

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: P940836

Luminaire Tested: **GALN-SB4A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12669 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

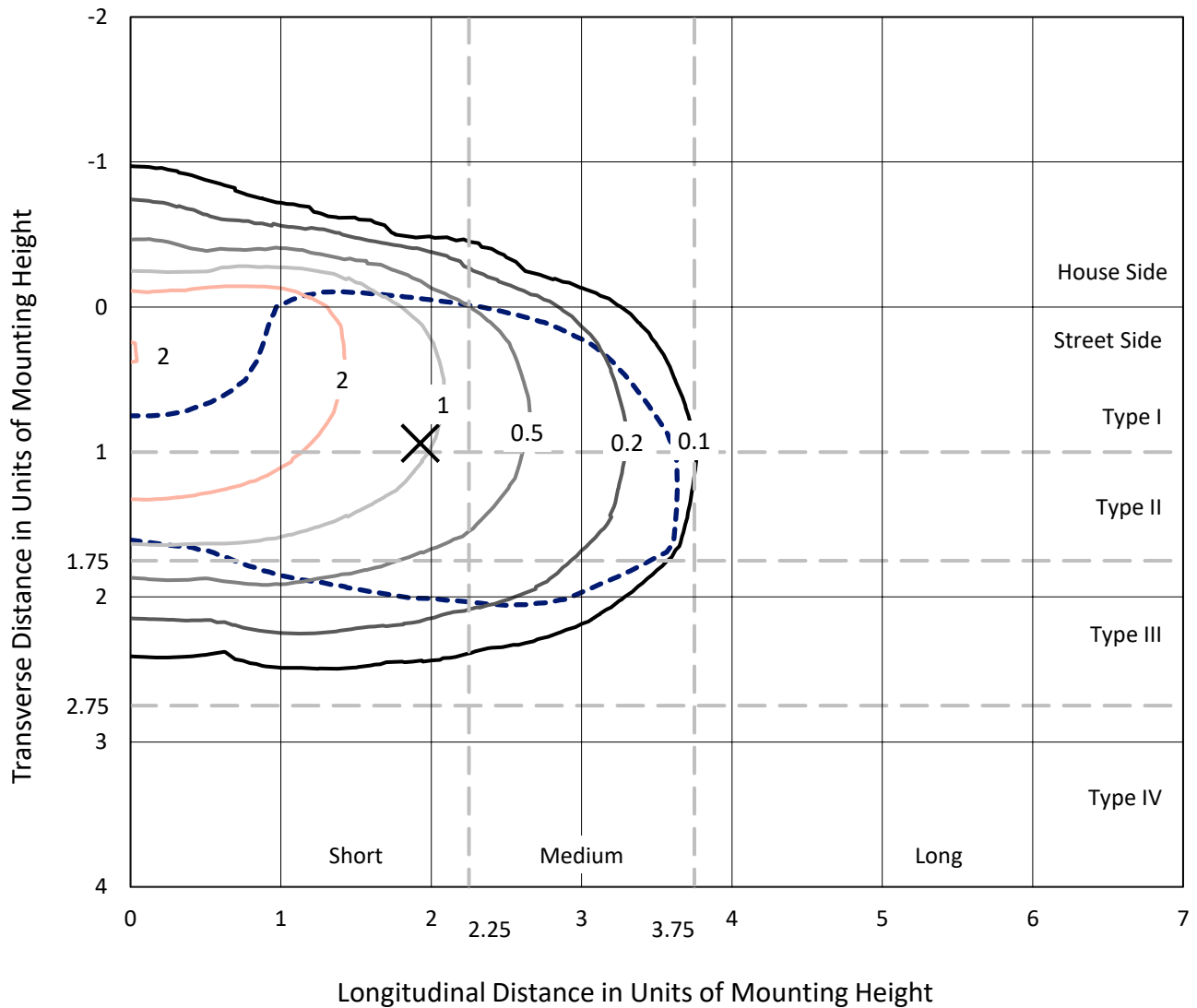
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

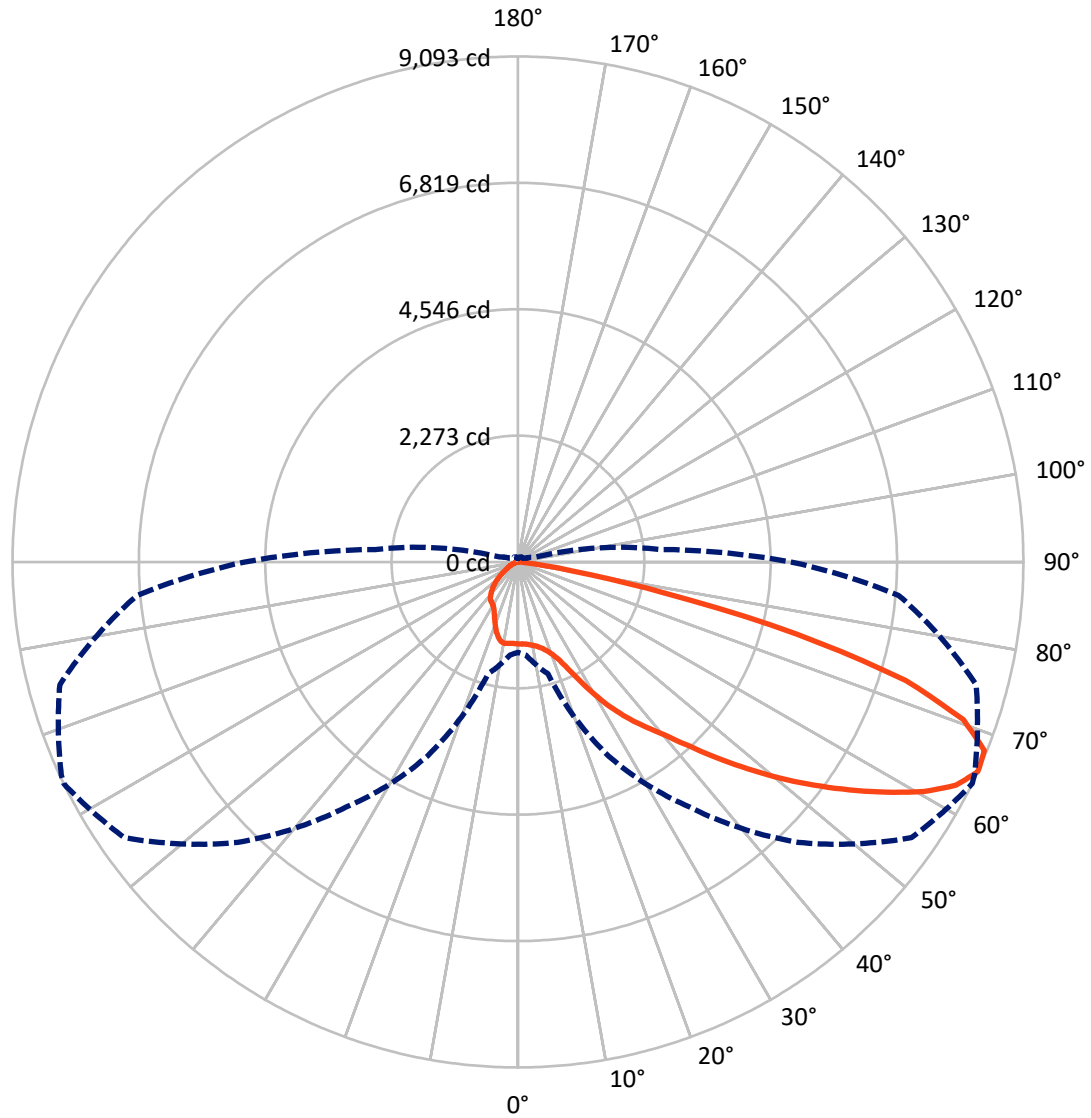
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.2	0.0	1694.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10974.8	0.0	10974.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	12669.0	0.0	12669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.1
10°-20°	368.7	2.9
20°-30°	698.7	5.5
30°-40°	1413.9	11.2
40°-50°	2408.5	19.0
50°-60°	3275.4	25.9
60°-70°	3075.8	24.3
70°-80°	1232.3	9.7
80°-90°	59.7	0.5
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°	12669.0	100.0
0°-180°	12669.0	100.0

Coefficient of Utilization



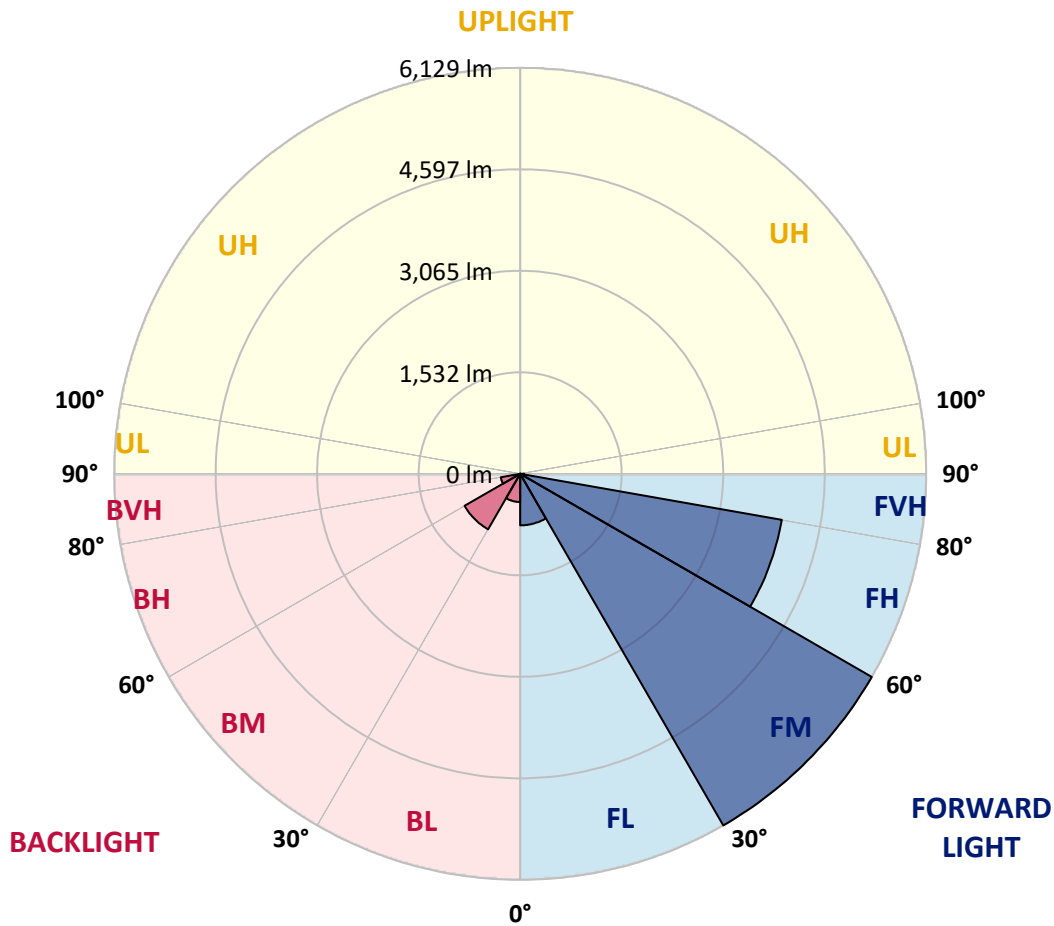
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.0	6.1			
FM (30°-60°)	6129.2	48.4			
FH (60°-80°)	4010.7	31.7			G2/5000
FVH (80°-90°)	56.8	0.4			G1/100
BL (0°-30°)	425.4	3.4	B1/500		
BM (30°-60°)	968.6	7.6	B1/1000		
BH (60°-80°)	297.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1468.4	1478.6	1476.1	1473.5	1472.7	1474.4	1475.2	1474.4	1474.4	1474.4
5°	1440.4	1448.9	1448.9	1454.9	1463.3	1473.5	1481.2	1482.9	1484.6	1487.1
