

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: P941518

Luminaire Tested: **GALN-SB5A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941518
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-SB5A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 15416 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

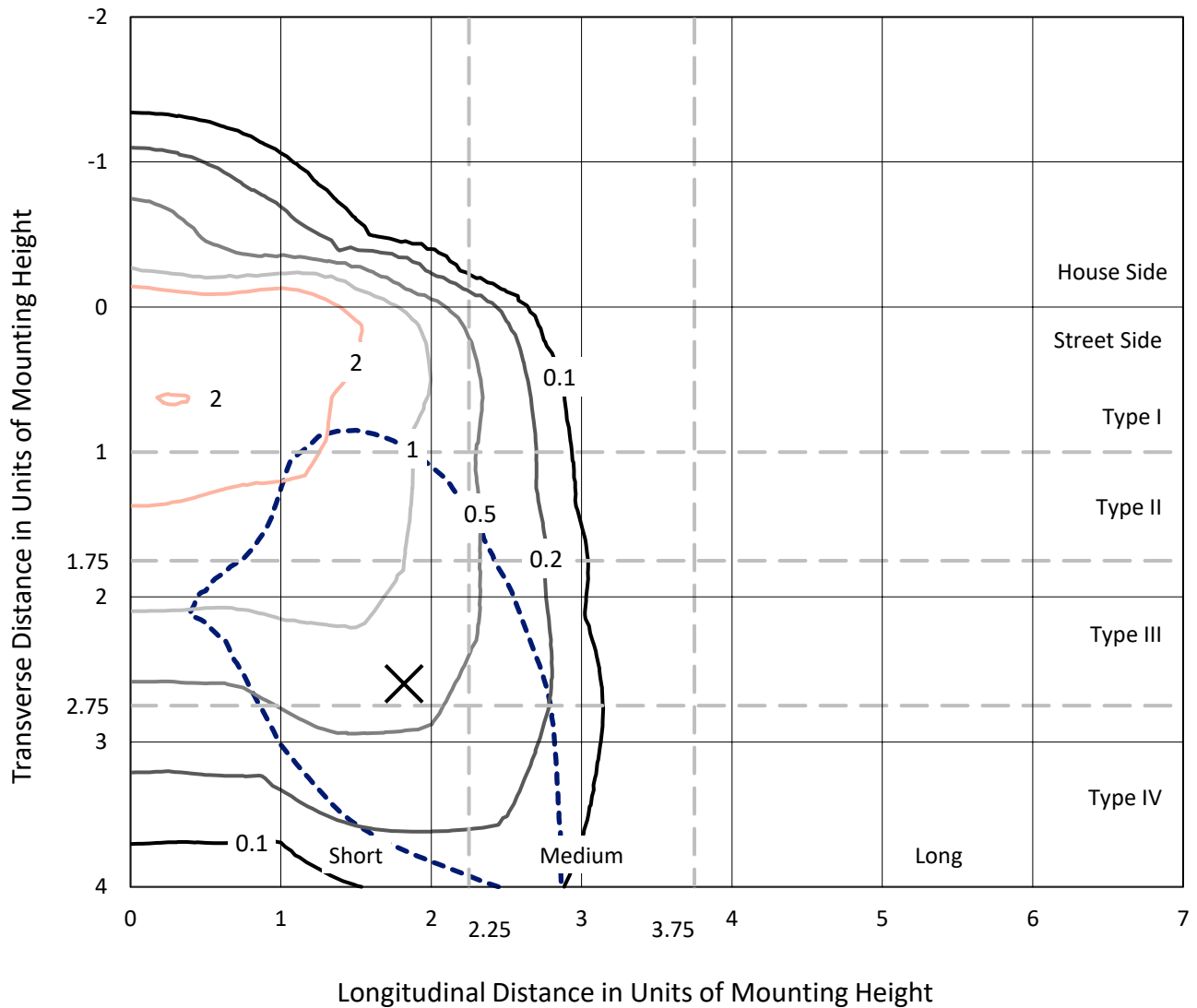
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

