

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: P945350

Luminaire Tested: **GALN-SB1B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945350
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-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4964 lumens
Efficiency: N/A
Efficacy: 124.7 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

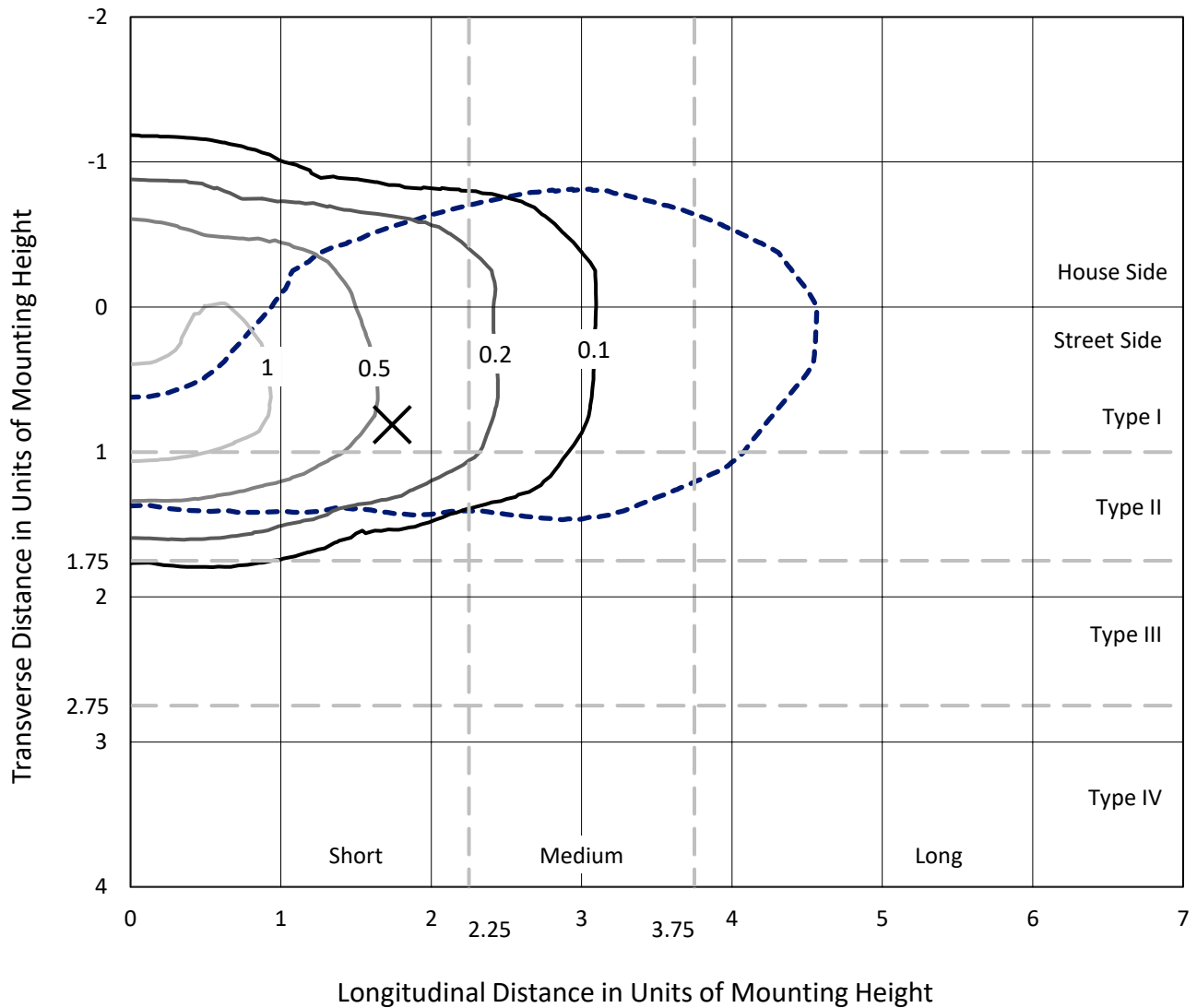
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

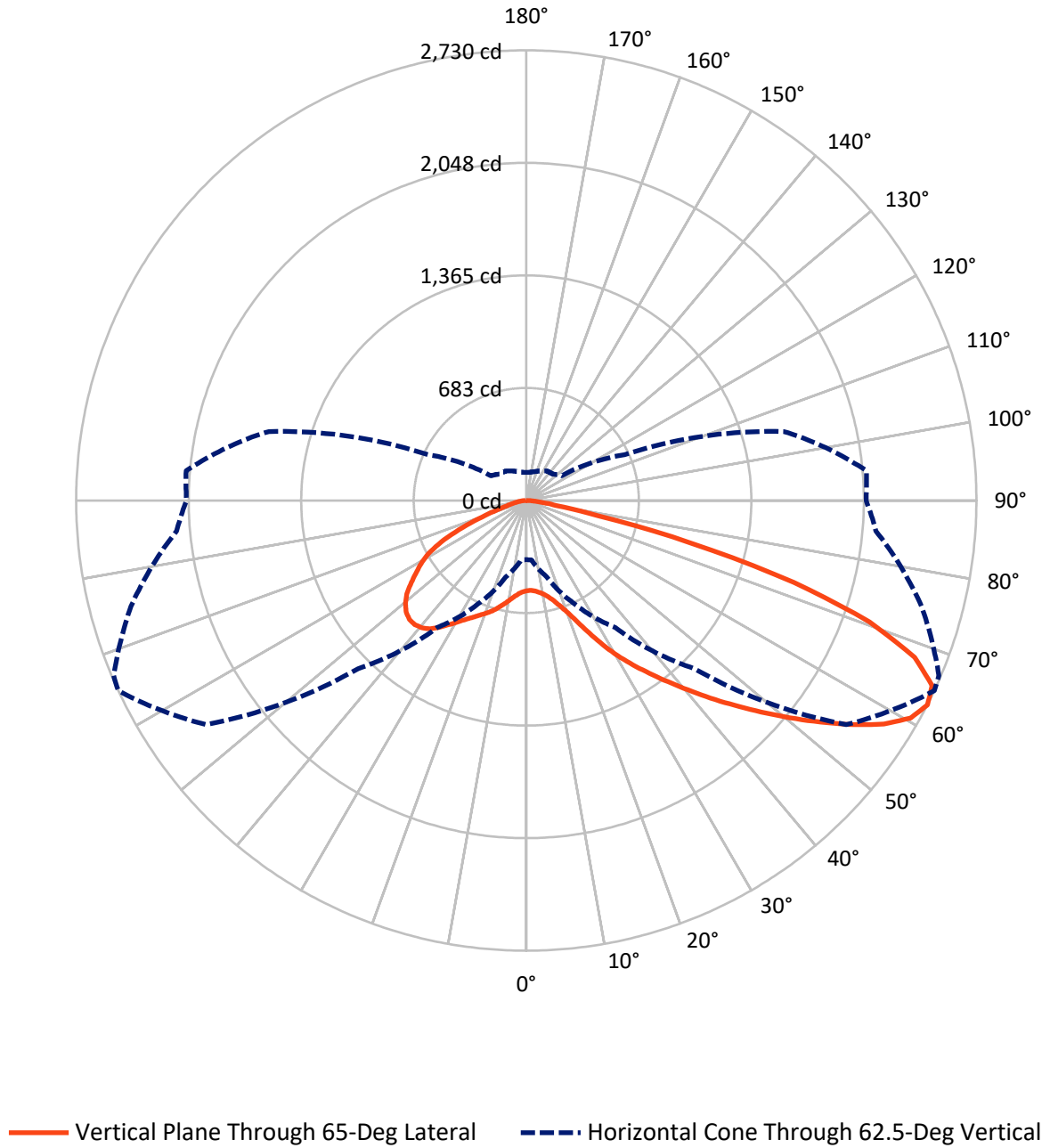
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.4	0.0	1566.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3397.6	0.0	3397.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	4964.0	0.0	4964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	184.9	3.7
20°-30°	375.0	7.6
30°-40°	648.9	13.1
40°-50°	982.0	19.8
50°-60°	1151.3	23.2
60°-70°	965.2	19.4
70°-80°	532.9	10.7
80°-90°	69.2	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°	4964.0	100.0
0°-180°	4964.0	100.0

Coefficient of Utilization



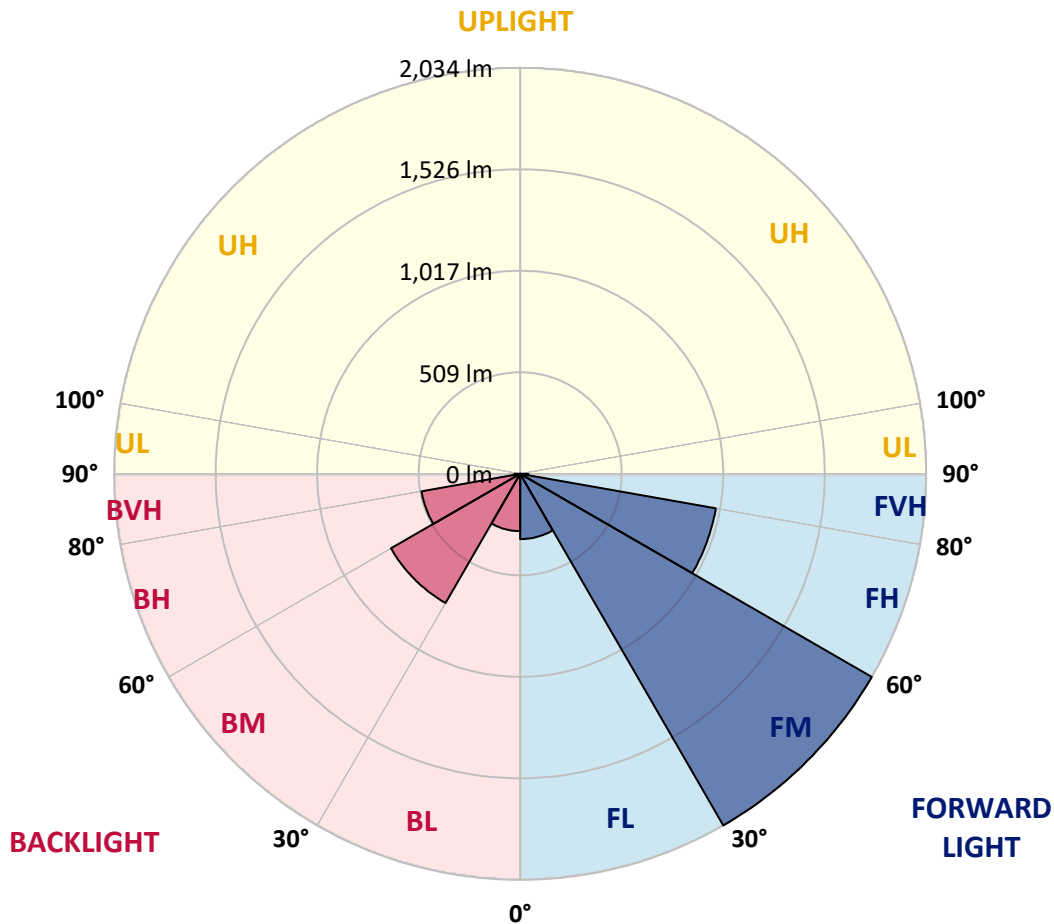
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.2	6.6			
FM (30°-60°)	2034.4	41.0			
FH (60°-80°)	995.6	20.1			G1/1800
FVH (80°-90°)	40.3	0.8			G1/100
BL (0°-30°)	287.3	5.8	B1/500		
BM (30°-60°)	747.8	15.1	B1/1000		
BH (60°-80°)	502.5	10.1	B2/1000		G2/1000
