

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: P949448

Luminaire Tested: **GALN-SB4A-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

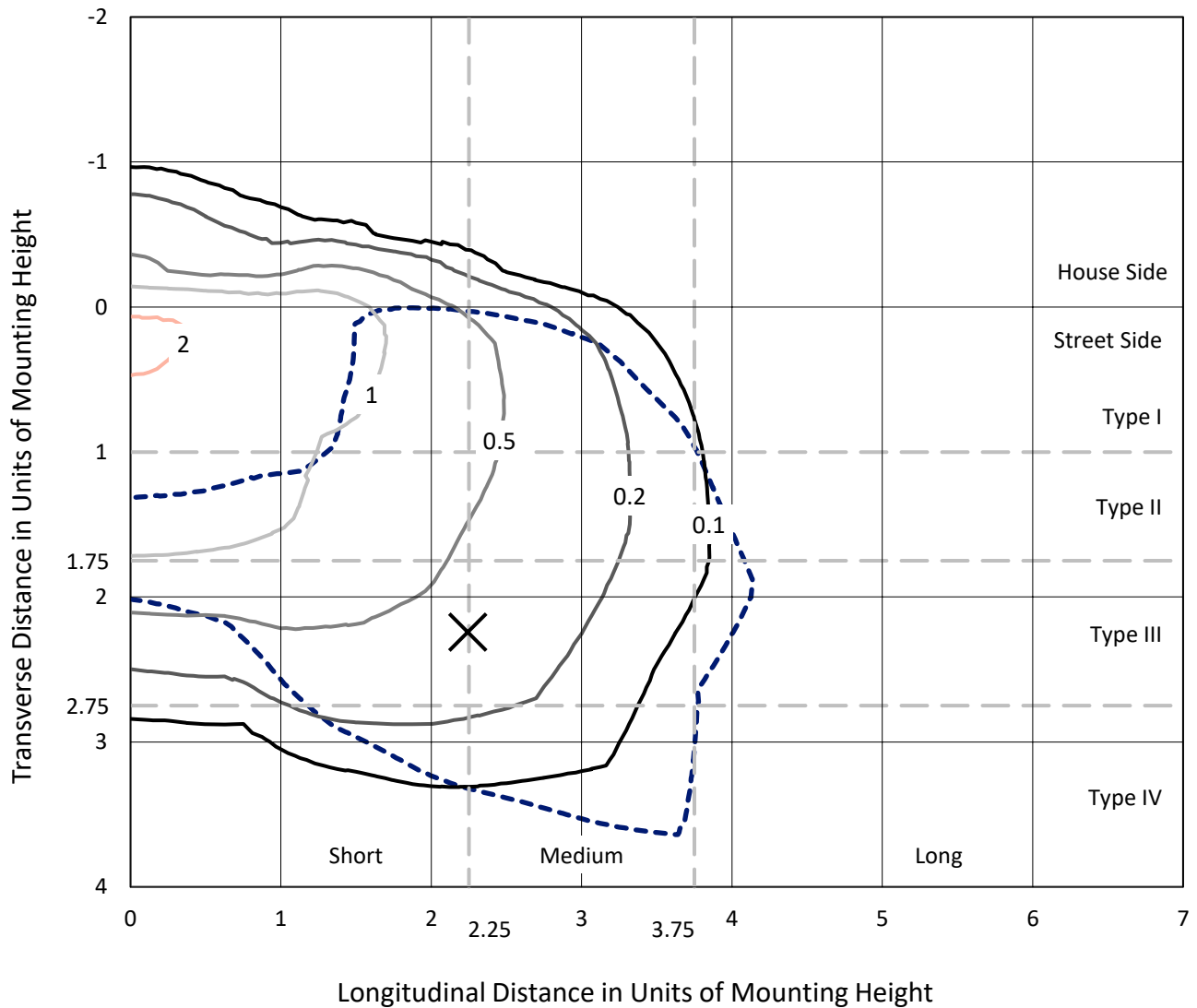
Lumens per Lamp: N/A  
Luminaire Lumens: 10035 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

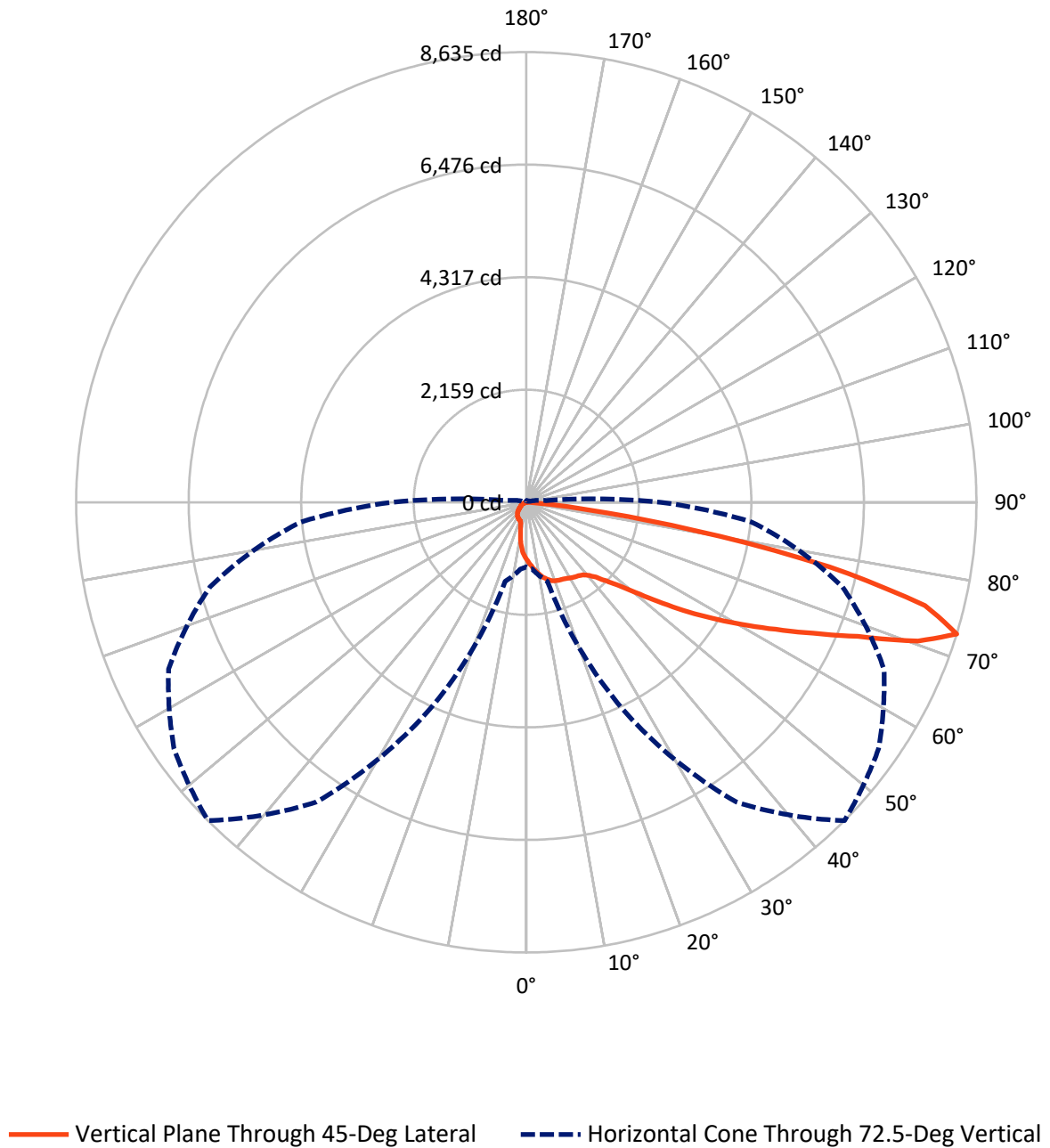
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1054.4	0.0	1054.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8980.6	0.0	8980.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	10035.0	0.0	10035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	1.0
10°-20°	302.7	3.0
20°-30°	497.1	5.0
30°-40°	705.0	7.0
40°-50°	1165.3	11.6
50°-60°	2093.4	20.9
60°-70°	2906.8	29.0
70°-80°	2108.5	21.0
80°-90°	152.4	1.5
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°	10035.0	100.0
0°-180°	10035.0	100.0

**Coefficient of Utilization**



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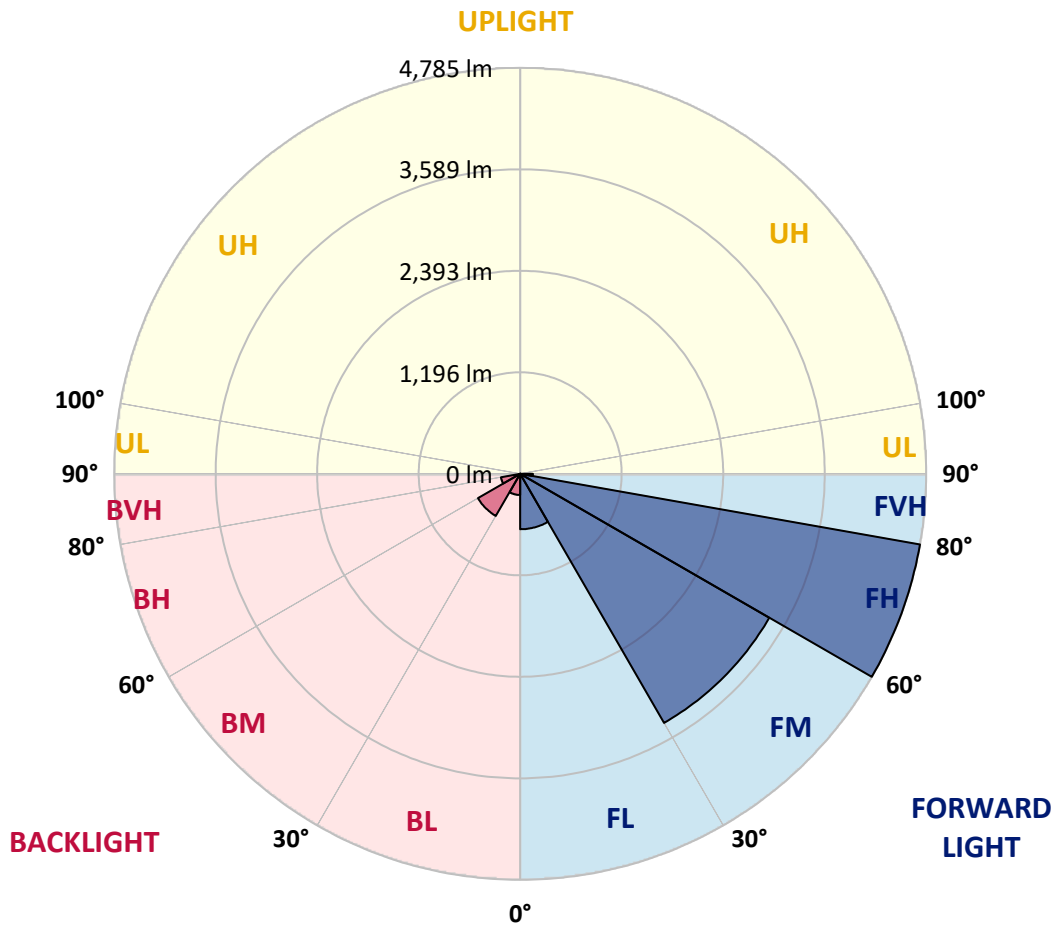
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.7	6.5			
FM (30°-60°)	3390.4	33.8			
FH (60°-80°)	4785.4	47.7			G2/5000
FVH (80°-90°)	151.2	1.5			G2/225
BL (0°-30°)	249.7	2.5	B1/500		
BM (30°-60°)	573.4	5.7	B1/1000		
BH (60°-80°)	229.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4
2.5°	1200.7	1202.8	1201.4	1193.2	1179.5	1172.0	1167.9	1154.2	1145.2	1129.5
