

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: P938744

Luminaire Tested: **GALN-SB1A-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3277 lumens
Efficiency: N/A
Efficacy: 106.1 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

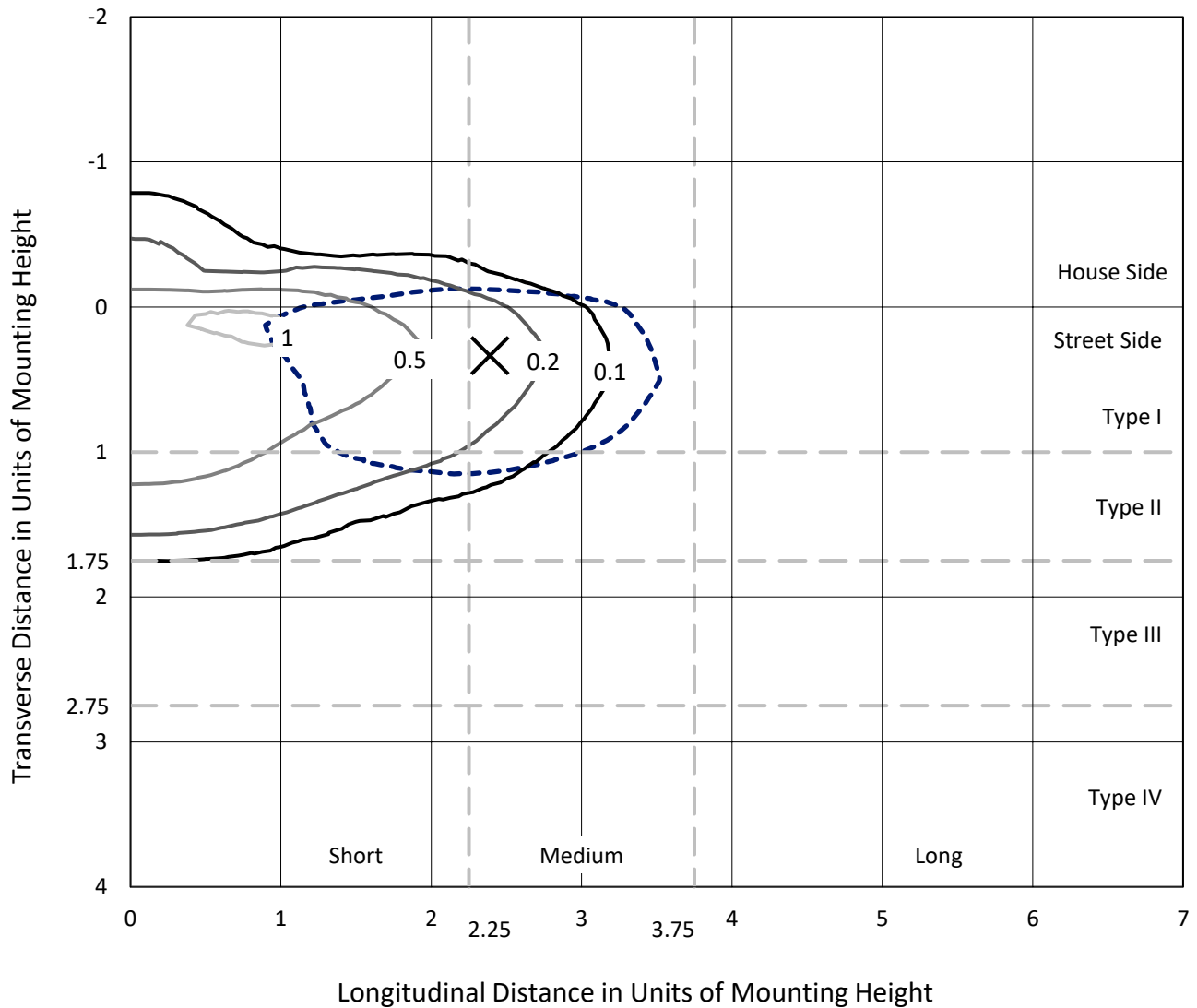
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

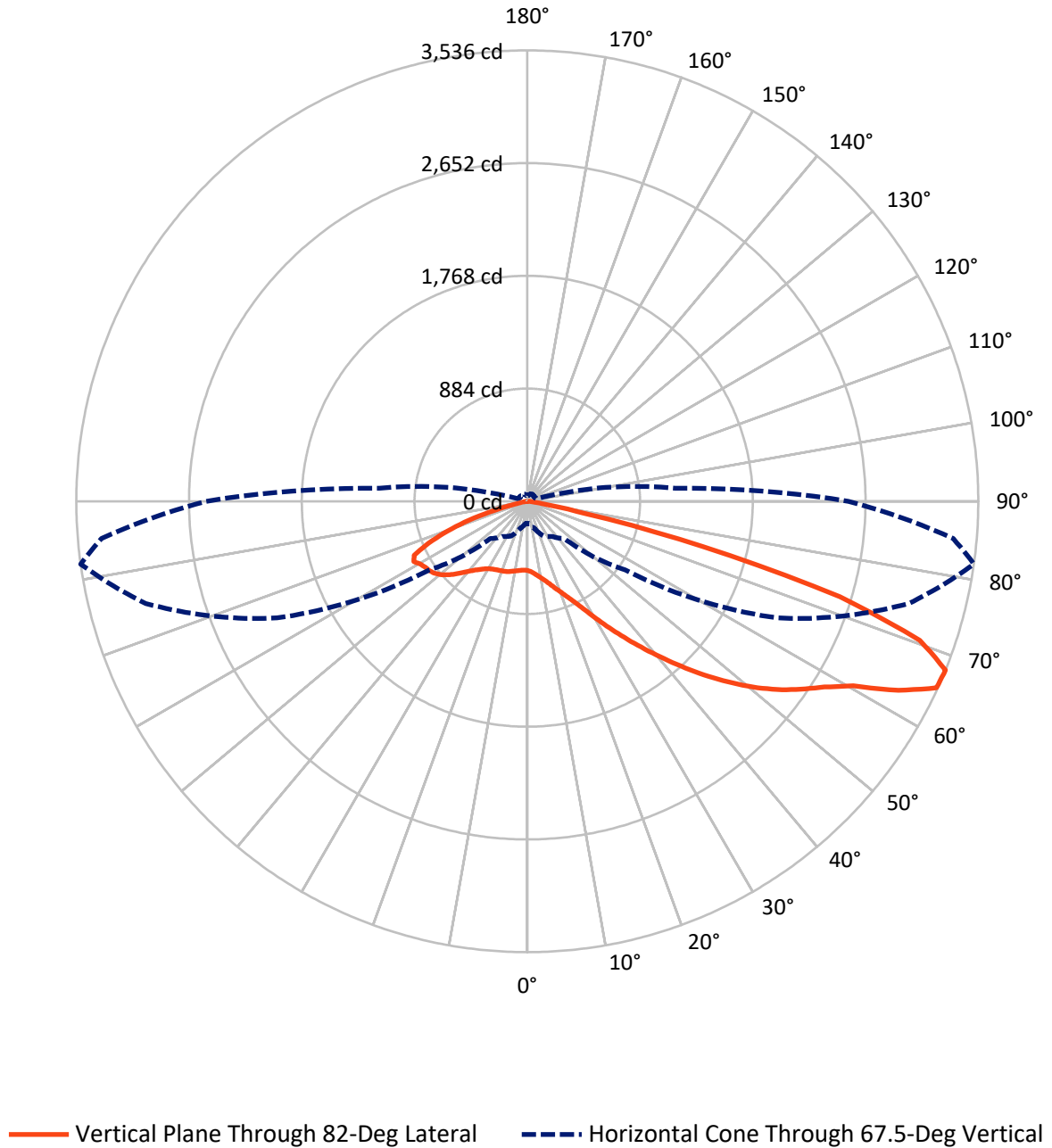
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	593.6	0.0	593.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2683.4	0.0	2683.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	3277.0	0.0	3277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.5
10°-20°	125.7	3.8
20°-30°	201.3	6.1
30°-40°	356.0	10.9
40°-50°	623.7	19.0
50°-60°	831.8	25.4
60°-70°	774.4	23.6
70°-80°	297.2	9.1
80°-90°	18.5	0.6
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°	3277.0	100.0
0°-180°	3277.0	100.0

Coefficient of Utilization



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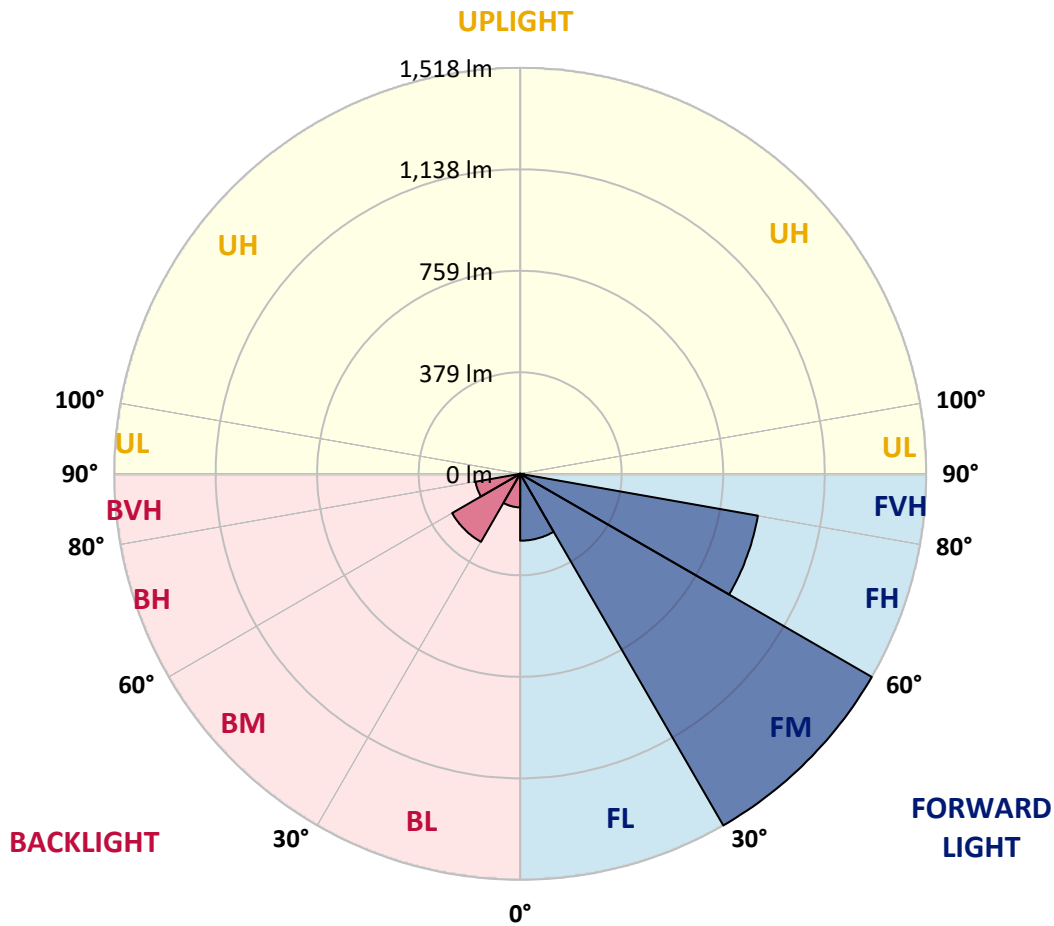
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.0	7.6			
FM (30°-60°)	1517.8	46.3			
FH (60°-80°)	902.2	27.5			G1/1800
FVH (80°-90°)	13.4	0.4			G1/100
BL (0°-30°)	125.4	3.8	B1/500		
BM (30°-60°)	293.8	9.0	B1/1000		
BH (60°-80°)	169.4	5.2	B1/500		G1/500
BVH (80°-90°)	5.0	0.2			G0/10
