

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: P949637

Luminaire Tested: **GALN-SB4B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949637
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-SB4B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA 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: 15116 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

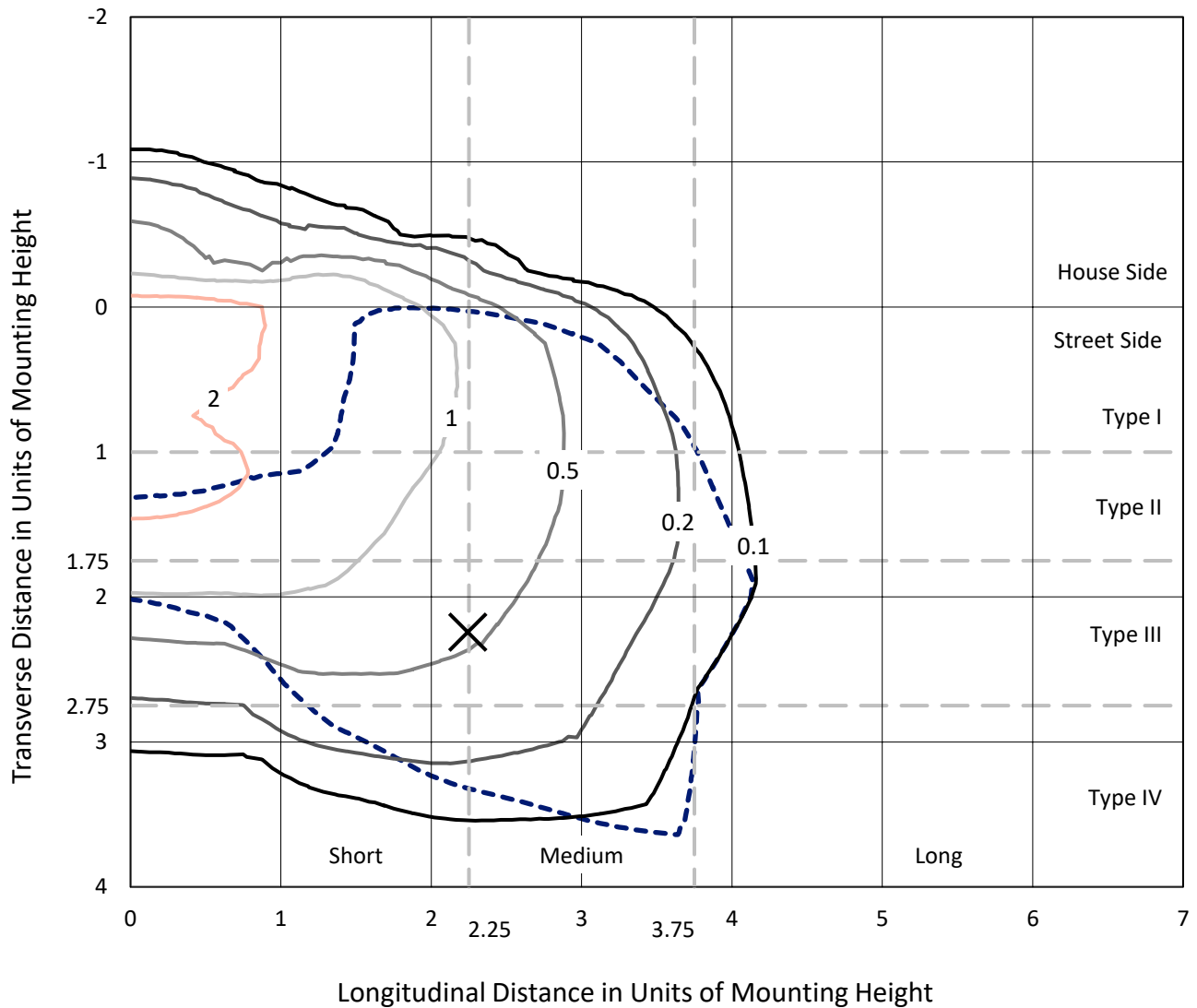
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

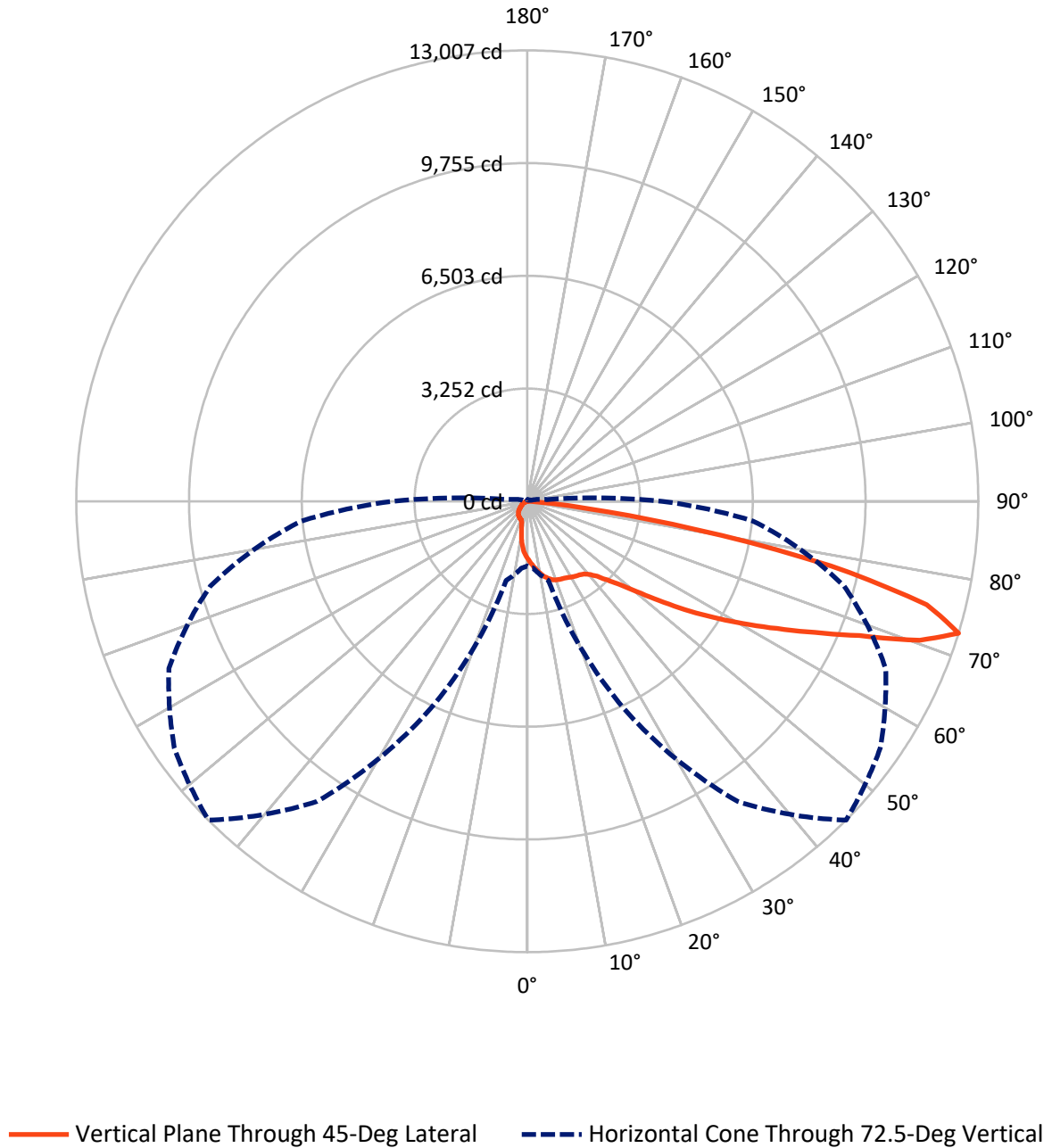
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.3	0.0	1588.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13527.7	0.0	13527.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	15116.0	0.0	15116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	1.0
10°-20°	456.0	3.0
20°-30°	748.8	5.0
30°-40°	1062.0	7.0
40°-50°	1755.4	11.6
50°-60°	3153.4	20.9
60°-70°	4378.6	29.0
70°-80°	3176.1	21.0
80°-90°	229.6	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°	15116.0	100.0
0°-180°	15116.0	100.0

Coefficient of Utilization



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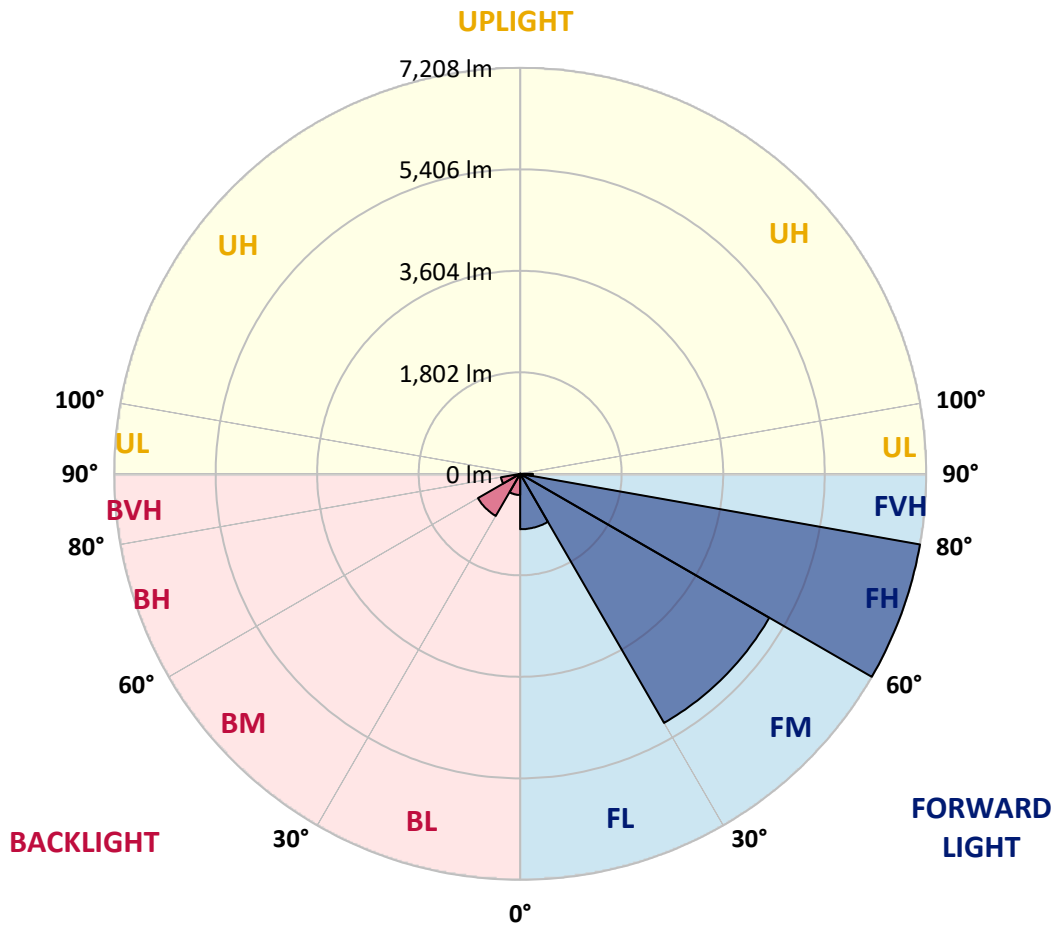
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.7	6.5			
FM (30°-60°)	5107.0	33.8			
FH (60°-80°)	7208.4	47.7			G3/7500
FVH (80°-90°)	227.7	1.5			G3/500
BL (0°-30°)	376.2	2.5	B1/500		
BM (30°-60°)	863.8	5.7	B1/1000		
