

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: P947533

Luminaire Tested: **GALN-SB2D-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14426 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

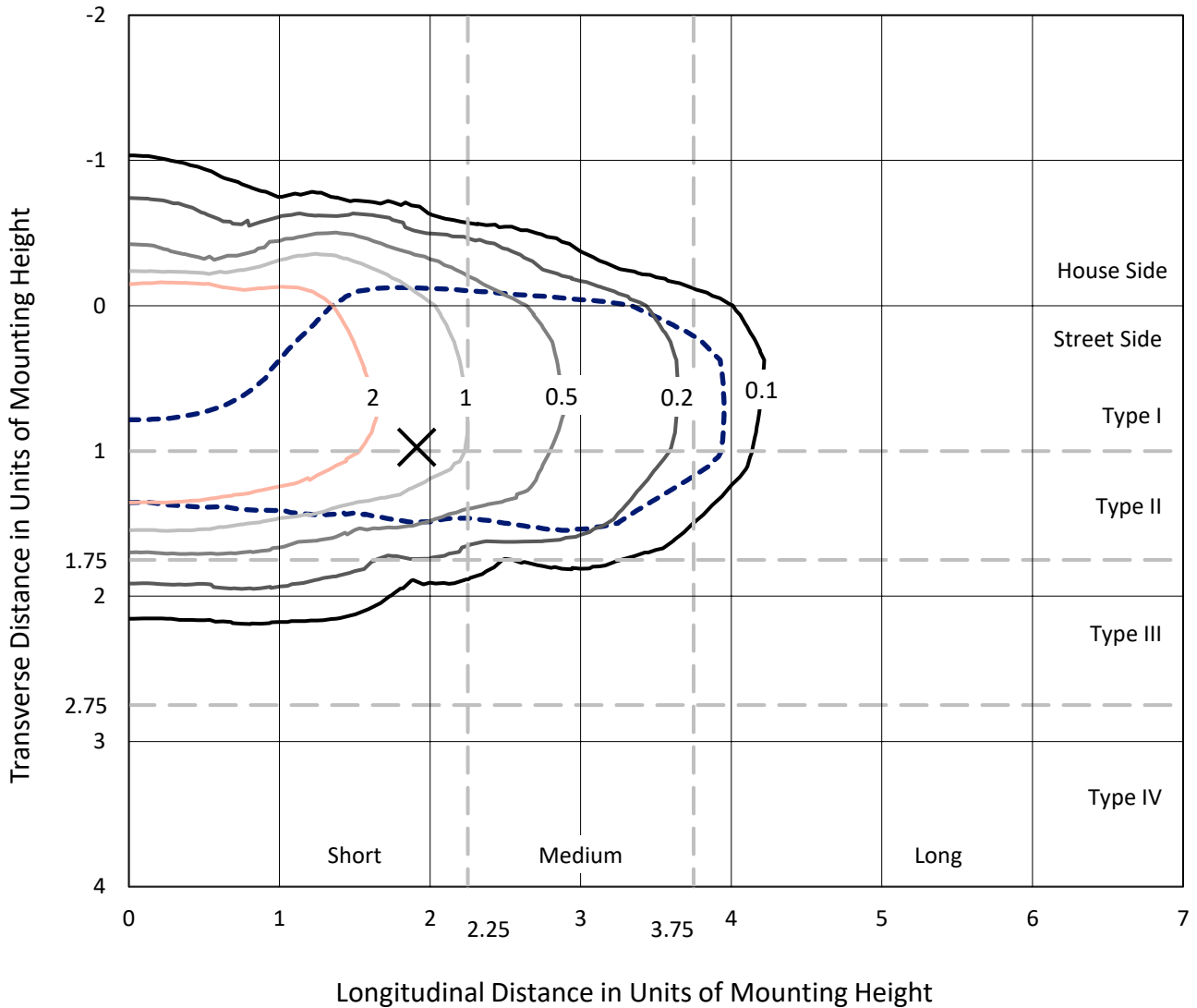
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

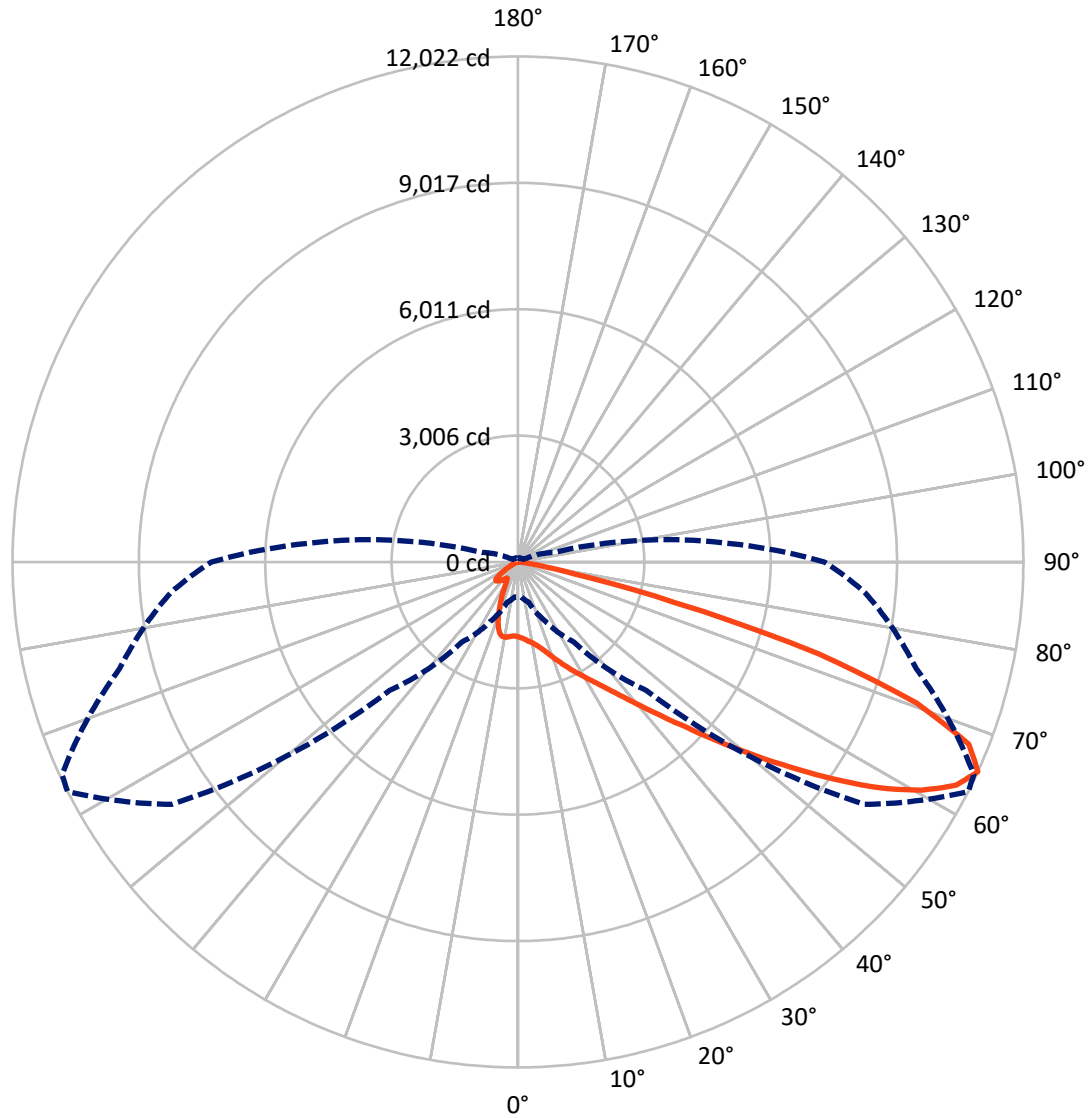
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2120.5	0.0	2120.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12305.5	0.0	12305.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	14426.0	0.0	14426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.2
10°-20°	465.5	3.2
20°-30°	810.5	5.6
30°-40°	1460.8	10.1
40°-50°	2897.2	20.1
50°-60°	3946.4	27.4
60°-70°	3150.0	21.8
70°-80°	1425.5	9.9
80°-90°	102.5	0.7
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°	14426.0	100.0
0°-180°	14426.0	100.0

Coefficient of Utilization



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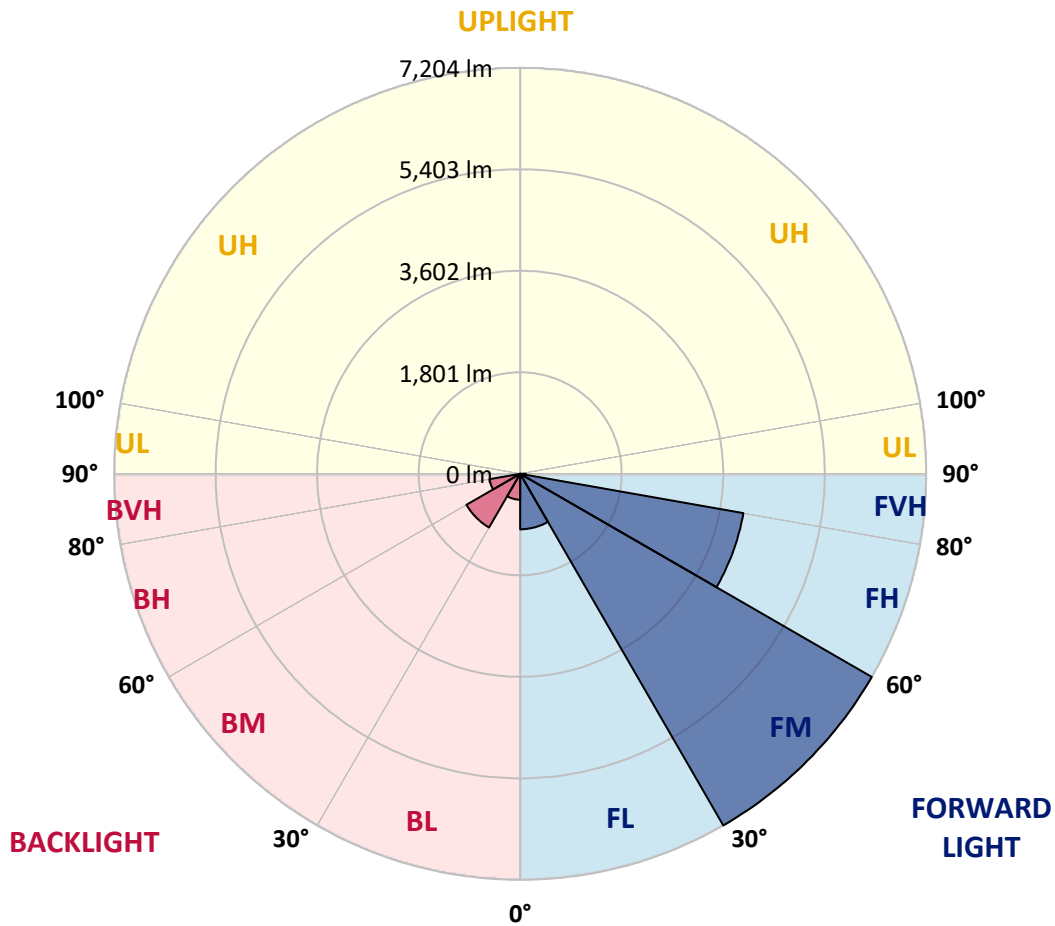
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.8	6.8			
FM (30°-60°)	7204.0	49.9			
FH (60°-80°)	4021.9	27.9			G2/5000
FVH (80°-90°)	94.9	0.7			G1/100
BL (0°-30°)	458.9	3.2	B1/500		
BM (30°-60°)	1100.4	7.6	B2/2500		
BH (60°-80°)	553.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1822.1	1817.2	1824.1	1821.1	1819.1	1815.2	1813.2	1811.2	1807.2	1804.3