5°	1311.0	1319.2	1314.4	1298.0	1272.0	1253.5	1248.0	1219.9	1194.6	1165.1
7.5°	1428.1	1432.2	1423.3	1402.1	1367.2	1335.7	1330.9	1291.8	1251.4	1206.2
10°	1529.5	1534.3	1520.6	1489.8	1450.1	1411.0	1404.2	1361.0	1313.1	1257.6
12.5°	1614.4	1619.2	1601.4	1564.4	1520.6	1480.2	1473.3	1428.1	1375.4	1313.7
15°	1678.8	1687.7	1663.8	1624.0	1576.8	1536.4	1532.9	1488.4	1437.0	1368.5
17.5°	1716.5	1725.4	1702.8	1654.9	1614.4	1580.2	1576.1	1539.1	1491.2	1425.4
20°	1722.7	1730.9	1706.9	1665.1	1631.6	1604.2	1602.1	1575.4	1540.5	1477.5
22.5°	1704.2	1714.4	1692.5	1659.0	1635.7	1621.3	1618.6	1603.5	1583.6	1530.2
25°	1685.0	1693.2	1676.8	1647.3	1635.0	1633.6	1635.7	1632.9	1628.8	1583.6
27.5°	1683.6	1692.5	1674.0	1646.0	1639.1	1653.5	1655.5	1668.6	1672.0	1632.3
30°	1695.3	1701.4	1683.6	1654.2	1650.7	1683.6	1684.3	1707.6	1713.1	1673.3
32.5°	1720.6	1727.5	1709.7	1666.5	1661.7	1707.6	1709.7	1740.5	1749.4	1717.2
35°	1780.2	1788.4	1767.9	1700.7	1683.6	1730.2	1736.4	1772.7	1790.5	1763.8
37.5°	1928.8	1904.9	1876.8	1769.9	1733.6	1765.8	1776.1	1818.6	1850.1	1819.2
40°	2298.0	2222.7	2135.0	1887.7	1821.3	1841.8	1850.1	1892.5	1935.7	1905.5
42.5°	2852.2	2763.1	2622.0	2159.0	1953.5	1963.8	1969.9	2006.9	2067.9	2043.9
45°	3346.0	3313.8	3170.0	2622.0	2200.8	2150.1	2157.6	2176.8	2266.5	2257.6
47.5°	3725.5	3707.0	3596.0	3153.5	2618.6	2378.2	2399.4	2408.3	2537.8	2569.3
