

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: P939607

Luminaire Tested: **GALN-SB2B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939607
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-SB2B-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11922 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

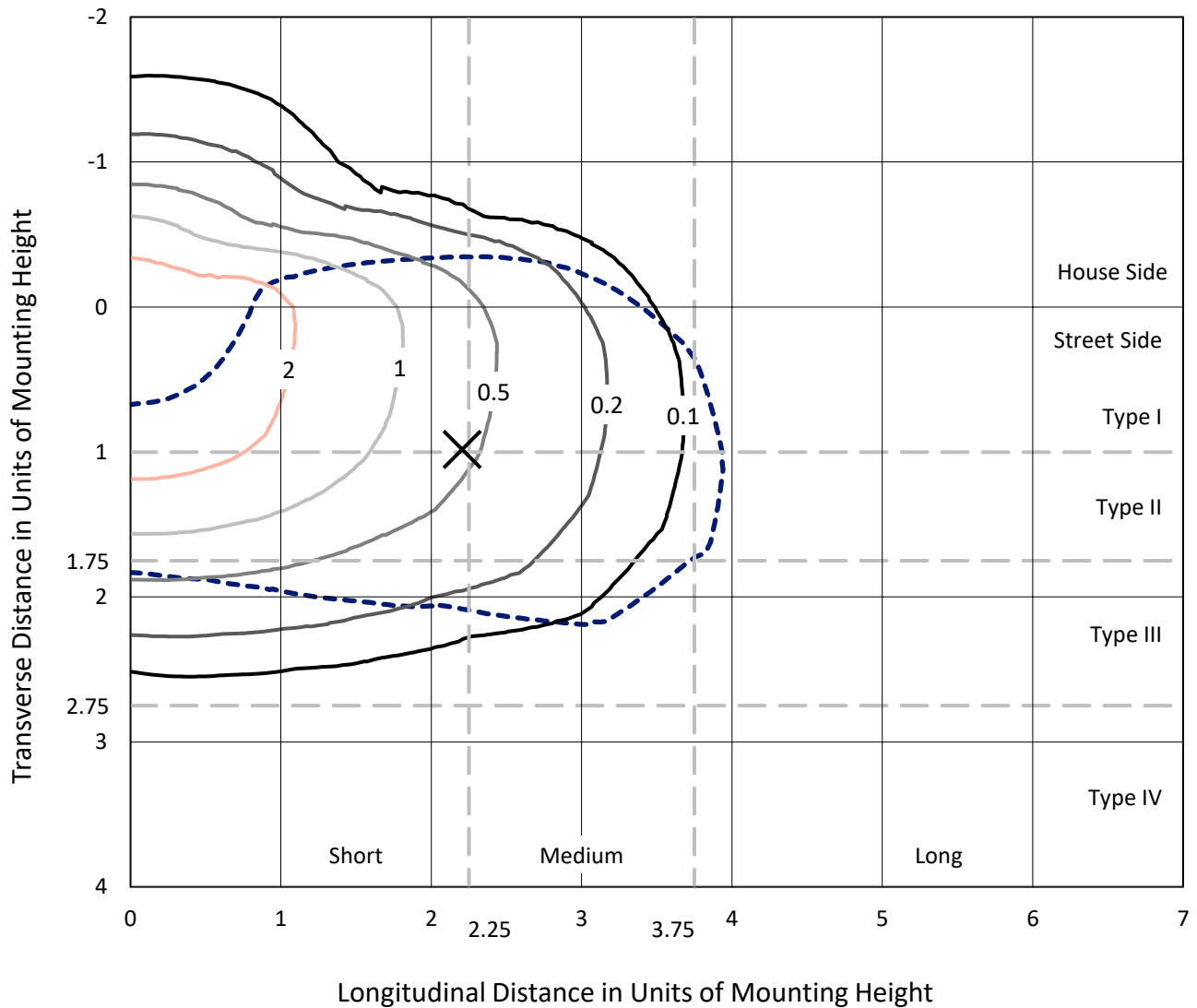
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

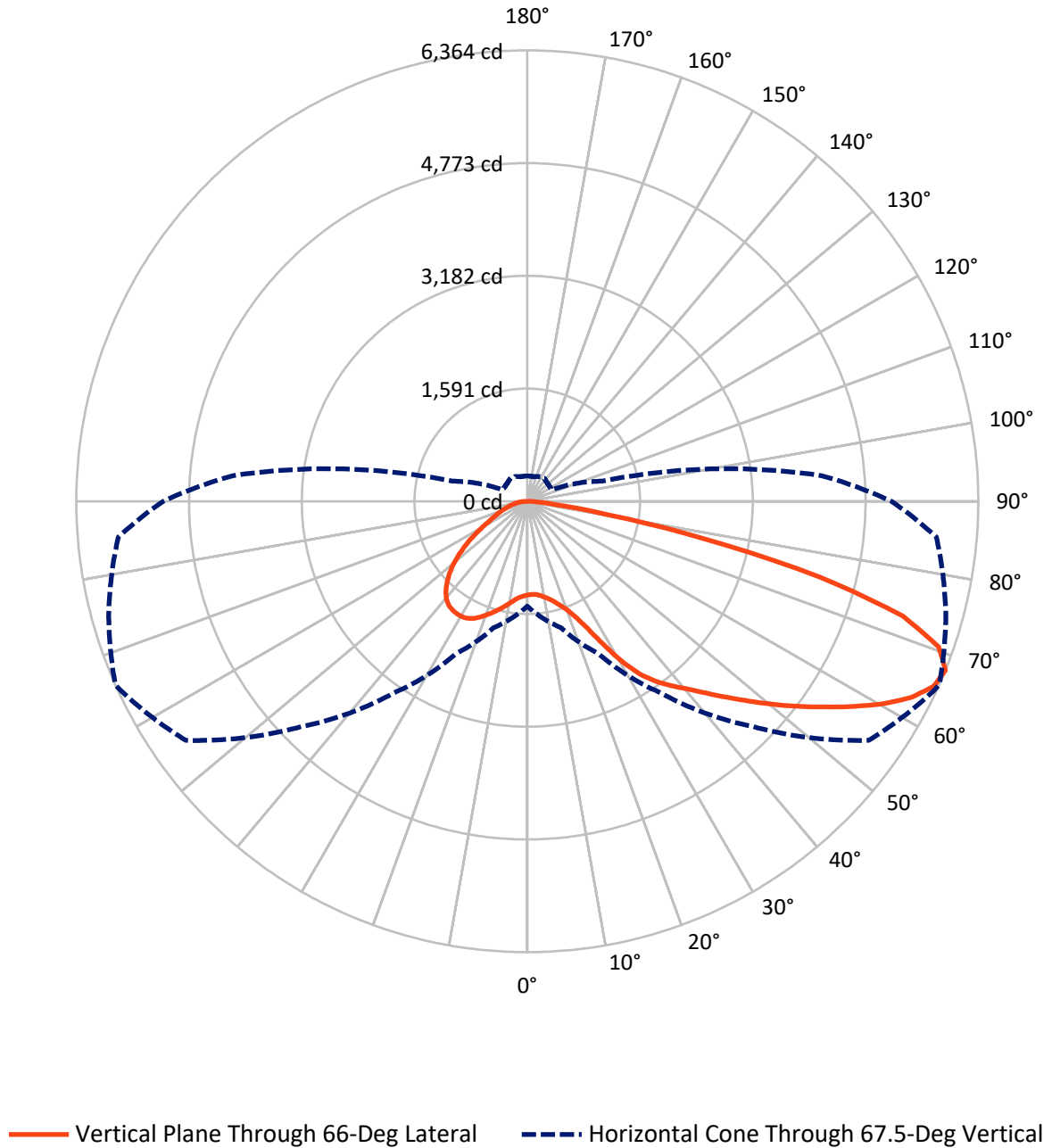
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2964.4	0.0	2964.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8957.6	0.0	8957.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	11922.0	0.0	11922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.1
10°-20°	433.1	3.6
20°-30°	834.9	7.0
30°-40°	1463.8	12.3
40°-50°	2176.2	18.3
50°-60°	2758.6	23.1
60°-70°	2699.2	22.6
70°-80°	1287.5	10.8
80°-90°	137.6	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°	11922.0	100.0
0°-180°	11922.0	100.0

Coefficient of Utilization



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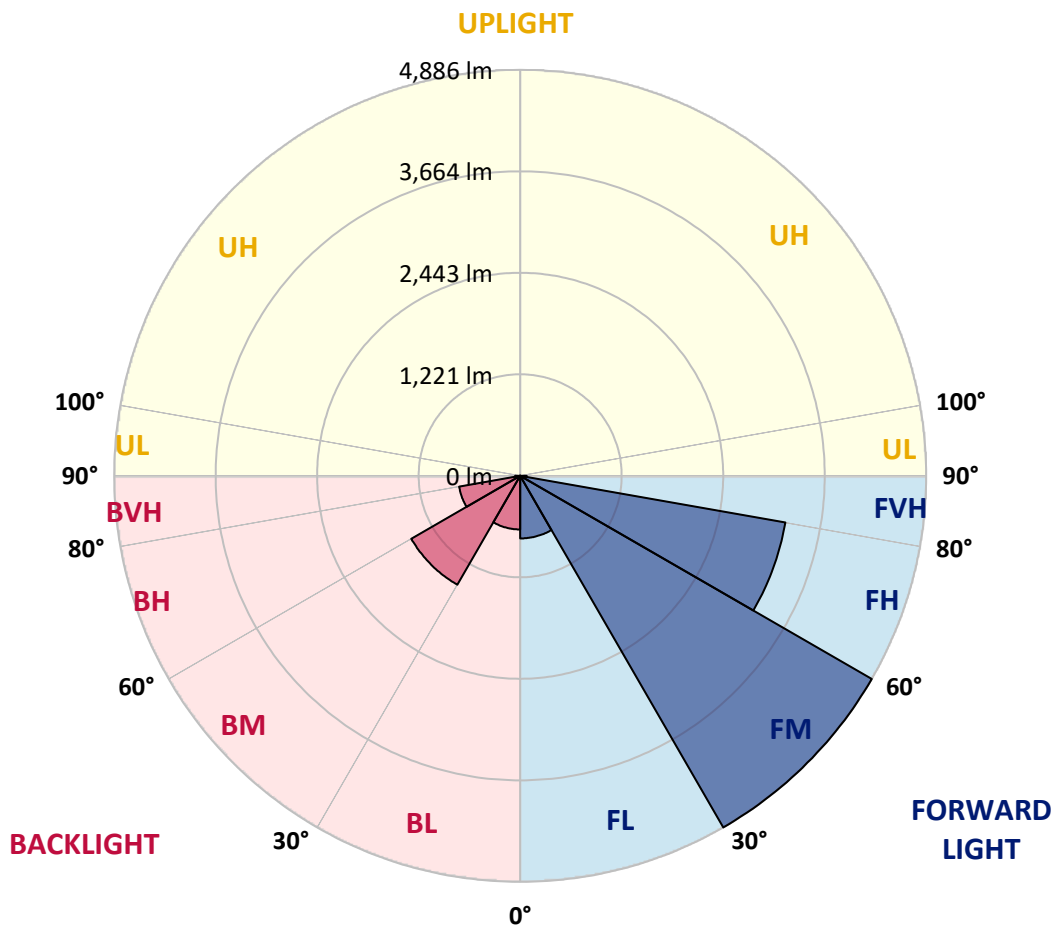
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.4	6.3			
FM (30°-60°)	4885.5	41.0			
FH (60°-80°)	3240.7	27.2			G2/5000
FVH (80°-90°)	78.0	0.7			G1/100
BL (0°-30°)	645.7	5.4	B2/1000		
BM (30°-60°)	1513.0	12.7	B2/2500		
