

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: P938927

Luminaire Tested: **GALN-SB1B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5963 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

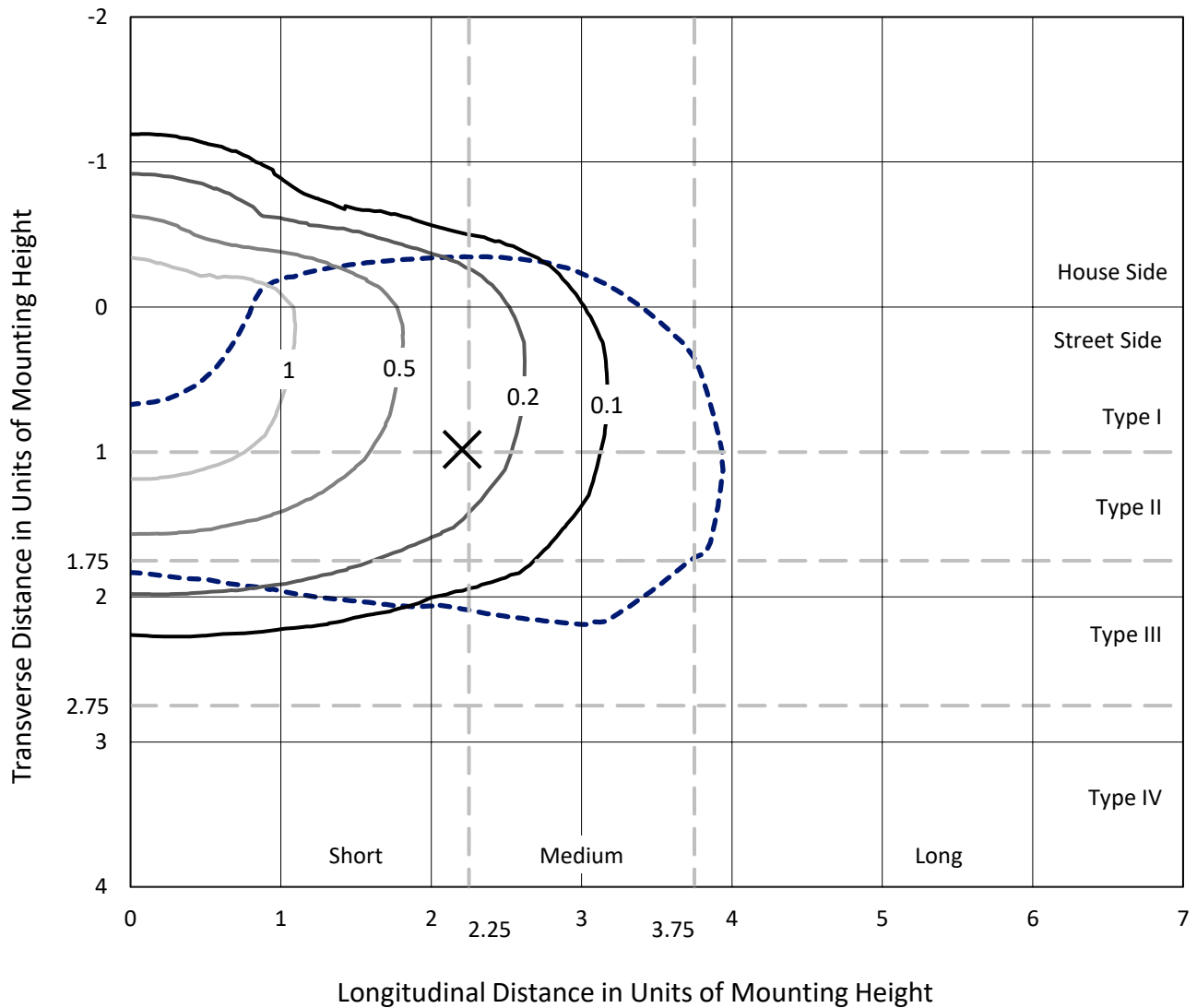
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

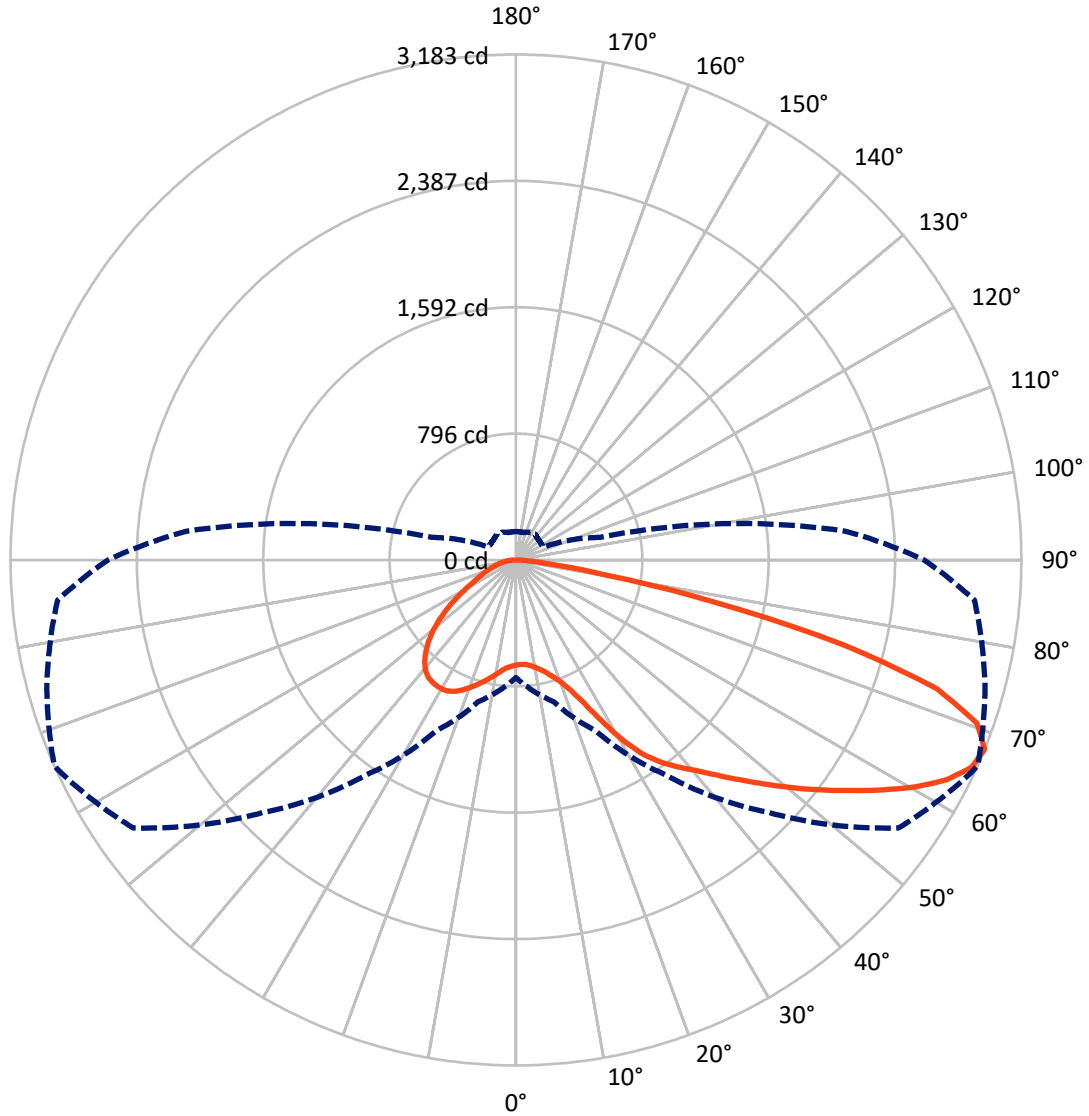
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.7	0.0	1482.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4480.3	0.0	4480.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	5963.0	0.0	5963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	216.6	3.6
20°-30°	417.6	7.0
30°-40°	732.2	12.3
40°-50°	1088.5	18.3
50°-60°	1379.7	23.1
60°-70°	1350.0	22.6
70°-80°	644.0	10.8
80°-90°	68.8	1.2
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°	5963.0	100.0
0°-180°	5963.0	100.0

Coefficient of Utilization



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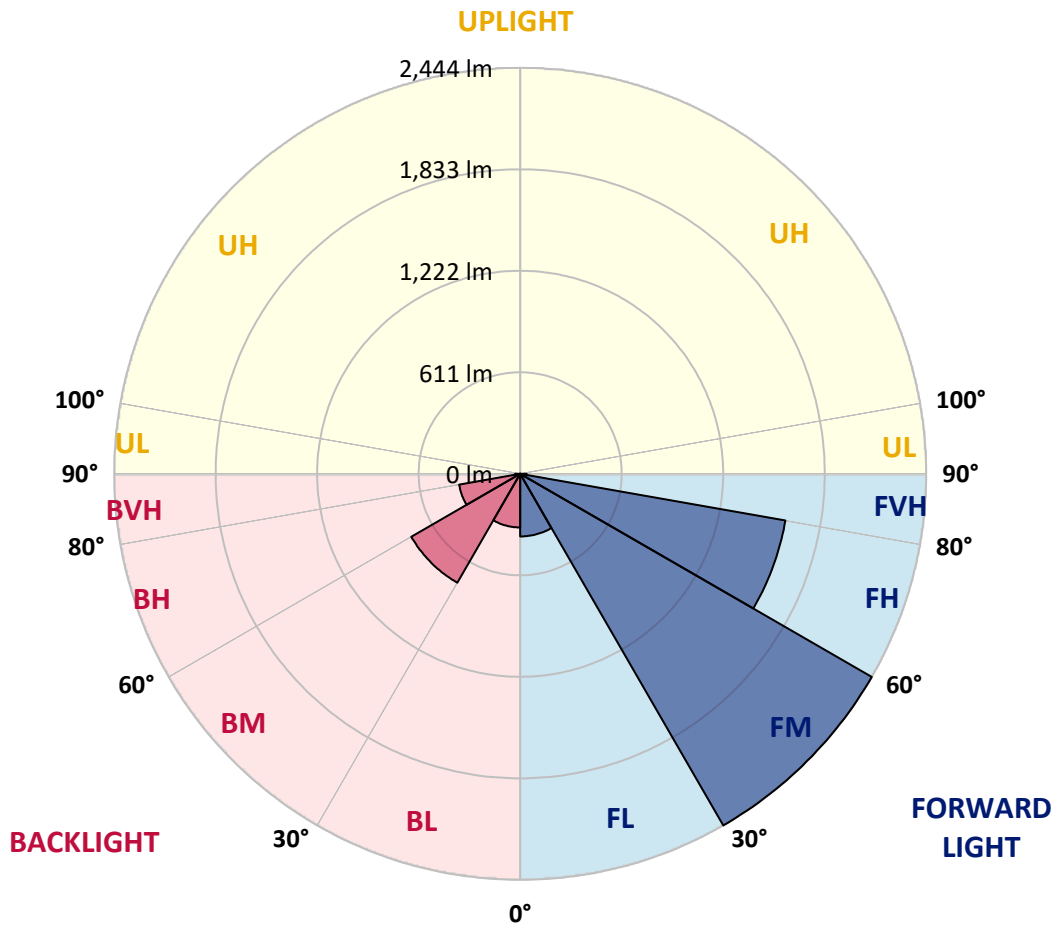
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.8	6.3			
FM (30°-60°)	2443.6	41.0			
FH (60°-80°)	1620.9	27.2			G1/1800
FVH (80°-90°)	39.0	0.7			G1/100
BL (0°-30°)	323.0	5.4	B1/500		
BM (30°-60°)	756.8	12.7	B1/1000		
BH (60°-80°)	373.1	6.3	B1/500		G1/500
BVH (80°-90°)	29.8	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4
2.5°	654.5	658.2	657.3	655.7	655.4	656.0	657.0	657.9	657.6	659.2
