

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: P944907

Luminaire Tested: **GALN-SB1A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944907
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570 lumens
Efficiency: N/A
Efficacy: 147.9 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

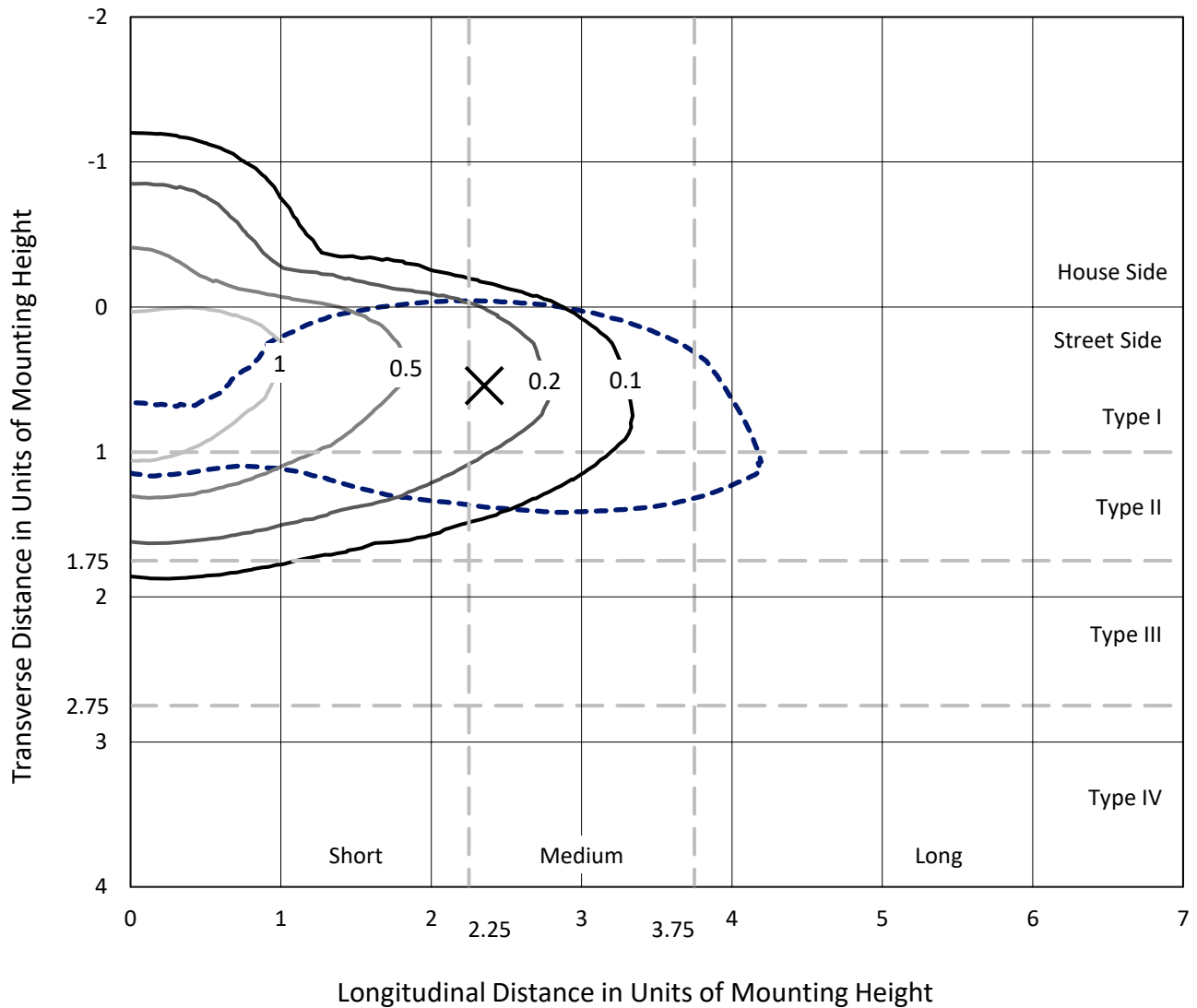
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

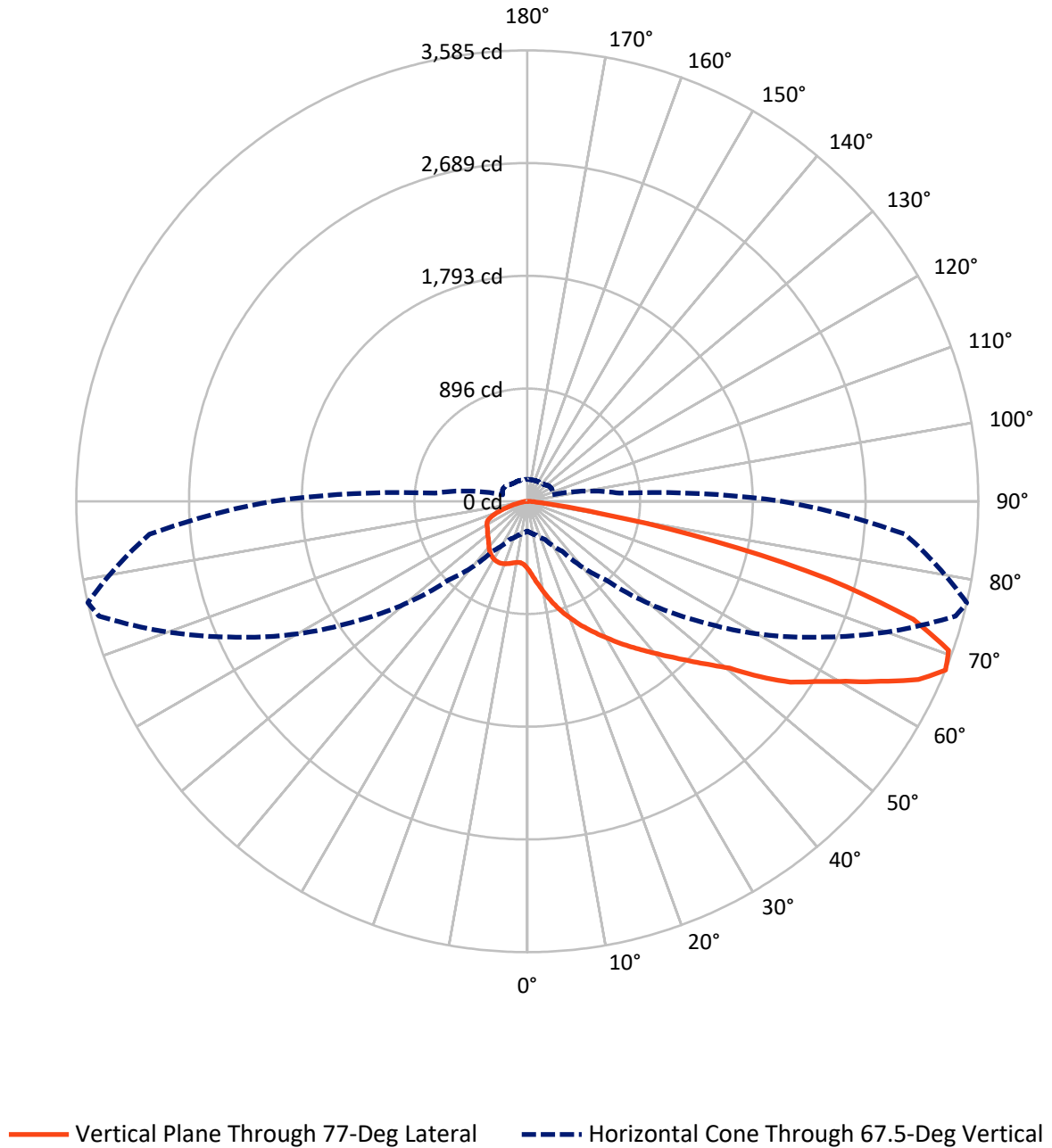
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	864.5	0.0	864.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3705.5	0.0	3705.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	4570.0	0.0	4570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.3
10°-20°	206.5	4.5
20°-30°	389.9	8.5
30°-40°	628.0	13.7
40°-50°	859.1	18.8
50°-60°	969.0	21.2
60°-70°	904.5	19.8
70°-80°	495.8	10.8
80°-90°	59.8	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°	4570.0	100.0
0°-180°	4570.0	100.0

Coefficient of Utilization



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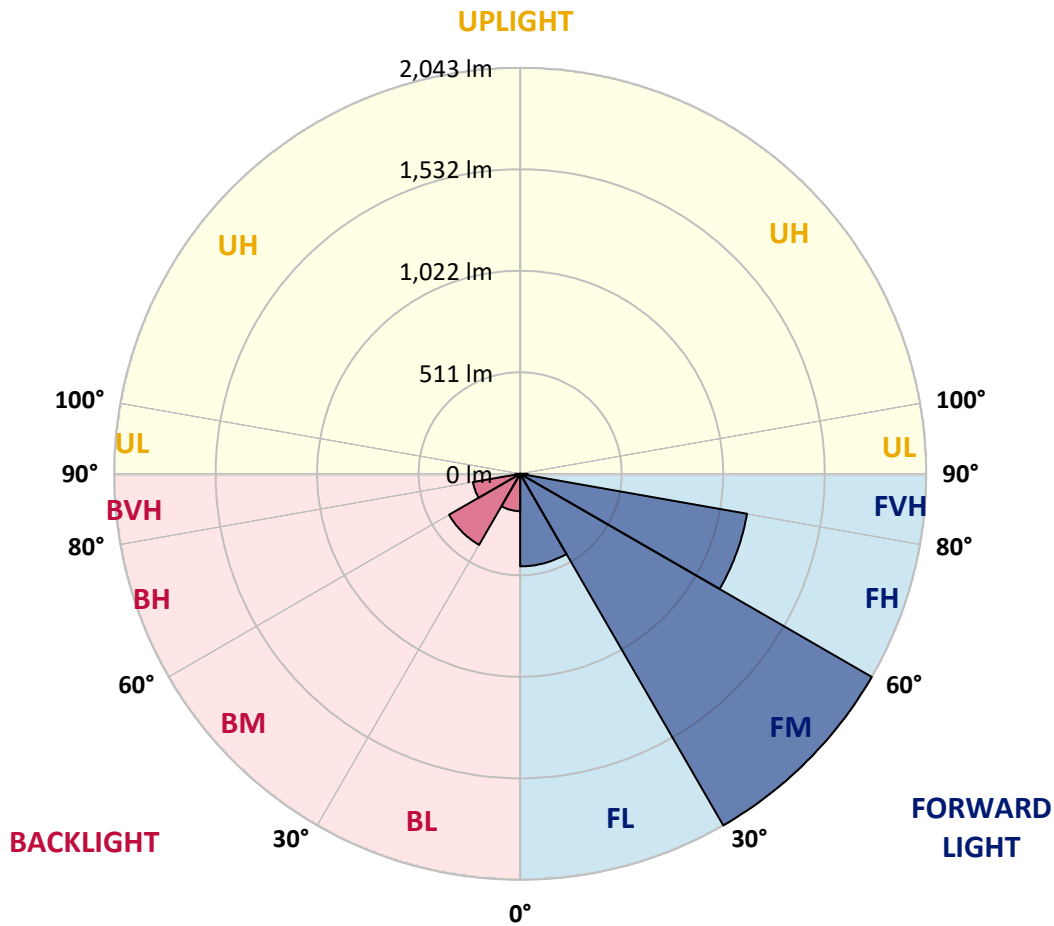
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.9	10.2			
FM (30°-60°)	2043.2	44.7			
FH (60°-80°)	1159.1	25.4			G1/1800
FVH (80°-90°)	37.4	0.8			G1/100
BL (0°-30°)	188.0	4.1	B1/500		
BM (30°-60°)	412.9	9.0	B1/1000		
BH (60°-80°)	241.2	5.3	B1/500		G1/500
