

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: P945033

Luminaire Tested: **GALN-SB1A-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

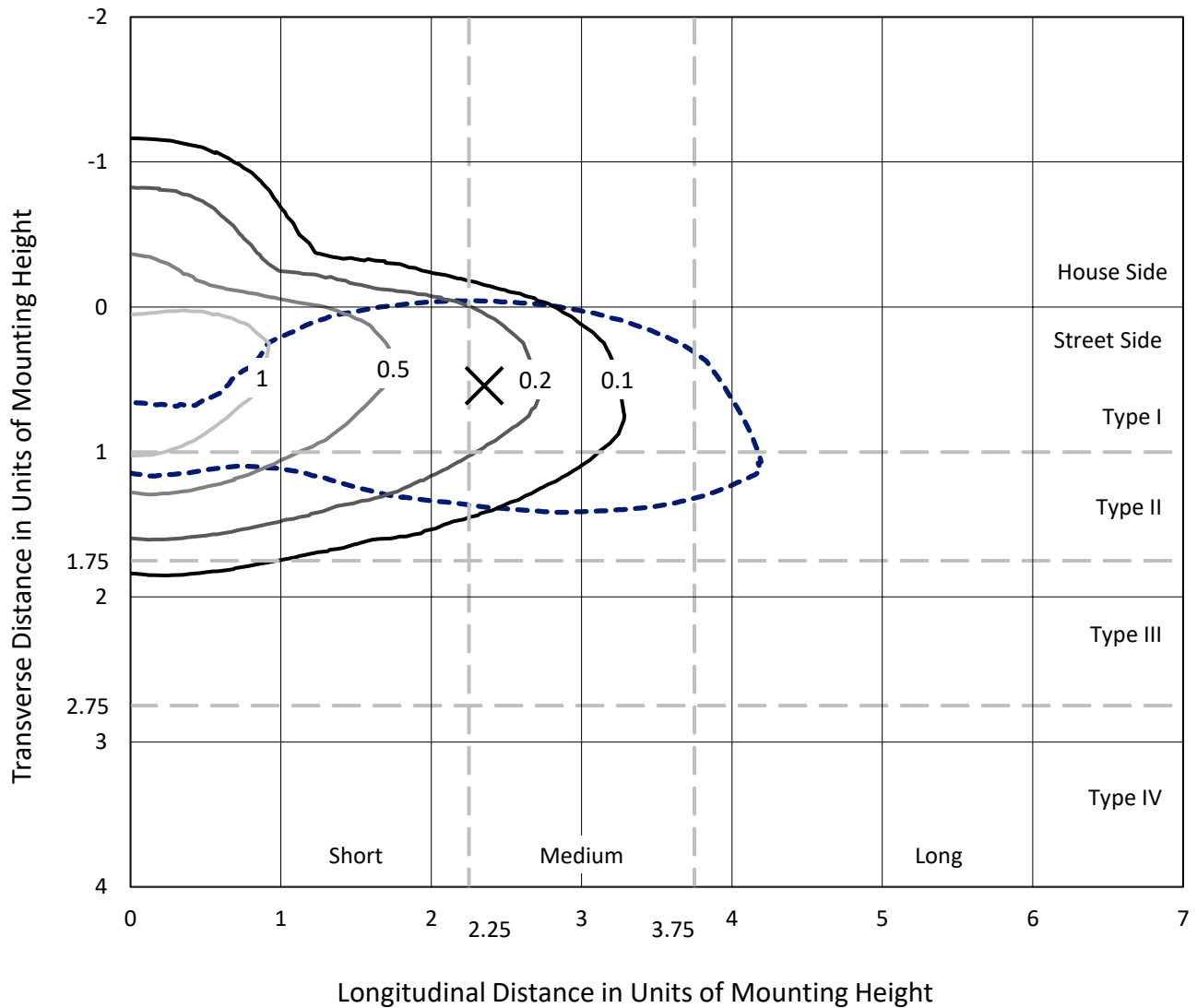
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

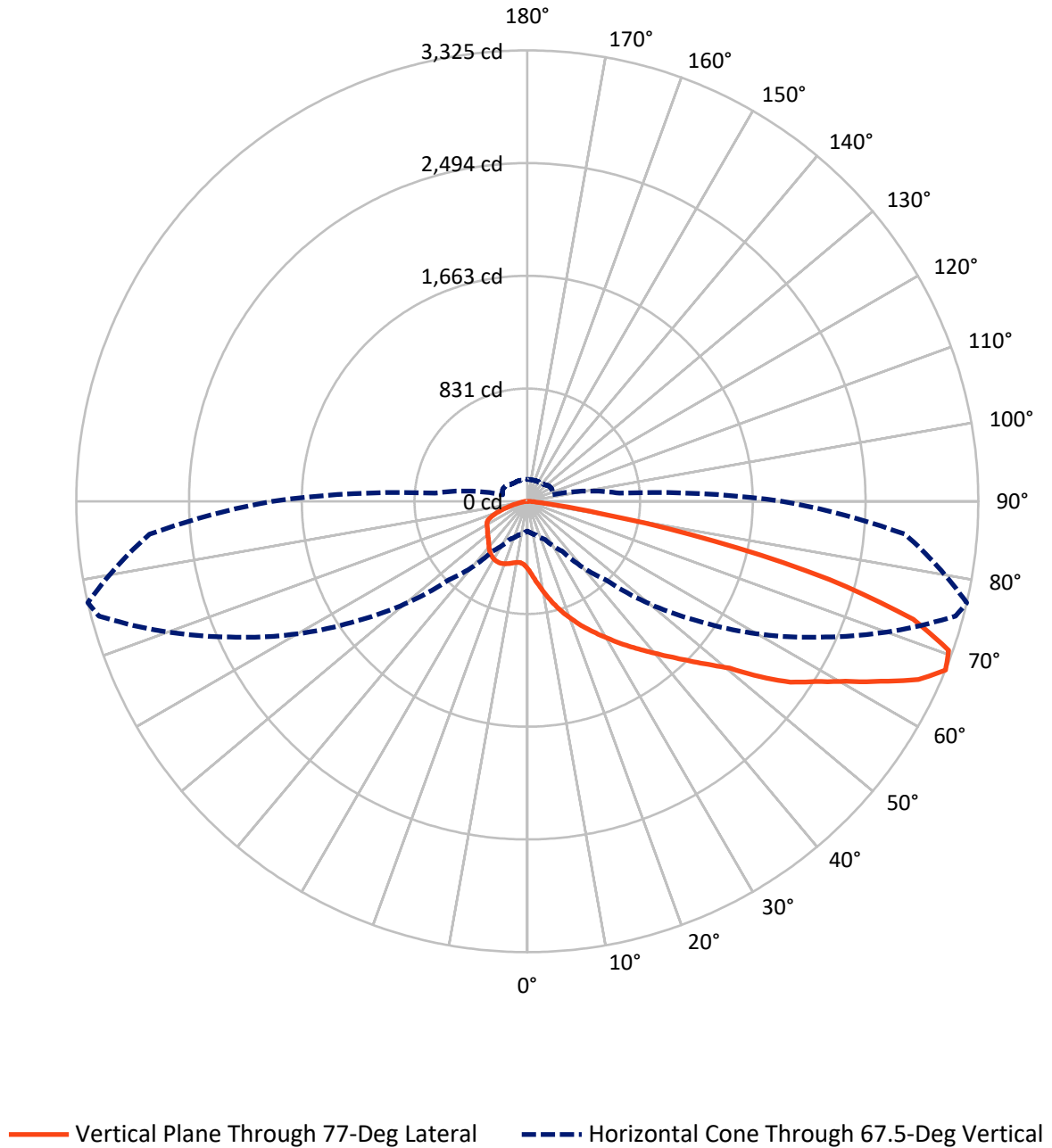
× Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.9	0.0	801.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3437.2	0.0	3437.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	4239.0	0.0	4239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	1.3
10°-20°	191.5	4.5
20°-30°	361.6	8.5
30°-40°	582.6	13.7
40°-50°	796.8	18.8
50°-60°	898.8	21.2
60°-70°	839.0	19.8
70°-80°	459.9	10.8
80°-90°	55.5	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°	4239.0	100.0
0°-180°	4239.0	100.0

Coefficient of Utilization



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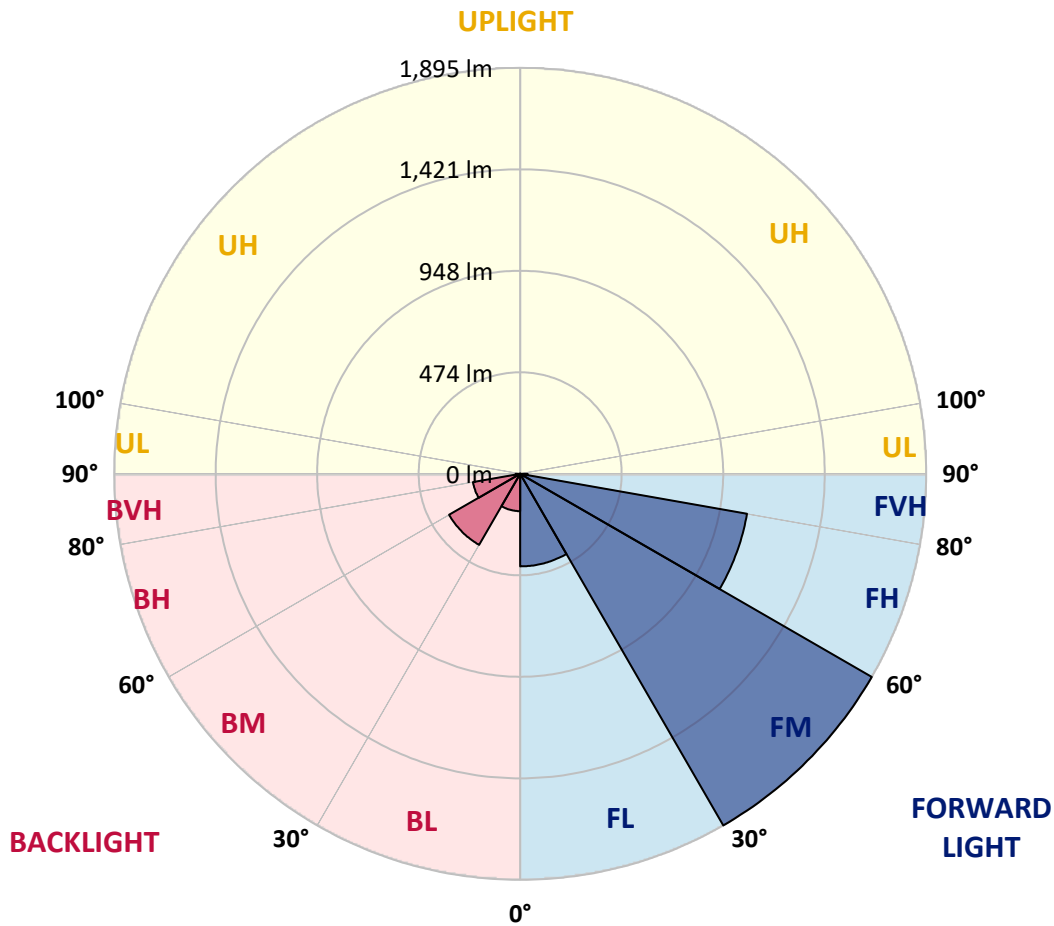
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.1	10.2			
FM (30°-60°)	1895.2	44.7			
FH (60°-80°)	1075.1	25.4			G1/1800
FVH (80°-90°)	34.7	0.8			G1/100
BL (0°-30°)	174.3	4.1	B1/500		
BM (30°-60°)	383.0	9.0	B1/1000		
BH (60°-80°)	223.7	5.3	B1/500		G1/500
BVH (80°-90°)	20.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	622.7	627.1	621.7	621.7	603.3	593.6	575.3	561.3	536.1	531.7