5°	1827.1	1824.1	1831.1	1837.0	1843.0	1848.9	1851.9	1855.9	1851.9	1844.0
7.5°	1785.4	1783.4	1798.3	1816.2	1843.0	1865.8	1890.6	1904.5	1905.5	1902.5
10°	1782.4	1777.5	1792.4	1814.2	1848.9	1889.6	1933.3	1963.1	1967.0	1979.9
12.5°	1829.1	1824.1	1844.9	1868.8	1904.5	1947.2	2000.8	2042.4	2048.4	2066.3
15°	1907.5	1900.5	1924.3	1955.1	2000.8	2049.4	2106.0	2143.7	2148.6	2170.5
17.5°	1998.8	1991.8	2019.6	2052.4	2102.0	2168.5	2234.0	2275.7	2281.6	2295.5
20°	2115.9	2107.0	2128.8	2158.6	2211.2	2290.6	2369.0	2428.5	2427.5	2427.5
22.5°	2251.9	2238.0	2256.8	2280.6	2330.3	2426.5	2530.7	2601.2	2601.2	2573.4
25°	2397.7	2383.8	2404.7	2426.5	2470.2	2579.4	2701.4	2788.8	2792.7	2745.1
27.5°	2580.3	2562.5	2578.4	2604.2	2630.0	2741.1	2886.0	2987.3	2989.2	2915.8
30°	2931.7	2881.1	2831.4	2803.6	2815.6	2925.7	3080.5	3192.7	3202.6	3101.4
32.5°	3574.8	3564.9	3390.2	3161.9	3042.8	3124.2	3297.9	3432.9	3438.8	3308.8
35°	4574.2	4562.3	4281.4	3846.7	3458.7	3390.2	3561.9	3721.7	3717.7	3570.8
37.5°	5767.1	5756.2	5386.0	4804.4	4176.2	3792.1	3902.3	4070.0	4094.8	3902.3
40°	6786.3	6745.6	6511.4	5950.7	5128.9	4459.0	4386.6	4497.7	4523.6	4295.3
42.5°	7558.4	7523.7	7404.6	7054.3	6282.2	5445.5	4957.2	4999.9	5028.7	4754.8
45°	7958.4	7950.5	7998.1	7965.3	7457.2	6656.3	5773.0	5595.4	5606.3	5263.9
47.5°	8015.0	8011.0	8228.3	8536.0	8467.5	8021.9	6820.1	6337.7	6299.0	5838.5