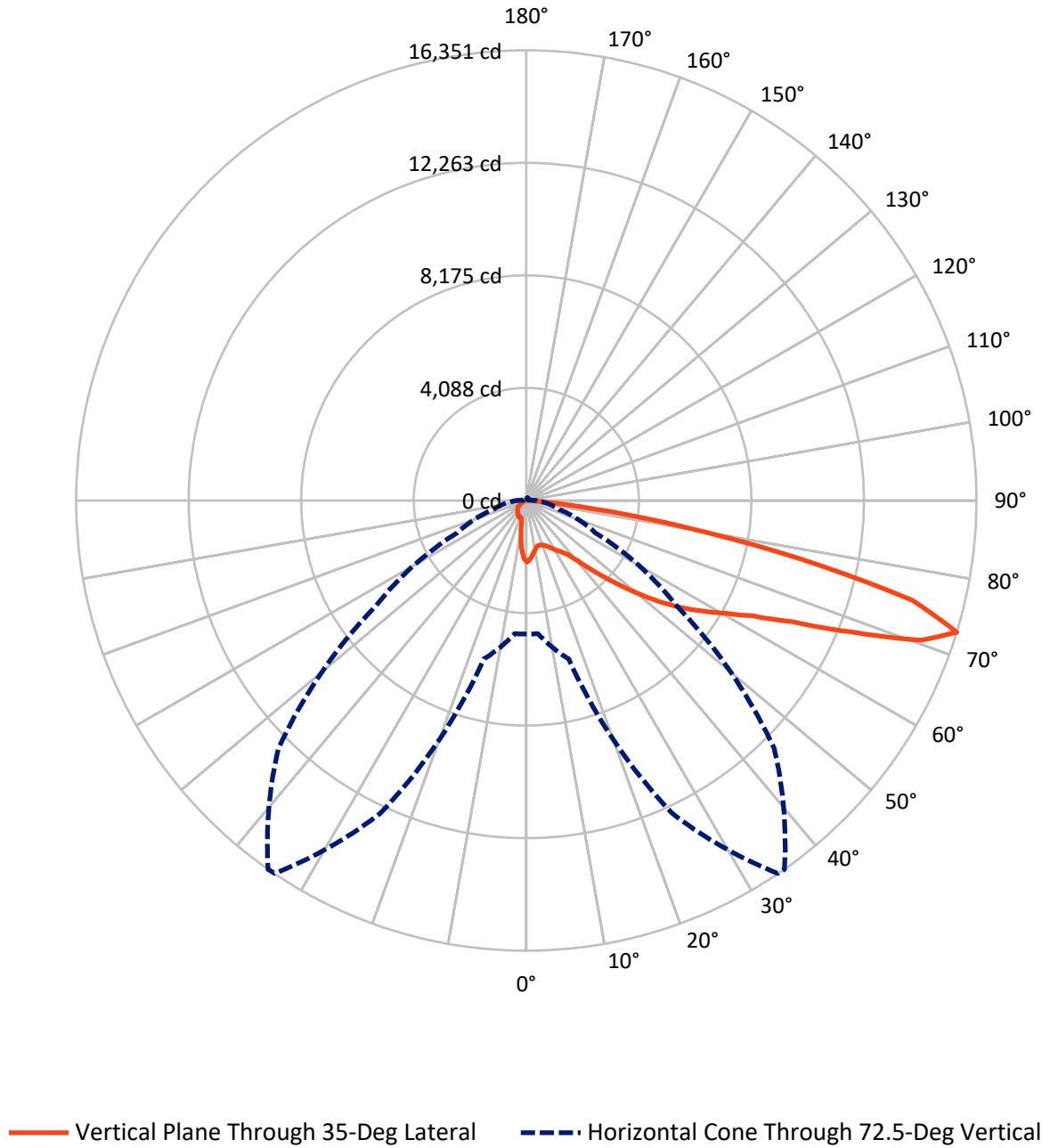
✕ Max cd
 - - - 1/2 Max cd



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	1735.0	0.0	1735.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13681.0	0.0	13681.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	15416.0	0.0	15416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.2
10°-20°	429.5	2.8
20°-30°	697.7	4.5
30°-40°	1164.2	7.6
40°-50°	2202.6	14.3
50°-60°	3499.9	22.7
60°-70°	4329.6	28.1
70°-80°	2691.3	17.5
80°-90°	217.5	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°	15416.0	100.0
0°-180°	15416.0	100.0