7.5°	1386.9	1393.7	1398.8	1418.3	1439.6	1466.7	1489.7	1501.6	1503.3	1512.6
10°	1350.4	1358.9	1367.4	1387.8	1418.3	1459.1	1498.2	1527.0	1531.3	1553.4
12.5°	1348.7	1357.2	1368.2	1390.3	1426.0	1469.3	1516.9	1558.5	1566.1	1598.4
15°	1366.5	1376.7	1386.9	1414.1	1452.3	1505.0	1555.9	1607.7	1615.4	1661.2
17.5°	1403.0	1416.6	1424.3	1451.5	1492.2	1550.8	1617.9	1677.4	1684.2	1737.7
20°	1475.2	1491.4	1493.9	1516.0	1555.9	1618.8	1698.6	1772.5	1781.0	1842.1
22.5°	1624.7	1647.6	1627.3	1638.3	1674.0	1736.8	1823.4	1916.9	1928.8	1998.4
25°	1888.0	1920.3	1867.6	1848.9	1864.2	1929.6	2038.3	2156.4	2170.0	2226.0
27.5°	2405.2	2363.6	2283.8	2205.6	2159.8	2197.1	2319.4	2465.5	2482.5	2536.9
30°	2973.4	2936.9	2829.0	2655.8	2547.1	2541.1	2654.1	2817.1	2836.7	2888.5
32.5°	3542.4	3507.6	3390.4	3177.2	2988.7	2895.3	2973.4	3154.3	3164.5	3197.6
35°	4102.1	4066.5	3949.2	3731.0	3499.1	3286.8	3271.5	3475.3	3478.7	3513.6
37.5°	4665.2	4635.5	4510.6	4296.6	4068.1	3775.1	3633.3	3779.4	3783.6	3817.6
40°	5066.9	5079.7	4993.9	4828.3	4632.1	4311.9	4039.3	4103.0	4077.5	4134.4
42.5°	5411.7	5437.2	5362.5	5279.3	5165.4	4883.5	4542.1	4531.0	4490.3	4520.8
45°	5709.8	5731.1	5664.0	5644.5	5641.9	5444.0	5091.6	5025.3	4968.4	4962.5
47.5°	5819.4	5860.2	5889.0	5954.4	6081.8	5998.6	5659.7	5557.0	5493.3	5446.6