BH (60°-80°)	346.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1808.7	1811.8	1809.7	1797.3	1776.7	1765.4	1759.2	1738.5	1725.1	1701.4
5°	1974.8	1987.2	1980.0	1955.2	1916.0	1888.1	1879.9	1837.6	1799.4	1755.0
7.5°	2151.2	2157.4	2144.0	2112.0	2059.4	2012.0	2004.7	1945.9	1885.0	1816.9
10°	2303.9	2311.2	2290.5	2244.1	2184.3	2125.4	2115.1	2050.1	1977.9	1894.3
12.5°	2431.9	2439.1	2412.3	2356.6	2290.5	2229.7	2219.3	2151.2	2071.8	1978.9
15°	2528.9	2542.3	2506.2	2446.3	2375.1	2314.3	2309.1	2242.0	2164.7	2061.5
17.5°	2585.6	2599.0	2565.0	2492.8	2431.9	2380.3	2374.1	2318.4	2246.2	2147.1
20°	2594.9	2607.3	2571.2	2508.2	2457.7	2416.4	2413.3	2373.1	2320.4	2225.5
22.5°	2567.0	2582.5	2549.5	2498.9	2463.9	2442.2	2438.1	2415.4	2385.5	2305.0
25°	2538.2	2550.5	2525.8	2481.4	2462.8	2460.8	2463.9	2459.7	2453.5	2385.5
27.5°	2536.1	2549.5	2521.6	2479.3	2469.0	2490.7	2493.8	2513.4	2518.5	2458.7
30°	2553.6	2562.9	2536.1	2491.7	2486.6	2536.1	2537.1	2572.2	2580.5	2520.6
32.5°	2591.8	2602.1	2575.3	2510.3	2503.1	2572.2	2575.3	2621.7	2635.1	2586.6
35°	2681.6	2694.0	2663.0	2561.9	2536.1	2606.2	2615.5	2670.2	2697.0	2656.8
37.5°	2905.5	2869.4	2827.0	2666.1	2611.4	2659.9	2675.4	2739.3	2786.8	2740.4
40°	3461.6	3348.1	3216.0	2843.6	2743.5	2774.4	2786.8	2850.8	2915.8	2870.4
42.5°	4296.3	4162.2	3949.6	3252.1	2942.6	2958.1	2967.4	3023.1	3114.9	3078.8
45°	5040.2	4991.7	4775.0	3949.6	3315.1	3238.7	3250.1	3279.0	3414.1	3400.7