BVH (80°-90°)	22.4	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°	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2
2.5°	671.4	676.1	670.2	670.2	650.4	640.0	620.2	605.1	578.0	573.2
5°	793.6	799.5	791.2	787.7	764.3	742.9	709.6	676.8	628.4	623.5
7.5°	888.2	895.7	888.4	884.6	863.9	839.8	800.9	755.1	686.9	677.3
10°	965.3	966.5	964.1	965.5	949.3	929.4	889.6	836.3	751.1	737.9
12.5°	1008.9	1014.4	1019.1	1027.6	1024.8	1012.5	976.6	912.9	819.0	802.1
15°	1029.5	1038.9	1049.5	1069.1	1084.9	1088.0	1060.6	995.3	888.2	867.6
17.5°	1036.8	1045.7	1062.5	1090.8	1124.8	1147.7	1135.4	1075.2	956.6	933.0
20°	1073.8	1076.4	1086.6	1113.5	1150.3	1188.2	1197.4	1152.1	1024.3	997.6
22.5°	1153.1	1147.9	1150.7	1163.0	1189.4	1226.2	1247.2	1220.1	1093.9	1063.2
25°	1284.0	1268.9	1253.8	1239.7	1253.1	1273.9	1297.7	1288.0	1166.8	1127.8
27.5°	1449.4	1431.0	1397.7	1351.2	1335.0	1342.3	1352.9	1351.0	1234.2	1194.8
30°	1612.1	1590.7	1551.0	1483.8	1440.9	1421.5	1413.5	1408.1	1307.6	1265.6
32.5°	1742.1	1725.1	1686.2	1611.0	1548.7	1515.7	1489.0	1469.7	1384.3	1342.3
35°	1855.8	1840.0	1795.4	1713.3	1645.6	1610.5	1575.6	1534.3	1464.0	1421.5
37.5°	1959.6	1943.8	1882.7	1797.3	1729.2	1704.9	1673.7	1603.7	1544.0	1503.9
40°	2025.2	2021.7	1964.6	1867.9	1797.1	1785.1	1774.7	1684.1	1632.7	1595.4
42.5°	2042.0	2049.7	2004.5	1925.0	1857.5	1847.8	1872.1	1775.2	1732.2	1696.6
45°	2001.6	2024.0	1994.3	1940.3	1900.4	1895.2	1958.5	1874.7	1842.4	1809.8