50°	4017.3	4010.4	3911.1	3626.2	3164.5	2714.5	2722.0	2702.8	2896.7	2974.8
52.5°	4292.6	4315.9	4242.6	4065.2	3747.4	3154.9	3153.5	3063.1	3324.8	3442.6
55°	4541.3	4549.5	4557.0	4513.2	4333.7	3656.3	3643.3	3495.3	3821.4	3943.3
57.5°	4774.8	4778.3	4845.4	4935.1	4944.0	4194.7	4170.7	3993.3	4363.9	4450.8
60°	4931.7	4947.4	5089.2	5338.6	5447.5	4750.2	4737.2	4556.3	4915.9	4956.3
62.5°	4705.7	4801.5	5159.1	5653.6	5922.8	5366.0	5359.8	5189.9	5496.8	5463.9
65°	3809.0	3971.4	4600.2	5866.7	6389.3	6053.6	6062.6	5881.7	6093.4	5986.5
67.5°	2664.5	2835.7	3579.6	5883.8	6910.5	6861.2	6912.6	6629.0	6727.0	6487.2
70°	1842.5	1930.9	2415.2	5515.3	7316.7	7973.6	7972.2	7546.9	7357.1	6715.3
72.5°	1239.1	1285.0	1568.6	4375.5	7018.1	8634.6	8594.8	8248.2	7569.5	6280.4
75°	522.6	556.2	726.1	2459.0	5552.3	7899.6	7792.1	7289.3	6725.6	4945.4
77.5°	165.8	180.1	286.3	880.2	3058.3	5937.9	5824.2	4552.2	4507.7	2480.9
80°	78.8	91.8	161.0	353.4	1203.5	3229.6	3213.8	2065.1	1939.1	669.9
82.5°	34.2	40.4	89.0	189.0	538.4	1152.1	1175.4	702.8	581.5	254.1
85°	11.0	14.4	41.1	87.0	227.4	286.3	282.9	167.1	234.3	138.4
87.5°	0.0	0.0	13.7	19.9	23.3	16.4	18.5	14.4	65.1	38.4
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°
1099.4	0°	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4	1099.4
1113.1	2.5°	1104.8	1093.9	1074.7	1056.9	1041.1	1025.4	1015.8	1002.1	1000.7	1000.7
