

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: P946822

Luminaire Tested: **GALN-SB2B-835-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-835-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

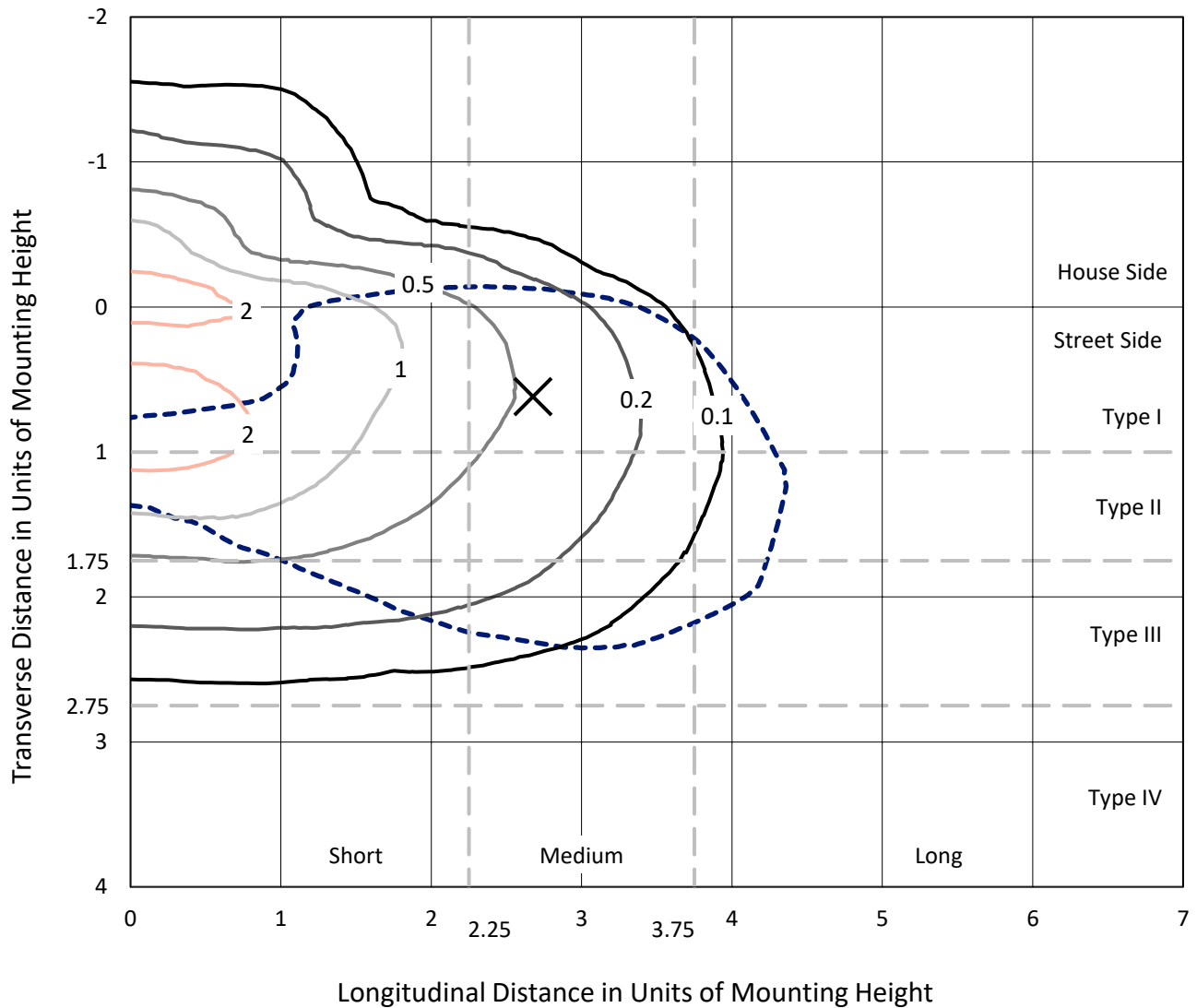
Lumens per Lamp: N/A  
Luminaire Lumens: 10723 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

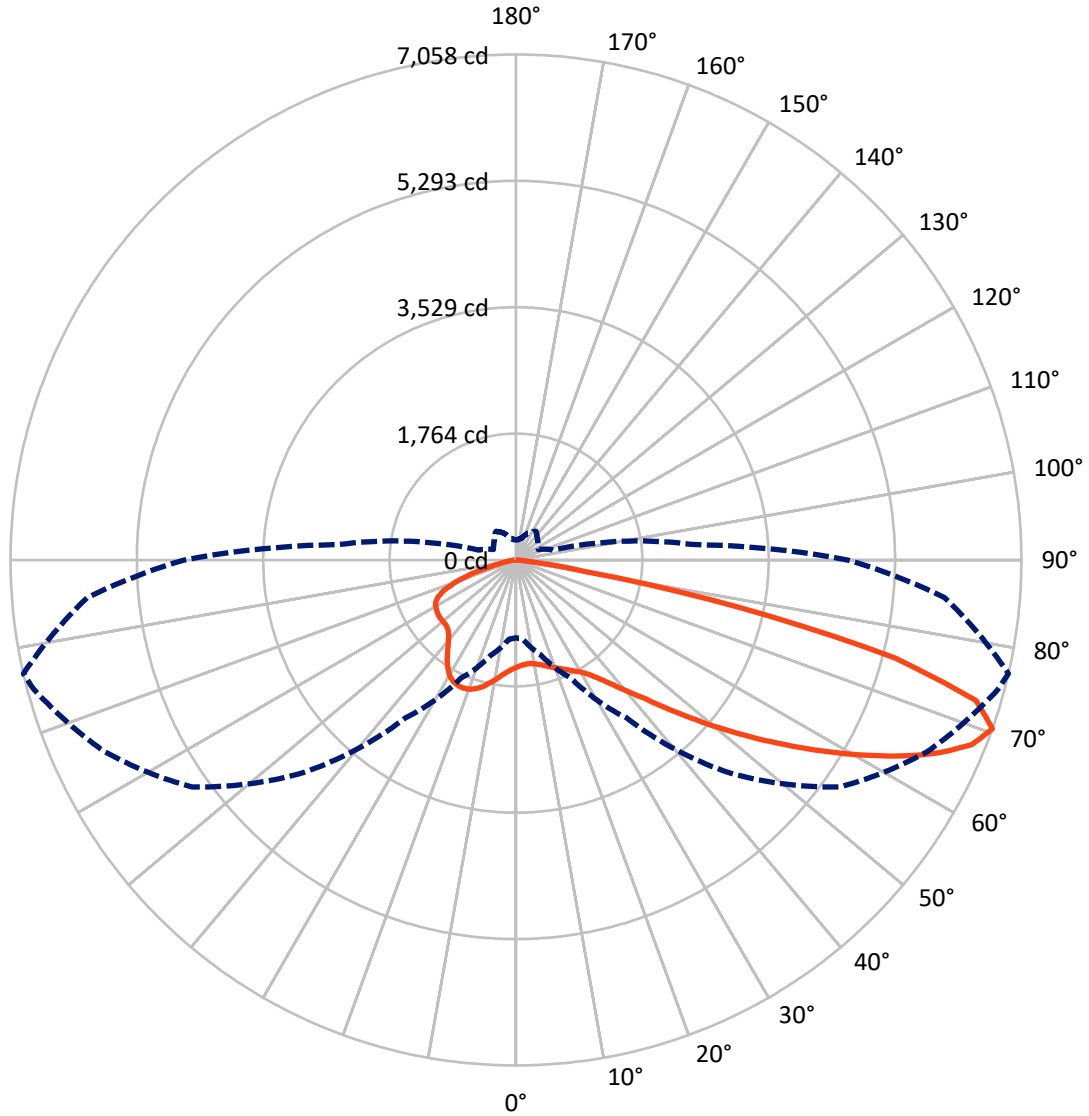
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2348.2	0.0	2348.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8374.8	0.0	8374.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10723.0	0.0	10723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	1.3
10°-20°	411.8	3.8
20°-30°	704.2	6.6
30°-40°	1132.4	10.6
40°-50°	1768.0	16.5
50°-60°	2361.6	22.0
60°-70°	2517.1	23.5
70°-80°	1549.5	14.5
80°-90°	135.8	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°	10723.0	100.0
0°-180°	10723.0	100.0

**Coefficient of Utilization**



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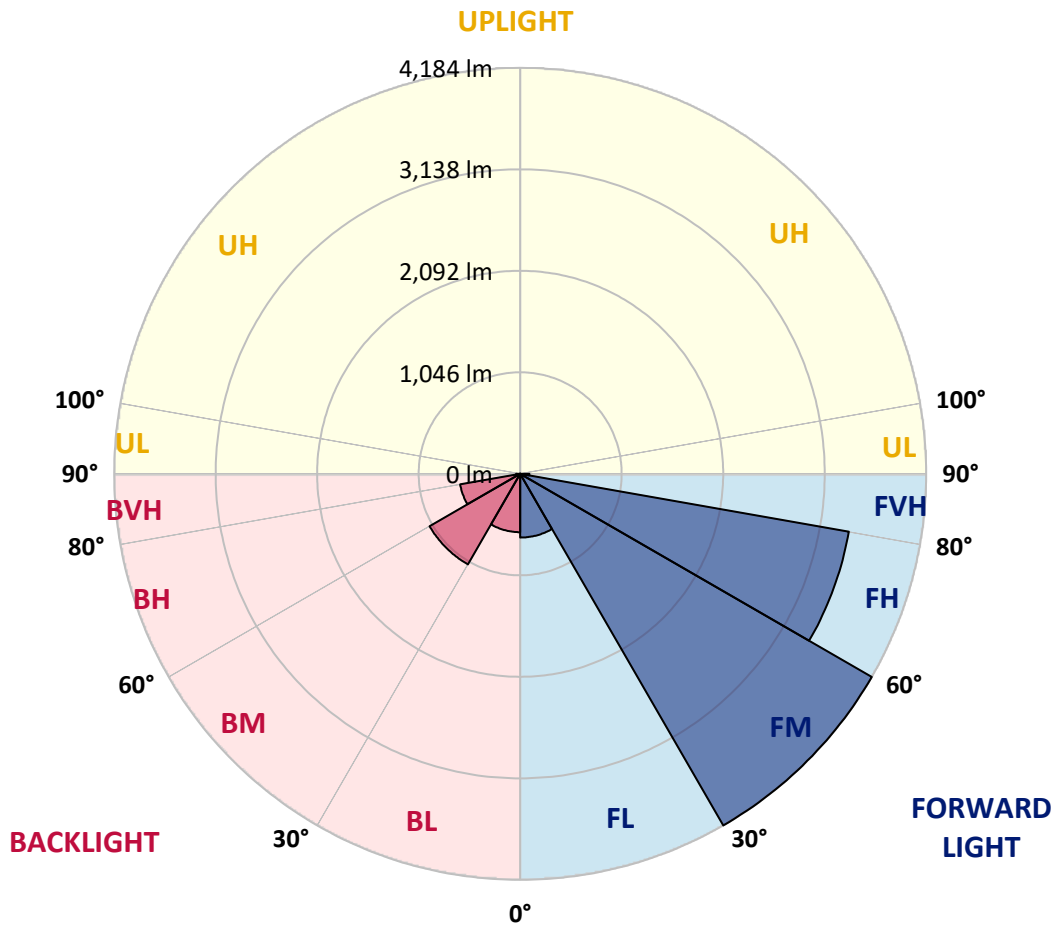
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.0	6.1			
FM (30°-60°)	4183.9	39.0			
FH (60°-80°)	3439.1	32.1			G2/5000
FVH (80°-90°)	94.9	0.9			G1/100
BL (0°-30°)	601.7	5.6	B2/1000		
BM (30°-60°)	1078.1	10.1	B2/2500		
BH (60°-80°)	627.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	40.8	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1379.0	1378.4	1385.6	1387.8	1400.9	1410.3	1427.9	1446.5	1470.7	1473.4
