

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: P943618

Luminaire Tested: **GALN-SB8A-935-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-935-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19105 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

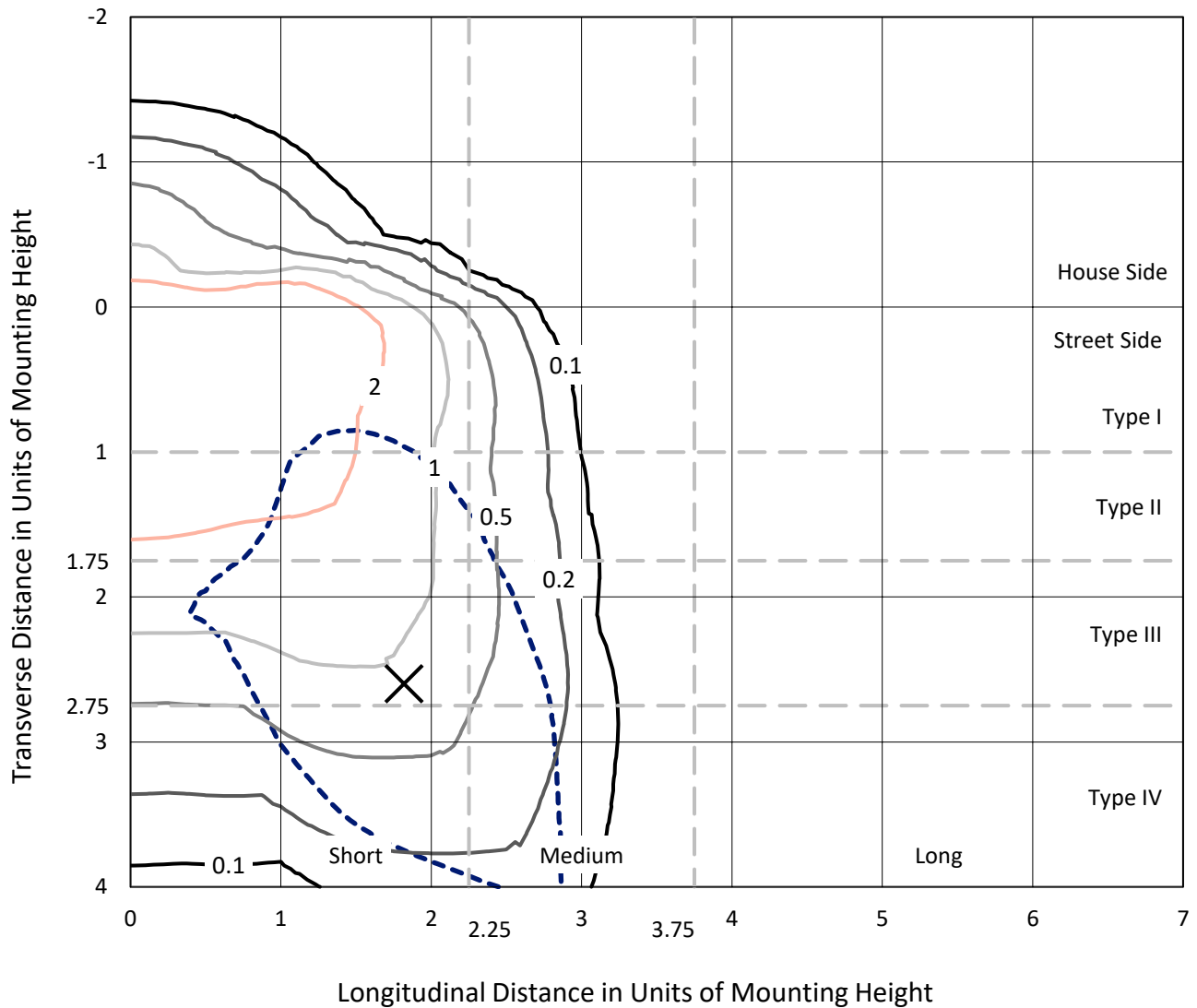
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943618
 CATALOG NUMBER: GALN-SB8A-935-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

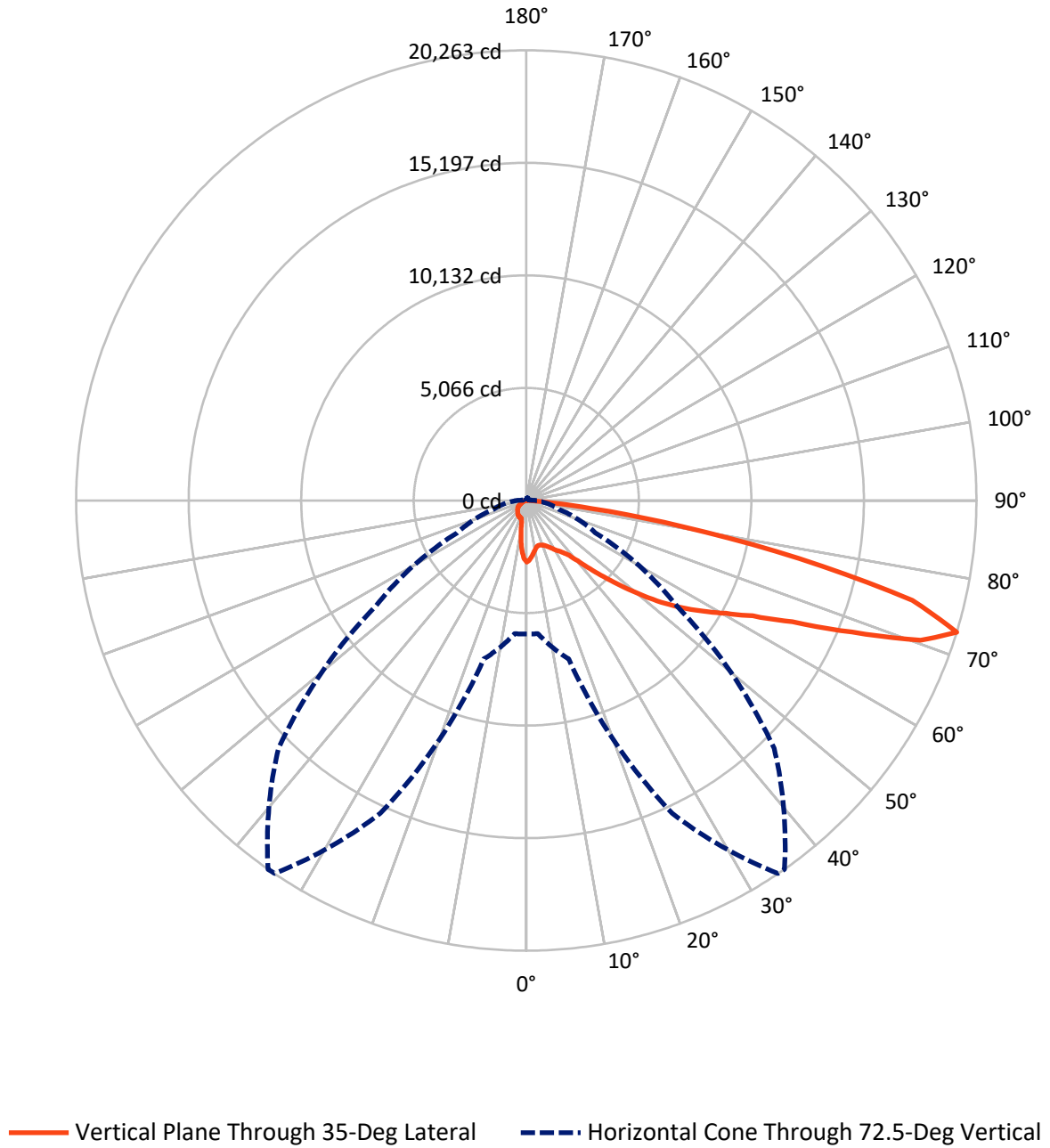
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P943618
CATALOG NUMBER: GALN-SB8A-935-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.2	0.0	2150.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16954.8	0.0	16954.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	19105.0	0.0	19105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.2
10°-20°	532.3	2.8
20°-30°	864.7	4.5
30°-40°	1442.7	7.6
40°-50°	2729.7	14.3
50°-60°	4337.4	22.7
60°-70°	5365.7	28.1
70°-80°	3335.4	17.5
80°-90°	269.6	1.4
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°	19105.0	100.0
0°-180°	19105.0	100.0

Coefficient of Utilization



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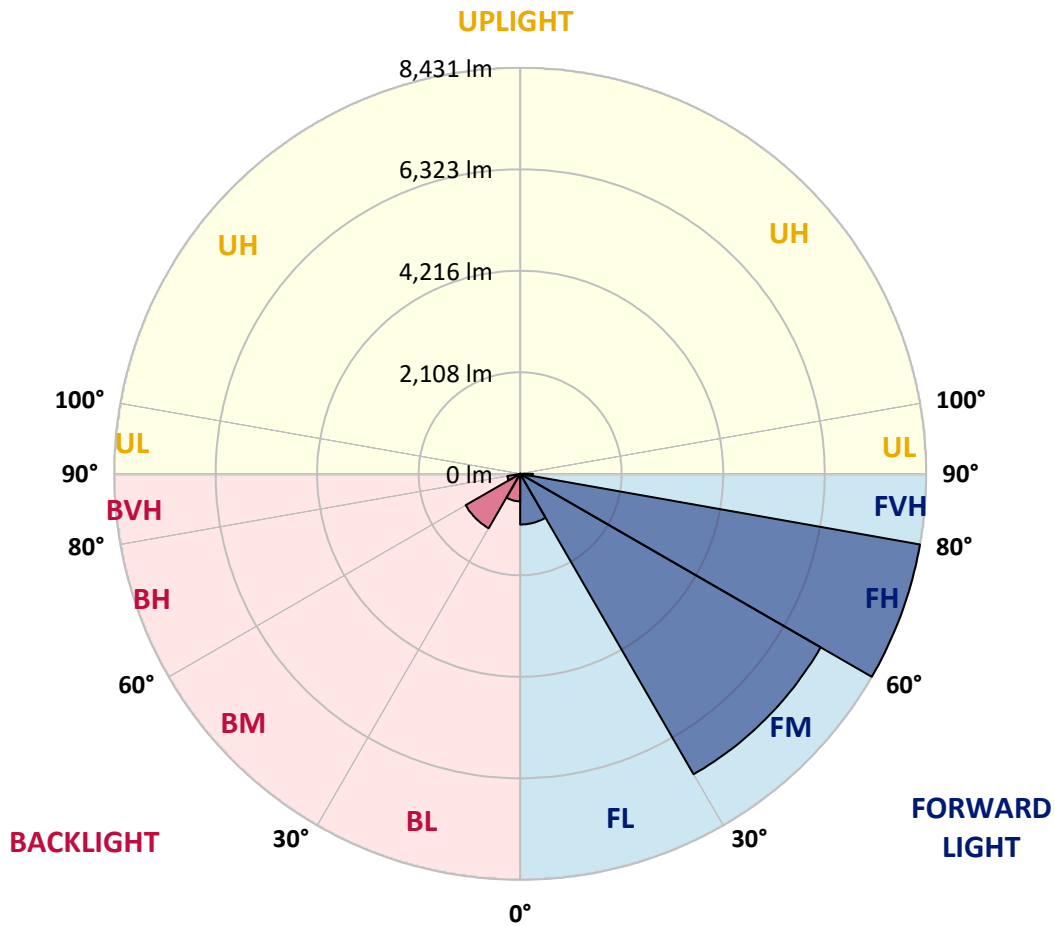
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.2	5.5			
FM (30°-60°)	7204.5	37.7			
FH (60°-80°)	8431.3	44.1			G4/12000
FVH (80°-90°)	265.9	1.4			G3/500
BL (0°-30°)	571.3	3.0	B2/1000		
BM (30°-60°)	1305.3	6.8	B2/2500		
