

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: P940834

Luminaire Tested: **GALN-SB4A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940834
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-SB4A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA 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: 11796 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

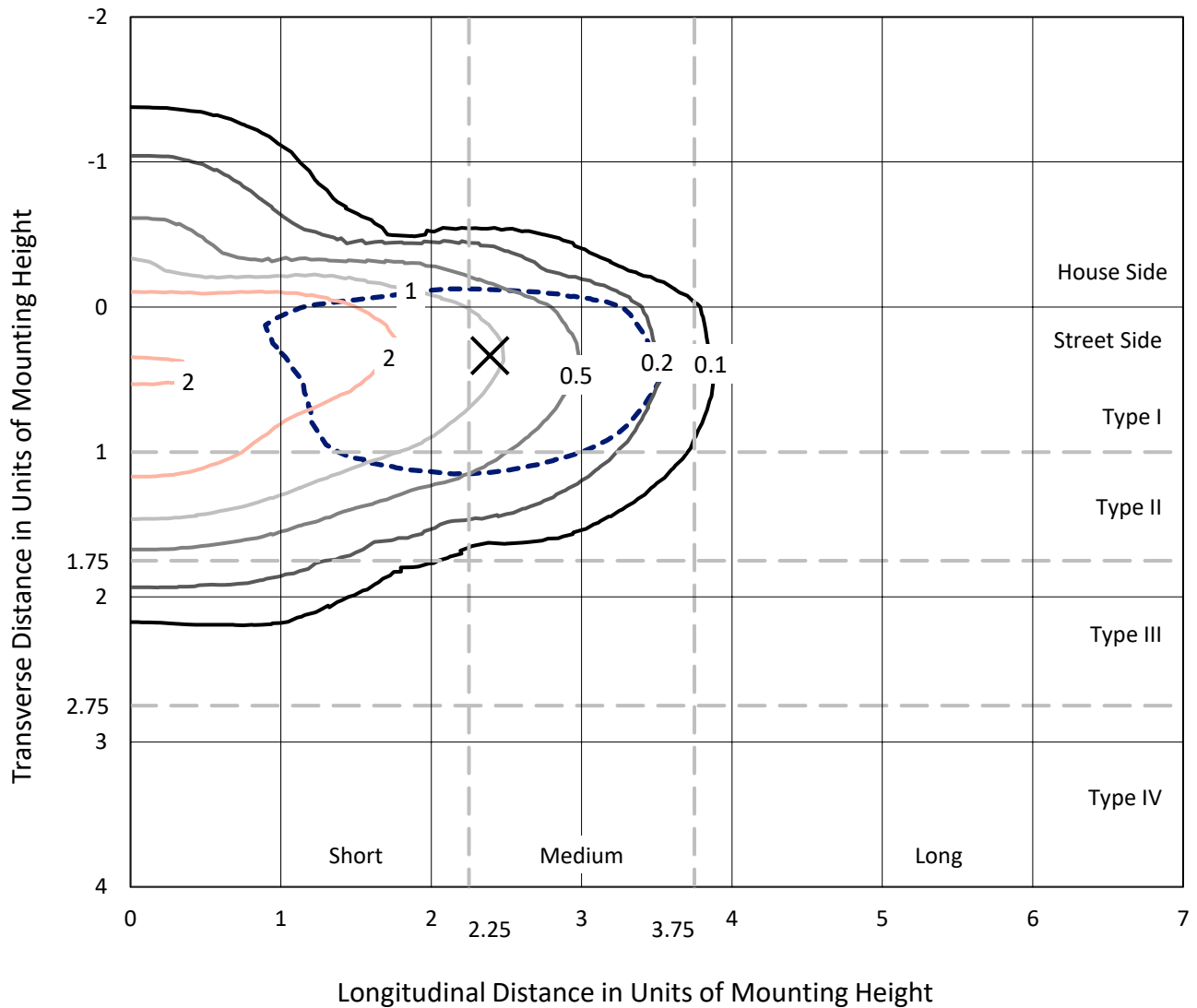
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

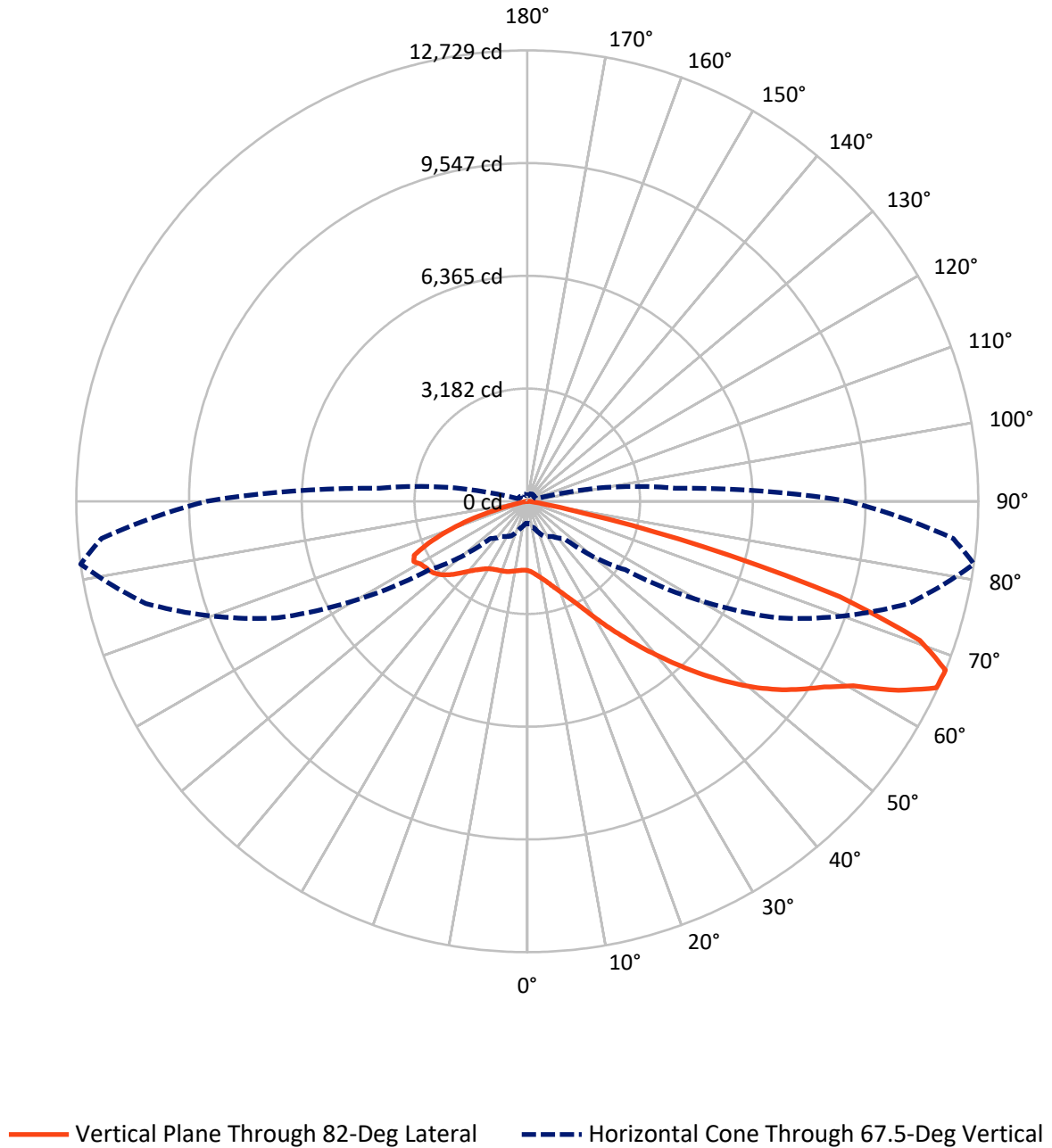
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2136.7	0.0	2136.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9659.3	0.0	9659.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	11796.0	0.0	11796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.5
10°-20°	452.4	3.8
20°-30°	724.6	6.1
30°-40°	1281.4	10.9
40°-50°	2245.1	19.0
50°-60°	2994.4	25.4
60°-70°	2787.6	23.6
70°-80°	1069.9	9.1
80°-90°	66.4	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°	11796.0	100.0
0°-180°	11796.0	100.0

Coefficient of Utilization



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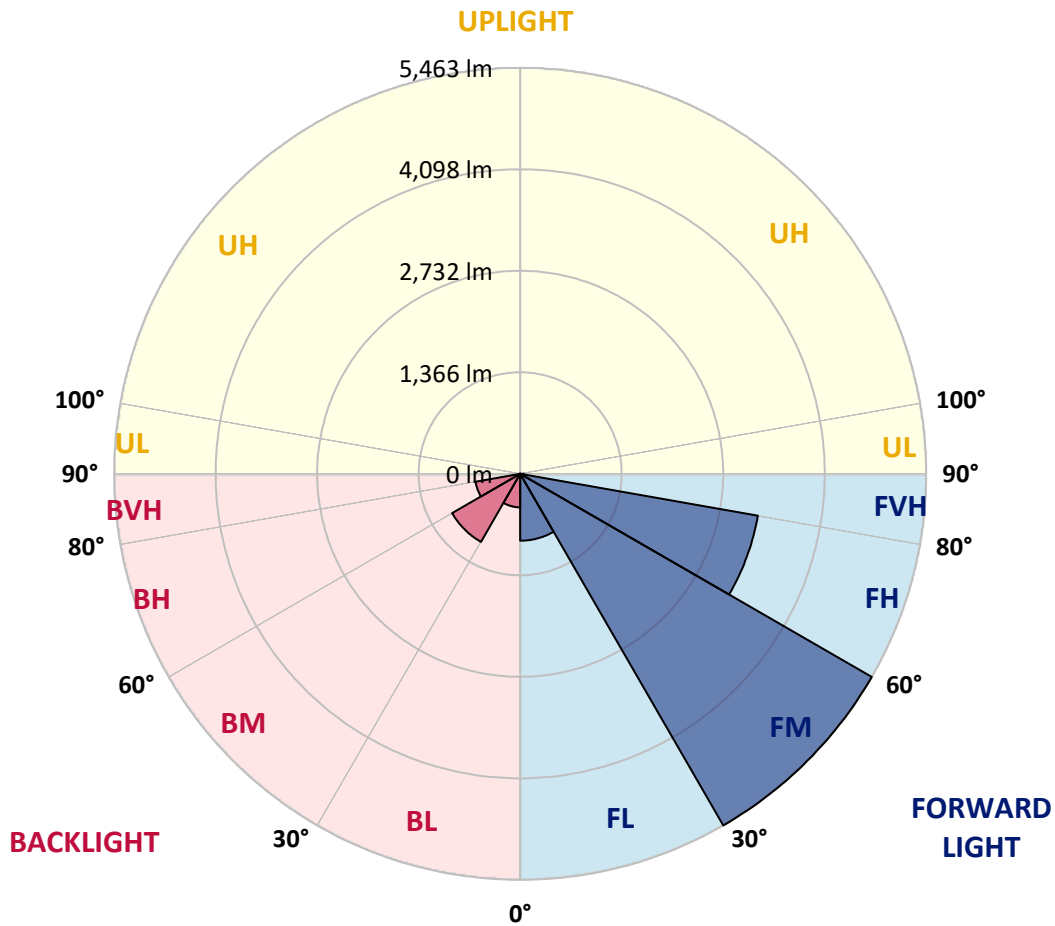
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.9	7.6			
FM (30°-60°)	5463.4	46.3			
FH (60°-80°)	3247.6	27.5			G2/5000
FVH (80°-90°)	48.3	0.4			G1/100
BL (0°-30°)	451.3	3.8	B1/500		
BM (30°-60°)	1057.5	9.0	B2/2500		