5°	1299.4	1299.4	1307.6	1316.4	1333.4	1352.1	1379.0	1411.4	1453.1	1459.7
7.5°	1231.8	1236.2	1243.3	1260.4	1280.1	1307.0	1348.2	1394.4	1449.3	1459.7
10°	1177.4	1182.4	1191.2	1204.9	1234.5	1271.9	1325.7	1385.0	1458.6	1475.1
12.5°	1160.4	1165.4	1170.3	1180.7	1208.2	1252.1	1316.4	1389.4	1481.1	1497.6
15°	1200.0	1206.0	1202.1	1199.4	1213.7	1253.8	1320.8	1405.3	1509.1	1532.8
17.5°	1291.1	1293.3	1284.5	1258.7	1256.5	1277.9	1341.6	1427.3	1544.3	1570.1
20°	1438.3	1434.4	1416.3	1365.3	1336.1	1331.8	1377.3	1460.3	1580.5	1608.0
22.5°	1638.2	1633.8	1597.6	1516.8	1452.0	1409.2	1429.0	1503.1	1621.2	1651.9
25°	1887.5	1881.5	1828.2	1718.4	1617.9	1511.9	1499.3	1559.7	1671.1	1699.7
27.5°	2178.6	2173.6	2116.0	1971.0	1826.0	1652.5	1586.6	1626.1	1723.3	1755.7
30°	2491.6	2505.9	2403.7	2247.8	2064.4	1835.9	1704.1	1707.9	1790.9	1820.0
32.5°	2859.6	2884.3	2761.3	2563.6	2313.1	2035.2	1852.4	1822.2	1889.2	1913.3
35°	3224.2	3252.2	3150.1	2931.5	2643.2	2270.3	2007.2	1953.4	2019.9	2046.2
37.5°	3539.4	3576.8	3524.1	3334.0	2996.3	2553.7	2209.3	2107.7	2180.8	2213.7
40°	3788.2	3845.3	3841.5	3722.9	3412.6	2897.5	2465.8	2298.3	2380.7	2416.4
42.5°	3990.3	4039.7	4082.6	4076.5	3847.0	3287.9	2767.3	2546.0	2608.6	2649.8
45°	4129.8	4182.5	4274.8	4374.2	4264.9	3705.8	3112.7	2839.8	2896.9	2959.0
47.5°	4254.5	4314.3	4434.0	4591.7	4619.7	4125.4	3491.1	3181.9	3234.1	3298.4