BH (60°-80°)	269.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P943618
 CATALOG NUMBER: GALN-SB8A-935-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0
2.5°	2645.8	2668.2	2672.4	2679.4	2679.4	2687.8	2701.8	2721.4	2753.6	2770.4
5°	2438.6	2455.4	2476.4	2493.2	2525.4	2529.6	2584.2	2637.4	2711.6	2767.6
7.5°	2230.0	2249.6	2277.6	2318.2	2360.2	2372.8	2455.4	2545.0	2662.6	2767.6
10°	2083.0	2084.4	2109.6	2150.2	2217.4	2232.8	2333.6	2461.0	2608.0	2750.8
12.5°	2000.4	2010.2	2021.4	2052.2	2116.6	2126.4	2234.2	2384.0	2553.4	2741.0
15°	2000.4	2007.4	2014.4	2029.8	2081.6	2090.0	2185.2	2335.0	2525.4	2745.2
17.5°	2021.4	2032.6	2027.0	2045.2	2099.8	2105.4	2189.4	2321.0	2524.0	2771.8
20°	2071.8	2080.2	2069.0	2080.2	2134.8	2146.0	2232.8	2347.6	2547.8	2818.0
22.5°	2151.6	2155.8	2129.2	2137.6	2193.6	2207.6	2308.4	2423.2	2605.2	2892.1
25°	2252.4	2260.8	2220.2	2230.0	2283.2	2300.0	2416.2	2536.6	2696.2	2994.3
27.5°	2368.6	2372.8	2337.8	2336.4	2405.0	2428.8	2546.4	2676.6	2818.0	3123.1
30°	2501.6	2514.2	2480.6	2475.0	2561.8	2581.4	2697.6	2848.7	2997.1	3316.3
32.5°	2606.6	2616.4	2596.8	2610.8	2699.0	2714.4	2880.9	3092.3	3278.5	3590.7
35°	2757.8	2763.4	2718.6	2743.8	2844.5	2883.7	3131.5	3433.9	3632.7	3935.1
37.5°	3305.1	3305.1	3114.7	2990.1	3086.7	3121.7	3474.5	3863.7	4069.4	4397.0
40°	4062.4	4049.8	3771.3	3516.5	3503.9	3572.5	3963.0	4405.4	4633.6	4951.4
42.5°	4870.2	4850.6	4471.2	4219.2	4177.2	4201.0	4527.2	5073.2	5305.5	5627.5