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°	82°
0°	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9
2.5°	573.8	577.1	575.2	574.3	572.6	570.3	568.4	562.5	556.3	552.3
5°	585.4	588.7	588.4	589.4	590.5	591.3	590.8	584.2	575.4	568.6
7.5°	575.4	579.2	582.3	587.0	595.3	604.0	608.2	606.8	597.9	588.4
10°	547.4	551.4	558.7	569.8	587.2	606.1	621.9	629.2	623.6	613.2
12.5°	495.9	499.9	514.3	538.4	567.7	600.5	630.7	650.2	651.7	641.3
15°	438.1	442.1	457.5	487.7	532.3	584.9	635.4	672.4	684.9	676.0
17.5°	402.3	405.8	417.4	441.7	488.2	553.7	633.7	696.0	724.6	717.5
20°	391.4	394.5	399.9	416.9	455.6	521.4	622.9	718.2	767.3	763.3
22.5°	403.0	405.8	407.5	415.0	439.3	500.2	609.2	740.8	816.8	817.3
25°	429.6	432.5	430.6	435.3	445.9	493.6	604.0	767.5	879.1	884.3
27.5°	473.5	473.8	469.3	469.0	470.7	503.5	609.4	796.0	957.7	967.3
30°	561.5	558.0	540.8	522.1	513.6	533.2	624.5	829.8	1050.4	1067.6
32.5°	697.2	692.0	660.4	615.8	571.0	581.1	651.7	868.2	1151.4	1182.5
35°	844.4	843.0	810.0	743.7	665.3	649.3	695.8	918.7	1261.5	1311.1
37.5°	981.3	980.5	961.7	883.6	788.3	744.4	766.6	984.8	1379.5	1451.2
40°	1106.3	1108.4	1089.6	1019.7	923.7	866.4	862.8	1066.4	1510.7	1603.9
42.5°	1214.4	1216.7	1197.6	1145.9	1057.5	1001.3	981.0	1166.5	1638.8	1767.9
45°	1287.7	1302.4	1299.5	1258.2	1194.8	1136.5	1123.1	1292.0	1784.9	1941.8
