

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: P943598

Luminaire Tested: **GALN-SB8A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943598
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-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 16717 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

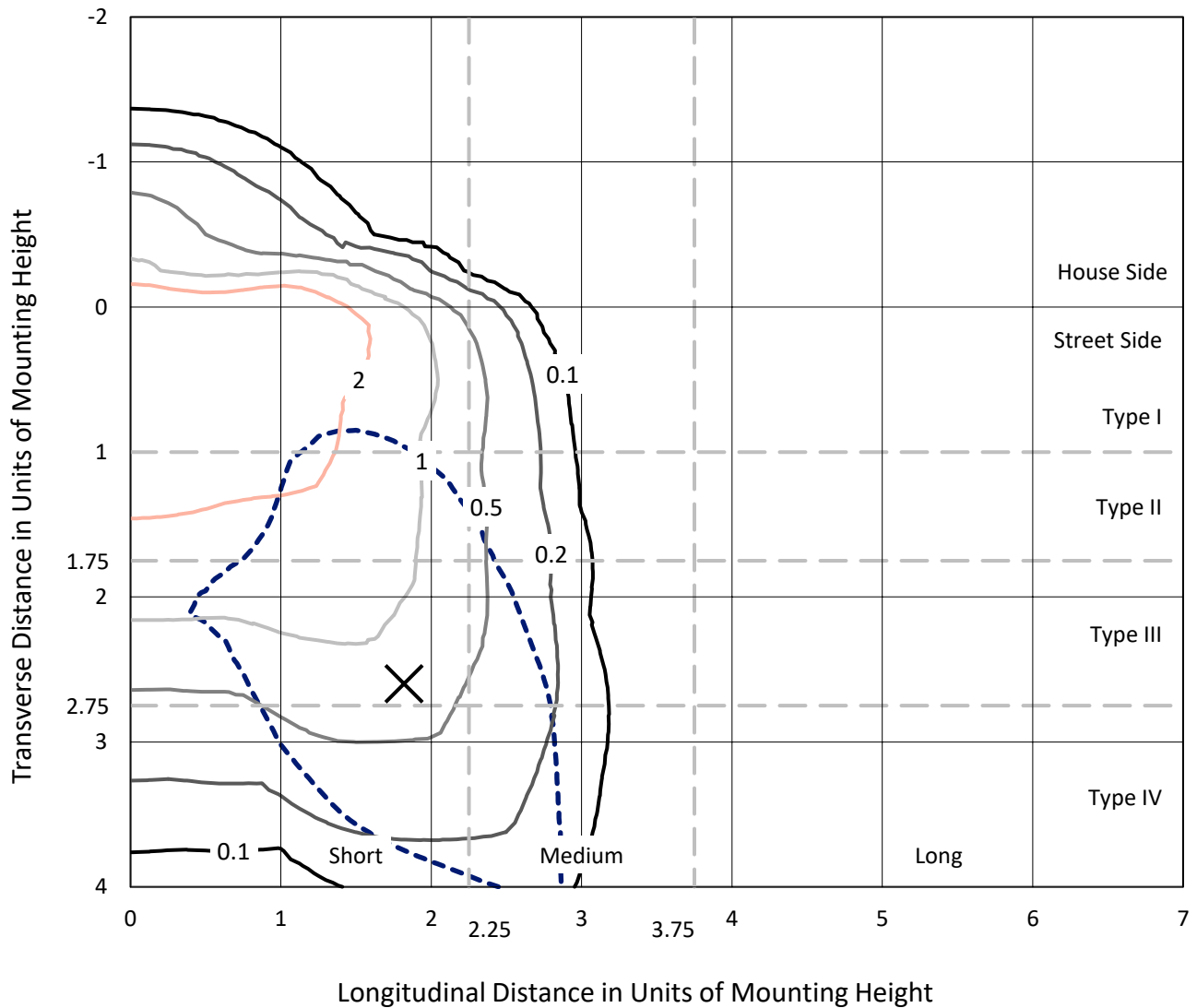
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943598
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Iso-Footcandle Lines of Horizontal Illumination

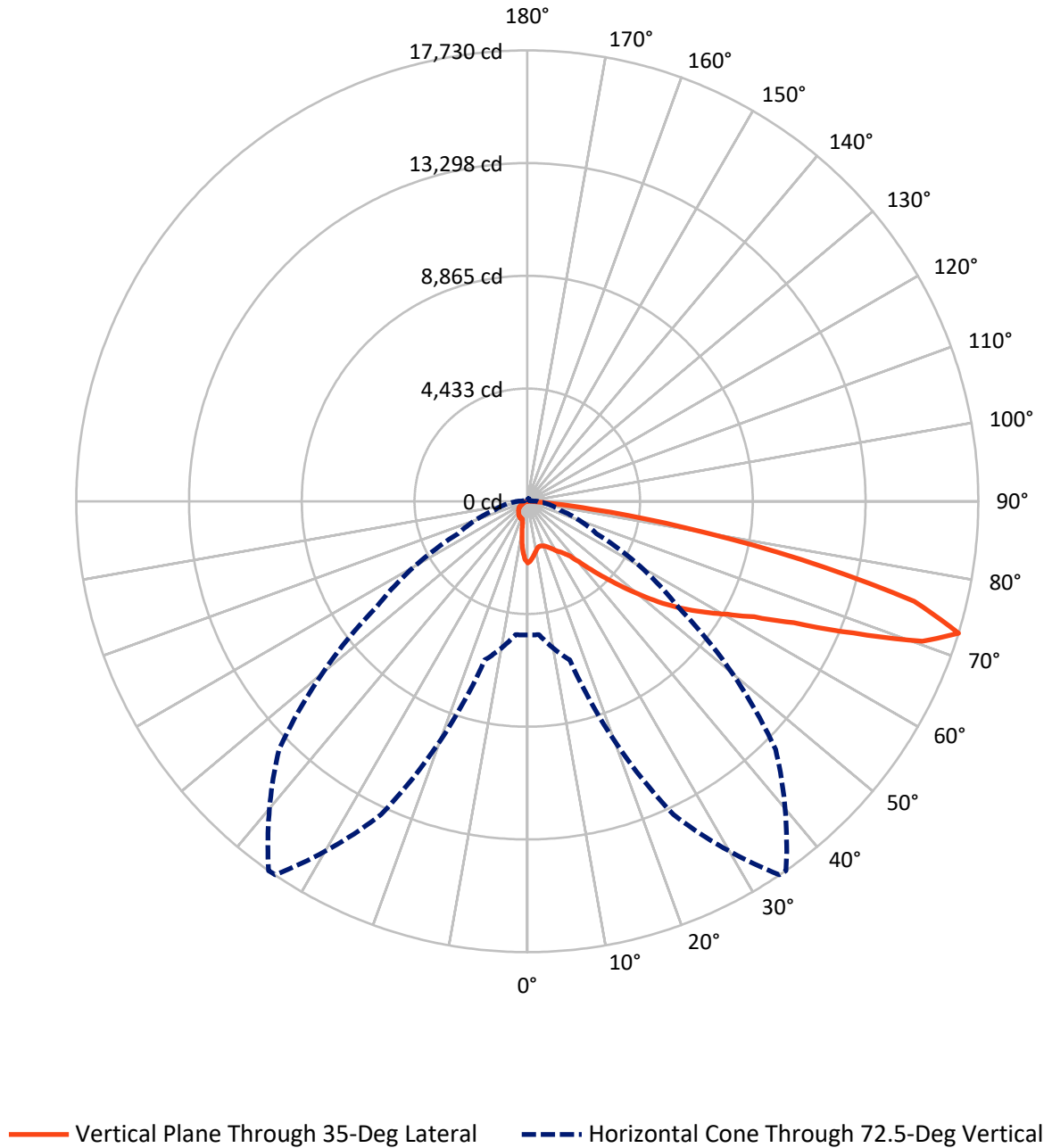
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P943598
CATALOG NUMBER: GALN-SB8A-927-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1881.4	0.0	1881.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14835.6	0.0	14835.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	16717.0	0.0	16717.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.2
10°-20°	465.8	2.8
20°-30°	756.6	4.5
30°-40°	1262.4	7.6
40°-50°	2388.5	14.3
50°-60°	3795.3	22.7
60°-70°	4695.0	28.1
70°-80°	2918.5	17.5
80°-90°	235.9	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°	16717.0	100.0
0°-180°	16717.0	100.0



REPORT NUMBER: P943598

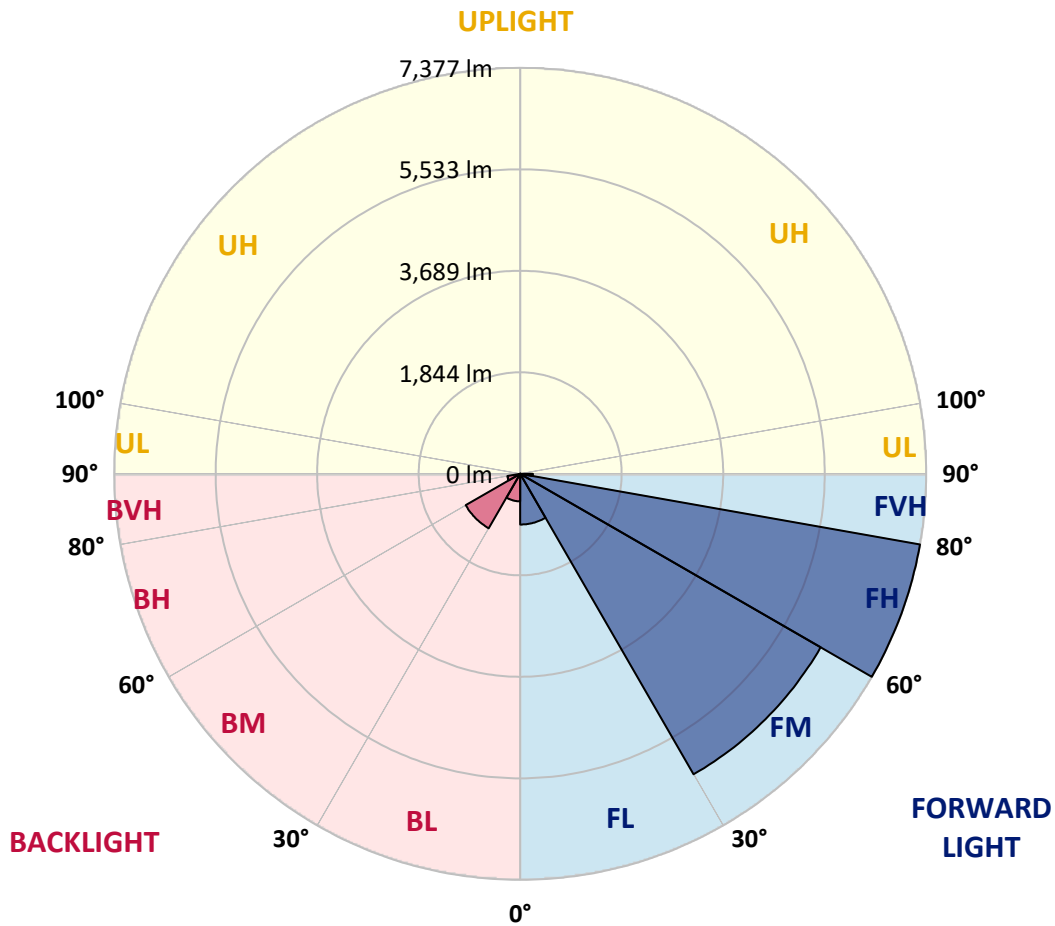
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.5	5.5			
FM (30°-60°)	6304.0	37.7			
FH (60°-80°)	7377.4	44.1			G3/7500
FVH (80°-90°)	232.6	1.4			G3/500
BL (0°-30°)	499.9	3.0	B1/500		
BM (30°-60°)	1142.2	6.8	B2/2500		