5°	652.6	656.4	656.0	656.0	657.3	659.8	661.4	662.9	661.4	663.3
7.5°	653.9	656.7	657.9	659.2	662.3	667.0	670.8	674.2	672.3	674.5
10°	669.8	672.0	673.3	673.3	675.5	680.8	684.6	690.8	689.3	692.7
12.5°	699.0	701.2	701.2	699.9	701.5	704.9	706.2	713.1	710.3	715.9
15°	734.7	739.1	735.6	733.4	734.1	737.5	737.2	742.5	739.7	744.4
17.5°	774.2	779.8	774.2	773.9	772.6	776.4	776.7	781.4	776.4	779.8
20°	820.8	828.7	824.0	825.5	822.7	824.3	825.9	832.8	824.9	827.4
22.5°	886.6	896.0	891.0	897.0	895.1	893.8	893.5	905.7	893.5	894.5
25°	982.5	993.8	985.0	993.2	993.2	997.2	1001.9	1017.6	997.2	991.3
27.5°	1124.1	1135.4	1118.2	1123.2	1121.6	1131.6	1126.6	1165.5	1143.5	1133.8
30°	1294.6	1314.6	1282.0	1280.8	1279.2	1295.2	1302.4	1328.1	1305.8	1296.1
32.5°	1478.8	1499.8	1460.9	1449.6	1443.7	1453.4	1447.4	1468.1	1452.8	1437.7
35°	1673.6	1694.3	1657.4	1635.4	1611.6	1591.2	1569.9	1575.3	1560.9	1538.0
37.5°	1857.9	1895.8	1856.6	1833.1	1789.3	1749.5	1689.9	1665.2	1651.7	1630.7
40°	2045.5	2067.2	2037.4	2017.3	1969.7	1907.4	1812.1	1759.8	1741.6	1721.3
42.5°	2183.7	2204.4	2188.4	2174.6	2137.3	2065.0	1941.8	1876.4	1850.0	1827.2
45°	2293.4	2308.7	2298.7	2303.7	2287.7	2217.5	2076.2	2001.4	1974.1	1946.2
47.5°	2337.5	2353.8	2369.8	2399.6	2426.8	2375.1	2220.7	2136.7	2107.9	2079.4
50°	2332.5	2349.1	2395.5	2458.8	2543.4	2526.1	2372.9	2280.8	2254.2	2221.6