47.5°	1308.5	1321.9	1343.2	1348.8	1310.2	1252.8	1268.9	1443.2	1932.5	2115.9
50°	1257.3	1269.8	1313.9	1372.7	1399.6	1381.9	1410.7	1605.3	2083.8	2289.5
52.5°	1156.3	1169.1	1224.7	1317.7	1427.4	1483.1	1552.9	1765.0	2230.3	2454.0
55°	1010.3	1023.7	1095.2	1200.4	1374.3	1524.9	1671.6	1924.5	2364.5	2601.9
57.5°	811.6	821.5	895.8	1043.1	1240.8	1483.3	1759.1	2098.6	2491.0	2747.2
60°	529.0	537.7	624.0	788.3	1019.5	1344.6	1776.6	2292.8	2659.0	2936.2
62.5°	351.8	357.7	408.9	529.4	718.0	1078.2	1674.4	2447.8	2905.3	3265.1
65°	241.4	247.3	298.5	382.5	463.8	713.2	1380.7	2427.3	3128.5	3526.3
67.5°	172.2	177.2	220.6	299.9	335.7	414.3	936.0	2164.9	3096.4	3536.2
70°	123.4	126.2	162.1	233.6	266.8	248.9	520.5	1655.8	2711.1	3265.3
72.5°	86.4	87.3	112.5	177.9	214.9	181.7	247.7	1103.9	2050.5	2563.0
75°	58.5	59.7	75.7	130.5	172.5	138.7	131.2	592.0	1203.7	1418.7
77.5°	35.9	36.3	48.8	89.2	129.1	105.7	84.5	250.8	465.7	457.2
80°	20.3	20.3	31.1	55.4	88.0	68.2	59.2	106.6	147.5	129.5
82.5°	11.3	11.6	22.6	34.4	58.3	40.3	32.6	49.3	63.7	56.4
85°	4.7	5.2	13.9	16.3	27.8	20.1	13.2	20.8	23.6	21.0
87.5°	0.5	0.7	4.2	3.1	3.3	4.0	1.9	4.0	3.3	3.3
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°
542.9	0°	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9	542.9
550.9	2.5°	546.4	542.9	533.9	523.5	509.9	503.3	494.3	488.2	483.0	483.4