5°	736.1	741.6	733.9	730.6	709.0	689.0	658.2	627.8	582.9	578.3
7.5°	823.8	830.8	824.1	820.6	801.3	779.0	742.9	700.4	637.2	628.2
10°	895.4	896.5	894.3	895.6	880.5	862.1	825.2	775.7	696.7	684.5
12.5°	935.9	940.9	945.3	953.2	950.5	939.2	905.9	846.8	759.7	744.0
15°	954.9	963.7	973.5	991.7	1006.3	1009.2	983.8	923.2	823.8	804.8
17.5°	961.7	970.0	985.5	1011.8	1043.3	1064.5	1053.2	997.4	887.3	865.4
20°	996.0	998.5	1007.9	1032.8	1066.9	1102.2	1110.7	1068.7	950.1	925.4
22.5°	1069.6	1064.8	1067.4	1078.8	1103.3	1137.4	1156.9	1131.7	1014.6	986.2
25°	1191.0	1177.0	1163.0	1149.9	1162.3	1181.6	1203.7	1194.7	1082.3	1046.2
27.5°	1344.4	1327.3	1296.5	1253.4	1238.3	1245.1	1254.9	1253.2	1144.8	1108.3
30°	1495.4	1475.5	1438.7	1376.3	1336.5	1318.6	1311.1	1306.1	1212.9	1173.9
32.5°	1615.9	1600.2	1564.1	1494.3	1436.5	1405.9	1381.2	1363.2	1284.0	1245.1
35°	1721.4	1706.8	1665.4	1589.3	1526.5	1493.8	1461.5	1423.2	1358.0	1318.6
37.5°	1817.7	1803.0	1746.4	1667.2	1603.9	1581.4	1552.5	1487.5	1432.1	1394.9
40°	1878.5	1875.2	1822.3	1732.6	1666.9	1655.8	1646.1	1562.1	1514.4	1479.8
42.5°	1894.1	1901.3	1859.3	1785.5	1722.9	1714.0	1736.5	1646.6	1606.8	1573.7
45°	1856.6	1877.4	1849.9	1799.8	1762.8	1758.0	1816.6	1738.9	1708.9	1678.7
47.5°	1761.9	1797.1	1785.7	1778.7	1773.5	1794.3	1887.1	1837.0	1824.7	1798.4
50°	1570.7	1637.4	1657.3	1701.5	1752.3	1822.5	1951.2	1944.0	1959.9	1933.4
