

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: P953669

Luminaire Tested: **GALN-SB7A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953669
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-SB7A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA 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: 14958 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

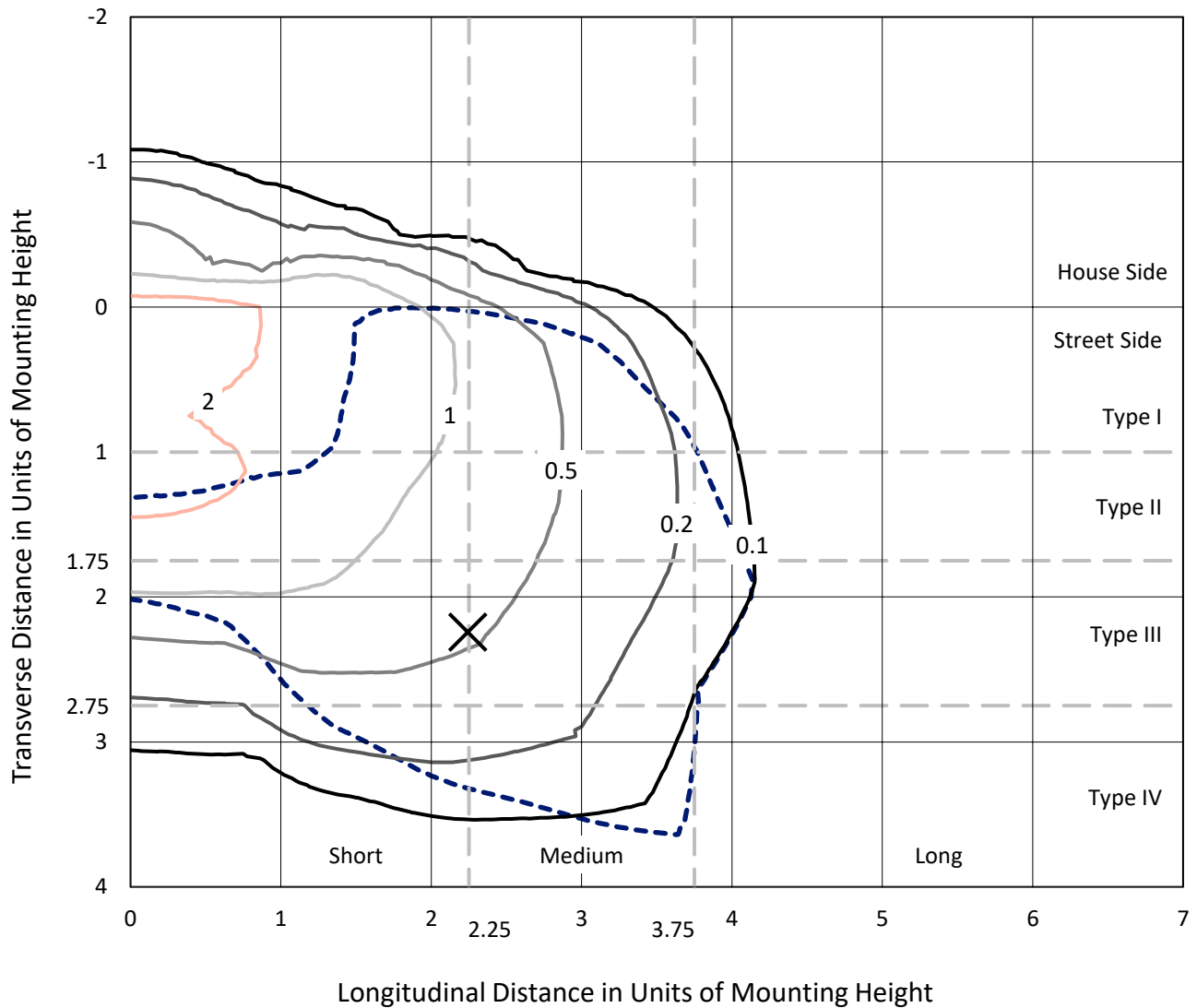
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

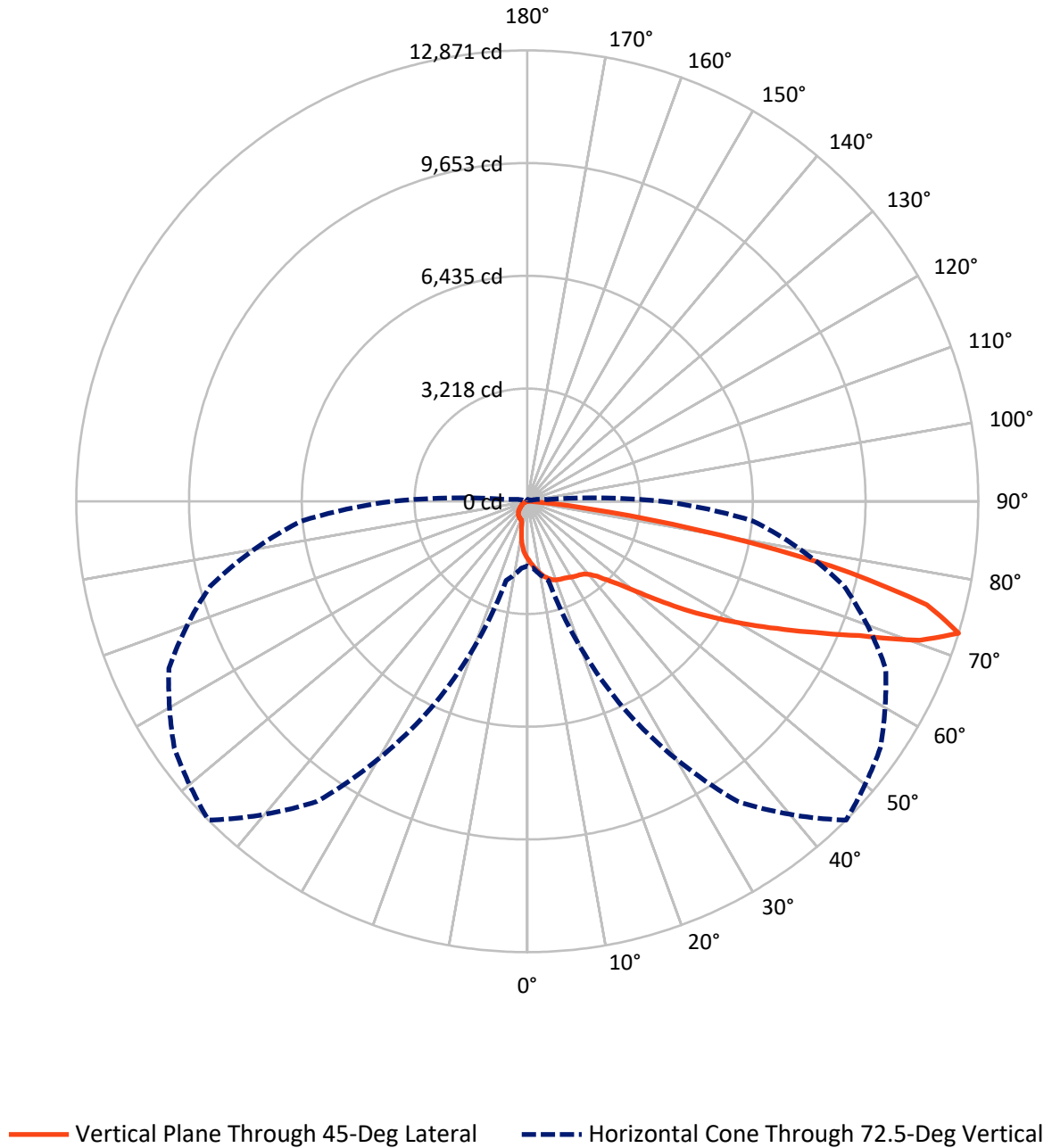
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1571.7	0.0	1571.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13386.3	0.0	13386.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	14958.0	0.0	14958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.0
10°-20°	451.2	3.0
20°-30°	741.0	5.0
30°-40°	1050.9	7.0
40°-50°	1737.0	11.6
50°-60°	3120.4	20.9
60°-70°	4332.9	29.0
70°-80°	3142.9	21.0
80°-90°	227.2	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°	14958.0	100.0
0°-180°	14958.0	100.0

Coefficient of Utilization



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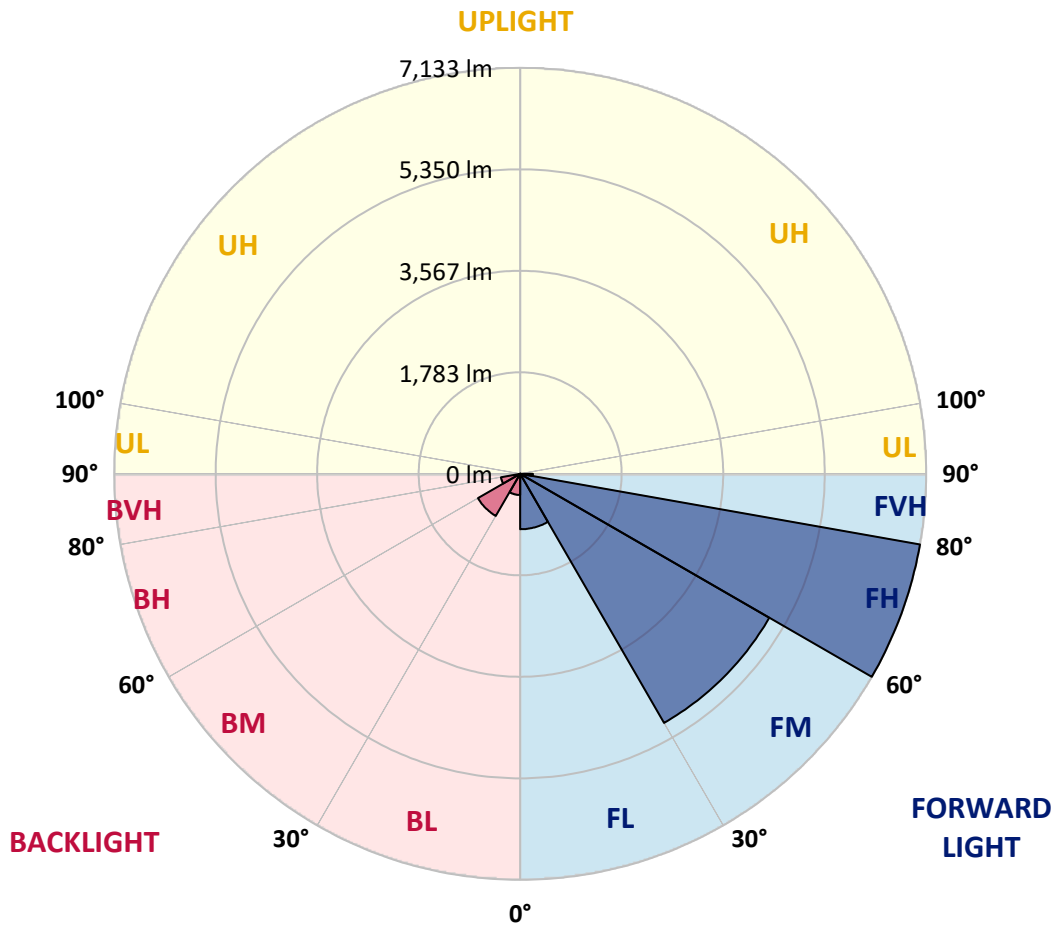
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.4	6.5			
FM (30°-60°)	5053.6	33.8			
FH (60°-80°)	7133.0	47.7			G3/7500
FVH (80°-90°)	225.3	1.5			G3/500
BL (0°-30°)	372.3	2.5	B1/500		
BM (30°-60°)	854.8	5.7	B1/1000		