1130.9	5°	1112.4	1094.6	1060.3	1024.0	982.2	942.5	902.8	864.4	852.1	843.2
1159.6	7.5°	1134.3	1106.2	1052.1	982.9	903.5	816.5	755.5	689.8	664.4	650.7
1198.0	10°	1165.8	1127.4	1045.2	924.0	795.2	676.7	589.7	518.5	491.1	479.5
1239.8	12.5°	1200.7	1153.5	1032.9	850.7	676.7	535.0	450.0	417.1	413.0	413.0
1289.8	15°	1242.5	1185.0	1011.7	764.4	552.8	423.3	393.2	394.5	398.6	401.4
1338.4	17.5°	1285.7	1218.5	978.1	667.8	443.2	380.8	381.5	383.6	387.0	389.7
1391.1	20°	1332.2	1252.1	933.6	565.1	380.2	368.5	370.6	372.6	375.4	376.7
1440.5	22.5°	1382.2	1283.6	880.9	464.4	358.9	358.2	358.9	361.0	364.4	364.4
1498.0	25°	1435.7	1318.5	820.6	391.1	348.0	348.0	349.3	350.7	353.4	353.4
1553.5	27.5°	1490.5	1350.7	756.9	352.8	338.4	337.7	337.7	339.7	341.1	341.8
1608.3	30°	1550.7	1388.4	693.2	344.5	330.8	327.4	325.4	326.7	328.1	328.8
1665.8	32.5°	1612.4	1424.7	636.3	348.0	323.3	317.1	310.3	308.9	308.9	311.7
1725.4	35°	1680.9	1464.4	592.5	359.6	319.2	302.1	291.1	284.9	285.6	289.7
1796.6	37.5°	1763.1	1512.4	560.3	369.9	316.5	284.9	267.1	259.6	254.8	259.6
1894.6	40°	1870.6	1582.9	537.0	378.1	313.0	265.1	241.1	228.8	219.9	222.6
2046.7	42.5°	2028.8	1693.9	528.1	378.8	305.5	241.8	214.4	198.0	184.9	185.6
2275.4	45°	2250.8	1869.2	574.0	369.9	289.1	216.4	186.3	164.4	156.2	154.1
2617.2	47.5°	2554.9	2124.7	680.2	351.4	265.1	191.8	158.9	140.4	134.3	130.8