52.5°	2292.4	2311.2	2370.7	2476.0	2610.7	2639.2	2528.0	2429.6	2404.6	2365.7
55°	2187.1	2198.4	2287.7	2436.8	2626.7	2718.2	2680.0	2588.2	2563.1	2508.9
57.5°	1992.0	2008.3	2138.3	2331.3	2586.6	2771.8	2813.4	2754.8	2730.7	2652.7
60°	1737.2	1763.3	1912.1	2153.9	2484.5	2771.4	2934.7	2918.7	2898.6	2794.3
62.5°	1449.0	1479.1	1622.3	1903.3	2305.9	2692.8	3010.5	3055.9	3045.6	2925.0
65°	1112.8	1133.5	1276.1	1579.0	2028.0	2523.9	3019.3	3149.6	3151.5	3024.3
67.5°	741.0	800.5	924.2	1184.9	1655.8	2247.9	2942.2	3165.0	3183.1	3058.4
70°	361.5	439.9	561.1	770.1	1184.9	1824.7	2740.7	3039.0	3079.4	2958.8
72.5°	150.1	175.4	241.6	380.0	680.2	1231.3	2336.0	2697.5	2772.4	2621.7
75°	101.2	109.7	138.2	194.9	309.9	607.2	1684.6	2011.4	2132.0	1980.1
77.5°	78.0	83.3	100.6	136.3	184.2	229.6	901.7	1212.2	1274.5	1179.9
80°	61.4	65.5	75.2	99.3	130.6	122.8	307.3	549.2	585.2	490.9
82.5°	53.3	54.8	53.9	67.4	86.8	71.7	100.9	202.7	223.7	162.3
85°	38.5	42.9	44.8	41.7	46.1	36.3	41.4	71.7	79.0	70.5
87.5°	15.7	23.2	28.5	26.9	16.9	10.3	12.8	21.0	24.1	26.3
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°
661.4	0°	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4
661.7	2.5°	662.0	664.2	665.8	667.6	668.9	670.8	674.5	676.7	677.0	678.6
666.7	5°	668.0	671.1	674.5	679.5	685.2	689.9	697.1	702.1	704.0	705.6