52.5°	1240.0	1331.9	1447.5	1558.2	1687.1	1813.1	2021.6	2097.6	2165.0	2150.5
55°	1023.6	1065.0	1153.8	1356.9	1560.6	1773.5	2053.4	2221.6	2368.5	2355.5
57.5°	857.3	894.3	949.0	1118.6	1369.3	1683.6	2073.1	2297.3	2507.8	2506.5
60°	679.0	718.2	774.2	894.3	1145.9	1528.2	2068.7	2383.6	2685.7	2696.7
62.5°	477.7	520.8	582.9	695.0	917.7	1326.9	1979.4	2445.9	2895.1	2924.9
65°	314.0	342.4	389.3	486.0	683.8	1068.0	1808.9	2454.0	3119.2	3169.5
67.5°	220.1	231.1	258.6	311.2	450.8	819.0	1537.4	2370.2	3268.7	3325.3
70°	171.8	177.2	191.2	212.3	283.1	550.8	1178.1	2152.3	3236.7	3295.8
72.5°	148.4	153.6	158.9	161.5	189.9	340.0	798.0	1799.5	2935.8	2975.9
75°	134.6	135.9	140.3	139.4	144.9	220.6	460.6	1311.1	2316.4	2302.6
77.5°	113.1	114.9	122.1	121.0	128.7	150.8	239.2	846.2	1501.7	1408.1
80°	95.8	96.7	104.6	103.3	111.8	109.2	122.1	431.3	637.0	539.6
82.5°	33.3	41.1	79.9	82.3	85.3	66.1	70.5	175.9	194.5	149.0
85°	16.2	17.3	40.7	57.8	57.5	33.3	34.4	62.8	61.3	48.1
87.5°	2.6	3.3	4.8	22.5	17.9	8.8	11.8	12.3	12.7	10.9
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°
497.4	0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
515.1	2.5°	502.8	491.9	468.9	447.7	431.1	415.1	406.1	398.5	394.1	393.2
539.2	5°	516.4	493.9	452.1	416.8	393.9	376.8	367.8	362.1	359.3	357.5