564.6	5°	557.0	548.1	528.0	503.0	471.9	449.7	426.1	409.8	396.6	393.8
583.5	7.5°	571.7	557.5	522.4	477.3	424.7	384.8	349.2	326.3	310.0	304.8
606.4	10°	590.5	570.0	515.0	445.0	369.2	318.5	280.3	262.4	251.3	247.5
633.3	12.5°	612.5	584.4	505.4	405.6	312.1	263.3	239.0	230.0	226.5	225.3
666.3	15°	640.1	602.3	490.7	358.9	263.8	229.6	219.2	218.0	218.5	218.0
705.9	17.5°	672.9	621.9	466.9	310.7	231.2	212.3	208.6	209.5	210.7	210.5
750.3	20°	708.8	641.3	436.5	268.0	209.0	200.1	198.0	198.9	199.8	199.4
801.5	22.5°	749.6	662.0	402.7	234.8	194.2	188.7	186.4	186.6	186.6	185.7
866.4	25°	798.4	684.9	367.4	211.2	182.9	178.6	175.8	174.8	173.4	170.6
945.2	27.5°	856.7	709.2	333.4	194.6	173.9	169.9	166.6	164.2	160.7	156.0
1039.8	30°	922.3	738.7	304.6	184.3	166.8	162.8	159.0	155.5	150.3	144.4
1148.5	32.5°	999.4	770.3	283.6	177.4	160.4	156.2	151.7	147.5	141.8	135.9
1270.7	35°	1091.4	808.6	271.3	172.7	155.5	149.8	144.9	140.1	135.9	130.7
1403.6	37.5°	1191.2	849.1	267.6	170.3	152.2	143.4	137.8	134.5	134.0	130.9
1547.3	40°	1300.5	897.3	270.4	168.9	148.6	137.3	131.2	130.5	131.7	126.2
1700.9	42.5°	1416.1	954.4	275.1	167.3	143.7	131.2	125.3	125.3	124.3	116.8
1863.2	45°	1541.1	1020.2	279.8	163.3	137.8	125.0	120.6	118.9	114.9	107.6
2026.5	47.5°	1667.1	1087.2	283.4	156.0	130.7	119.9	115.8	112.1	106.2	99.6