50°	5861.0	5904.3	6002.9	6193.1	6494.6	6530.3	6225.4	6109.9	6031.7	5946.8
52.5°	5805.0	5882.3	6014.7	6334.9	6772.3	6956.6	6768.1	6667.0	6577.8	6439.4
55°	5474.6	5551.9	5822.8	6333.2	6910.8	7255.6	7281.1	7236.0	7135.8	6917.6
57.5°	4778.2	4892.8	5321.7	6117.5	6908.2	7512.9	7783.8	7816.1	7704.0	7391.5
60°	3813.4	3968.8	4491.9	5639.4	6695.0	7652.2	8224.6	8386.0	8267.1	7858.6
62.5°	2660.9	2840.9	3336.1	4890.3	6207.5	7552.0	8546.5	8844.6	8754.6	8276.4
65°	1623.0	1680.8	2079.9	3848.2	5378.6	7132.4	8645.9	9092.6	9062.9	8532.1
67.5°	1081.2	1129.6	1244.2	2638.8	4175.2	6294.2	8408.1	9049.3	9057.8	8490.5
70°	651.4	693.0	767.8	1534.7	2705.9	4982.0	7671.7	8497.3	8546.5	7934.2
72.5°	268.4	296.4	364.3	695.6	1401.3	3161.9	6109.0	7295.5	7410.1	6671.3
75°	152.0	166.5	214.0	349.1	608.1	1473.5	3700.4	5179.0	5348.0	4598.1
77.5°	101.1	107.9	138.4	225.9	342.3	502.8	1581.4	2698.2	3021.0	2511.4
80°	67.9	73.9	95.1	151.2	222.5	215.7	503.6	999.6	1229.8	862.9
82.5°	45.9	46.7	67.9	99.4	141.0	104.5	148.6	310.8	390.7	249.7
85°	26.3	25.5	50.1	57.8	62.8	43.3	45.0	93.4	122.3	105.3
87.5°	3.4	5.1	19.5	15.3	8.5	9.3	9.3	16.1	23.8	25.5
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°
1473.5	0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
1475.2	2.5°	1475.2	1474.4	1471.8	1469.3	1463.3	1459.9	1461.6	1459.9	1459.1	1459.9
1486.3	5°	1486.3	1483.7	1476.9	1468.4	1456.6	1442.1	1432.8	1419.2	1406.4	1398.8