BH (60°-80°)	236.1	1.4	B1/500		G1/500
BVH (80°-90°)	3.2	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-G3

Type IV Short



REPORT NUMBER: P943598
 CATALOG NUMBER: GALN-SB8A-927-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9
2.5°	2315.1	2334.7	2338.3	2344.5	2344.5	2351.8	2364.1	2381.2	2409.4	2424.1
5°	2133.8	2148.5	2166.8	2181.5	2209.7	2213.4	2261.2	2307.7	2372.6	2421.6
7.5°	1951.3	1968.4	1992.9	2028.4	2065.2	2076.2	2148.5	2226.9	2329.8	2421.6
10°	1822.7	1823.9	1845.9	1881.4	1940.2	1953.7	2041.9	2153.4	2282.0	2406.9
12.5°	1750.4	1759.0	1768.8	1795.7	1852.1	1860.6	1954.9	2086.0	2234.2	2398.4
15°	1750.4	1756.5	1762.6	1776.1	1821.4	1828.8	1912.1	2043.1	2209.7	2402.0
17.5°	1768.8	1778.6	1773.7	1789.6	1837.4	1842.3	1915.7	2030.9	2208.5	2425.3
20°	1812.9	1820.2	1810.4	1820.2	1868.0	1877.8	1953.7	2054.2	2229.3	2465.7
22.5°	1882.7	1886.3	1863.1	1870.4	1919.4	1931.7	2019.9	2120.3	2279.5	2530.6
25°	1970.9	1978.2	1942.7	1951.3	1997.8	2012.5	2114.2	2219.5	2359.2	2620.1
27.5°	2072.5	2076.2	2045.6	2044.4	2104.4	2125.2	2228.1	2342.0	2465.7	2732.8
30°	2188.9	2199.9	2170.5	2165.6	2241.6	2258.7	2360.4	2492.7	2622.5	2901.8
32.5°	2280.8	2289.3	2272.2	2284.4	2361.6	2375.1	2520.8	2705.8	2868.7	3141.9
35°	2413.1	2418.0	2378.8	2400.8	2489.0	2523.3	2740.1	3004.7	3178.6	3443.2
37.5°	2892.0	2892.0	2725.4	2616.4	2700.9	2731.5	3040.2	3380.7	3560.8	3847.4
40°	3554.7	3543.6	3299.9	3077.0	3065.9	3125.9	3467.7	3854.8	4054.4	4332.5