678.9	7.5°	680.8	685.2	691.5	700.2	708.4	714.6	723.4	729.4	735.3	737.5
698.3	10°	699.9	706.2	715.3	727.2	735.9	744.1	753.2	758.2	764.1	766.6
721.5	12.5°	723.7	730.3	742.2	758.8	767.0	772.6	775.7	774.5	775.7	777.9
749.4	15°	751.0	758.2	771.7	789.5	795.2	790.1	783.2	777.0	776.0	776.7
783.2	17.5°	783.2	788.6	804.2	819.3	815.2	794.5	779.5	769.5	764.5	762.9
826.5	20°	828.4	828.4	841.2	850.6	823.4	788.3	764.8	748.5	738.1	733.7
885.4	22.5°	883.2	878.2	886.3	879.7	821.8	770.7	738.1	709.9	694.3	688.0
967.8	25°	952.7	946.8	944.6	903.9	810.5	742.8	689.9	655.7	642.0	638.5
1086.5	27.5°	1057.7	1042.7	1014.2	917.0	789.8	699.0	633.5	601.8	594.0	594.3
1239.1	30°	1197.4	1167.4	1097.5	919.2	756.0	636.9	575.8	553.3	549.5	551.1
1367.2	32.5°	1326.8	1298.3	1182.7	909.2	704.0	576.2	524.2	509.1	503.5	505.4
1465.0	35°	1428.3	1420.5	1261.7	895.1	640.1	519.1	477.8	464.9	454.0	451.5
1557.1	37.5°	1524.2	1521.1	1320.9	875.4	576.8	478.7	440.5	423.6	407.6	398.8
1658.9	40°	1629.5	1626.3	1359.7	845.0	520.7	443.6	407.0	384.7	365.0	349.0
1774.2	42.5°	1747.9	1729.4	1378.2	801.4	473.1	413.9	379.7	349.6	323.6	308.9
1904.5	45°	1877.3	1835.6	1377.9	746.0	433.0	386.6	350.6	308.0	283.8	270.1
2038.3	47.5°	2014.5	1937.1	1361.0	684.6	394.1	356.5	305.5	272.9	256.9	248.4
2183.7	50°	2156.1	2032.1	1332.1	614.1	354.3	322.4	277.3	255.0	242.8	235.0
