

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: P945266

Luminaire Tested: **GALN-SB1B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5708 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

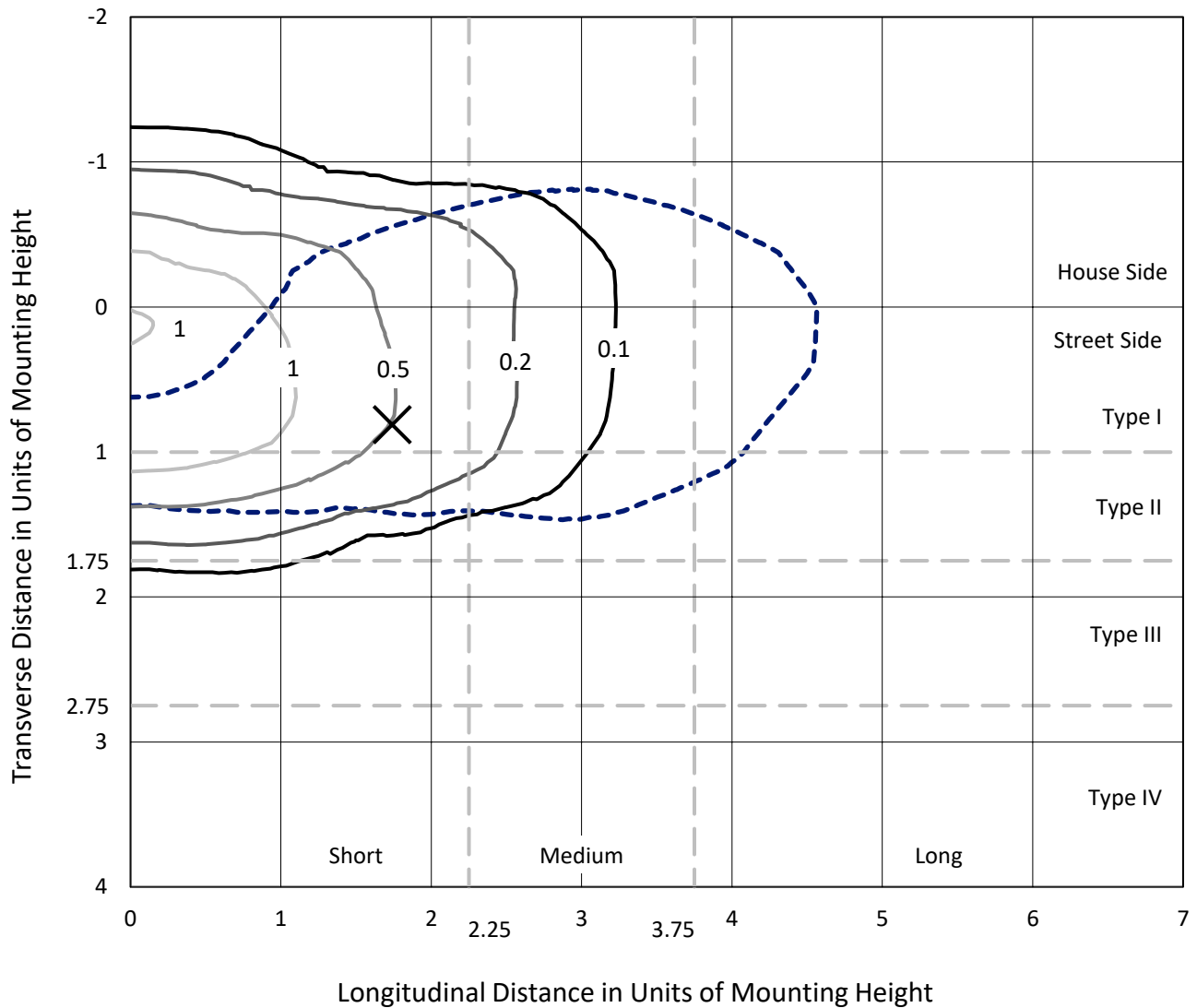
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

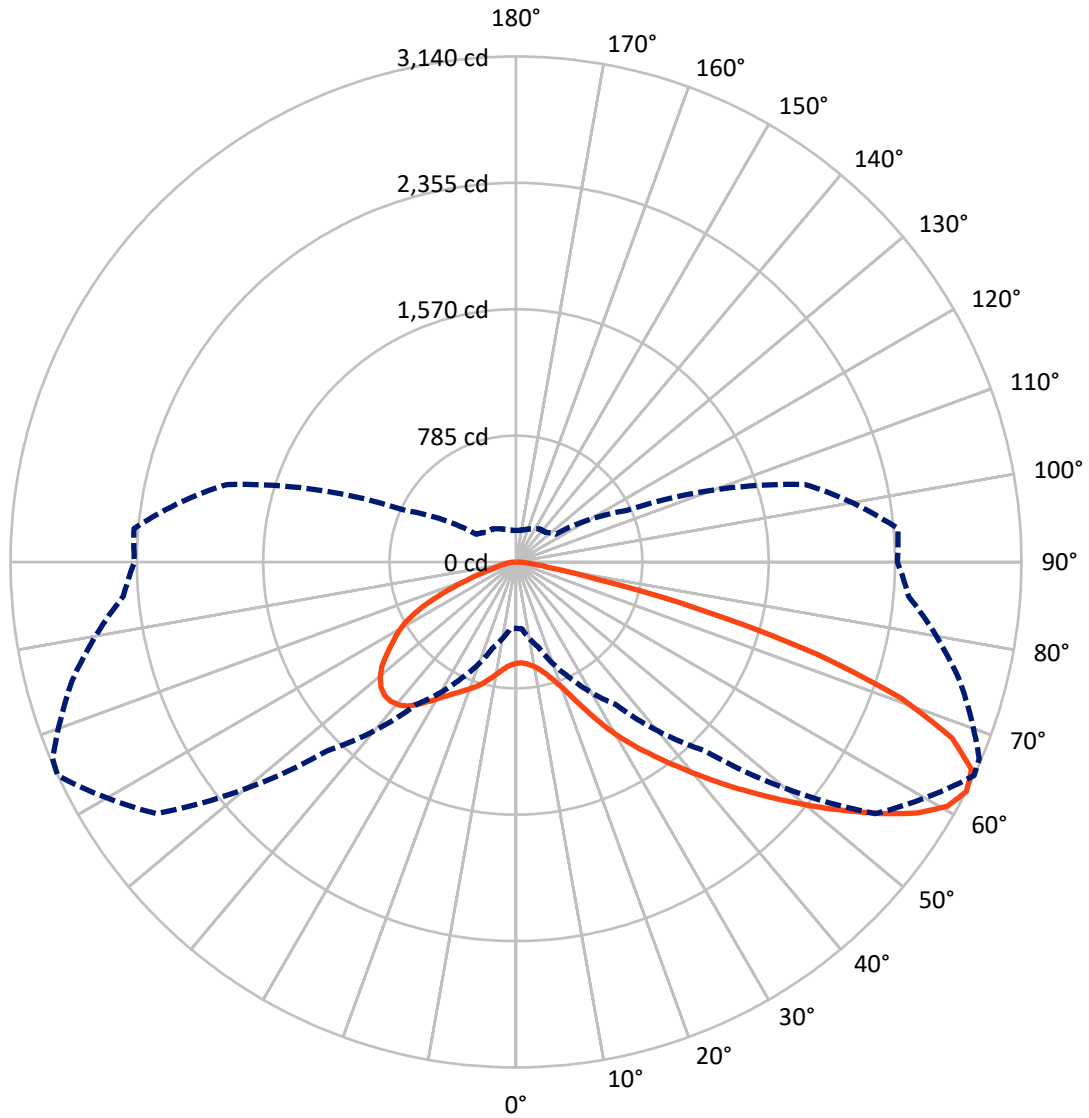
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.2	0.0	1801.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3906.8	0.0	3906.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	5708.0	0.0	5708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.1
10°-20°	212.7	3.7
20°-30°	431.2	7.6
30°-40°	746.2	13.1
40°-50°	1129.2	19.8
50°-60°	1323.9	23.2
60°-70°	1109.9	19.4
70°-80°	612.8	10.7
80°-90°	79.6	1.4
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°	5708.0	100.0
0°-180°	5708.0	100.0

Coefficient of Utilization



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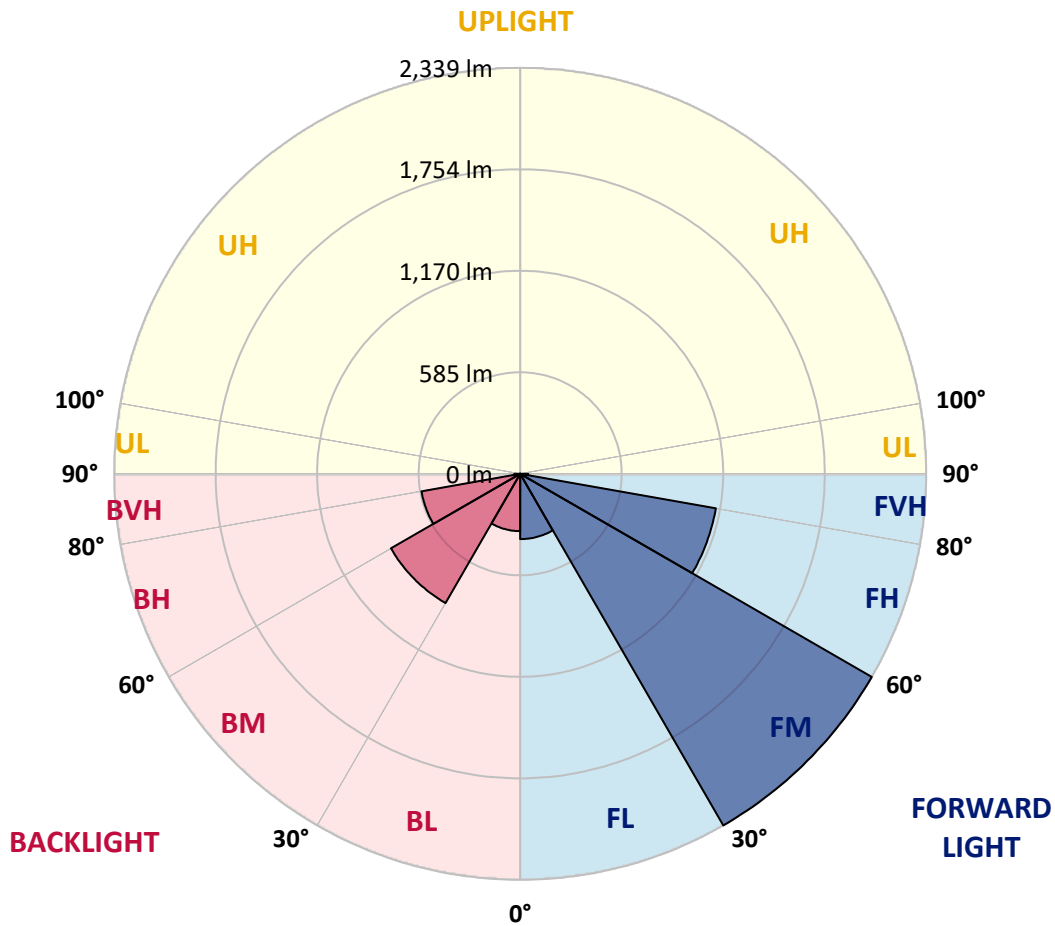
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.2	6.6			
FM (30°-60°)	2339.3	41.0			
FH (60°-80°)	1144.9	20.1			G1/1800
FVH (80°-90°)	46.4	0.8			G1/100
BL (0°-30°)	330.3	5.8	B1/500		
BM (30°-60°)	859.9	15.1	B1/1000		
BH (60°-80°)	577.8	10.1	B2/1000		G2/1000
BVH (80°-90°)	33.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
2.5°	624.9	623.1	624.6	624.6	625.1	624.9	626.9	627.5	628.4	630.2