571.5	7.5°	535.9	502.8	443.3	403.3	379.2	367.0	362.4	361.5	361.3	361.5
610.7	10°	562.8	517.5	442.4	400.0	379.9	373.1	372.9	373.1	374.0	374.2
653.4	12.5°	591.9	532.6	445.9	402.8	388.2	384.5	383.8	383.6	384.2	384.7
696.5	15°	623.6	552.5	451.9	409.0	397.4	393.4	392.8	391.5	391.2	391.0
741.8	17.5°	656.2	572.2	458.4	415.5	403.3	397.8	395.4	392.3	389.9	389.3
788.6	20°	689.3	591.7	463.0	418.8	403.7	396.1	391.2	386.0	381.8	379.4
835.9	22.5°	724.5	612.0	465.9	417.9	399.8	389.3	380.5	374.4	368.0	363.9
883.6	25°	758.9	629.7	465.6	413.3	392.1	378.8	367.6	359.7	351.0	346.6
932.8	27.5°	791.9	645.7	460.2	405.2	381.2	366.3	352.9	343.5	335.0	330.8
982.5	30°	826.0	659.1	451.6	393.4	368.3	351.9	337.2	329.1	321.4	317.5
1035.0	32.5°	859.9	671.3	439.6	378.8	353.4	337.6	323.2	315.7	311.2	311.2
1091.4	35°	895.8	679.9	423.6	361.7	337.6	322.5	311.2	306.8	306.3	303.7
1151.2	37.5°	933.7	685.3	404.2	344.2	322.1	307.9	304.4	299.1	294.7	289.1
1216.8	40°	973.5	690.8	380.7	326.0	305.7	297.8	296.3	289.3	276.8	262.8
1291.2	42.5°	1021.9	694.5	356.4	307.9	288.4	285.8	288.0	275.9	256.0	245.5
1380.9	45°	1077.9	700.6	334.1	289.9	270.7	270.7	279.9	264.1	247.7	241.1
1483.3	47.5°	1150.5	714.9	313.3	270.2	254.3	258.6	261.9	249.9	240.7	232.6
1608.1	50°	1255.6	749.0	291.9	250.3	241.8	250.5	245.9	238.9	228.2	221.7
1806.3	52.5°	1386.0	769.1	272.9	232.4	231.1	239.8	233.3	226.7	218.6	209.8