BVH (80°-90°)	28.9	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°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
2.5°	543.4	541.9	543.1	543.1	543.7	543.4	545.2	545.7	546.5	548.0
5°	538.0	537.7	540.1	542.1	544.2	546.0	548.3	551.6	552.2	554.0
7.5°	536.2	534.6	538.3	540.8	545.7	550.1	556.3	561.9	564.3	565.0
10°	550.1	547.5	550.9	552.4	556.5	560.9	568.1	577.1	579.7	582.8
12.5°	573.8	571.0	575.9	578.2	582.0	585.9	590.8	599.5	600.8	606.5
15°	606.2	602.9	606.0	608.8	615.3	618.9	623.8	632.3	632.3	636.6
17.5°	650.3	645.9	648.2	649.3	653.4	658.8	667.0	674.5	678.4	676.8
20°	716.0	710.5	710.5	705.4	703.9	708.2	719.0	729.3	733.5	725.5
22.5°	814.6	806.9	802.5	785.0	778.0	778.5	789.4	802.0	805.3	791.2
25°	940.0	927.9	922.0	896.2	880.5	866.9	875.4	891.6	896.2	878.7
27.5°	1065.4	1066.2	1060.5	1029.6	1003.6	978.6	974.3	991.3	996.2	976.3
30°	1241.3	1223.0	1212.2	1175.1	1138.1	1103.0	1085.0	1092.0	1093.2	1069.6
32.5°	1393.0	1388.4	1365.2	1332.8	1285.1	1230.3	1200.1	1189.1	1187.0	1153.3
35°	1565.8	1563.3	1538.8	1500.2	1448.7	1372.4	1318.1	1286.4	1283.8	1236.4
37.5°	1741.5	1741.5	1717.5	1675.3	1622.0	1526.7	1444.0	1393.8	1385.6	1323.7
40°	1881.6	1873.1	1877.5	1859.7	1798.6	1697.4	1583.9	1511.0	1499.9	1425.7
42.5°	1961.2	1958.3	1984.6	2004.4	1979.4	1898.6	1737.9	1637.9	1622.5	1538.0
45°	1978.9	1975.8	2022.7	2095.3	2130.4	2097.1	1905.3	1771.6	1752.8	1655.5