45°	5586.9	5581.3	5234.1	4895.4	4819.8	4895.4	5231.3	5854.3	6020.9	6359.6
47.5°	6187.5	6187.5	5934.1	5712.9	5673.7	5718.5	6184.7	6720.8	6705.4	7139.4
50°	6879.0	6873.4	6632.6	6537.4	6578.0	6641.0	7282.2	7633.5	7413.7	7905.1
52.5°	7363.3	7396.9	7314.4	7299.0	7506.1	7615.3	8396.5	8526.6	8047.9	8631.6
55°	7746.9	7786.1	7881.3	7989.1	8388.1	8530.8	9475.8	9373.6	8578.4	9261.6
57.5°	8290.1	8234.1	8381.1	8593.8	9239.2	9411.4	10521.5	10172.9	9005.4	9772.5
60°	8949.4	8957.8	8983.0	9251.8	10088.9	10310.1	11551.8	10928.8	9279.8	10086.1
62.5°	9741.7	9754.3	9806.1	10219.1	11229.8	11438.4	12649.3	11547.6	9405.8	9997.9
65°	9687.1	9740.3	10318.5	11731.0	12964.3	13170.0	13930.2	11981.5	9215.4	9191.6
67.5°	8824.8	8911.6	9878.9	13536.8	15579.2	15808.8	15478.4	12066.9	8393.7	7147.8
70°	7693.7	7724.5	8887.8	15160.7	18607.2	18839.5	16864.3	11127.6	6369.4	3986.8
72.5°	6008.3	6015.3	7380.1	15537.2	20250.6	20263.2	15776.6	8260.7	3425.5	1531.5
75°	4292.0	4250.0	4943.0	12600.3	17816.2	17959.0	11827.6	3874.9	1308.9	723.7
77.5°	2301.4	2347.6	2797.0	7472.5	12307.7	12551.3	6453.4	1117.1	666.3	492.8
80°	711.1	750.3	1146.5	3421.3	6971.4	7118.4	2392.4	497.0	464.8	351.4
82.5°	224.0	232.4	534.8	1437.7	2893.5	2960.7	692.9	281.4	317.8	232.4
85°	64.4	65.8	238.0	536.2	715.3	729.3	194.6	109.2	182.0	144.2
87.5°	7.0	22.4	89.6	89.6	63.0	61.6	21.0	23.8	51.8	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943618