BH (60°-80°)	342.7	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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1789.8	1792.8	1790.8	1778.6	1758.1	1746.9	1740.8	1720.4	1707.1	1683.6
5°	1954.2	1966.4	1959.3	1934.8	1896.0	1868.4	1860.2	1818.4	1780.6	1736.7
7.5°	2128.8	2134.9	2121.6	2090.0	2037.9	1990.9	1983.8	1925.6	1865.3	1798.0
10°	2279.9	2287.0	2266.6	2220.6	2161.4	2103.2	2093.0	2028.7	1957.2	1874.5
12.5°	2406.5	2413.6	2387.1	2331.9	2266.6	2206.3	2196.1	2128.8	2050.1	1958.2
15°	2502.4	2515.7	2480.0	2420.8	2350.3	2290.1	2285.0	2218.6	2142.0	2039.9
17.5°	2558.6	2571.9	2538.2	2466.7	2406.5	2355.4	2349.3	2294.2	2222.7	2124.7
20°	2567.8	2580.0	2544.3	2482.0	2432.0	2391.1	2388.1	2348.3	2296.2	2202.3
22.5°	2540.2	2555.5	2522.9	2472.8	2438.1	2416.7	2412.6	2390.1	2360.5	2280.9
25°	2511.6	2523.9	2499.4	2455.5	2437.1	2435.0	2438.1	2434.0	2427.9	2360.5
27.5°	2509.6	2522.9	2495.3	2453.4	2443.2	2464.7	2467.7	2487.1	2492.2	2433.0
30°	2526.9	2536.1	2509.6	2465.7	2460.6	2509.6	2510.6	2545.3	2553.5	2494.3
32.5°	2564.7	2574.9	2548.4	2484.1	2476.9	2545.3	2548.4	2594.3	2607.6	2559.6
35°	2653.5	2665.8	2635.2	2535.1	2509.6	2579.0	2588.2	2642.3	2668.9	2629.0
37.5°	2875.1	2839.4	2797.5	2638.2	2584.1	2632.1	2647.4	2710.7	2757.7	2711.7
40°	3425.4	3313.1	3182.4	2813.8	2714.8	2745.4	2757.7	2821.0	2885.3	2840.4
42.5°	4251.4	4118.7	3908.3	3218.1	2911.8	2927.2	2936.4	2991.5	3082.4	3046.6