BH (60°-80°)	609.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	18.1	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°	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	2065.5	2077.3	2070.5	2067.2	2061.2	2052.7	2045.9	2024.7	2002.6	1988.2
5°	2107.1	2119.0	2118.1	2121.5	2125.8	2128.3	2126.6	2102.8	2071.4	2046.8
7.5°	2071.4	2085.0	2096.0	2113.0	2142.7	2174.2	2189.4	2184.4	2152.1	2118.1
10°	1970.3	1984.8	2011.1	2051.0	2113.9	2181.8	2238.7	2265.0	2244.7	2207.3
12.5°	1785.2	1799.6	1851.4	1938.1	2043.4	2161.4	2270.1	2340.6	2345.7	2308.3
15°	1577.1	1591.6	1646.8	1755.5	1916.0	2105.4	2287.1	2420.5	2465.5	2433.2
17.5°	1448.0	1460.8	1502.4	1589.9	1757.2	1993.3	2281.2	2505.4	2608.1	2582.7
20°	1409.0	1420.0	1439.5	1500.7	1640.0	1876.9	2242.1	2585.2	2761.9	2747.4
22.5°	1450.6	1460.8	1466.7	1493.9	1581.4	1800.5	2192.8	2666.7	2940.2	2941.9
25°	1546.5	1556.7	1549.9	1566.9	1605.1	1776.7	2174.2	2762.7	3164.4	3183.1
27.5°	1704.5	1705.4	1689.2	1688.4	1694.3	1812.4	2193.7	2865.5	3447.2	3482.1
30°	2021.3	2008.6	1946.6	1879.5	1848.9	1919.4	2248.0	2986.9	3781.0	3843.0
32.5°	2509.6	2490.9	2377.1	2216.6	2055.3	2091.8	2345.7	3125.4	4144.5	4256.6
35°	3039.6	3034.5	2915.6	2676.9	2395.0	2337.2	2504.5	3307.1	4541.1	4719.5
37.5°	3532.2	3529.6	3461.7	3180.6	2837.5	2679.5	2759.3	3544.9	4965.8	5223.9
40°	3982.3	3989.9	3922.0	3670.6	3324.9	3118.6	3105.8	3838.8	5438.0	5773.4
42.5°	4371.3	4379.7	4311.0	4125.0	3806.5	3604.4	3531.3	4198.9	5899.1	6363.7