2186.7	50°	1786.7	1147.4	279.6	145.1	122.7	114.9	110.7	105.5	99.1	94.6
2338.4	52.5°	1893.6	1199.5	263.5	132.4	114.2	109.7	105.9	100.5	95.3	90.6
2475.2	55°	1986.6	1241.7	235.2	120.3	106.6	105.2	101.5	94.6	87.5	83.5
2610.9	57.5°	2075.8	1273.8	199.8	110.4	99.8	100.3	94.6	88.5	81.9	77.6
2793.7	60°	2194.4	1316.8	164.0	101.2	92.5	93.9	87.8	83.3	75.0	69.6
3107.3	62.5°	2384.1	1383.5	130.2	89.9	84.0	84.5	81.9	76.4	66.5	60.2
3339.7	65°	2534.7	1359.0	102.6	77.6	74.3	75.0	75.0	69.1	58.5	51.2
3352.2	67.5°	2517.7	1163.6	81.9	65.6	65.1	65.6	67.2	62.3	51.9	46.0
3096.9	70°	2319.2	925.6	65.6	54.5	56.6	55.4	60.2	56.9	46.7	40.8
2400.9	72.5°	1892.4	666.8	50.0	45.1	43.4	45.3	54.3	51.2	38.9	32.3
1271.7	75°	1105.8	355.8	37.3	35.6	31.4	37.7	48.1	43.6	29.7	23.8
389.8	77.5°	360.0	124.1	27.4	26.2	23.4	30.4	41.1	36.8	24.3	18.9
114.2	80°	96.5	37.5	18.6	17.2	15.1	22.6	32.6	29.3	17.5	12.3
49.1	82.5°	38.7	15.8	10.9	9.7	8.3	15.6	25.7	23.6	13.0	7.8
15.3	85°	12.5	5.2	4.0	3.1	3.8	9.7	15.3	16.0	9.2	4.0
2.4	87.5°	1.7	0.7	0.7	0.9	0.7	1.7	4.7	4.5	2.6	0.5
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>
542.9
478.7
387.4
299.6
244.7
224.6
217.8
210.0
199.1
185.2
170.1
155.5
143.9
136.1
130.2
130.7
126.5
116.8
107.4
99.3
93.9
90.1
83.0
77.2
68.9
59.7
50.5
45.1
40.1
31.6
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