47.5°	1938.0	1931.8	2000.6	2115.2	2227.4	2285.9	2086.6	1916.6	1889.3	1769.8
50°	1814.9	1808.9	1913.0	2065.2	2260.2	2414.2	2283.3	2070.4	2028.6	1892.4
52.5°	1547.3	1550.1	1713.1	1922.3	2217.1	2494.0	2452.8	2232.3	2182.1	2017.8
55°	1205.3	1211.5	1411.8	1642.1	2045.1	2481.9	2568.4	2399.2	2349.3	2135.8
57.5°	863.0	890.3	1078.1	1306.0	1714.7	2290.0	2593.7	2557.9	2509.5	2264.5
60°	559.4	564.3	757.4	987.1	1305.7	1949.0	2542.4	2678.1	2640.3	2395.9
62.5°	358.5	361.8	479.5	690.5	939.8	1442.0	2369.9	2730.4	2718.8	2482.7
65°	263.5	260.9	322.2	456.4	633.0	889.3	2034.8	2705.2	2728.1	2537.0
67.5°	219.9	216.3	246.5	316.0	466.4	505.0	1505.6	2541.1	2625.1	2530.8
70°	200.4	197.3	215.6	234.6	363.9	338.1	759.0	2209.2	2338.4	2460.5
72.5°	169.7	164.3	189.3	208.3	283.0	259.3	313.7	1696.9	1854.5	2235.2
75°	131.6	128.0	149.4	183.4	212.7	202.4	198.3	1030.4	1202.4	1728.6
77.5°	104.3	99.4	119.0	142.9	191.4	152.7	144.5	443.7	614.2	1103.6
80°	78.5	74.2	90.4	113.1	147.1	115.1	93.5	181.0	231.5	559.1
82.5°	55.9	52.0	63.1	82.9	98.9	103.3	57.4	101.5	114.1	215.6
85°	35.8	33.5	42.2	52.0	62.8	66.4	35.0	53.1	58.2	88.9
87.5°	19.6	16.0	22.7	24.2	29.1	26.5	16.7	19.3	20.9	32.2
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°
547.0	0°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
548.0	2.5°	549.1	549.8	552.4	553.2	555.0	557.3	558.9	560.4	560.4	561.9
556.3	5°	556.5	558.3	563.8	566.6	571.2	575.9	578.7	582.0	584.1	585.1