45°	4635.4	4688.0	4677.8	4529.2	4300.8	4091.0	4042.6	4650.7	6424.8	6989.6
47.5°	4710.1	4758.5	4835.0	4855.3	4716.1	4509.7	4567.4	5195.1	6956.5	7616.4
50°	4525.8	4570.8	4729.7	4941.1	5037.9	4974.2	5077.9	5778.5	7500.9	8241.4
52.5°	4162.3	4208.2	4408.6	4743.2	5138.2	5338.6	5590.0	6353.5	8028.3	8833.4
55°	3636.6	3685.0	3942.4	4321.1	4947.1	5488.9	6017.2	6927.6	8511.5	9365.9
57.5°	2921.5	2957.2	3224.7	3754.7	4466.4	5339.4	6332.2	7554.4	8966.7	9889.0
60°	1904.1	1935.5	2246.4	2837.5	3669.7	4840.1	6395.1	8253.3	9571.4	10569.3
62.5°	1266.3	1287.5	1471.8	1905.8	2584.4	3881.2	6027.4	8811.3	10458.1	11753.2
65°	868.8	890.0	1074.3	1376.7	1669.7	2567.4	4970.0	8737.4	11261.5	12693.4
67.5°	620.0	637.8	794.1	1079.4	1208.5	1491.3	3369.1	7793.0	11146.0	12729.0
70°	444.2	454.4	583.5	840.8	960.5	896.0	1873.5	5960.3	9759.1	11754.1
72.5°	310.8	314.2	405.1	640.4	773.7	653.9	891.7	3973.8	7381.1	9225.8
75°	210.6	214.9	272.6	469.7	620.8	499.4	472.2	2130.8	4333.0	5106.7
77.5°	129.1	130.8	175.8	321.0	464.6	380.5	304.0	902.8	1676.5	1645.9
80°	73.0	73.0	112.1	199.6	316.8	245.4	213.2	383.9	530.8	466.3
82.5°	40.8	41.6	81.5	124.0	209.8	145.2	117.2	177.5	229.3	203.0
85°	17.0	18.7	50.1	58.6	100.2	72.2	47.6	74.7	84.9	75.6
87.5°	1.7	2.5	15.3	11.0	11.9	14.4	6.8	14.4	11.9	11.9
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°
1954.2	0°	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2
1983.1	2.5°	1966.9	1954.2	1921.9	1884.6	1835.3	1811.5	1779.2	1757.2	1738.5	1740.2
