

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: P940484

Luminaire Tested: **GALN-SB3C-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940484  
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-SB3C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

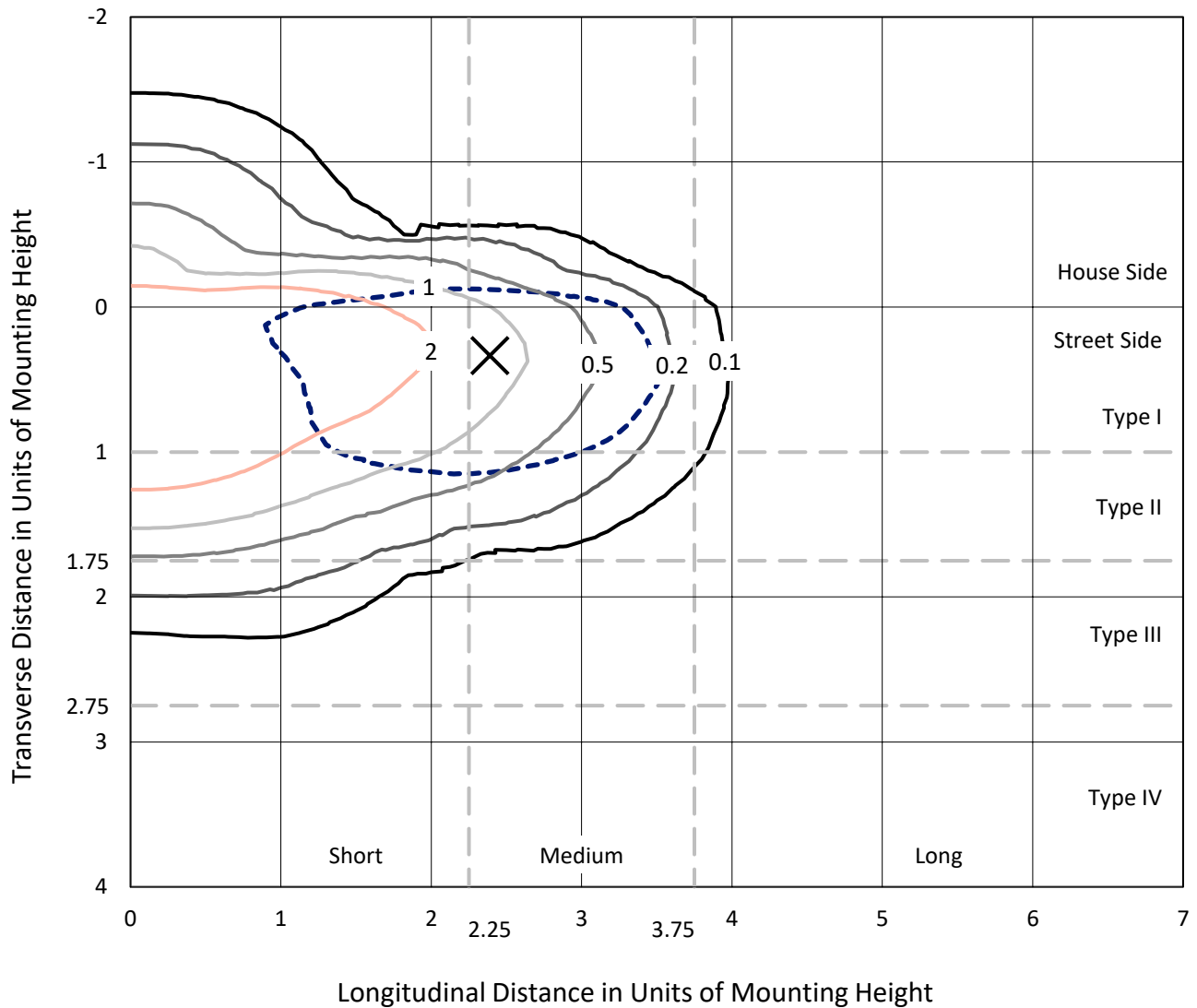
Lumens per Lamp: N/A  
Luminaire Lumens: 14268 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

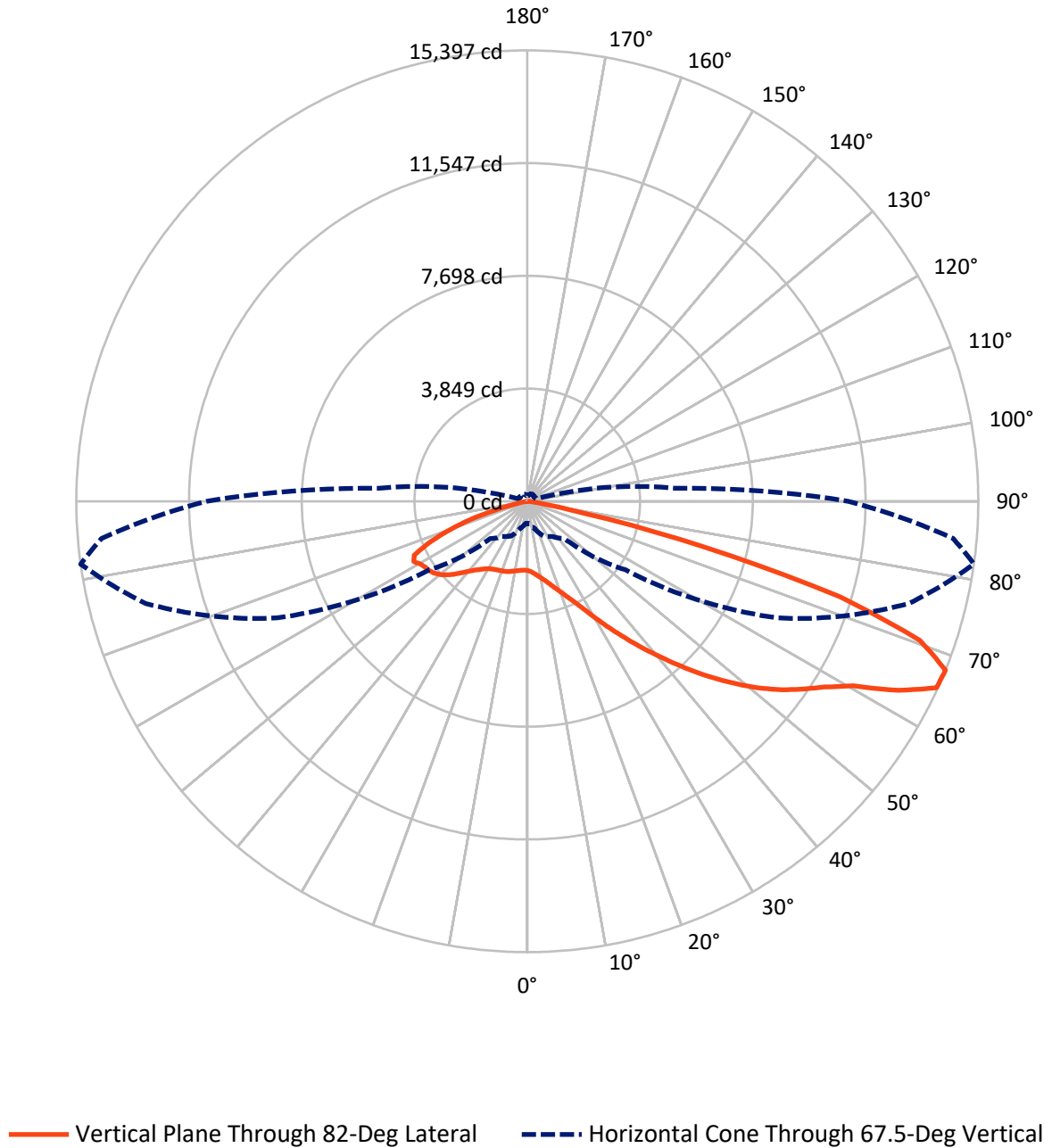
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2584.5	0.0	2584.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11683.5	0.0	11683.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14268.0	0.0	14268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.6	1.5
10°-20°	547.2	3.8
20°-30°	876.5	6.1
30°-40°	1549.9	10.9
40°-50°	2715.6	19.0
50°-60°	3621.9	25.4
60°-70°	3371.8	23.6
70°-80°	1294.1	9.1
80°-90°	80.4	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°	14268.0	100.0
0°-180°	14268.0	100.0

**Coefficient of Utilization**



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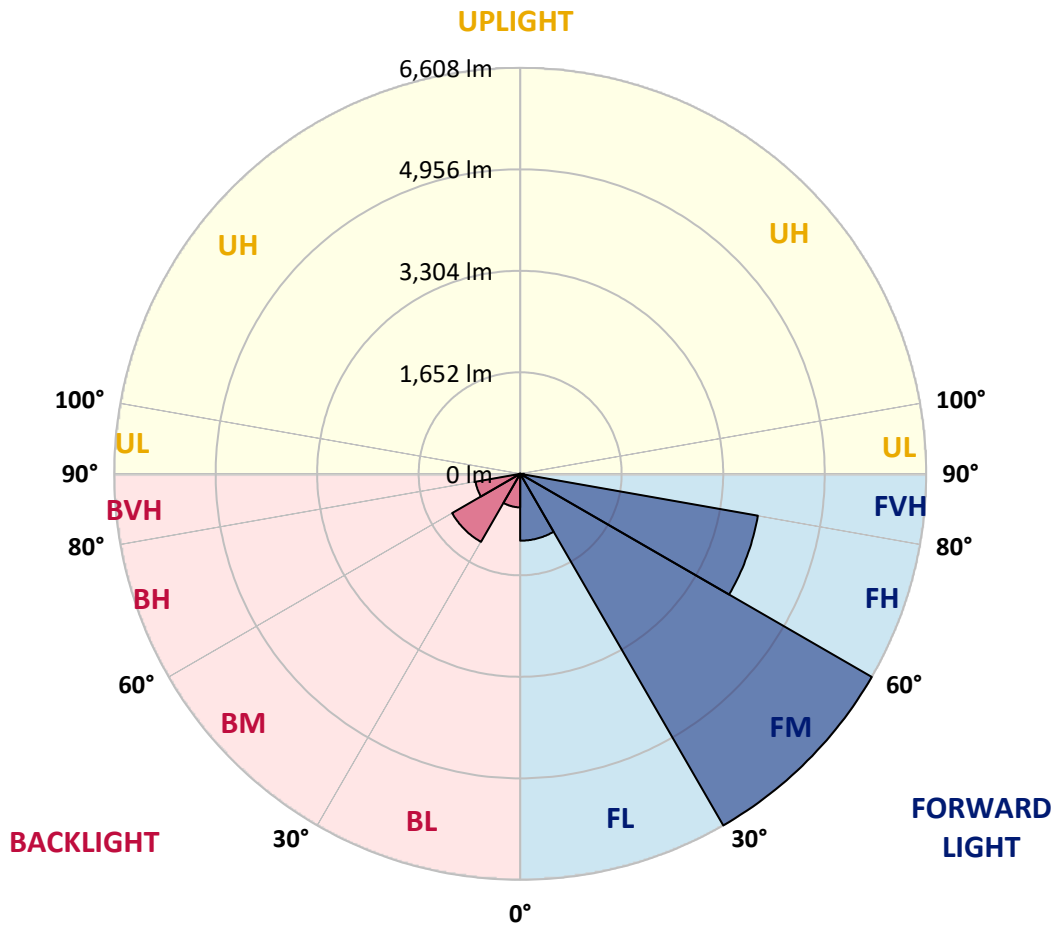
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.5	7.6			
FM (30°-60°)	6608.4	46.3			
FH (60°-80°)	3928.2	27.5			G2/5000
FVH (80°-90°)	58.4	0.4			G1/100
BL (0°-30°)	545.8	3.8	B2/1000		
BM (30°-60°)	1279.1	9.0	B2/2500		
BH (60°-80°)	737.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.9	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°	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7