3065.9	50°	2962.4	2452.8	798.0	330.8	241.1	168.5	136.3	124.7	120.6	117.1
3598.1	52.5°	3435.1	2785.7	894.6	310.3	217.1	148.0	121.9	115.1	111.6	108.9
4111.8	55°	3868.6	3015.2	889.1	288.4	193.8	131.5	111.6	107.5	103.4	100.7
4554.3	57.5°	4138.5	3047.4	732.9	264.4	167.1	118.5	102.1	99.3	94.5	91.1
4937.2	60°	4262.5	2863.8	513.7	232.9	140.4	106.2	91.8	90.4	84.2	79.5
5299.5	62.5°	4285.1	2522.7	342.5	193.8	117.1	94.5	81.5	79.5	71.2	63.0
5594.0	65°	4193.3	2035.0	237.0	151.4	100.0	82.2	69.9	65.8	56.9	48.6
5663.9	67.5°	3902.9	1428.8	165.1	108.9	84.9	65.1	55.5	54.1	47.3	40.4
5307.7	70°	3370.7	814.4	110.3	81.5	67.1	44.5	43.8	45.2	38.4	32.9
4336.5	72.5°	2584.3	372.6	68.5	59.6	45.9	30.1	34.9	35.6	29.5	24.7
2705.6	75°	1521.3	159.6	43.2	38.4	23.3	19.9	25.3	26.0	19.9	15.8
989.1	77.5°	517.8	60.3	27.4	22.6	11.6	11.0	16.4	16.4	11.0	6.2
198.6	80°	117.8	22.6	13.7	8.9	5.5	4.8	5.5	4.8	2.7	0.7
61.0	82.5°	33.6	8.9	5.5	3.4	2.1	2.1	0.7	0.0	0.0	0.0
21.2	85°	9.6	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	4.1	0.7	0.0	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>
1099.4
1004.1
847.3
652.8
479.5
413.0
401.4
389.7
377.4
365.8
354.1
342.5
330.1
313.7
291.8
258.2
221.2
182.9
151.4
128.8
116.4
108.2
99.3
90.4
78.1
58.9
45.9
38.4
30.1
21.9
13.7
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