BH (60°-80°)	746.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	59.6	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°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1308.5	1316.0	1314.2	1311.0	1310.4	1311.7	1313.5	1315.4	1314.8	1317.9
5°	1304.8	1312.3	1311.7	1311.7	1314.2	1319.2	1322.3	1325.4	1322.3	1326.1
7.5°	1307.3	1312.9	1315.4	1317.9	1324.2	1333.6	1341.1	1348.0	1344.2	1348.6
10°	1339.2	1343.6	1346.1	1346.1	1350.5	1361.1	1368.7	1381.2	1378.1	1384.9
12.5°	1397.5	1401.9	1401.9	1399.4	1402.5	1409.4	1411.9	1425.7	1420.0	1431.3
15°	1468.9	1477.7	1470.8	1466.4	1467.6	1474.5	1473.9	1484.5	1478.9	1488.3
17.5°	1547.8	1559.1	1547.8	1547.2	1544.7	1552.2	1552.8	1562.2	1552.2	1559.1
20°	1641.1	1656.8	1647.4	1650.5	1644.9	1648.0	1651.2	1664.9	1649.3	1654.3
22.5°	1772.7	1791.5	1781.5	1793.4	1789.6	1787.1	1786.5	1810.9	1786.5	1788.3
25°	1964.4	1986.9	1969.4	1985.7	1985.7	1993.8	2003.2	2034.5	1993.8	1981.9
27.5°	2247.5	2270.0	2235.6	2245.6	2242.5	2262.5	2252.5	2330.2	2286.3	2266.9
30°	2588.2	2628.3	2563.2	2560.7	2557.5	2589.5	2603.9	2655.3	2610.8	2591.4
32.5°	2956.6	2998.5	2920.9	2898.3	2886.4	2905.8	2893.9	2935.3	2904.6	2874.5
35°	3346.2	3387.5	3313.6	3269.8	3222.1	3181.4	3138.8	3149.5	3120.7	3074.9
37.5°	3714.5	3790.3	3712.0	3665.0	3577.3	3497.8	3378.7	3329.3	3302.3	3260.4
40°	4089.7	4132.9	4073.4	4033.3	3938.1	3813.5	3623.0	3518.4	3482.1	3441.4
42.5°	4365.9	4407.3	4375.3	4347.8	4273.2	4128.5	3882.4	3751.4	3698.8	3653.1
45°	4585.2	4615.9	4595.8	4605.8	4573.9	4433.6	4151.1	4001.4	3946.9	3891.1