42.5°	4261.4	4244.3	3912.3	3691.9	3655.1	3675.9	3961.3	4439.0	4642.4	4924.1
45°	4888.6	4883.7	4579.9	4283.5	4217.3	4283.5	4577.5	5122.5	5268.3	5564.7
47.5°	5414.1	5414.1	5192.4	4998.8	4964.5	5003.7	5411.6	5880.7	5867.3	6247.0
50°	6019.2	6014.3	5803.6	5720.3	5755.8	5810.9	6371.9	6679.4	6487.1	6917.0
52.5°	6443.0	6472.4	6400.1	6386.6	6567.9	6663.5	7347.0	7460.9	7042.0	7552.7
55°	6778.6	6812.9	6896.2	6990.5	7339.6	7464.5	8291.4	8201.9	7506.2	8103.9
57.5°	7253.9	7204.9	7333.5	7519.7	8084.3	8235.0	9206.4	8901.4	7879.8	8551.0
60°	7830.8	7838.1	7860.2	8095.4	8827.9	9021.4	10107.9	9562.8	8119.9	8825.4
62.5°	8524.1	8535.1	8580.4	8941.8	9826.2	10008.7	11068.2	10104.2	8230.1	8748.2
65°	8476.3	8522.9	9028.7	10264.7	11343.8	11523.9	12189.0	10483.9	8063.5	8042.7
67.5°	7721.8	7797.7	8644.1	11844.8	13631.9	13832.8	13543.7	10558.6	7344.5	6254.3
70°	6732.1	6759.0	7776.9	13265.7	16281.4	16484.7	14756.4	9736.7	5573.3	3488.5
72.5°	5257.3	5263.4	6457.7	13595.2	17719.4	17730.4	13804.6	7228.1	2997.3	1340.0
75°	3755.5	3718.8	4325.1	11025.3	15589.3	15714.3	10349.2	3390.5	1145.3	633.3
77.5°	2013.7	2054.2	2447.4	6538.5	10769.3	10982.5	5646.8	977.5	583.1	431.2
80°	622.2	656.5	1003.2	2993.7	6100.0	6228.6	2093.4	434.8	406.7	307.5
82.5°	196.0	203.3	467.9	1258.0	2531.9	2590.7	606.3	246.2	278.1	203.3
85°	56.3	57.6	208.2	469.1	625.9	638.2	170.3	95.5	159.2	126.2
87.5°	6.1	19.6	78.4	78.4	55.1	53.9	18.4	20.8	45.3	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943598
