

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: P940064

Luminaire Tested: **GALN-SB2D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10338 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

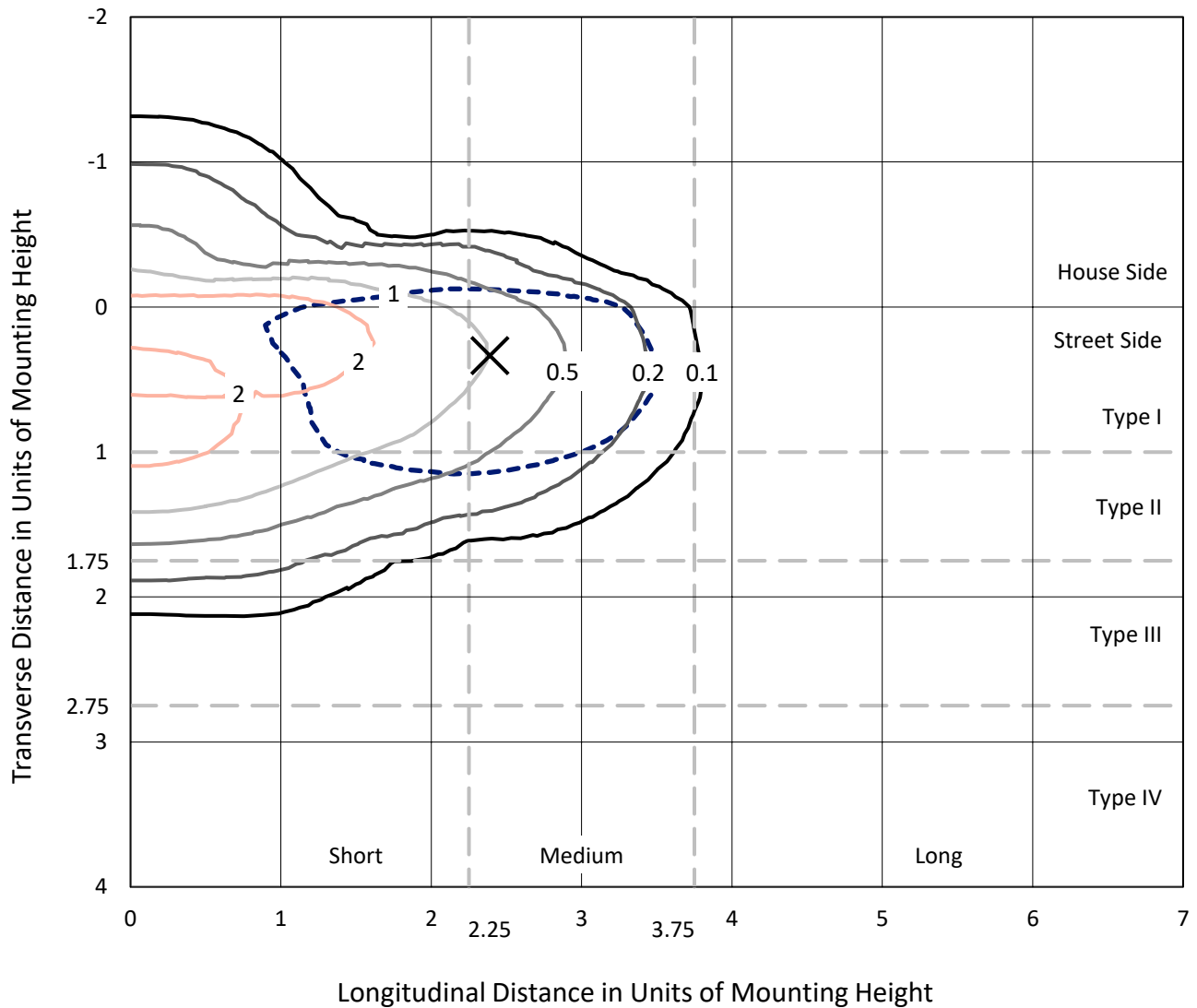
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

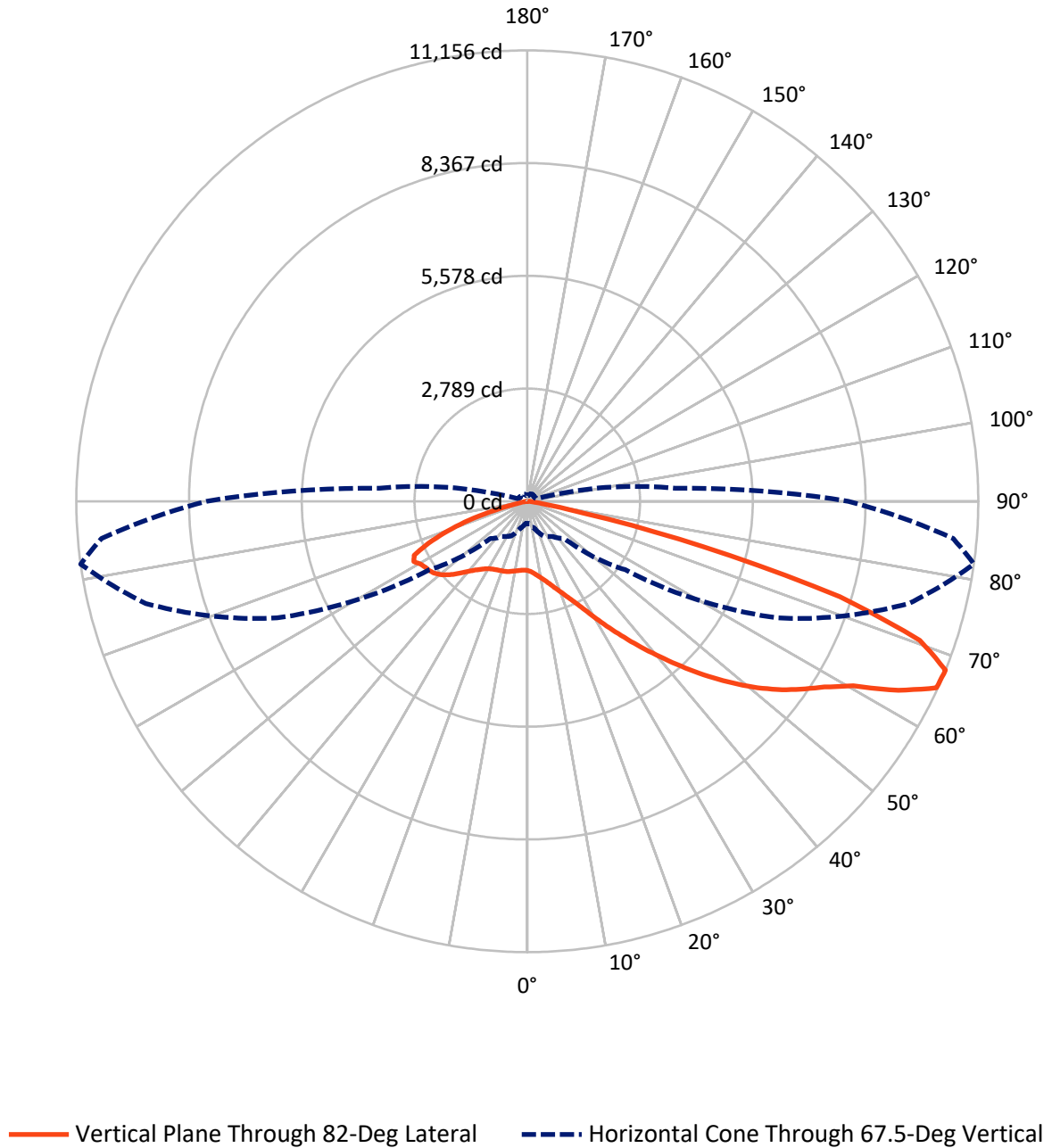
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1872.6	0.0	1872.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8465.4	0.0	8465.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	10338.0	0.0	10338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.5
10°-20°	396.5	3.8
20°-30°	635.1	6.1
30°-40°	1123.0	10.9
40°-50°	1967.6	19.0
50°-60°	2624.3	25.4
60°-70°	2443.1	23.6
70°-80°	937.6	9.1
80°-90°	58.2	0.6
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°	10338.0	100.0
0°-180°	10338.0	100.0

Coefficient of Utilization



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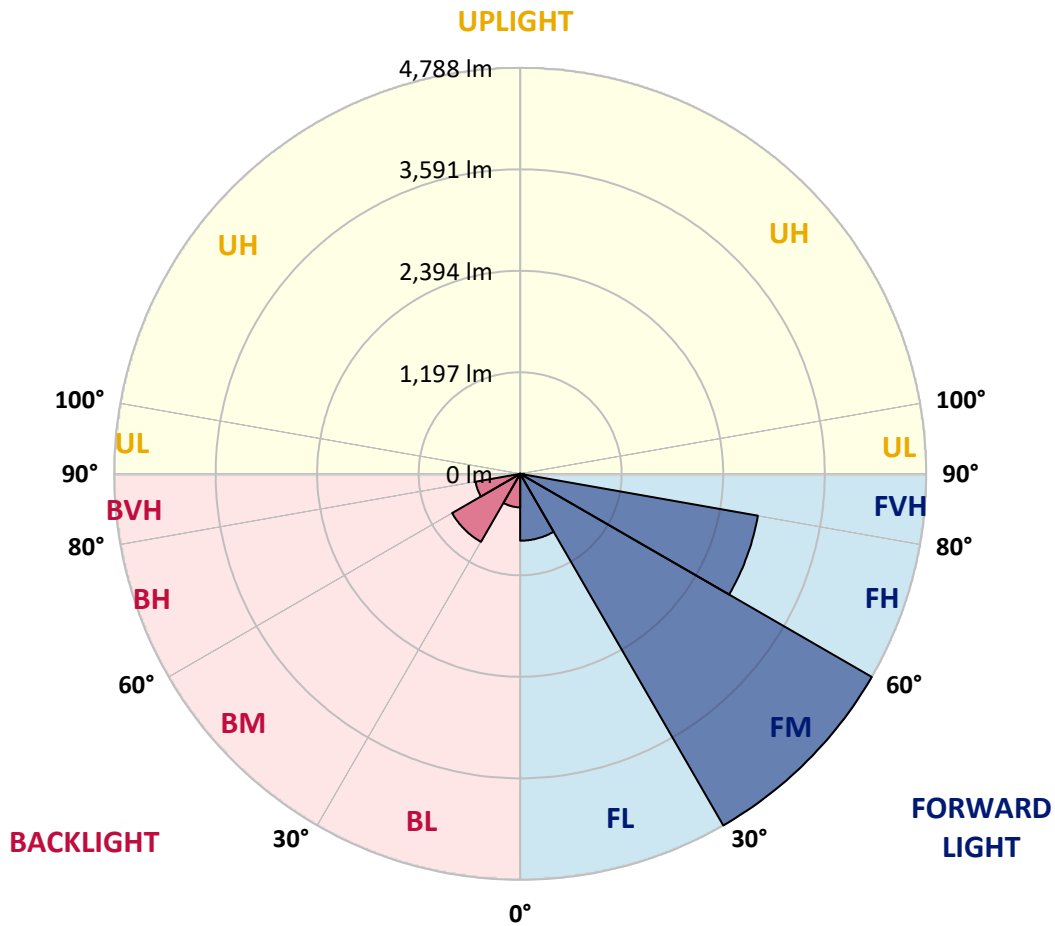
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.7	7.6			
FM	(30°-60°)	4788.1	46.3			
FH	(60°-80°)	2846.2	27.5			G2/5000
FVH	(80°-90°)	42.3	0.4			G1/100
BL	(0°-30°)	395.5	3.8	B1/500		
BM	(30°-60°)	926.8	9.0	B1/1000		
BH	(60°-80°)	534.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	15.9	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7
2.5°	1810.2	1820.6	1814.6	1811.6	1806.4	1799.0	1793.0	1774.4	1755.1	1742.4