45°	4987.5	4939.5	4725.1	3908.3	3280.4	3204.9	3216.1	3244.7	3378.4	3365.2
47.5°	5553.1	5525.6	5360.2	4700.6	3903.2	3544.9	3576.5	3589.8	3782.7	3829.7
50°	5988.1	5977.9	5829.8	5405.1	4717.0	4046.2	4057.4	4028.8	4317.7	4434.1
52.5°	6398.5	6433.2	6324.0	6059.5	5585.8	4702.7	4700.6	4565.8	4955.9	5131.5
55°	6769.1	6781.4	6792.6	6727.3	6459.8	5450.0	5430.6	5210.1	5696.1	5877.8
57.5°	7117.3	7122.4	7222.4	7356.2	7369.5	6252.5	6216.8	5952.3	6504.7	6634.4
60°	7351.1	7374.6	7585.9	7957.6	8119.9	7080.5	7061.1	6791.6	7327.6	7387.8
62.5°	7014.2	7157.1	7690.1	8427.2	8828.5	7998.4	7989.2	7736.0	8193.4	8144.4
65°	5677.7	5919.7	6856.9	8744.7	9523.7	9023.5	9036.7	8767.2	9082.7	8923.4
67.5°	3971.6	4226.9	5335.7	8770.3	10300.7	10227.2	10303.8	9881.1	10027.1	9669.7
70°	2746.4	2878.2	3600.0	8221.0	10906.2	11885.3	11883.2	11249.2	10966.4	10009.7
72.5°	1847.0	1915.4	2338.1	6522.1	10461.0	12870.5	12811.3	12294.7	11282.9	9361.4
75°	779.0	829.0	1082.2	3665.3	8276.1	11775.0	11614.7	10865.3	10025.1	7371.5
77.5°	247.1	268.5	426.8	1312.0	4558.7	8850.9	8681.4	6785.5	6719.1	3698.0
80°	117.4	136.8	239.9	526.8	1793.9	4813.9	4790.5	3078.3	2890.4	998.5
82.5°	51.0	60.2	132.7	281.8	802.5	1717.3	1752.0	1047.5	866.8	378.8
85°	16.3	21.4	61.3	129.7	339.0	426.8	421.7	249.1	349.2	206.2
87.5°	0.0	0.0	20.4	29.6	34.7	24.5	27.6	21.4	97.0	57.2
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°