Coefficient of Utilization



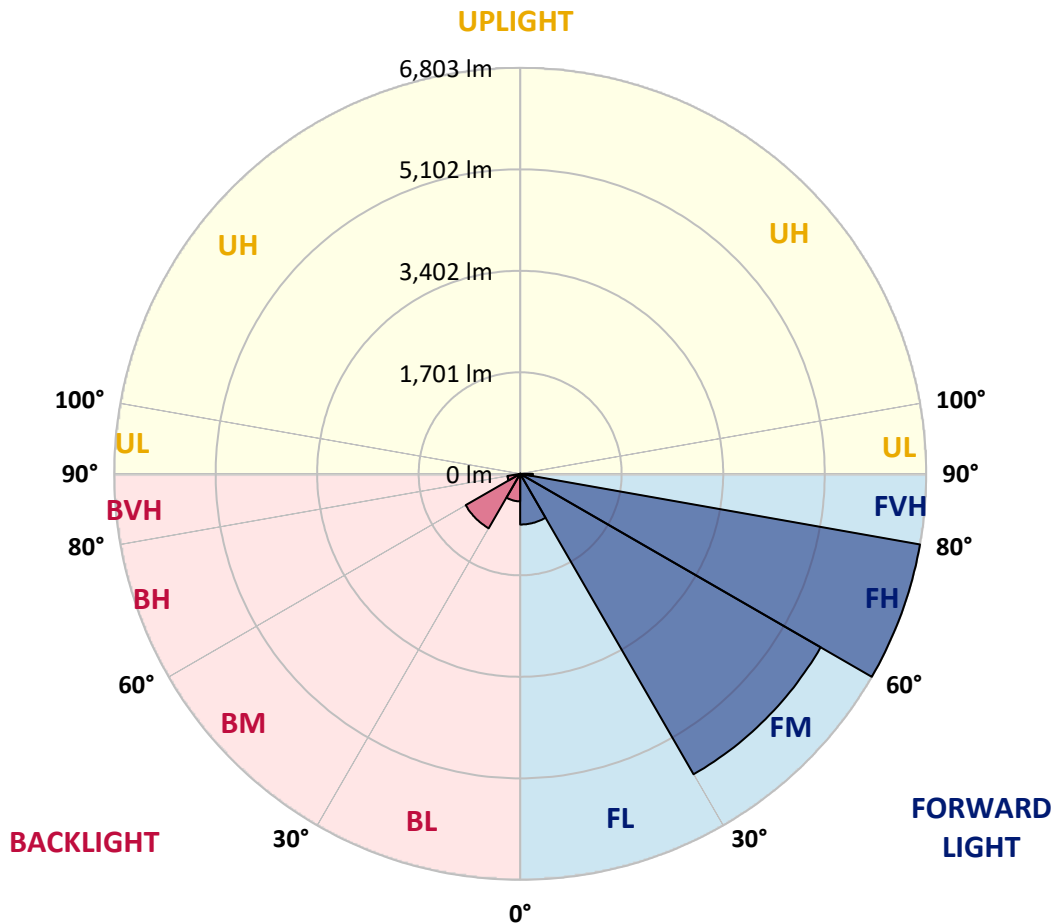
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.8	5.5			
FM (30°-60°)	5813.4	37.7			
FH (60°-80°)	6803.3	44.1			G3/7500
FVH (80°-90°)	214.5	1.4			G2/225
BL (0°-30°)	461.0	3.0	B1/500		
BM (30°-60°)	1053.3	6.8	B2/2500		
BH (60°-80°)	217.7	1.4	B1/500		G1/500
BVH (80°-90°)	3.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3
2.5°	2134.9	2153.0	2156.4	2162.0	2162.0	2168.8	2180.1	2195.9	2221.9	2235.4
5°	1967.7	1981.3	1998.2	2011.8	2037.7	2041.1	2085.2	2128.1	2188.0	2233.2
7.5°	1799.4	1815.2	1837.8	1870.6	1904.5	1914.6	1981.3	2053.6	2148.4	2233.2
10°	1680.8	1681.9	1702.3	1735.0	1789.2	1801.7	1883.0	1985.8	2104.4	2219.6
12.5°	1614.2	1622.1	1631.1	1656.0	1707.9	1715.8	1802.8	1923.7	2060.3	2211.7
15°	1614.2	1619.8	1625.5	1637.9	1679.7	1686.5	1763.3	1884.1	2037.7	2215.1
17.5°	1631.1	1640.1	1635.6	1650.3	1694.4	1698.9	1766.7	1872.8	2036.6	2236.6
20°	1671.8	1678.5	1669.5	1678.5	1722.6	1731.6	1801.7	1894.3	2055.8	2273.8
22.5°	1736.2	1739.5	1718.1	1724.9	1770.0	1781.3	1862.7	1955.3	2102.1	2333.7
25°	1817.5	1824.3	1791.5	1799.4	1842.3	1855.9	1949.6	2046.8	2175.6	2416.2
27.5°	1911.2	1914.6	1886.4	1885.3	1940.6	1959.8	2054.7	2159.7	2273.8	2520.1
30°	2018.5	2028.7	2001.6	1997.1	2067.1	2082.9	2176.7	2298.7	2418.4	2676.0
32.5°	2103.3	2111.2	2095.4	2106.7	2177.8	2190.2	2324.7	2495.2	2645.5	2897.4
35°	2225.3	2229.8	2193.6	2214.0	2295.3	2326.9	2526.9	2770.8	2931.2	3175.2
