

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: P940157

Luminaire Tested: **GALN-SB3A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12102 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

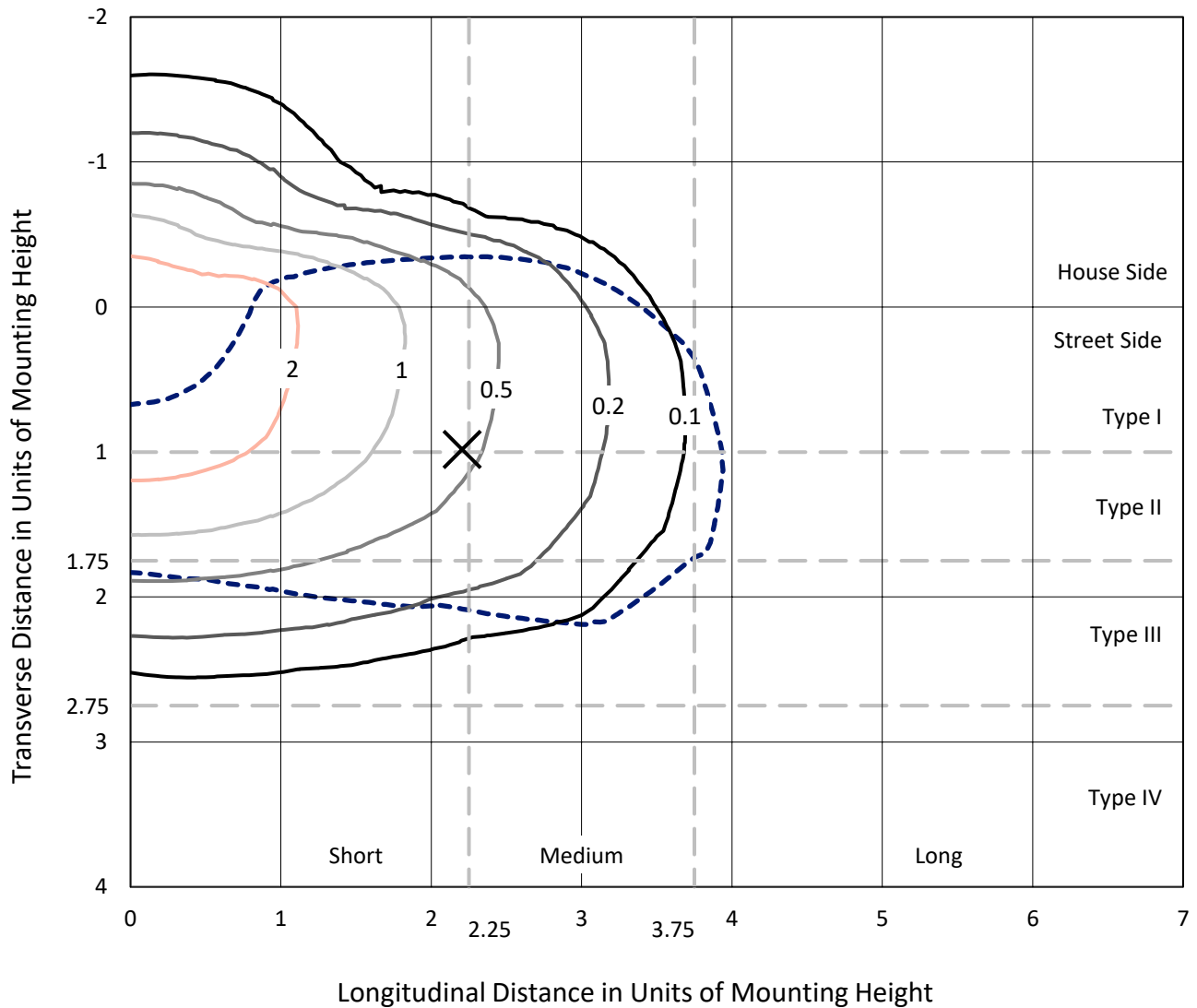
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

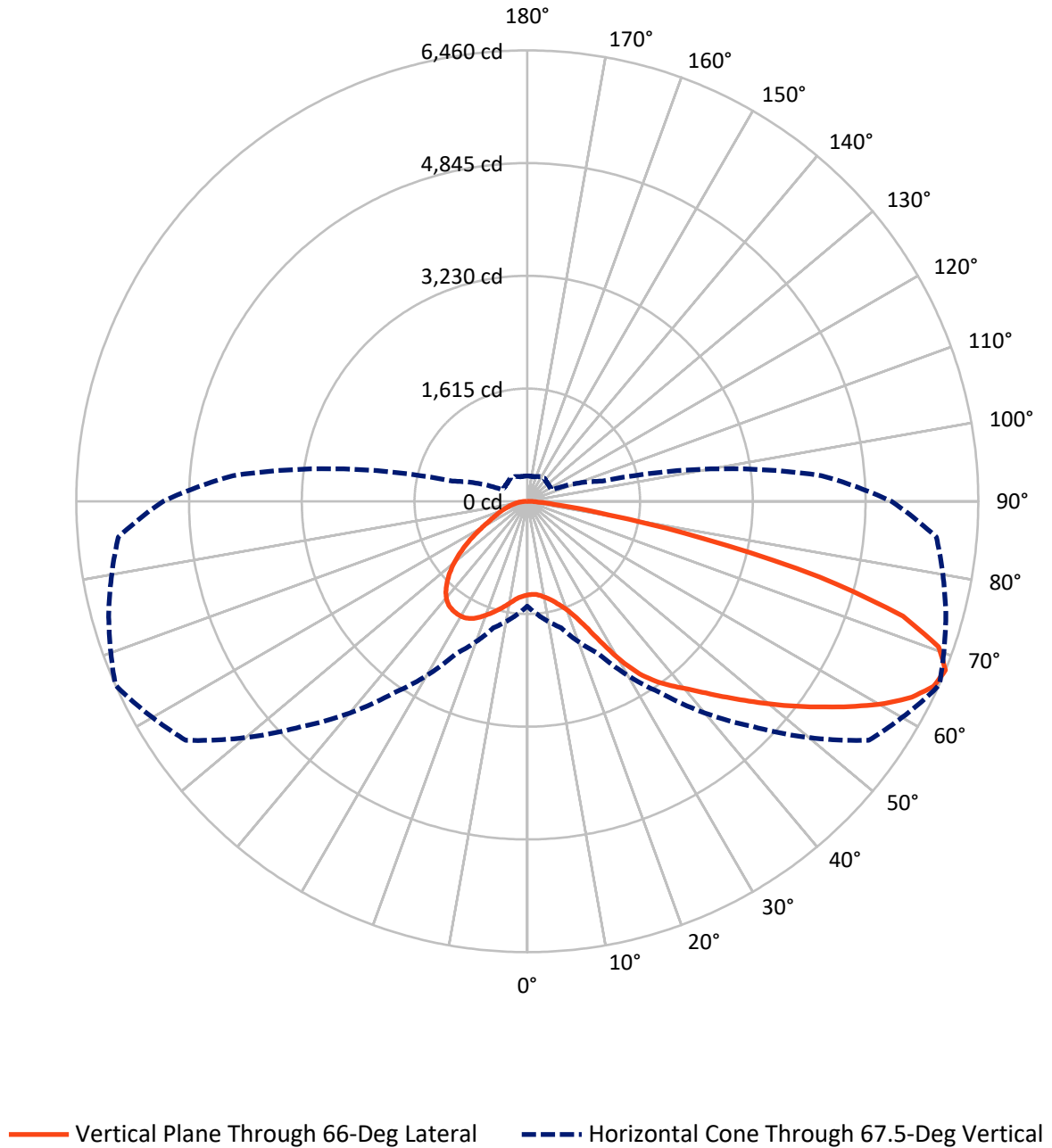
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.1	0.0	3009.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9092.9	0.0	9092.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	12102.0	0.0	12102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.1
10°-20°	439.7	3.6
20°-30°	847.5	7.0
30°-40°	1485.9	12.3
40°-50°	2209.1	18.3
50°-60°	2800.2	23.1
60°-70°	2739.9	22.6
70°-80°	1307.0	10.8
80°-90°	139.7	1.2
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°	12102.0	100.0
0°-180°	12102.0	100.0

Coefficient of Utilization



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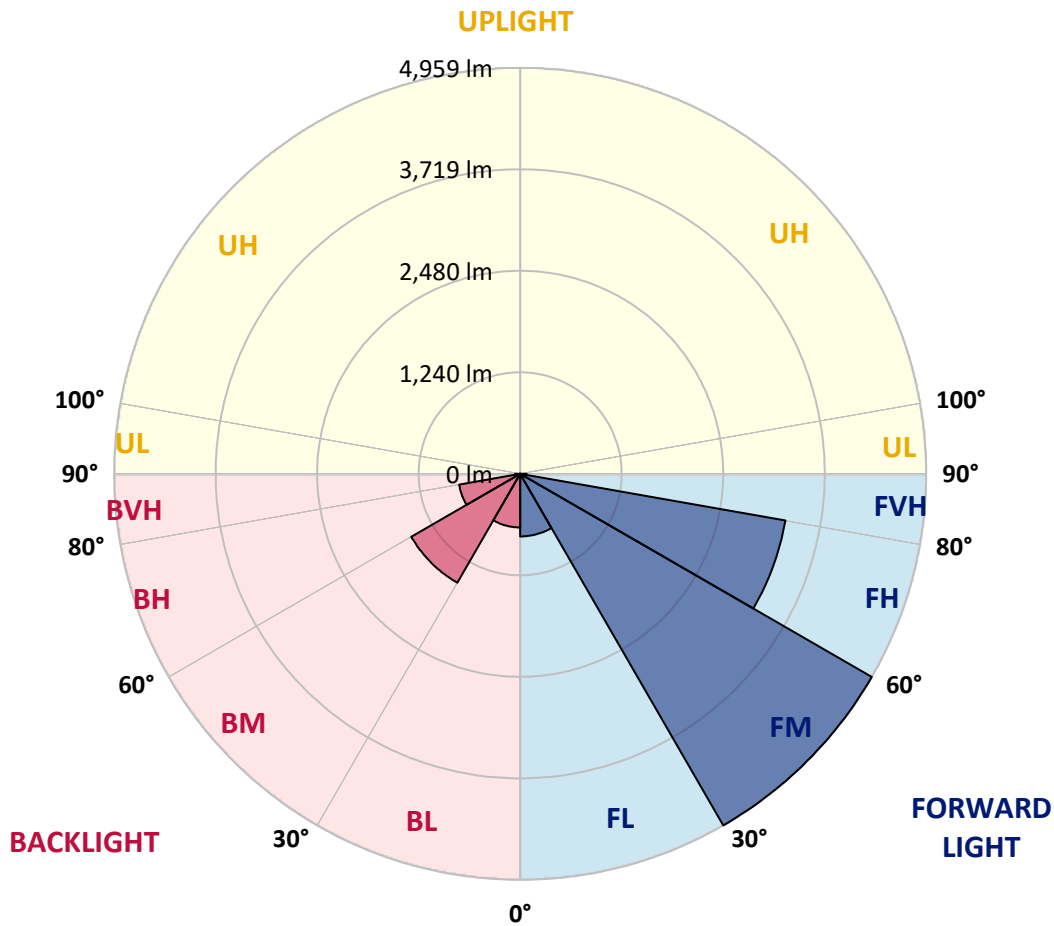
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.7	6.3			
FM (30°-60°)	4959.3	41.0			
FH (60°-80°)	3289.7	27.2			G2/5000
FVH (80°-90°)	79.2	0.7			G1/100
BL (0°-30°)	655.5	5.4	B2/1000		
BM (30°-60°)	1535.9	12.7	B2/2500		
BH (60°-80°)	757.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	60.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3
2.5°	1328.3	1335.9	1334.0	1330.8	1330.2	1331.5	1333.4	1335.3	1334.6	1337.8