5°	1846.6	1857.1	1856.3	1859.3	1863.0	1865.2	1863.8	1842.9	1815.4	1793.8
7.5°	1815.4	1827.3	1837.0	1851.8	1877.9	1905.4	1918.8	1914.4	1886.1	1856.3
10°	1726.8	1739.5	1762.5	1797.5	1852.6	1912.1	1962.0	1985.1	1967.2	1934.5
12.5°	1564.5	1577.2	1622.6	1698.5	1790.8	1894.3	1989.5	2051.3	2055.8	2023.0
15°	1382.2	1394.8	1443.2	1538.5	1679.2	1845.1	2004.4	2121.3	2160.7	2132.4
17.5°	1269.0	1280.2	1316.7	1393.3	1540.0	1746.9	1999.2	2195.7	2285.8	2263.4
20°	1234.8	1244.5	1261.6	1315.2	1437.3	1644.9	1965.0	2265.7	2420.5	2407.8
22.5°	1271.3	1280.2	1285.4	1309.2	1385.9	1577.9	1921.8	2337.1	2576.8	2578.3
25°	1355.4	1364.3	1358.4	1373.3	1406.7	1557.1	1905.4	2421.2	2773.3	2789.7
27.5°	1493.8	1494.6	1480.4	1479.7	1484.9	1588.4	1922.6	2511.3	3021.2	3051.7
30°	1771.5	1760.3	1706.0	1647.2	1620.4	1682.1	1970.2	2617.7	3313.7	3368.0
32.5°	2199.4	2183.1	2083.3	1942.6	1801.2	1833.2	2055.8	2739.1	3632.2	3730.5
35°	2663.9	2659.4	2555.2	2346.1	2099.0	2048.3	2195.0	2898.3	3979.8	4136.1
37.5°	3095.6	3093.4	3033.8	2787.4	2486.7	2348.3	2418.3	3106.7	4352.0	4578.2
40°	3490.1	3496.8	3437.2	3216.9	2914.0	2733.1	2721.9	3364.3	4765.8	5059.8
42.5°	3831.0	3838.4	3778.1	3615.1	3336.0	3158.9	3094.8	3679.9	5170.0	5577.1
45°	4062.4	4108.6	4099.7	3969.4	3769.2	3585.3	3542.9	4075.8	5630.7	6125.7
47.5°	4127.9	4170.4	4237.4	4255.2	4133.2	3952.3	4002.9	4552.9	6096.6	6675.0