 CATALOG NUMBER: GALN-SB8A-927-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2422.9	0°	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9	2422.9
2433.9	2.5°	2427.8	2429.0	2413.1	2386.1	2356.7	2332.2	2301.6	2277.1	2259.9	2255.0
2455.9	5°	2444.9	2436.3	2391.0	2308.9	2210.9	2126.4	2032.1	1957.4	1908.4	1887.6
2479.2	7.5°	2470.6	2446.1	2346.9	2185.2	1997.8	1831.2	1662.2	1531.1	1447.8	1406.2
2501.2	10°	2492.7	2443.7	2273.4	2006.4	1719.8	1467.4	1239.6	1081.6	993.4	951.7
2527.0	12.5°	2513.5	2442.5	2177.9	1794.5	1406.2	1097.5	885.6	807.2	782.7	774.1
2568.6	15°	2552.7	2446.1	2057.8	1551.9	1093.8	829.3	752.1	750.9	755.8	753.3
2632.3	17.5°	2606.6	2449.8	1921.9	1294.7	844.0	731.3	727.6	738.6	746.0	742.3
2711.9	20°	2676.4	2464.5	1777.3	1039.9	725.1	706.8	715.3	725.1	731.3	725.1
2818.5	22.5°	2774.4	2490.2	1619.3	835.4	687.2	692.1	699.4	710.4	716.6	708.0
2954.5	25°	2894.4	2530.6	1463.8	726.4	668.8	674.9	685.9	698.2	705.5	697.0
3125.9	27.5°	3050.0	2595.6	1320.4	701.9	650.4	654.1	670.0	688.4	698.2	687.2
3369.7	30°	3275.4	2702.1	1196.7	712.9	639.4	630.8	652.9	678.6	689.6	679.8
3701.7	32.5°	3574.3	2852.8	1120.8	730.0	634.5	603.9	624.7	657.8	676.1	670.0
4135.3	35°	3966.2	3081.9	1091.4	749.6	630.8	575.7	590.4	625.9	657.8	663.9
4681.6	37.5°	4441.5	3400.3	1100.0	758.2	619.8	552.4	559.8	590.4	632.0	651.6
5296.5	40°	4981.7	3771.5	1149.0	749.6	607.6	532.8	534.1	557.3	594.1	623.5
5957.9	42.5°	5539.0	4205.1	1239.6	717.8	596.5	515.7	512.0	527.9	552.4	573.3