47.5°	4673.5	4706.1	4738.0	4797.5	4852.0	4748.7	4439.8	4272.0	4214.3	4157.3
50°	4663.5	4696.7	4789.4	4915.9	5085.0	5050.6	4744.3	4560.1	4506.9	4441.7
52.5°	4583.3	4620.9	4739.9	4950.4	5219.7	5276.7	5054.3	4857.6	4807.5	4729.9
55°	4372.8	4395.4	4573.9	4872.1	5251.6	5434.6	5358.1	5174.6	5124.5	5016.1
57.5°	3982.6	4015.2	4275.1	4661.0	5171.5	5541.7	5625.0	5507.8	5459.6	5303.6
60°	3473.3	3525.3	3822.9	4306.4	4967.3	5541.0	5867.4	5835.4	5795.4	5586.8
62.5°	2897.0	2957.2	3243.4	3805.3	4610.2	5383.8	6019.0	6109.8	6089.1	5848.0
65°	2224.9	2266.3	2551.3	3157.0	4054.6	5046.2	6036.5	6297.1	6300.8	6046.5
67.5°	1481.4	1600.4	1847.8	2369.0	3310.5	4494.3	5882.4	6327.8	6364.1	6114.8
70°	722.9	879.5	1121.9	1539.7	2369.0	3648.1	5479.7	6076.0	6156.8	5915.6
72.5°	300.0	350.8	482.9	759.8	1359.9	2461.7	4670.4	5393.2	5542.9	5241.6
75°	202.3	219.2	276.2	389.6	619.5	1213.9	3368.1	4021.4	4262.6	3958.8
77.5°	156.0	166.6	201.1	272.5	368.3	459.1	1802.7	2423.5	2548.2	2359.0
80°	122.8	130.9	150.3	198.6	261.2	245.5	614.5	1098.1	1170.1	981.6
82.5°	106.5	109.6	107.7	134.7	173.5	143.4	201.7	405.3	447.2	324.5
85°	77.0	85.8	89.6	83.3	92.1	72.7	82.7	143.4	157.9	140.9
87.5°	31.3	46.4	57.0	53.9	33.8	20.7	25.7	42.0	48.2	52.6
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°
1322.3	0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
1322.9	2.5°	1323.6	1327.9	1331.1	1334.8	1337.3	1341.1	1348.6	1353.0	1353.6	1356.8
1333.0	5°	1335.5	1341.7	1348.6	1358.6	1369.9	1379.3	1393.7	1403.7	1407.5	1410.6