50°	4265.5	4317.1	4502.7	4726.2	4871.7	4528.5	3897.5	3565.8	3614.7	3683.3
52.5°	4000.2	4081.5	4405.5	4722.4	4987.6	4865.7	4301.1	3965.1	4020.0	4102.3
55°	3105.0	3224.2	4120.5	4575.2	4946.4	5083.7	4685.0	4389.6	4459.9	4546.1
57.5°	2674.5	2726.7	3270.9	4307.2	4758.6	5140.3	5009.0	4818.5	4931.6	5026.1
60°	2403.7	2447.1	2768.9	3890.4	4511.5	5050.8	5259.5	5218.3	5413.8	5526.4
62.5°	2113.8	2155.0	2447.7	3248.4	4195.2	4901.9	5417.6	5587.3	5908.0	6031.1
65°	1826.0	1861.2	2141.8	2729.4	3793.2	4753.1	5499.5	5906.4	6365.5	6492.9
67.5°	1505.3	1534.4	1799.7	2302.7	3304.4	4549.4	5540.1	6157.4	6763.7	6872.9
70°	1086.3	1108.8	1382.8	1821.1	2691.0	4199.0	5523.6	6335.3	6970.1	7057.5
72.5°	513.5	533.8	855.6	1182.4	1900.7	3516.9	5190.3	6194.2	6760.4	6717.0
75°	274.0	291.6	491.5	648.6	1003.9	2410.9	4247.3	5335.8	5676.8	5466.0
77.5°	185.6	199.4	304.2	389.4	458.6	1144.5	2730.0	3694.3	3554.3	3206.1
80°	147.2	161.5	249.3	263.6	221.9	413.5	1128.0	1710.1	1228.5	982.5
82.5°	113.1	129.1	209.8	191.1	120.8	169.7	328.4	540.9	314.7	239.4
85°	69.2	86.2	164.8	121.9	68.1	77.4	111.5	150.5	96.1	80.2
87.5°	35.1	49.4	83.5	44.5	30.8	18.1	29.7	29.7	25.3	22.0
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°
1496.0	0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
1488.3	2.5°	1501.4	1512.4	1531.1	1548.7	1562.4	1575.6	1588.8	1595.9	1598.1	1606.9
1496.5	5°	1519.0	1539.3	1575.6	1609.6	1631.1	1644.2	1653.6	1659.1	1660.2	1662.9