5°	1324.5	1332.1	1331.5	1331.5	1334.0	1339.1	1342.3	1345.5	1342.3	1346.1
7.5°	1327.0	1332.7	1335.3	1337.8	1344.2	1353.7	1361.3	1368.3	1364.5	1369.0
10°	1359.4	1363.9	1366.4	1366.4	1370.9	1381.7	1389.3	1402.0	1398.9	1405.9
12.5°	1418.6	1423.0	1423.0	1420.5	1423.7	1430.7	1433.2	1447.2	1441.5	1452.9
15°	1491.1	1500.0	1493.0	1488.5	1489.8	1496.8	1496.1	1507.0	1501.2	1510.8
17.5°	1571.2	1582.6	1571.2	1570.5	1568.0	1575.6	1576.3	1585.8	1575.6	1582.6
20°	1665.9	1681.8	1672.3	1675.5	1669.7	1672.9	1676.1	1690.1	1674.2	1679.3
22.5°	1799.4	1818.5	1808.3	1820.4	1816.6	1814.1	1813.4	1838.2	1813.4	1815.3
25°	1994.0	2016.9	1999.1	2015.6	2015.6	2023.9	2033.4	2065.2	2023.9	2011.8
27.5°	2281.4	2304.3	2269.3	2279.5	2276.3	2296.7	2286.5	2365.3	2320.8	2301.1
30°	2627.3	2668.0	2601.9	2599.3	2596.2	2628.6	2643.2	2695.4	2650.2	2630.5
32.5°	3001.2	3043.8	2965.0	2942.1	2930.0	2949.7	2937.6	2979.6	2948.4	2917.9
35°	3396.7	3438.7	3363.6	3319.1	3270.8	3229.5	3186.2	3197.0	3167.8	3121.4
37.5°	3770.6	3847.5	3768.0	3720.3	3631.3	3550.6	3429.8	3379.5	3352.2	3309.6
40°	4151.4	4195.3	4134.9	4094.2	3997.6	3871.0	3677.7	3571.5	3534.7	3493.3
42.5°	4431.8	4473.8	4441.4	4413.4	4337.7	4190.9	3941.0	3808.1	3754.7	3708.3
45°	4654.4	4685.6	4665.2	4675.4	4643.0	4500.5	4213.8	4061.8	4006.5	3949.9
47.5°	4744.0	4777.1	4809.5	4869.9	4925.3	4820.4	4506.9	4336.5	4278.0	4220.1
50°	4733.9	4767.6	4861.7	4990.1	5161.8	5126.8	4815.9	4629.0	4574.9	4508.8