47.5°	5611.8	5583.9	5416.8	4750.3	3944.5	3582.3	3614.3	3627.7	3822.7	3870.2
50°	6051.3	6041.0	5891.4	5462.2	4766.8	4088.9	4100.3	4071.4	4363.4	4481.0
52.5°	6466.1	6501.2	6390.8	6123.6	5644.8	4752.3	4750.3	4614.1	5008.2	5185.7
55°	6840.6	6853.0	6864.4	6798.3	6528.0	5507.6	5488.0	5265.1	5756.2	5939.9
57.5°	7192.5	7197.6	7298.7	7433.9	7447.3	6318.6	6282.4	6015.2	6573.4	6704.4
60°	7428.7	7452.5	7666.0	8041.6	8205.7	7155.3	7135.7	6863.3	7405.0	7465.9
62.5°	7088.3	7232.7	7771.3	8516.2	8921.7	8082.9	8073.6	7817.7	8279.9	8230.4
65°	5737.7	5982.2	6929.4	8837.1	9624.3	9118.8	9132.2	8859.8	9178.6	9017.7
67.5°	4013.6	4271.5	5392.0	8862.9	10409.5	10335.2	10412.6	9985.5	10133.0	9771.9
70°	2775.5	2908.6	3638.0	8307.8	11021.4	12010.8	12008.8	11368.0	11082.2	10115.5
72.5°	1866.5	1935.6	2362.8	6590.9	10571.5	13006.5	12946.6	12424.6	11402.1	9460.3
75°	787.2	837.8	1093.7	3704.1	8363.5	11899.4	11737.4	10980.1	10130.9	7449.4
77.5°	249.7	271.4	431.3	1325.8	4606.9	8944.4	8773.1	6857.1	6790.1	3737.1
80°	118.7	138.3	242.5	532.4	1812.8	4864.8	4841.1	3110.8	2920.9	1009.1
82.5°	51.6	60.9	134.1	284.8	811.0	1735.4	1770.5	1058.6	876.0	382.8
85°	16.5	21.7	61.9	131.0	342.5	431.3	426.1	251.8	352.9	208.4
87.5°	0.0	0.0	20.6	29.9	35.1	24.8	27.9	21.7	98.0	57.8
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°
1656.0	0°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