569.4	7.5°	571.0	573.8	581.5	586.4	594.4	600.8	605.2	609.9	610.9	613.7
587.7	10°	590.5	593.9	602.6	611.9	621.4	629.4	633.5	636.9	638.2	638.7
611.1	12.5°	612.9	617.8	629.2	640.5	650.5	657.5	658.5	657.8	654.1	651.1
640.0	15°	640.5	644.9	657.5	669.9	679.6	680.9	674.5	670.4	666.0	665.2
672.2	17.5°	673.5	675.8	687.4	699.5	700.2	695.9	686.3	682.5	678.4	675.5
714.2	20°	711.8	711.1	719.3	724.5	719.0	705.7	691.2	684.8	680.7	677.3
765.7	22.5°	757.7	751.8	750.7	749.4	735.0	706.9	687.4	679.1	672.7	668.1
837.5	25°	824.4	801.7	786.0	777.3	744.8	700.0	675.0	656.7	644.6	636.6
925.3	27.5°	907.8	869.7	830.0	808.7	744.8	685.8	645.1	615.5	595.7	587.4
1010.3	30°	987.4	947.5	889.0	846.5	743.0	662.6	597.0	555.8	532.6	524.3
1082.9	32.5°	1055.4	1011.9	951.6	888.0	738.6	625.0	537.2	491.6	469.2	459.4
1154.8	35°	1118.5	1072.1	1014.4	933.6	727.0	569.9	471.6	436.8	411.8	396.1
1227.9	37.5°	1183.1	1128.0	1073.9	974.8	706.2	505.5	421.1	391.5	362.1	341.0
1305.7	40°	1253.4	1187.5	1137.5	999.2	671.9	444.3	381.9	354.9	323.7	301.3
1395.3	42.5°	1335.6	1258.8	1208.4	1011.9	625.0	400.7	356.4	329.9	300.5	282.3
1491.4	45°	1421.4	1337.4	1273.0	1011.6	572.8	380.4	348.2	321.9	289.5	270.4
1590.0	47.5°	1511.2	1419.6	1328.9	995.1	527.4	383.2	343.6	304.7	268.9	250.3
1689.7	50°	1601.4	1509.4	1383.0	964.2	508.1	377.0	326.3	280.5	238.2	221.5