2032.3	5°	2005.2	1972.9	1900.7	1810.7	1698.6	1618.7	1533.8	1475.2	1427.6	1417.5
2100.3	7.5°	2057.8	2006.9	1880.3	1718.1	1528.7	1385.2	1256.9	1174.6	1116.0	1097.3
2182.7	10°	2125.8	2051.9	1854.0	1601.7	1329.1	1146.5	1008.9	944.4	904.5	890.9
2279.5	12.5°	2204.7	2103.7	1819.2	1459.9	1123.6	947.8	860.3	828.1	815.3	811.1
2398.4	15°	2304.1	2168.2	1766.5	1291.8	949.5	826.4	789.0	784.7	786.4	784.7
2541.1	17.5°	2422.2	2238.7	1680.7	1118.5	832.3	764.4	750.8	754.2	758.4	757.6
2700.7	20°	2551.2	2308.3	1571.2	964.8	752.5	720.2	712.5	715.9	719.3	717.6
2885.0	22.5°	2698.2	2383.1	1449.7	845.0	699.0	679.4	670.9	671.8	671.8	668.4
3118.6	25°	2874.0	2465.5	1322.3	760.1	658.2	642.9	632.7	629.3	624.2	614.0
3402.2	27.5°	3083.7	2552.9	1200.0	700.7	625.9	611.5	599.6	591.1	578.4	561.4
3742.8	30°	3319.8	2659.1	1096.4	663.3	600.4	586.0	572.4	559.7	541.0	519.8
4134.3	32.5°	3597.6	2772.9	1020.8	638.7	577.5	562.2	546.1	530.8	510.4	489.2
4574.2	35°	3928.8	2910.5	976.7	621.7	559.7	539.3	521.5	504.5	489.2	470.5
5052.4	37.5°	4288.0	3056.6	963.1	613.2	547.8	516.4	496.0	484.1	482.4	471.4
5569.6	40°	4681.2	3229.8	973.3	608.1	535.0	494.3	472.2	469.7	473.9	454.4
6122.5	42.5°	5097.4	3435.3	990.3	602.1	517.2	472.2	451.0	451.0	447.6	420.4
6706.8	45°	5547.5	3672.3	1007.2	587.7	496.0	450.1	434.0	428.0	413.6	387.3
7294.5	47.5°	6001.0	3913.5	1020.0	561.4	470.5	431.4	417.0	403.4	382.2	358.4