1516.0	7.5°	1516.0	1513.5	1504.1	1480.3	1442.1	1381.8	1326.6	1278.2	1241.7	1220.4
1563.6	10°	1563.6	1559.3	1544.9	1492.2	1392.0	1260.4	1150.8	1059.9	1000.5	972.4
1619.6	12.5°	1619.6	1614.5	1589.0	1481.2	1296.9	1091.4	940.2	839.1	783.9	759.3
1684.2	15°	1685.9	1679.1	1629.0	1428.5	1158.4	904.5	766.1	690.5	654.8	632.7
1766.5	17.5°	1768.2	1756.4	1658.7	1349.5	1008.1	761.8	659.1	602.2	570.7	549.5
1874.4	20°	1875.3	1855.7	1682.5	1255.3	869.7	671.8	586.9	539.3	515.5	496.8
2027.3	22.5°	2024.7	1996.7	1711.3	1153.3	772.0	609.8	533.4	498.5	479.0	457.8
2240.5	25°	2209.9	2176.8	1747.0	1059.1	704.9	556.3	494.3	465.4	442.5	417.9
2519.9	27.5°	2468.9	2409.5	1789.5	981.8	647.2	510.4	458.6	426.3	400.0	379.6
2836.7	30°	2757.7	2660.0	1826.8	935.1	594.5	468.0	411.9	379.6	355.0	340.6
3121.2	32.5°	3031.2	2898.7	1851.5	914.7	546.9	419.6	361.0	326.1	307.4	303.2
3399.7	35°	3289.3	3114.4	1848.9	895.2	504.5	371.1	310.8	275.2	260.7	263.3
3699.6	37.5°	3586.6	3344.5	1831.1	864.6	469.7	327.0	267.5	236.1	223.4	224.2
4063.9	40°	3932.3	3610.4	1820.1	806.8	431.4	286.2	231.9	206.4	197.0	193.6
4447.8	42.5°	4300.9	3867.7	1821.7	741.4	383.9	249.7	207.2	186.0	177.5	175.0
4875.0	45°	4671.2	4113.2	1824.3	673.5	333.8	221.7	189.4	171.6	166.5	163.1
5308.1	47.5°	5019.4	4322.1	1776.7	600.5	284.5	200.4	175.0	163.1	158.8	154.6