1783.2	52.5°	1690.7	1605.0	1429.6	920.2	488.6	354.1	304.2	249.0	225.6	214.0
1879.8	55°	1780.6	1699.5	1480.3	856.1	439.6	327.3	267.1	237.2	215.6	205.0
1974.3	57.5°	1870.8	1808.7	1528.5	791.9	378.1	294.4	246.7	222.8	205.5	196.5
2053.4	60°	1964.5	1933.6	1578.2	733.0	317.3	252.1	231.8	211.2	193.7	183.6
2129.3	62.5°	2061.1	2071.1	1617.1	657.0	261.4	226.4	218.4	197.3	180.3	170.7
2192.2	65°	2158.4	2203.8	1642.6	551.6	212.0	201.9	204.0	182.1	164.8	156.6
2238.3	67.5°	2231.8	2299.3	1635.4	417.5	173.8	178.7	185.9	166.1	149.9	143.4
2230.8	70°	2240.1	2288.0	1564.3	285.9	145.5	156.1	165.9	150.4	133.7	129.0
2125.7	72.5°	2130.4	2133.4	1366.2	186.7	123.1	137.0	144.7	134.4	118.2	113.6
1859.7	75°	1842.7	1764.4	1003.1	123.1	103.0	117.7	124.9	117.7	102.0	103.0
1391.5	77.5°	1396.1	1249.6	609.1	87.6	86.0	98.9	108.7	103.5	90.1	101.2
699.7	80°	719.3	676.0	271.7	65.4	68.0	79.1	89.4	82.7	71.3	68.0
156.3	82.5°	164.8	191.6	107.1	46.9	49.2	56.9	68.2	62.1	51.3	43.3
65.2	85°	57.7	63.1	47.4	29.4	28.8	35.5	46.4	41.5	34.8	27.8
27.6	87.5°	18.3	24.0	17.8	11.8	12.4	16.0	21.4	19.6	16.2	10.6
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>
547.0
561.9
585.6
612.7
637.4
651.1
665.2
675.8
677.6
669.6
639.7
591.6
529.2
464.3
401.2
346.6
305.7
285.9
273.5
252.9
222.5
214.0
204.0
195.0
182.9
170.5
156.3
143.7
129.3
113.3
99.4
89.1
62.1
42.8
29.4
11.1
0.0

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