50°	3966.4	4005.9	4145.1	4330.4	4415.2	4359.4	4450.2	5064.3	6573.7	7222.8
52.5°	3647.9	3688.1	3863.7	4157.0	4503.1	4678.7	4899.0	5568.2	7036.0	7741.6
55°	3187.1	3229.6	3455.1	3787.0	4335.6	4810.5	5273.4	6071.3	7459.5	8208.2
57.5°	2560.4	2591.7	2826.1	3290.6	3914.3	4679.5	5549.6	6620.6	7858.4	8666.7
60°	1668.7	1696.3	1968.7	2486.7	3216.2	4241.8	5604.7	7233.2	8388.4	9262.9
62.5°	1109.8	1128.4	1289.9	1670.2	2264.9	3401.5	5282.4	7722.2	9165.4	10300.5
65°	761.4	780.0	941.6	1206.5	1463.3	2250.0	4355.7	7657.5	9869.5	11124.5
67.5°	543.3	559.0	695.9	946.0	1059.2	1307.0	2952.7	6829.8	9768.3	11155.7
70°	389.3	398.2	511.3	736.9	841.8	785.2	1641.9	5223.6	8552.9	10301.2
72.5°	272.4	275.4	355.0	561.2	678.1	573.1	781.5	3482.6	6468.8	8085.4
75°	184.6	188.3	238.9	411.6	544.1	437.7	413.8	1867.5	3797.5	4475.5
77.5°	113.1	114.6	154.1	281.3	407.1	333.5	266.5	791.2	1469.3	1442.5
80°	64.0	64.0	98.2	174.9	277.6	215.1	186.8	336.4	465.2	408.6
82.5°	35.7	36.5	71.5	108.7	183.8	127.3	102.7	155.6	201.0	177.9
85°	14.9	16.4	43.9	51.4	87.8	63.3	41.7	65.5	74.4	66.2
87.5°	1.5	2.2	13.4	9.7	10.4	12.7	6.0	12.7	10.4	10.4
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°
1712.7	0°	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7
1738.0	2.5°	1723.8	1712.7	1684.4	1651.6	1608.5	1587.6	1559.3	1540.0	1523.6	1525.1
1781.1	5°	1757.3	1729.0	1665.8	1586.9	1488.6	1418.7	1344.2	1292.9	1251.2	1242.3