 CATALOG NUMBER: GALN-SB8A-935-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2769.0	0°	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0
2781.6	2.5°	2774.6	2776.0	2757.8	2727.0	2693.4	2665.4	2630.4	2602.4	2582.8	2577.2
2806.8	5°	2794.2	2784.4	2732.6	2638.8	2526.8	2430.2	2322.4	2237.0	2181.0	2157.2
2833.3	7.5°	2823.6	2795.6	2682.2	2497.4	2283.2	2092.8	1899.6	1749.8	1654.7	1607.1
2858.5	10°	2848.7	2792.8	2598.2	2293.0	1965.4	1677.1	1416.7	1236.1	1135.3	1087.7
2887.9	12.5°	2872.5	2791.4	2489.0	2050.8	1607.1	1254.3	1012.1	922.5	894.5	884.7
2935.5	15°	2917.3	2795.6	2351.8	1773.6	1250.1	947.7	859.5	858.1	863.7	860.9
3008.3	17.5°	2978.9	2799.8	2196.4	1479.7	964.5	835.7	831.5	844.1	852.5	848.3
3099.3	20°	3058.7	2816.6	2031.2	1188.5	828.7	807.7	817.5	828.7	835.7	828.7
3221.1	22.5°	3170.7	2845.9	1850.6	954.7	785.3	790.9	799.3	811.9	818.9	809.1
3376.5	25°	3307.9	2892.1	1672.9	830.1	764.3	771.3	783.9	797.9	806.3	796.5
3572.5	27.5°	3485.7	2966.3	1509.1	802.1	743.3	747.5	765.7	786.7	797.9	785.3
3851.1	30°	3743.3	3088.1	1367.7	814.7	730.7	720.9	746.1	775.5	788.1	776.9
4230.4	32.5°	4084.8	3260.3	1280.9	834.3	725.1	690.1	713.9	751.7	772.7	765.7
4726.0	35°	4532.8	3522.1	1247.3	856.7	720.9	657.9	674.7	715.3	751.7	758.7
5350.3	37.5°	5076.0	3886.1	1257.1	866.5	708.3	631.3	639.7	674.7	722.3	744.7
6053.1	40°	5693.3	4310.2	1313.1	856.7	694.3	608.9	610.3	636.9	678.9	712.5
6809.0	42.5°	6330.2	4805.8	1416.7	820.3	681.7	589.3	585.1	603.3	631.3	655.1
7563.5	45°	6936.4	5315.3	1518.9	769.9	666.3	569.7	560.0	566.9	572.5	582.3