52.5°	4652.5	4690.6	4811.4	5025.1	5298.5	5356.4	5130.6	4931.0	4880.1	4801.3
55°	4438.8	4461.7	4643.0	4945.6	5330.9	5516.6	5439.0	5252.7	5201.9	5091.9
57.5°	4042.7	4075.8	4339.7	4731.3	5249.5	5625.3	5709.9	5591.0	5542.0	5383.7
60°	3525.8	3578.5	3880.6	4371.4	5042.3	5624.7	5956.0	5923.5	5882.9	5671.1
62.5°	2940.8	3001.8	3292.4	3862.8	4679.8	5465.1	6109.8	6202.0	6181.1	5936.3
65°	2258.5	2300.5	2589.8	3204.7	4115.8	5122.4	6127.7	6392.2	6396.0	6137.8
67.5°	1503.8	1624.6	1875.7	2404.8	3360.4	4562.2	5971.2	6423.3	6460.2	6207.1
70°	733.8	892.7	1138.8	1562.9	2404.8	3703.2	5562.4	6167.7	6249.7	6004.9
72.5°	304.6	356.1	490.2	771.3	1380.4	2498.9	4740.9	5474.6	5626.6	5320.8
75°	205.4	222.5	280.4	395.5	628.9	1232.3	3418.9	4082.1	4326.9	4018.5
77.5°	158.3	169.1	204.1	276.6	373.9	466.1	1830.0	2460.1	2586.6	2394.6
80°	124.6	132.9	152.6	201.6	265.1	249.3	623.8	1114.6	1187.8	996.4
82.5°	108.1	111.3	109.4	136.7	176.1	145.6	204.7	411.4	454.0	329.4
85°	78.2	87.1	90.9	84.6	93.5	73.8	83.9	145.6	160.2	143.1
87.5°	31.8	47.1	57.9	54.7	34.3	21.0	26.1	42.6	49.0	53.4
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°
1342.3	0°	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3	1342.3
1342.9	2.5°	1343.5	1348.0	1351.2	1355.0	1357.5	1361.3	1369.0	1373.4	1374.1	1377.2
1353.1	5°	1355.6	1362.0	1369.0	1379.2	1390.6	1400.1	1414.8	1424.9	1428.7	1431.9
1377.9	7.5°	1381.7	1390.6	1403.3	1421.1	1437.6	1450.4	1468.2	1480.3	1492.3	1496.8