1638.7	0°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
1659.1	2.5°	1646.8	1630.5	1601.9	1575.4	1551.9	1528.4	1514.1	1493.7	1491.7	1491.7
1685.6	5°	1658.1	1631.5	1580.5	1526.4	1464.1	1404.9	1345.7	1288.5	1270.1	1256.8
1728.5	7.5°	1690.8	1648.9	1568.2	1465.1	1346.7	1217.0	1126.1	1028.1	990.4	969.9
1785.7	10°	1737.7	1680.5	1558.0	1377.3	1185.4	1008.7	879.1	772.9	732.0	714.7
1848.0	12.5°	1789.8	1719.3	1539.6	1268.1	1008.7	797.4	670.8	621.8	615.7	615.7
1922.5	15°	1852.1	1766.3	1508.0	1139.4	823.9	631.0	586.0	588.1	594.2	598.3
1995.0	17.5°	1916.4	1816.3	1458.0	995.5	660.6	567.7	568.7	571.8	576.9	580.9
2073.6	20°	1985.8	1866.4	1391.6	842.3	566.6	549.3	552.4	555.4	559.5	561.5
2147.1	22.5°	2060.3	1913.3	1313.0	692.2	535.0	534.0	535.0	538.1	543.2	543.2
2232.9	25°	2140.0	1965.4	1223.1	583.0	518.7	518.7	520.7	522.7	526.8	526.8
2315.6	27.5°	2221.7	2013.4	1128.2	525.8	504.4	503.3	503.3	506.4	508.5	509.5
2397.3	30°	2311.5	2069.5	1033.2	513.6	493.1	488.0	485.0	487.0	489.1	490.1
2483.0	32.5°	2403.4	2123.6	948.5	518.7	481.9	472.7	462.5	460.5	460.5	464.5
2571.9	35°	2505.5	2182.9	883.2	536.0	475.8	450.3	433.9	424.7	425.8	431.9
2678.0	37.5°	2628.0	2254.3	835.2	551.3	471.7	424.7	398.2	387.0	379.8	387.0
2824.0	40°	2788.3	2359.5	800.5	563.6	466.6	395.1	359.4	341.0	327.7	331.8
3050.7	42.5°	3024.2	2524.9	787.2	564.6	455.4	360.4	319.6	295.1	275.7	276.7