2.5°	2498.3	2512.7	2504.5	2500.4	2493.2	2482.9	2474.7	2449.0	2422.3	2404.8
5°	2548.6	2563.0	2562.0	2566.1	2571.2	2574.3	2572.3	2543.5	2505.5	2475.7
7.5°	2505.5	2521.9	2535.3	2555.8	2591.8	2629.8	2648.3	2642.1	2603.1	2562.0
10°	2383.2	2400.7	2432.6	2480.8	2556.8	2639.0	2707.9	2739.7	2715.0	2669.8
12.5°	2159.3	2176.8	2239.4	2344.2	2471.6	2614.4	2745.9	2831.1	2837.3	2792.1
15°	1907.6	1925.1	1991.9	2123.3	2317.5	2546.6	2766.4	2927.7	2982.1	2943.1
17.5°	1751.5	1766.9	1817.2	1923.0	2125.4	2411.0	2759.2	3030.4	3154.7	3123.9
20°	1704.2	1717.6	1741.2	1815.2	1983.6	2270.2	2712.0	3127.0	3340.6	3323.2
22.5°	1754.6	1766.9	1774.1	1806.9	1912.8	2177.8	2652.4	3225.6	3556.4	3558.4
25°	1870.6	1883.0	1874.7	1895.3	1941.5	2149.0	2629.8	3341.7	3827.6	3850.2
27.5°	2061.7	2062.7	2043.2	2042.2	2049.4	2192.2	2653.4	3466.0	4169.6	4211.8
30°	2444.9	2429.5	2354.5	2273.3	2236.3	2321.6	2719.2	3612.9	4573.4	4648.4
32.5°	3035.6	3013.0	2875.3	2681.1	2486.0	2530.1	2837.3	3780.3	5013.0	5148.6
35°	3676.6	3670.4	3526.6	3237.9	2896.9	2827.0	3029.4	4000.1	5492.8	5708.5
37.5°	4272.4	4269.3	4187.1	3847.1	3432.1	3241.0	3337.6	4287.8	6006.4	6318.7
40°	4816.8	4826.1	4743.9	4439.8	4021.7	3772.1	3756.7	4643.2	6577.5	6983.3
42.5°	5287.3	5297.6	5214.4	4989.4	4604.2	4359.7	4271.3	5078.8	7135.3	7697.3
45°	5606.8	5670.5	5658.1	5478.4	5202.0	4948.3	4889.8	5625.3	7771.2	8454.3