1417.3	10°	1420.5	1433.2	1451.6	1475.8	1493.6	1510.1	1528.6	1538.7	1550.8	1555.9
1464.4	12.5°	1468.8	1482.2	1506.3	1540.0	1556.6	1568.0	1574.4	1571.8	1574.4	1578.8
1520.9	15°	1524.1	1538.7	1566.1	1602.3	1613.8	1603.6	1589.6	1576.9	1575.0	1576.3
1589.6	17.5°	1589.6	1600.4	1632.2	1662.7	1654.5	1612.5	1582.0	1561.6	1551.5	1548.3
1677.4	20°	1681.2	1681.2	1707.2	1726.3	1671.0	1599.8	1552.1	1519.0	1498.1	1489.2
1796.9	22.5°	1792.5	1782.3	1798.8	1785.5	1667.8	1564.2	1498.1	1440.8	1409.0	1396.3
1964.1	25°	1933.6	1921.5	1917.1	1834.4	1644.9	1507.6	1400.1	1330.8	1302.8	1295.9
2205.1	27.5°	2146.6	2116.1	2058.2	1861.1	1603.0	1418.6	1285.7	1221.5	1205.6	1206.2
2514.8	30°	2430.2	2369.2	2227.4	1865.6	1534.3	1292.7	1168.7	1122.9	1115.3	1118.5
2774.8	32.5°	2692.8	2634.9	2400.3	1845.2	1428.7	1169.3	1063.8	1033.3	1021.8	1025.6
2973.2	35°	2898.8	2882.9	2560.6	1816.6	1299.0	1053.6	969.7	943.6	921.3	916.3
3160.2	37.5°	3093.4	3087.0	2680.7	1776.6	1170.6	971.6	894.0	859.7	827.2	809.4
3366.8	40°	3307.0	3300.7	2759.6	1714.9	1056.8	900.4	826.0	780.8	740.8	708.3
3600.8	42.5°	3547.4	3509.9	2797.1	1626.5	960.1	840.0	770.6	709.6	656.8	626.9
3865.3	45°	3810.0	3725.4	2796.5	1514.0	878.7	784.6	711.5	625.0	576.1	548.1
4136.8	47.5°	4088.5	3931.4	2762.1	1389.3	799.9	723.6	620.0	553.8	521.4	504.2
4431.8	50°	4375.9	4124.1	2703.6	1246.3	719.1	654.3	562.7	517.6	492.8	476.9