3391.7	45°	3355.0	2786.3	855.6	551.3	430.9	322.6	277.7	245.0	232.8	229.7
3901.2	47.5°	3808.3	3167.1	1013.8	523.8	395.1	285.9	236.9	209.3	200.1	195.0
4569.9	50°	4415.8	3656.1	1189.4	493.1	359.4	251.2	203.2	185.8	179.7	174.6
5363.2	52.5°	5120.2	4152.3	1333.4	462.5	323.7	220.5	181.7	171.5	166.4	162.3
6129.0	55°	5766.5	4494.4	1325.2	429.8	288.9	196.0	166.4	160.3	154.2	150.1
6788.5	57.5°	6168.8	4542.4	1092.5	394.1	249.1	176.6	152.1	148.0	140.9	135.8
7359.3	60°	6353.6	4268.7	765.7	347.1	209.3	158.3	136.8	134.8	125.6	118.4
7899.4	62.5°	6387.3	3760.3	510.5	288.9	174.6	140.9	121.5	118.4	106.2	93.9
8338.4	65°	6250.5	3033.3	353.3	225.6	149.1	122.5	104.1	98.0	84.7	72.5
8442.5	67.5°	5817.6	2129.8	246.1	162.3	126.6	97.0	82.7	80.7	70.4	60.2
7911.6	70°	5024.3	1214.0	164.4	121.5	100.1	66.4	65.3	67.4	57.2	49.0
6463.9	72.5°	3852.2	555.4	102.1	88.8	68.4	44.9	52.1	53.1	43.9	36.8
4032.9	75°	2267.6	237.9	64.3	57.2	34.7	29.6	37.8	38.8	29.6	23.5
1474.3	77.5°	771.9	89.8	40.8	33.7	17.4	16.3	24.5	24.5	16.3	9.2
296.1	80°	175.6	33.7	20.4	13.3	8.2	7.1	8.2	7.1	4.1	1.0
90.9	82.5°	50.0	13.3	8.2	5.1	3.1	3.1	1.0	0.0	0.0	0.0
31.7	85°	14.3	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	6.1	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°
1638.7
1496.8
1263.0
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510.5
492.1
467.6
434.9
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