50°	7681.5	7673.6	8090.4	8667.0	9142.4	9169.2	8009.0	7174.4	7089.0	6433.0
52.5°	6616.6	6614.6	7299.4	8259.1	9379.6	10173.5	9184.1	8093.4	7950.5	7062.2
55°	5091.2	5127.9	5913.0	7047.3	8946.9	10656.8	10239.0	9113.6	8894.3	7695.4
57.5°	3606.5	3660.1	4436.2	5446.5	7605.1	10371.0	10952.6	10135.8	9899.6	8326.6
60°	1937.2	1984.9	2762.0	3967.8	5657.9	9305.1	11328.7	11023.1	10799.8	8926.0
62.5°	1154.2	1170.1	1491.6	2561.5	3826.9	7108.9	11168.9	11698.9	11515.3	9429.2
65°	828.7	831.7	993.4	1564.1	2323.3	4319.1	10048.5	12022.4	11965.9	9808.3
67.5°	697.7	695.7	763.2	1039.1	1582.9	2163.5	7701.4	11564.9	11805.1	10048.5
70°	598.4	601.4	680.8	761.2	1189.9	1224.7	3828.8	10069.3	10581.4	10112.0
72.5°	445.6	455.5	529.0	693.7	898.2	842.6	1321.9	7466.1	8392.1	9527.4
75°	314.6	319.6	372.2	583.6	669.9	613.3	674.9	3859.6	5046.6	7304.4
77.5°	242.2	251.1	281.9	407.9	660.0	430.7	412.9	1335.8	2052.4	4412.4
80°	131.0	146.9	203.5	294.8	463.5	304.7	204.4	531.9	695.7	2063.3
82.5°	67.5	75.4	141.9	212.4	264.0	266.0	101.2	221.3	286.8	637.1
85°	26.8	32.8	95.3	117.1	136.0	131.0	45.7	89.3	103.2	176.7
87.5°	6.0	9.9	34.7	26.8	25.8	27.8	10.9	20.8	19.8	20.8
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°
1780.4	0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
1792.4	2.5°	1791.4	1787.4	1776.5	1764.6	1750.7	1742.7	1737.8	1736.8	1729.8	1724.9