1519.0	7.5°	1551.4	1583.8	1634.3	1668.4	1684.3	1683.2	1679.4	1665.7	1660.2	1655.2
1552.0	10°	1597.0	1639.8	1701.9	1725.5	1715.6	1689.3	1655.2	1615.1	1596.5	1578.3
1597.0	12.5°	1653.6	1707.9	1768.9	1767.8	1718.9	1651.4	1572.3	1510.8	1471.8	1443.8
1652.5	15°	1722.2	1784.8	1831.5	1794.2	1687.1	1565.7	1449.8	1369.6	1334.5	1303.7
1708.5	17.5°	1793.1	1860.1	1881.5	1785.9	1606.9	1438.8	1307.6	1244.4	1209.8	1193.4
1768.9	20°	1862.3	1928.7	1911.1	1738.7	1485.0	1295.0	1178.0	1143.4	1136.2	1140.1
1827.7	22.5°	1935.3	1994.6	1917.2	1647.5	1329.6	1147.8	1083.5	1084.6	1100.5	1112.1
1889.2	25°	2010.0	2050.1	1901.2	1515.7	1162.6	1039.6	1023.7	1041.2	1072.5	1095.1
1958.4	27.5°	2081.9	2099.5	1866.7	1352.6	1019.3	962.2	964.9	1001.1	1048.4	1079.7
2042.4	30°	2163.2	2143.4	1800.2	1169.2	919.9	895.7	918.8	961.1	1008.3	1036.3
2148.4	32.5°	2254.9	2181.3	1694.8	999.5	849.6	842.4	880.3	907.8	928.7	936.9
2289.0	35°	2369.1	2234.6	1559.7	880.3	786.4	803.4	839.7	826.0	817.7	813.3
2477.9	37.5°	2517.4	2306.5	1401.5	802.9	735.3	775.4	790.3	747.4	715.0	699.1
2706.9	40°	2695.9	2412.0	1249.4	743.0	702.9	751.3	725.5	673.8	632.7	610.1
2964.5	42.5°	2894.2	2522.4	1121.4	698.0	684.8	731.5	677.7	616.2	549.7	542.6
3271.4	45°	3102.3	2636.0	1034.1	663.4	676.0	714.5	650.2	550.8	503.6	532.7
3579.5	47.5°	3310.4	2740.4	981.4	637.6	671.6	695.3	626.1	514.6	481.1	523.4
3909.6	50°	3542.2	2833.7	957.8	618.9	666.7	687.6	589.8	505.2	457.5	485.5