1357.4	7.5°	1361.1	1369.9	1382.4	1400.0	1416.3	1428.8	1446.3	1458.2	1470.1	1474.5
1396.2	10°	1399.4	1411.9	1430.0	1453.8	1471.4	1487.7	1505.8	1515.9	1527.8	1532.8
1442.6	12.5°	1447.0	1460.1	1483.9	1517.1	1533.4	1544.7	1550.9	1548.4	1550.9	1555.3
1498.3	15°	1501.5	1515.9	1542.8	1578.5	1589.8	1579.8	1566.0	1553.4	1551.6	1552.8
1566.0	17.5°	1566.0	1576.6	1607.9	1638.0	1629.9	1588.5	1558.5	1538.4	1528.4	1525.3
1652.4	20°	1656.2	1656.2	1681.9	1700.6	1646.2	1576.0	1529.0	1496.4	1475.8	1467.0
1770.2	22.5°	1765.8	1755.8	1772.1	1758.9	1643.0	1540.9	1475.8	1419.4	1388.1	1375.6
1934.9	25°	1904.8	1892.9	1888.6	1807.1	1620.5	1485.2	1379.3	1311.0	1283.5	1276.6
2172.3	27.5°	2114.7	2084.6	2027.6	1833.4	1579.1	1397.5	1266.6	1203.3	1187.6	1188.3
2477.4	30°	2394.1	2333.9	2194.2	1837.8	1511.5	1273.4	1151.3	1106.2	1098.7	1101.8
2733.6	32.5°	2652.8	2595.8	2364.6	1817.8	1407.5	1151.9	1047.9	1017.9	1006.6	1010.4
2929.0	35°	2855.7	2840.0	2522.5	1789.6	1279.7	1037.9	955.2	929.6	907.6	902.6
3113.2	37.5°	3047.4	3041.1	2640.9	1750.1	1153.2	957.1	880.7	846.9	814.9	797.4
3316.7	40°	3257.8	3251.6	2718.5	1689.4	1041.1	887.0	813.7	769.2	729.7	697.8
3547.2	42.5°	3494.6	3457.7	2755.5	1602.3	945.8	827.5	759.2	699.1	647.1	617.6
3807.8	45°	3753.3	3670.0	2754.9	1491.4	865.7	773.0	700.9	615.7	567.5	539.9
4075.3	47.5°	4027.7	3873.0	2721.0	1368.7	788.0	712.8	610.7	545.6	513.6	496.7
4365.9	50°	4310.8	4062.8	2663.4	1227.7	708.4	644.6	554.4	509.9	485.5	469.8