1832.0	5°	1821.1	1817.2	1796.3	1771.5	1744.7	1723.9	1704.0	1686.2	1660.4	1655.4
1889.6	7.5°	1880.7	1869.8	1836.0	1802.3	1751.7	1691.1	1617.7	1533.3	1457.9	1435.1
1966.0	10°	1954.1	1939.2	1896.6	1837.0	1724.9	1560.1	1382.5	1217.7	1086.7	1050.0
2056.3	12.5°	2037.5	2024.6	1968.0	1857.9	1612.7	1314.0	1042.1	837.6	710.6	678.8
2152.6	15°	2136.7	2117.9	2039.5	1826.1	1412.2	998.4	715.6	594.5	548.8	542.9
2262.8	17.5°	2241.9	2211.2	2103.0	1712.0	1142.3	709.6	552.8	518.1	498.2	492.3
2373.9	20°	2338.2	2298.5	2140.7	1539.3	853.5	552.8	495.2	472.4	454.5	447.6
2485.1	22.5°	2434.5	2377.9	2140.7	1304.1	640.1	490.3	454.5	433.7	412.9	403.9
2604.2	25°	2534.7	2459.3	2103.0	1042.1	515.1	449.6	415.8	393.0	375.1	364.2
2717.3	27.5°	2632.0	2527.7	2016.6	794.0	458.5	413.8	380.1	358.3	341.4	333.5
2840.4	30°	2724.3	2595.2	1895.6	602.4	421.8	379.1	347.4	328.5	311.6	303.7
3000.2	32.5°	2849.3	2680.6	1766.5	494.2	390.0	346.4	317.6	299.7	284.8	278.9
3207.6	35°	3023.0	2806.6	1655.4	485.3	363.2	319.6	290.8	273.9	259.0	254.1
3475.5	37.5°	3269.1	3010.1	1596.8	544.9	341.4	295.7	269.0	251.1	237.2	233.2
3815.9	40°	3572.8	3286.0	1628.6	604.4	326.5	274.9	249.1	231.2	219.3	214.4
4207.0	42.5°	3933.0	3626.4	1804.3	650.0	316.6	257.0	230.2	210.4	202.5	200.5
4650.6	45°	4346.9	4000.5	2073.2	698.7	300.7	240.2	211.4	196.5	190.5	189.6
5132.9	47.5°	4817.3	4411.4	2384.8	759.2	284.8	224.3	196.5	186.6	181.6	179.6