4251.2	52.5°	3772.3	2906.2	940.2	600.2	659.6	681.5	572.2	494.3	428.9	430.6
4595.0	55°	4001.8	2953.5	921.0	575.5	643.6	668.3	570.6	482.2	407.5	399.8
4958.5	57.5°	4246.8	2980.4	897.4	548.1	616.2	634.8	568.9	472.8	400.9	388.3
5330.3	60°	4496.1	3019.9	866.6	514.6	579.4	594.8	565.1	469.5	397.1	375.6
5680.7	62.5°	4719.6	3033.7	829.8	482.7	532.2	555.2	556.9	466.8	386.6	349.8
5971.7	65°	4866.3	2974.3	765.6	446.5	481.1	514.6	540.9	457.5	367.9	331.2
6115.6	67.5°	4860.2	2805.2	665.1	399.8	431.7	469.5	517.9	441.5	345.4	308.1
6006.9	70°	4633.9	2471.3	537.6	345.4	377.3	421.2	488.2	417.9	318.5	282.8
5341.3	72.5°	3974.4	1934.2	390.5	281.7	314.1	371.2	449.8	389.4	291.1	260.3
3947.5	75°	2839.2	1224.1	264.7	216.4	244.4	314.7	402.0	355.9	265.8	261.4
1977.0	77.5°	1450.4	584.9	175.2	158.2	170.2	248.2	337.7	318.0	269.6	215.8
562.4	80°	471.7	215.8	110.4	107.6	113.1	165.3	261.4	260.9	204.3	146.6
136.2	82.5°	150.5	92.8	71.9	69.2	66.5	103.8	182.3	206.5	137.8	92.8
48.9	85°	59.9	55.5	42.3	39.0	28.0	48.9	95.6	137.3	102.7	67.0
12.6	87.5°	22.0	22.0	11.5	8.2	6.0	16.5	25.8	41.2	58.8	34.6
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>
1496.0
1611.8
1667.3
1656.3
1572.8
1437.2
1300.4
1198.3
1138.4
1114.8
1101.1
1087.4
1042.9
941.3
817.7
702.9
611.8
549.7
548.1
543.1
506.3
442.1
405.3
389.9
377.3
349.8
331.2
309.7
286.1
258.7
246.6
192.2
129.6
92.3
68.6
34.0
0.0

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