7871.1	50°	6431.6	4130.1	1006.4	522.3	441.6	413.6	398.3	379.6	356.7	340.6
8417.2	52.5°	6816.3	4317.7	948.6	476.4	411.1	394.9	381.3	361.8	343.1	326.1
8909.8	55°	7151.0	4469.8	846.7	433.1	383.9	378.8	365.2	340.6	315.1	300.6
9398.2	57.5°	7472.0	4585.3	719.3	397.5	359.2	360.9	340.6	318.5	294.7	279.4
10056.3	60°	7899.2	4739.8	590.3	364.3	332.9	338.0	315.9	299.8	270.1	250.5
11185.0	62.5°	8582.0	4980.2	468.8	323.6	302.3	304.0	294.7	275.2	239.5	216.6
12021.6	65°	9123.8	4891.9	369.4	279.4	267.5	270.1	270.1	248.8	210.6	184.3
12066.6	67.5°	9062.7	4188.7	294.7	236.1	234.4	236.1	242.0	224.2	186.8	165.6
11147.7	70°	8348.4	3331.7	236.1	196.2	203.8	199.6	216.6	204.7	168.2	146.9
8642.3	72.5°	6812.1	2400.1	180.0	162.2	156.3	163.1	195.3	184.3	140.1	116.4
4577.6	75°	3980.6	1280.7	134.2	128.2	113.0	135.9	173.3	157.1	107.0	85.8
1403.0	77.5°	1296.0	446.7	98.5	94.3	84.1	109.6	147.8	132.5	87.5	67.9
411.1	80°	347.4	135.0	67.1	62.0	54.4	81.5	117.2	105.3	62.8	44.2
176.7	82.5°	139.3	56.9	39.1	34.8	29.7	56.1	92.6	84.9	46.7	28.0
55.2	85°	45.0	18.7	14.4	11.0	13.6	34.8	55.2	57.8	33.1	14.4
8.5	87.5°	5.9	2.5	2.5	3.4	2.5	5.9	17.0	16.1	9.3	1.7
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>
1954.2
1723.2
1394.5
1078.6
880.7
808.5
783.9
755.9
716.8
666.7
612.3
559.7
518.1
490.0
468.8
470.5
455.2
420.4
386.4
357.5
338.0
324.4
298.9
277.7
248.0
214.9
181.7
162.2
144.4
113.8
83.2
65.4
43.3
28.0
11.0
0.0
0.0

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