4654.1	52.5°	4577.0	4235.0	2593.9	1068.0	627.6	578.2	529.3	494.8	469.2	451.6
4933.4	55°	4824.4	4383.5	2495.5	904.5	561.9	533.7	517.4	488.6	459.1	438.5
5217.2	57.5°	5044.3	4479.9	2325.8	751.0	514.9	503.0	504.9	477.9	444.1	426.6
5496.6	60°	5227.2	4550.7	2074.6	608.9	476.7	472.9	485.5	457.9	418.4	398.4
5732.7	62.5°	5336.8	4549.5	1766.4	498.6	444.1	445.4	459.8	432.8	392.7	374.0
5856.1	65°	5327.4	4438.0	1428.2	426.6	412.8	414.0	432.8	405.3	371.4	360.2
5794.1	67.5°	5138.9	4166.1	1095.6	379.6	378.3	384.0	405.9	386.5	358.3	357.0
5424.5	70°	4628.4	3601.7	789.3	342.0	342.6	350.8	379.6	374.6	351.4	353.9
4560.7	72.5°	3711.4	2746.1	529.9	302.5	303.2	316.3	354.5	365.2	344.5	377.7
3235.9	75°	2471.7	1712.5	340.8	260.6	261.2	278.1	332.6	347.0	325.7	376.5
1683.7	77.5°	1187.6	769.8	246.8	219.2	219.2	234.9	287.5	310.7	277.5	292.5
541.2	80°	410.3	289.4	194.2	176.6	172.9	183.5	242.4	269.3	239.3	220.5
176.6	82.5°	161.6	150.3	156.0	137.2	124.7	131.5	188.5	222.4	176.0	159.1
99.6	85°	92.7	97.7	110.2	90.8	72.0	80.8	138.4	159.7	132.8	117.1
32.6	87.5°	25.1	34.5	50.7	47.0	32.6	34.5	65.8	88.3	76.4	58.9
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>
1322.3
1356.1
1410.0
1475.1
1535.3
1556.6
1557.2
1529.6
1465.1
1373.7
1277.8
1190.1
1112.5
1015.4
906.4
798.0
700.9
619.5
538.7
493.0
464.2
444.1
430.3
415.3
389.6
368.3
359.5
358.9
353.3
382.7
379.6
268.1
206.7
158.5
119.6
60.8
0.0

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