47.5°	5697.2	5755.7	5848.2	5872.8	5704.4	5454.7	5524.6	6283.7	8414.3	9212.5
50°	5474.3	5528.7	5720.8	5976.6	6093.7	6016.7	6142.0	6989.5	9072.8	9968.5
52.5°	5034.6	5090.1	5332.5	5737.2	6214.9	6457.4	6761.4	7684.9	9710.7	10684.5
55°	4398.7	4457.3	4768.5	5226.7	5983.8	6639.2	7278.1	8379.4	10295.2	11328.6
57.5°	3533.8	3576.9	3900.5	4541.5	5402.4	6458.4	7659.2	9137.5	10845.8	11961.4
60°	2303.1	2341.1	2717.1	3432.1	4438.8	5854.4	7735.3	9982.9	11577.2	12784.2
62.5°	1531.6	1557.3	1780.2	2305.2	3126.0	4694.6	7290.5	10657.8	12649.7	14216.2
65°	1050.9	1076.6	1299.5	1665.2	2019.6	3105.4	6011.5	10568.4	13621.5	15353.4
67.5°	749.9	771.5	960.5	1305.6	1461.8	1803.9	4075.1	9426.1	13481.8	15396.6
70°	537.3	549.6	705.7	1017.0	1161.8	1083.8	2266.1	7209.3	11804.2	14217.3
72.5°	376.0	380.1	490.0	774.6	935.8	791.0	1078.6	4806.5	8927.9	11159.1
75°	254.8	259.9	329.8	568.1	750.9	604.0	571.2	2577.4	5241.1	6176.9
77.5°	156.1	158.2	212.6	388.3	561.9	460.2	367.8	1092.0	2027.8	1990.8
80°	88.3	88.3	135.6	241.4	383.2	296.9	257.8	464.3	642.0	564.0
82.5°	49.3	50.3	98.6	150.0	253.7	175.7	141.8	214.7	277.4	245.5
85°	20.5	22.6	60.6	70.9	121.2	87.3	57.5	90.4	102.7	91.4
87.5°	2.1	3.1	18.5	13.4	14.4	17.5	8.2	17.5	14.4	14.4
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°
2363.7	0°	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7	2363.7
2398.7	2.5°	2379.1	2363.7	2324.7	2279.5	2219.9	2191.1	2152.1	2125.4	2102.8	2104.9