6618.1	45°	6069.4	4650.9	1329.0	673.7	583.1	498.5	490.0	496.1	501.0	509.6
7261.2	47.5°	6532.4	4964.5	1303.3	633.3	564.7	478.9	464.2	461.8	447.1	445.9
7835.7	50°	6852.1	5033.1	1157.5	592.9	537.7	456.9	433.6	418.9	393.2	380.9
8265.6	52.5°	6953.8	4762.4	945.6	552.4	493.6	427.5	394.4	371.1	339.3	328.3
8513.1	55°	6819.0	4232.0	755.8	503.4	432.4	388.3	351.5	320.9	295.2	281.7
8540.0	57.5°	6489.5	3557.1	597.8	445.9	367.5	344.2	307.5	276.8	254.8	241.3
8241.1	60°	5943.2	2824.6	472.8	377.3	313.6	296.4	258.5	238.9	219.3	203.3
7469.4	62.5°	5114.0	2016.2	371.1	298.9	262.1	242.5	220.5	205.8	182.5	160.5
6081.6	65°	3990.7	1233.5	286.6	219.3	210.7	200.9	187.4	173.9	145.8	123.7
3967.5	67.5°	2517.2	584.3	204.6	165.4	166.6	161.7	155.6	144.5	123.7	104.1
1777.3	70°	1108.5	283.0	134.7	126.2	123.7	123.7	128.6	124.9	105.3	87.0
617.4	72.5°	377.3	151.9	100.4	95.5	89.4	88.2	107.8	104.1	84.5	67.4
307.5	75°	197.2	101.7	73.5	68.6	53.9	64.9	85.7	80.8	60.0	44.1
203.3	77.5°	128.6	72.3	50.2	44.1	30.6	42.9	63.7	56.3	35.5	22.0
133.5	80°	80.8	47.8	29.4	20.8	14.7	23.3	34.3	24.5	13.5	4.9
78.4	82.5°	42.9	24.5	11.0	7.3	6.1	7.3	8.6	6.1	2.4	0.0
40.4	85°	17.1	8.6	3.7	2.4	1.2	0.0	2.4	1.2	0.0	0.0
7.3	87.5°	6.1	1.2	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°
2422.9
2263.6
1894.9
1412.3
953.0
771.7
752.1
741.1
723.9
706.8
695.7
687.2
678.6
670.0
663.9
656.5
633.3
581.8
514.5
444.6
382.2
327.0
281.7
238.9
199.7
156.8
120.0
101.7
83.3
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