.0	461.0	438.0
2394.4	42.5°	2075.5	1562.0	463.9	436.4	444.9	438.7	422.9	429.1	428.5	398.3
2617.8	45°	2247.1	1647.3	454.4	430.1	432.7	420.3	402.9	404.5	390.8	363.5
2832.0	47.5°	2417.7	1738.9	460.3	424.9	417.7	403.5	390.1	382.9	362.5	342.2
3037.4	50°	2585.0	1835.0	482.0	414.4	397.0	388.8	378.9	366.1	344.5	327.1
3231.7	52.5°	2740.2	1931.8	506.2	397.0	371.1	376.0	369.8	355.0	333.7	315.9
3415.4	55°	2887.2	2028.6	515.8	373.0	346.8	364.8	361.2	334.0	308.4	294.0
3607.6	57.5°	3047.3	2145.0	505.3	342.5	327.1	352.0	338.3	308.1	293.3	282.5
3858.0	60°	3269.1	2327.8	482.6	304.8	308.4	333.0	309.4	296.9	280.8	268.7
4233.3	62.5°	3637.5	2668.7	446.2	267.4	286.4	304.8	295.6	283.1	266.7	254.9
4875.0	65°	4182.1	3142.4	377.6	238.2	261.8	277.2	280.8	268.4	251.3	238.8
5437.4	67.5°	4641.5	3439.7	285.8	213.9	236.6	254.9	265.1	253.0	234.9	222.8
5569.0	70°	4616.2	3223.8	218.2	190.0	214.2	232.9	246.1	236.6	217.2	205.7
5058.4	72.5°	4100.1	2696.9	176.5	165.7	191.6	210.0	225.7	218.5	198.8	187.7
3705.7	75°	3012.2	1914.4	141.1	141.1	163.4	186.0	203.4	198.8	180.8	172.9
1555.8	77.5°	1269.7	803.2	110.6	117.1	135.8	159.8	181.4	183.1	167.3	177.2
411.4	80°	337.6	221.5	84.3	92.2	106.6	131.9	157.8	157.2	140.1	130.9
152.9	82.5°	128.6	87.3	60.0	65.0	77.1	101.1	125.0	128.9	111.9	96.8
60.0	85°	49.5	37.4	37.1	39.0	44.9	66.9	94.5	97.8	84.3	71.5
16.7	87.5°	12.8	11.2	13.8	13.1	20.7	35.8	54.1	56.1	51.5	29.9
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>
906.5
864.8
801.5
743.8
709.0
699.2
707.0
718.2
718.2
701.8
671.3
631.2
585.0
533.8
488.9
468.5
438.7
398.0
364.5
342.2
325.8
316.3
292.7
281.5
268.0
254.9
239.5
223.1
206.7
187.7
170.6
160.8
121.7
96.8
73.8
42.7
0.0

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