1840.7	7.5°	1803.5	1758.8	1647.9	1505.7	1339.8	1214.0	1101.6	1029.4	978.0	961.6
1912.9	10°	1863.0	1798.3	1624.8	1403.8	1164.8	1004.8	884.2	827.7	792.7	780.8
1997.7	12.5°	1932.2	1843.7	1594.3	1279.5	984.7	830.6	754.0	725.7	714.5	710.8
2101.9	15°	2019.3	1900.2	1548.2	1132.1	832.1	724.2	691.5	687.7	689.2	687.7
2227.0	17.5°	2122.8	1962.0	1473.0	980.3	729.4	669.9	658.0	660.9	664.7	663.9
2366.9	20°	2235.9	2023.0	1377.0	845.5	659.5	631.2	624.5	627.5	630.4	628.9
2528.4	22.5°	2364.7	2088.5	1270.5	740.6	612.6	595.4	588.0	588.7	588.7	585.8
2733.1	25°	2518.7	2160.7	1158.9	666.2	576.8	563.4	554.5	551.5	547.1	538.1
2981.7	27.5°	2702.6	2237.4	1051.7	614.1	548.6	535.9	525.5	518.0	506.9	492.0
3280.2	30°	2909.5	2330.4	960.9	581.3	526.2	513.6	501.7	490.5	474.1	455.5
3623.3	32.5°	3152.9	2430.2	894.7	559.7	506.1	492.7	478.6	465.2	447.3	428.7
4008.9	35°	3443.2	2550.7	856.0	544.8	490.5	472.6	457.0	442.1	428.7	412.3
4427.9	37.5°	3758.0	2678.8	844.0	537.4	480.1	452.5	434.7	424.3	422.8	413.1
4881.2	40°	4102.6	2830.6	853.0	532.9	468.9	433.2	413.8	411.6	415.3	398.2
5365.7	42.5°	4467.3	3010.7	867.9	527.7	453.3	413.8	395.2	395.2	392.3	368.4
5877.8	45°	4861.8	3218.4	882.8	515.1	434.7	394.5	380.3	375.1	362.5	339.4
6392.9	47.5°	5259.3	3429.8	893.9	492.0	412.3	378.1	365.5	353.5	334.9	314.1
6898.3	50°	5636.7	3619.6	882.0	457.8	387.0	362.5	349.1	332.7	312.6	298.5