5743.0	50°	5343.8	4461.4	1662.1	515.5	245.4	183.4	163.9	155.4	151.2	146.9
6137.0	52.5°	5596.0	4483.5	1472.7	428.0	218.3	170.7	157.1	149.5	144.4	140.1
6455.5	55°	5708.1	4345.0	1203.5	346.5	197.0	159.7	150.3	142.7	136.7	132.5
6706.1	57.5°	5679.3	4053.7	938.5	278.6	176.7	148.6	141.8	136.7	129.9	123.1
6909.1	60°	5537.4	3663.9	707.5	231.9	158.0	136.7	132.5	128.2	118.9	108.7
6987.2	62.5°	5292.0	3173.8	504.5	191.9	137.6	123.1	121.4	118.1	104.5	85.8
6871.7	65°	4916.6	2578.5	339.7	159.7	118.1	107.9	108.7	102.8	84.9	63.7
6448.7	67.5°	4368.0	1885.4	217.4	130.8	98.5	90.0	90.9	87.5	72.2	54.4
5647.0	70°	3669.0	1248.5	141.8	99.4	79.0	69.6	74.7	75.6	61.1	44.2
4334.0	72.5°	2689.7	737.2	99.4	73.9	57.8	48.4	61.1	62.8	49.3	33.1
2607.4	75°	1533.0	349.9	74.7	53.5	35.7	34.0	47.6	47.6	34.0	22.1
1128.7	77.5°	643.8	146.1	52.7	34.8	20.4	19.5	32.3	29.7	17.0	10.2
275.2	80°	186.0	65.4	28.0	17.0	8.5	7.6	12.7	9.3	4.2	1.7
104.5	82.5°	73.0	28.9	11.0	6.8	3.4	3.4	1.7	0.0	0.0	0.0
59.5	85°	43.3	11.9	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	11.0	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1473.5
1463.3
1400.5
1221.3
969.9
756.7
633.6
547.8
493.4
454.4
415.3
375.4
338.0
305.7
263.3
227.6
192.8
174.1
163.1
154.6
146.9
139.3
131.6
122.3
107.0
84.1
62.0
51.8
42.5
31.4
20.4
10.2
1.7
0.0
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