5°	618.6	618.3	621.0	623.4	625.7	627.8	630.5	634.3	634.9	637.0
7.5°	616.6	614.8	618.9	621.9	627.5	632.6	639.7	646.2	648.8	649.7
10°	632.6	629.6	633.4	635.2	640.0	645.0	653.3	663.6	666.6	670.2
12.5°	659.8	656.5	662.2	664.8	669.3	673.7	679.3	689.4	690.9	697.4
15°	697.1	693.3	696.8	700.1	707.5	711.6	717.2	727.0	727.0	732.1
17.5°	747.7	742.7	745.4	746.6	751.3	757.5	767.0	775.6	780.0	778.3
20°	823.3	817.0	817.0	811.1	809.3	814.4	826.8	838.7	843.4	834.2
22.5°	936.7	927.8	922.8	902.6	894.6	895.2	907.7	922.2	926.0	909.7
25°	1080.9	1067.0	1060.2	1030.6	1012.5	996.8	1006.6	1025.2	1030.6	1010.4
27.5°	1225.1	1226.0	1219.5	1184.0	1154.0	1125.3	1120.3	1139.8	1145.5	1122.7
30°	1427.4	1406.4	1393.9	1351.3	1308.6	1268.4	1247.6	1255.6	1257.1	1229.9
32.5°	1601.8	1596.5	1569.8	1532.5	1477.7	1414.7	1380.0	1367.3	1364.9	1326.1
35°	1800.5	1797.6	1769.4	1725.0	1665.8	1578.1	1515.6	1479.2	1476.2	1421.8
37.5°	2002.5	2002.5	1974.9	1926.4	1865.1	1755.5	1660.4	1602.7	1593.2	1522.1
40°	2163.6	2153.8	2158.8	2138.4	2068.2	1951.8	1821.2	1737.4	1724.7	1639.4
42.5°	2255.1	2251.8	2282.0	2304.8	2276.1	2183.1	1998.3	1883.4	1865.7	1768.5
45°	2275.5	2272.0	2325.9	2409.4	2449.7	2411.5	2190.8	2037.1	2015.5	1903.6
47.5°	2228.4	2221.3	2300.4	2432.2	2561.3	2628.5	2399.3	2203.9	2172.5	2035.1
50°	2086.9	2080.1	2199.7	2374.7	2598.9	2776.0	2625.6	2380.7	2332.7	2176.0