2458.2	5°	2425.4	2386.3	2299.0	2190.1	2054.5	1958.0	1855.2	1784.4	1726.8	1714.5
2540.4	7.5°	2489.1	2427.4	2274.4	2078.1	1849.1	1675.5	1520.3	1420.7	1349.8	1327.2
2640.1	10°	2571.2	2481.9	2242.5	1937.4	1607.7	1386.8	1220.4	1142.3	1094.0	1077.6
2757.2	12.5°	2666.8	2544.5	2200.4	1765.9	1359.1	1146.4	1040.6	1001.6	986.2	981.0
2901.0	15°	2787.0	2622.6	2136.7	1562.5	1148.5	999.5	954.3	949.2	951.2	949.2
3073.6	17.5°	2929.7	2707.9	2032.9	1352.9	1006.7	924.5	908.1	912.2	917.3	916.3
3266.7	20°	3085.9	2792.1	1900.4	1167.0	910.2	871.1	861.9	866.0	870.1	868.0
3489.6	22.5°	3263.6	2882.5	1753.5	1022.1	845.4	821.8	811.5	812.6	812.6	808.5
3772.1	25°	3476.2	2982.1	1599.4	919.4	796.1	777.6	765.3	761.2	755.0	742.7
4115.2	27.5°	3730.0	3087.9	1451.5	847.5	757.1	739.6	725.2	715.0	699.6	679.0
4527.1	30°	4015.6	3216.4	1326.2	802.3	726.3	708.8	692.4	677.0	654.4	628.7
5000.7	32.5°	4351.5	3354.0	1234.8	772.5	698.5	680.0	660.5	642.0	617.4	591.7
5532.8	35°	4752.1	3520.4	1181.3	752.0	677.0	652.3	630.7	610.2	591.7	569.1
6111.2	37.5°	5186.6	3697.1	1164.9	741.7	662.6	624.6	599.9	585.5	583.5	570.1
6736.8	40°	5662.3	3906.7	1177.2	735.5	647.2	597.9	571.2	568.1	573.2	549.6
7405.5	42.5°	6165.6	4155.3	1197.8	728.3	625.6	571.2	545.5	545.5	541.4	508.5
8112.3	45°	6710.1	4441.9	1218.3	710.9	599.9	544.4	524.9	517.7	500.3	468.4
8823.1	47.5°	7258.6	4733.6	1233.7	679.0	569.1	521.8	504.4	487.9	462.3	433.5
9520.6	50°	7779.4	4995.6	1217.3	631.8	534.2	500.3	481.8	459.2	431.4	411.9