5636.1	50°	5283.8	4825.3	2705.4	793.0	271.9	209.4	184.6	176.7	172.7	171.7
6168.0	52.5°	5772.0	5251.0	2964.4	761.2	261.0	197.5	174.7	168.7	164.7	163.8
6658.3	55°	6237.5	5595.4	3009.1	646.1	239.2	185.6	163.8	160.8	155.8	155.8
7155.5	57.5°	6638.4	5768.1	2693.5	474.4	217.3	167.7	152.8	149.9	145.9	144.9
7604.1	60°	7006.6	5718.5	2079.2	319.6	193.5	149.9	138.9	137.0	133.0	128.0
7994.1	62.5°	7214.1	5500.1	1422.2	208.4	169.7	131.0	123.1	122.1	113.1	103.2
8282.9	65°	7292.5	5051.5	887.2	151.8	141.9	112.1	106.2	104.2	91.3	80.4
8446.7	67.5°	7224.0	4313.2	447.6	120.1	112.1	93.3	87.3	87.3	78.4	68.5
8436.7	70°	6950.1	3233.4	188.6	96.3	86.3	71.5	71.5	75.4	66.5	55.6
7999.1	72.5°	6355.6	2175.4	100.2	73.4	64.5	50.6	58.6	61.5	52.6	41.7
6547.1	75°	5052.5	1326.9	69.5	54.6	40.7	35.7	44.7	46.6	35.7	27.8
4488.8	77.5°	3455.7	762.2	46.6	34.7	25.8	20.8	30.8	28.8	18.9	12.9
1730.8	80°	1517.4	317.6	26.8	15.9	9.9	7.9	10.9	7.9	6.0	4.0
237.2	82.5°	177.6	74.4	9.9	6.0	4.0	2.0	1.0	0.0	0.0	0.0
72.4	85°	36.7	8.9	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
12.9	87.5°	6.9	2.0	1.0	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

180°
1780.4
1729.8
1653.4
1424.2
1036.1
669.9
536.9
489.3
443.6
399.0
360.3
333.5
304.7
278.9
254.1
232.2
213.4
200.5
188.6
179.6
171.7
163.8
154.8
143.9
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