47.5°	1899.5	1937.5	1925.2	1917.6	1912.0	1934.4	2034.4	1980.4	1967.2	1938.9
50°	1693.3	1765.2	1786.7	1834.4	1889.1	1964.8	2103.5	2095.7	2113.0	2084.4
52.5°	1336.9	1435.9	1560.5	1679.9	1818.8	1954.7	2179.5	2261.3	2334.0	2318.4
55°	1103.5	1148.1	1243.9	1462.8	1682.4	1912.0	2213.7	2395.1	2553.4	2539.5
57.5°	924.3	964.1	1023.1	1205.9	1476.3	1815.0	2234.9	2476.7	2703.7	2702.2
60°	732.0	774.2	834.6	964.1	1235.4	1647.5	2230.2	2569.7	2895.4	2907.2
62.5°	515.0	561.4	628.4	749.2	989.4	1430.5	2134.0	2636.9	3121.2	3153.3
65°	338.5	369.2	419.7	523.9	737.2	1151.4	1950.2	2645.6	3362.8	3417.0
67.5°	237.3	249.1	278.8	335.5	486.0	883.0	1657.4	2555.3	3523.9	3585.0
70°	185.2	191.1	206.2	228.8	305.3	593.8	1270.1	2320.3	3489.4	3553.1
72.5°	159.9	165.6	171.3	174.1	204.8	366.6	860.3	1940.0	3165.1	3208.3
75°	145.1	146.5	151.2	150.3	156.2	237.8	496.6	1413.5	2497.2	2482.4
77.5°	122.0	123.8	131.6	130.5	138.7	162.5	257.8	912.2	1619.0	1518.0
80°	103.3	104.3	112.8	111.3	120.5	117.7	131.6	465.0	686.7	581.7
82.5°	35.9	44.3	86.1	88.7	92.0	71.2	76.0	189.7	209.7	160.6
85°	17.5	18.6	43.9	62.3	62.0	35.9	37.0	67.7	66.1	51.9
87.5°	2.8	3.5	5.2	24.3	19.3	9.4	12.7	13.2	13.7	11.8
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°
536.2	0°	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2
555.3	2.5°	542.1	530.3	505.5	482.7	464.7	447.5	437.8	429.6	424.9	423.9