1676.6	2.5°	1664.2	1647.7	1618.8	1592.0	1568.3	1544.6	1530.1	1509.5	1507.4	1507.4
1703.5	5°	1675.6	1648.8	1597.2	1542.5	1479.6	1419.7	1359.9	1302.1	1283.5	1270.1
1746.8	7.5°	1708.6	1666.3	1584.8	1480.6	1360.9	1229.9	1138.0	1039.0	1000.8	980.2
1804.6	10°	1756.1	1698.3	1574.5	1391.9	1197.9	1019.4	888.4	781.0	739.8	722.2
1867.5	12.5°	1808.7	1737.5	1555.9	1281.5	1019.4	805.8	677.9	628.3	622.2	622.2
1942.8	15°	1871.6	1785.0	1523.9	1151.5	832.6	637.6	592.2	594.3	600.5	604.6
2016.1	17.5°	1936.6	1835.5	1473.4	1006.0	667.6	573.7	574.7	577.8	582.9	587.1
2095.5	20°	2006.8	1886.1	1406.3	851.2	572.6	555.1	558.2	561.3	565.4	567.5
2169.8	22.5°	2082.1	1933.5	1326.9	699.5	540.6	539.6	540.6	543.7	548.9	548.9
2256.5	25°	2162.6	1986.2	1236.1	589.1	524.1	524.1	526.2	528.3	532.4	532.4
2340.1	27.5°	2245.1	2034.6	1140.1	531.4	509.7	508.7	508.7	511.8	513.8	514.9
2422.6	30°	2335.9	2091.4	1044.2	519.0	498.3	493.2	490.1	492.2	494.2	495.2
2509.3	32.5°	2428.8	2146.1	958.5	524.1	487.0	477.7	467.4	465.3	465.3	469.5
2599.0	35°	2532.0	2205.9	892.5	541.7	480.8	455.0	438.5	429.2	430.2	436.4
2706.3	37.5°	2655.8	2278.1	844.0	557.2	476.7	429.2	402.4	391.0	383.8	391.0
2853.9	40°	2817.8	2384.4	808.9	569.5	471.5	399.3	363.2	344.6	331.2	335.3
3082.9	42.5°	3056.1	2551.6	795.5	570.6	460.2	364.2	322.9	298.2	278.6	279.6
3427.5	45°	3390.4	2815.7	864.6	557.2	435.4	326.0	280.6	247.6	235.2	232.1