2327.8	52.5°	2289.3	2118.2	1297.4	534.2	313.9	289.2	264.7	247.5	234.7	225.9
2467.5	55°	2413.0	2192.5	1248.2	452.4	281.0	266.9	258.8	244.4	229.6	219.3
2609.5	57.5°	2523.0	2240.7	1163.3	375.6	257.5	251.6	252.5	239.0	222.1	213.4
2749.2	60°	2614.5	2276.1	1037.6	304.5	238.4	236.5	242.8	229.0	209.3	199.3
2867.3	62.5°	2669.3	2275.5	883.5	249.4	222.1	222.8	230.0	216.5	196.4	187.0
2929.0	65°	2664.6	2219.7	714.3	213.4	206.5	207.1	216.5	202.7	185.8	180.1
2898.0	67.5°	2570.3	2083.8	548.0	189.9	189.2	192.1	203.0	193.3	179.2	178.6
2713.2	70°	2315.0	1801.5	394.8	171.1	171.4	175.4	189.9	187.4	175.8	177.0
2281.1	72.5°	1856.3	1373.5	265.1	151.3	151.6	158.2	177.3	182.7	172.3	188.9
1618.5	75°	1236.3	856.6	170.4	130.3	130.6	139.1	166.4	173.6	162.9	188.3
842.1	77.5°	594.0	385.0	123.4	109.7	109.7	117.5	143.8	155.4	138.8	146.3
270.7	80°	205.2	144.7	97.1	88.4	86.5	91.8	121.2	134.7	119.7	110.3
88.4	82.5°	80.8	75.2	78.0	68.6	62.3	65.8	94.3	111.2	88.0	79.6
49.8	85°	46.4	48.9	55.1	45.4	36.0	40.4	69.2	79.9	66.4	58.6
16.3	87.5°	12.5	17.2	25.4	23.5	16.3	17.2	32.9	44.2	38.2	29.5
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>
661.4
678.3
705.2
737.8
767.9
778.5
778.9
765.1
732.8
687.1
639.1
595.3
556.4
507.9
453.3
399.1
350.6
309.9
269.4
246.6
232.2
222.1
215.2
207.7
194.9
184.2
179.8
179.5
176.7
191.4
189.9
134.1
103.4
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