581.3	5°	556.7	532.4	487.4	449.4	424.6	406.2	396.5	390.4	387.3	385.5
616.2	7.5°	577.7	542.1	477.9	434.8	408.8	395.6	390.7	389.7	389.5	389.7
658.4	10°	606.7	557.9	477.0	431.2	409.5	402.2	402.0	402.2	403.2	403.4
704.4	12.5°	638.1	574.2	480.8	434.3	418.5	414.5	413.8	413.5	414.2	414.7
750.9	15°	672.3	595.7	487.1	440.9	428.4	424.2	423.4	422.0	421.8	421.6
799.7	17.5°	707.5	616.9	494.2	448.0	434.8	428.9	426.3	423.0	420.4	419.7
850.2	20°	743.1	637.9	499.2	451.5	435.2	427.0	421.8	416.1	411.6	409.1
901.1	22.5°	781.1	659.8	502.2	450.6	431.0	419.7	410.2	403.6	396.8	392.3
952.6	25°	818.1	678.9	502.0	445.6	422.7	408.3	396.3	387.8	378.4	373.7
1005.6	27.5°	853.7	696.1	496.1	436.9	410.9	394.9	380.5	370.4	361.2	356.7
1059.2	30°	890.5	710.5	486.9	424.2	397.0	379.3	363.5	354.8	346.5	342.3
1115.8	32.5°	927.1	723.7	473.9	408.3	381.0	364.0	348.4	340.4	335.5	335.5
1176.7	35°	965.8	732.9	456.7	389.9	364.0	347.7	335.5	330.7	330.3	327.4
1241.1	37.5°	1006.6	738.8	435.7	371.1	347.2	331.9	328.1	322.5	317.8	311.6
1311.8	40°	1049.5	744.7	410.5	351.5	329.6	321.1	319.4	311.9	298.4	283.3
1392.1	42.5°	1101.7	748.7	384.3	331.9	310.9	308.1	310.4	297.5	276.0	264.7
1488.8	45°	1162.0	755.4	360.2	312.6	291.8	291.8	301.7	284.7	267.0	260.0
1599.2	47.5°	1240.4	770.7	337.8	291.3	274.1	278.8	282.4	269.4	259.5	250.8
1733.6	50°	1353.6	807.5	314.7	269.9	260.7	270.1	265.2	257.6	246.0	239.0