7376.9	52.5°	5973.8	3784.1	831.4	417.6	360.2	346.1	334.2	317.1	300.7	285.8
7808.6	55°	6267.1	3917.3	742.1	379.6	336.4	332.0	320.1	298.5	276.1	263.5
8236.5	57.5°	6548.4	4018.5	630.4	348.3	314.8	316.3	298.5	279.1	258.3	244.9
8813.4	60°	6922.8	4154.0	517.3	319.3	291.8	296.2	276.9	262.7	236.7	219.6
9802.6	62.5°	7521.3	4364.6	410.9	283.6	265.0	266.5	258.3	241.2	209.9	189.8
10535.7	65°	7996.1	4287.2	323.8	244.9	234.5	236.7	236.7	218.1	184.6	161.5
10575.2	67.5°	7942.5	3670.9	258.3	206.9	205.4	206.9	212.1	196.5	163.7	145.1
9769.8	70°	7316.6	2919.9	206.9	171.9	178.6	174.9	189.8	179.4	147.4	128.8
7574.1	72.5°	5970.1	2103.4	157.8	142.2	137.0	142.9	171.2	161.5	122.8	102.0
4011.8	75°	3488.6	1122.4	117.6	112.4	99.0	119.1	151.8	137.7	93.8	75.2
1229.6	77.5°	1135.8	391.5	86.3	82.6	73.7	96.0	129.5	116.1	76.7	59.5
360.2	80°	304.4	118.3	58.8	54.3	47.6	71.5	102.7	92.3	55.1	38.7
154.8	82.5°	122.1	49.9	34.2	30.5	26.1	49.1	81.1	74.4	40.9	24.6
48.4	85°	39.4	16.4	12.7	9.7	11.9	30.5	48.4	50.6	29.0	12.7
7.4	87.5°	5.2	2.2	2.2	3.0	2.2	5.2	14.9	14.1	8.2	1.5
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°
1712.7
1510.2
1222.2
945.3
771.8
708.6
687.0
662.4
628.2
584.3
536.6
490.5
454.0
429.5
410.9
412.3
399.0
368.4
338.7
313.4
296.2
284.3
262.0
243.4
217.3
188.3
159.3
142.2
126.5
99.7
72.9
57.3
38.0
24.6
9.7
0.0
0.0

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