1956.6	55°	1474.8	772.9	256.9	219.3	223.8	223.0	220.6	214.7	210.3	198.7
2105.0	57.5°	1574.2	780.3	243.8	211.4	219.3	209.6	208.7	203.7	198.0	190.2
2286.0	60°	1693.0	791.9	232.4	208.3	215.3	200.9	196.5	194.5	188.8	184.9
2503.7	62.5°	1822.5	802.4	220.8	208.7	210.7	192.3	185.8	185.1	181.6	180.3
2708.1	65°	1910.9	773.7	206.3	208.3	203.5	183.6	175.3	175.1	172.2	171.8
2796.7	67.5°	1880.1	682.9	186.9	202.2	196.1	174.8	165.6	164.8	161.0	161.3
2704.1	70°	1725.6	553.4	160.0	187.1	186.9	167.0	155.6	152.7	147.7	148.6
2351.2	72.5°	1435.9	410.1	123.8	161.9	172.2	159.7	144.0	139.4	133.0	133.9
1735.6	75°	1037.0	278.8	90.2	123.2	149.9	151.2	132.6	124.7	117.1	118.4
966.1	77.5°	530.6	158.0	66.3	84.9	117.7	137.4	122.3	111.8	110.1	122.3
278.6	80°	173.1	79.2	46.0	59.5	77.2	112.5	107.2	95.2	94.7	97.6
58.4	82.5°	51.6	33.5	29.5	39.2	42.7	86.2	92.6	72.0	61.9	65.2
19.5	85°	17.7	16.2	16.8	19.5	20.3	50.5	64.8	47.7	45.1	49.7
4.4	87.5°	4.2	5.7	4.8	4.4	4.4	12.3	25.2	19.9	27.6	18.4
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>
497.4
393.2
357.3
362.1
374.4
384.9
390.8
389.9
380.3
364.1
346.6
330.6
317.3
311.4
303.1
288.2
260.8
245.7
242.2
232.4
221.0
208.1
198.9
187.5
186.0
180.3
171.6
161.3
149.5
133.7
118.8
120.6
83.8
67.4
49.0
17.7
0.0

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