52.5°	1779.2	1782.5	1969.9	2210.4	2549.5	2867.8	2820.4	2566.9	2509.2	2320.2
55°	1385.9	1393.0	1623.4	1888.2	2351.6	2853.9	2953.4	2758.8	2701.4	2455.9
57.5°	992.4	1023.7	1239.6	1501.7	1971.7	2633.3	2982.4	2941.2	2885.6	2603.9
60°	643.2	648.8	870.9	1135.1	1501.4	2241.2	2923.5	3079.5	3036.0	2755.0
62.5°	412.2	416.1	551.4	793.9	1080.6	1658.1	2725.1	3139.7	3126.3	2854.8
65°	302.9	300.0	370.5	524.8	727.9	1022.6	2339.8	3110.6	3137.0	2917.3
67.5°	252.9	248.8	283.4	363.4	536.3	580.7	1731.2	2922.0	3018.5	2910.1
70°	230.4	226.8	247.9	269.8	418.4	388.8	872.7	2540.3	2688.9	2829.3
72.5°	195.2	188.9	217.7	239.6	325.5	298.2	360.7	1951.3	2132.5	2570.2
75°	151.3	147.2	171.8	210.9	244.6	232.8	228.0	1184.8	1382.7	1987.7
77.5°	119.9	114.3	136.8	164.4	220.0	175.6	166.1	510.2	706.3	1269.0
80°	90.3	85.3	103.9	130.0	169.1	132.4	107.5	208.2	266.2	642.9
82.5°	64.3	59.8	72.6	95.4	113.7	118.8	66.0	116.7	131.2	247.9
85°	41.2	38.5	48.6	59.8	72.3	76.4	40.3	61.0	66.9	102.2
87.5°	22.5	18.4	26.1	27.8	33.5	30.5	19.2	22.2	24.0	37.0
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°
629.0	0°	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
630.2	2.5°	631.4	632.3	635.2	636.1	638.2	640.8	642.6	644.4	644.4	646.2
639.7	5°	640.0	642.0	648.2	651.5	656.8	662.2	665.4	669.3	671.6	672.8
654.8	7.5°	656.5	659.8	668.7	674.3	683.5	690.9	695.9	701.3	702.4	705.7