3942.4	47.5°	3848.5	3200.5	1024.5	529.3	399.3	288.9	239.4	211.5	202.2	197.1
4618.2	50°	4462.4	3694.8	1202.0	498.3	363.2	253.8	205.3	187.8	181.6	176.4
5419.9	52.5°	5174.3	4196.2	1347.5	467.4	327.1	222.9	183.7	173.3	168.2	164.1
6193.7	55°	5827.4	4541.8	1339.2	434.4	292.0	198.1	168.2	162.0	155.8	151.7
6860.2	57.5°	6234.0	4590.3	1104.0	398.3	251.8	178.5	153.7	149.6	142.4	137.2
7437.0	60°	6420.7	4313.8	773.8	350.8	211.5	159.9	138.3	136.2	126.9	119.7
7982.8	62.5°	6454.7	3800.0	515.9	292.0	176.4	142.4	122.8	119.7	107.3	94.9
8426.5	65°	6316.5	3065.4	357.0	228.0	150.6	123.8	105.2	99.0	85.6	73.3
8531.7	67.5°	5879.0	2152.3	248.7	164.1	127.9	98.0	83.6	81.5	71.2	60.9
7995.2	70°	5077.3	1226.8	166.1	122.8	101.1	67.1	66.0	68.1	57.8	49.5
6532.1	72.5°	3892.9	561.3	103.2	89.8	69.1	45.4	52.6	53.7	44.4	37.1
4075.5	75°	2291.6	240.4	65.0	57.8	35.1	29.9	38.2	39.2	29.9	23.7
1489.9	77.5°	780.0	90.8	41.3	34.0	17.5	16.5	24.8	24.8	16.5	9.3
299.2	80°	177.5	34.0	20.6	13.4	8.3	7.2	8.3	7.2	4.1	1.0
91.8	82.5°	50.6	13.4	8.3	5.2	3.1	3.1	1.0	0.0	0.0	0.0
32.0	85°	14.4	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.3	87.5°	6.2	1.0	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

180°
1656.0
1512.6
1276.3
983.3
722.2
622.2
604.6
587.1
568.5
551.0
533.4
515.9
497.3
472.6
439.5
389.0
333.3
275.5
228.0
194.0
175.4
163.0
149.6
136.2
117.6
88.7
69.1
57.8
45.4
33.0
20.6
7.2
0.0
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