4724.3	52.5°	4646.1	4299.0	2633.0	1084.1	637.1	586.9	537.3	502.3	476.2	458.4
5007.9	55°	4897.3	4449.7	2533.2	918.2	570.4	541.7	525.2	496.0	466.1	445.1
5296.0	57.5°	5120.5	4547.6	2360.9	762.4	522.7	510.6	512.5	485.2	450.8	433.0
5579.6	60°	5306.1	4619.4	2105.9	618.0	483.9	480.1	492.8	464.8	424.7	404.4
5819.3	62.5°	5417.4	4618.2	1793.1	506.1	450.8	452.1	466.7	439.4	398.7	379.6
5944.5	65°	5407.9	4505.0	1449.7	433.0	419.0	420.3	439.4	411.4	377.1	365.6
5881.6	67.5°	5216.5	4229.0	1112.1	385.3	384.1	389.8	412.0	392.3	363.7	362.4
5506.4	70°	4698.3	3656.1	801.2	347.2	347.8	356.1	385.3	380.2	356.7	359.3
4629.6	72.5°	3767.4	2787.6	537.9	307.1	307.7	321.1	359.9	370.7	349.7	383.4
3284.8	75°	2509.0	1738.4	345.9	264.5	265.1	282.3	337.6	352.3	330.6	382.1
1709.2	77.5°	1205.6	781.5	250.5	222.5	222.5	238.4	291.9	315.4	281.7	296.9
549.4	80°	416.5	293.8	197.1	179.3	175.5	186.3	246.1	273.4	242.9	223.8
179.3	82.5°	164.0	152.6	158.3	139.3	126.5	133.5	191.4	225.7	178.7	161.5
101.1	85°	94.1	99.2	111.9	92.2	73.1	82.0	140.5	162.1	134.8	118.9
33.1	87.5°	25.4	35.0	51.5	47.7	33.1	35.0	66.8	89.7	77.6	59.8
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>
1342.3
1376.6
1431.3
1497.4
1558.5
1580.1
1580.7
1552.7
1487.2
1394.4
1297.1
1208.1
1129.3
1030.7
920.1
810.1
711.5
628.9
546.8
500.4
471.2
450.8
436.8
421.6
395.5
373.9
365.0
364.3
358.6
388.5
385.3
272.1
209.8
160.9
121.4
61.7
0.0

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