10181.2	52.5°	8244.8	5222.6	1147.4	576.3	497.2	477.7	461.2	437.6	415.0	394.5
10777.0	55°	8649.5	5406.5	1024.2	523.9	464.3	458.2	441.7	411.9	381.1	363.6
11367.7	57.5°	9037.8	5546.2	870.1	480.8	434.5	436.6	411.9	385.2	356.5	338.0
12163.8	60°	9554.5	5733.1	713.9	440.7	402.7	408.8	382.1	362.6	326.7	303.0
13529.0	62.5°	10380.5	6023.9	567.0	391.4	365.7	367.8	356.5	332.8	289.7	262.0
14540.9	65°	11035.9	5917.0	446.9	338.0	323.6	326.7	326.7	301.0	254.8	222.9
14595.3	67.5°	10961.9	5066.4	356.5	285.6	283.5	285.6	292.8	271.2	226.0	200.3
13483.8	70°	10098.0	4029.9	285.6	237.3	246.5	241.4	262.0	247.6	203.4	177.7
10453.4	72.5°	8239.7	2903.0	217.8	196.2	189.0	197.2	236.3	222.9	169.5	140.7
5536.9	75°	4814.8	1549.1	162.3	155.1	136.6	164.4	209.6	190.0	129.4	103.8
1697.0	77.5°	1567.6	540.3	119.2	114.0	101.7	132.5	178.7	160.3	105.8	82.2
497.2	80°	420.1	163.3	81.2	75.0	65.7	98.6	141.8	127.4	76.0	53.4
213.7	82.5°	168.5	68.8	47.3	42.1	36.0	67.8	112.0	102.7	56.5	33.9
66.8	85°	54.4	22.6	17.5	13.4	16.4	42.1	66.8	69.9	40.1	17.5
10.3	87.5°	7.2	3.1	3.1	4.1	3.1	7.2	20.5	19.5	11.3	2.1
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°
2363.7
2084.3
1686.8
1304.6
1065.3
978.0
948.2
914.3
867.0
806.4
740.7
677.0
626.6
592.7
567.0
569.1
550.6
508.5
467.4
432.5
408.8
392.4
361.6
335.9
300.0
259.9
219.8
196.2
174.6
137.7
100.7
79.1
52.4
33.9
13.4
0.0
0.0

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