1947.4	52.5°	1494.2	829.2	294.2	250.5	249.1	258.5	251.5	244.4	235.7	226.2
2109.4	55°	1590.0	833.2	276.9	236.4	241.3	240.4	237.8	231.4	226.7	214.2
2269.4	57.5°	1697.1	841.2	262.8	227.9	236.4	226.0	225.0	219.6	213.5	205.0
2464.5	60°	1825.2	853.7	250.5	224.6	232.1	216.6	211.8	209.7	203.6	199.3
2699.2	62.5°	1964.8	865.0	238.0	225.0	227.2	207.4	200.3	199.6	195.8	194.4
2919.5	65°	2060.1	834.1	222.5	224.6	219.4	197.9	189.0	188.7	185.7	185.2
3015.1	67.5°	2026.9	736.2	201.5	218.0	211.4	188.5	178.6	177.6	173.6	173.9
2915.3	70°	1860.3	596.6	172.4	201.7	201.5	180.0	167.7	164.7	159.2	160.2
2534.8	72.5°	1548.0	442.1	133.5	174.6	185.7	172.2	155.2	150.3	143.4	144.4
1871.2	75°	1117.9	300.5	97.2	132.8	161.6	163.0	143.0	134.5	126.2	127.6
1041.5	77.5°	572.1	170.3	71.5	91.5	126.9	148.1	131.9	120.5	118.7	131.9
300.3	80°	186.6	85.4	49.5	64.2	83.3	121.3	115.6	102.6	102.1	105.2
63.0	82.5°	55.7	36.1	31.8	42.2	46.0	92.9	99.8	77.6	66.8	70.3
21.0	85°	19.1	17.5	18.2	21.0	21.9	54.5	69.8	51.4	48.6	53.5
4.7	87.5°	4.5	6.1	5.2	4.7	4.7	13.2	27.1	21.5	29.7	19.8
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>
536.2
423.9
385.2
390.4
403.6
414.9
421.3
420.4
410.0
392.5
373.7
356.4
342.1
335.7
326.7
310.7
281.2
264.9
261.1
250.5
238.3
224.3
214.4
202.2
200.5
194.4
184.9
173.9
161.1
144.1
128.1
130.0
90.4
72.7
52.8
19.1
0.0

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