8298.5	47.5°	7465.5	5673.7	1489.5	723.7	645.3	547.4	530.6	527.8	511.0	509.6
8955.0	50°	7830.9	5752.1	1322.9	677.5	614.5	522.2	495.6	478.8	449.4	435.4
9446.4	52.5°	7947.1	5442.7	1080.7	631.3	564.2	488.6	450.8	424.2	387.8	375.2
9729.1	55°	7793.1	4836.6	863.7	575.3	494.2	443.8	401.8	366.8	337.4	322.0
9759.9	57.5°	7416.5	4065.2	683.1	509.6	420.0	393.4	351.4	316.4	291.2	275.8
9418.4	60°	6792.2	3228.1	540.4	431.2	358.4	338.8	295.4	273.0	250.6	232.4
8536.4	62.5°	5844.5	2304.2	424.2	341.6	299.6	277.2	252.0	235.2	208.6	183.4
6950.4	65°	4560.8	1409.7	327.6	250.6	240.8	229.6	214.2	198.8	166.6	141.4
4534.2	67.5°	2876.7	667.7	233.8	189.0	190.4	184.8	177.8	165.2	141.4	119.0
2031.2	70°	1266.9	323.4	154.0	144.2	141.4	141.4	147.0	142.8	120.4	99.4
705.5	72.5°	431.2	173.6	114.8	109.2	102.2	100.8	123.2	119.0	96.6	77.0
351.4	75°	225.4	116.2	84.0	78.4	61.6	74.2	98.0	92.4	68.6	50.4
232.4	77.5°	147.0	82.6	57.4	50.4	35.0	49.0	72.8	64.4	40.6	25.2
152.6	80°	92.4	54.6	33.6	23.8	16.8	26.6	39.2	28.0	15.4	5.6
89.6	82.5°	49.0	28.0	12.6	8.4	7.0	8.4	9.8	7.0	2.8	0.0
46.2	85°	19.6	9.8	4.2	2.8	1.4	0.0	2.8	1.4	0.0	0.0
8.4	87.5°	7.0	1.4	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°
2769.0
2587.0
2165.6
1614.1
1089.1
881.9
859.5
846.9
827.3
807.7
795.1
785.3
775.5
765.7
758.7
750.3
723.7
664.9
587.9
508.2
436.8
373.8
322.0
273.0
228.2
179.2
137.2
116.2
95.2
72.8
46.2
22.4
4.2
0.0
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