675.8	10°	679.0	682.9	693.0	703.6	714.6	723.8	728.5	732.3	733.8	734.4
702.7	12.5°	704.8	710.4	723.5	736.5	748.0	756.0	757.2	756.3	752.2	748.6
735.9	15°	736.5	741.5	756.0	770.3	781.5	783.0	775.6	770.8	765.8	764.9
772.9	17.5°	774.4	777.1	790.4	804.3	805.2	800.2	789.2	784.8	780.0	776.8
821.2	20°	818.5	817.6	827.1	833.0	826.8	811.4	794.8	787.4	782.7	778.8
880.4	22.5°	871.2	864.4	863.2	861.8	845.2	812.9	790.4	780.9	773.5	768.2
963.0	25°	947.9	921.9	903.8	893.7	856.4	804.9	776.2	755.2	741.2	732.1
1064.0	27.5°	1043.9	1000.1	954.5	929.9	856.4	788.6	741.8	707.8	685.0	675.5
1161.7	30°	1135.4	1089.5	1022.3	973.4	854.4	762.0	686.4	639.1	612.4	602.9
1245.3	32.5°	1213.6	1163.5	1094.2	1021.1	849.3	718.7	617.7	565.3	539.6	528.3
1327.9	35°	1286.1	1232.8	1166.5	1073.5	836.0	655.4	542.2	502.2	473.5	455.5
1412.0	37.5°	1360.5	1297.1	1234.9	1120.9	812.0	581.3	484.2	450.1	416.4	392.1
1501.4	40°	1441.3	1365.5	1308.0	1149.0	772.6	510.8	439.2	408.1	372.2	346.5
1604.5	42.5°	1535.8	1447.5	1389.5	1163.5	718.7	460.8	409.9	379.4	345.6	324.6
1714.9	45°	1634.4	1537.8	1463.8	1163.2	658.6	437.4	400.4	370.2	332.9	310.9
1828.4	47.5°	1737.7	1632.3	1528.1	1144.3	606.5	440.7	395.0	350.3	309.2	287.8
1943.0	50°	1841.4	1735.7	1590.3	1108.7	584.3	433.5	375.2	322.5	273.9	254.7
2050.5	52.5°	1944.1	1845.5	1643.9	1058.1	561.8	407.2	349.7	286.4	259.4	246.1
2161.5	55°	2047.5	1954.2	1702.2	984.4	505.5	376.4	307.1	272.7	247.9	235.7
2270.2	57.5°	2151.1	2079.8	1757.6	910.6	434.7	338.5	283.7	256.2	236.3	226.0
2361.1	60°	2258.9	2223.4	1814.7	842.8	364.8	289.9	266.5	242.8	222.7	211.1
2448.5	62.5°	2370.0	2381.5	1859.4	755.4	300.6	260.3	251.1	226.8	207.3	196.3
2520.7	65°	2481.9	2534.1	1888.8	634.3	243.7	232.2	234.5	209.4	189.5	180.1
2573.7	67.5°	2566.3	2643.9	1880.5	480.0	199.9	205.5	213.8	191.0	172.4	164.9
2565.1	70°	2575.8	2630.9	1798.7	328.7	167.3	179.5	190.7	172.9	153.7	148.4
2444.3	72.5°	2449.7	2453.2	1571.0	214.7	141.6	157.5	166.4	154.6	135.9	130.6
2138.4	75°	2118.9	2028.8	1153.5	141.6	118.5	135.3	143.6	135.3	117.3	118.5
1600.0	77.5°	1605.4	1436.9	700.4	100.7	98.9	113.7	125.0	119.0	103.6	116.4
804.6	80°	827.1	777.4	312.4	75.2	78.2	90.9	102.8	95.1	82.0	78.2
179.8	82.5°	189.5	220.3	123.2	53.9	56.6	65.4	78.5	71.4	58.9	49.8
74.9	85°	66.3	72.6	54.5	33.8	33.2	40.9	53.3	47.7	40.0	32.0
31.7	87.5°	21.0	27.5	20.4	13.6	14.2	18.4	24.6	22.5	18.7	12.1
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>
629.0
646.2
673.4
704.5
732.9
748.6
764.9
777.1
779.1
770.0
735.6
680.2
608.6
533.9
461.4
398.6
351.5
328.7
314.5
290.8
255.9
246.1
234.5
224.2
210.3
196.0
179.8
165.2
148.7
130.3
114.3
102.5
71.4
49.2
33.8
12.7
0.0

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