37.5°	2666.9	2666.9	2513.3	2412.8	2490.7	2518.9	2803.6	3117.6	3283.7	3548.0
40°	3278.0	3267.9	3043.1	2837.5	2827.3	2882.7	3197.8	3554.8	3738.9	3995.3
42.5°	3929.8	3914.0	3607.9	3404.5	3370.6	3389.8	3653.0	4093.6	4281.1	4540.9
45°	4508.1	4503.6	4223.5	3950.1	3889.1	3950.1	4221.2	4723.9	4858.3	5131.6
47.5°	4992.7	4992.7	4788.3	4609.8	4578.2	4614.3	4990.5	5423.1	5410.7	5760.8
50°	5550.7	5546.2	5351.9	5275.1	5307.9	5358.7	5876.0	6159.6	5982.2	6378.7
52.5°	5941.6	5968.7	5902.0	5889.6	6056.8	6144.9	6775.2	6880.2	6493.9	6964.9
55°	6251.1	6282.7	6359.5	6446.5	6768.4	6883.6	7646.1	7563.6	6922.0	7473.3
57.5°	6689.3	6644.1	6762.8	6934.4	7455.2	7594.1	8489.9	8208.6	7266.5	7885.5
60°	7221.4	7228.1	7248.5	7465.3	8140.8	8319.3	9321.2	8818.6	7487.9	8138.6
62.5°	7860.7	7870.9	7912.7	8245.9	9061.4	9229.7	10206.8	9317.8	7589.6	8067.4
65°	7816.6	7859.6	8326.1	9465.8	10461.0	10627.0	11240.4	9668.0	7436.0	7416.8
67.5°	7120.8	7190.9	7971.4	10923.0	12571.0	12756.3	12489.7	9736.9	6772.9	5767.6
70°	6208.1	6233.0	7171.7	12233.3	15014.3	15201.8	13608.0	8979.0	5139.6	3217.0
72.5°	4848.1	4853.8	5955.1	12537.1	16340.4	16350.6	12730.3	6665.6	2764.1	1235.8
75°	3463.3	3429.4	3988.5	10167.3	14376.1	14491.3	9543.8	3126.7	1056.2	584.0
77.5°	1857.0	1894.3	2256.9	6029.7	9931.2	10127.8	5207.3	901.4	537.7	397.6
80°	573.8	605.5	925.1	2760.7	5625.3	5743.9	1930.4	401.0	375.0	283.5
82.5°	180.7	187.5	431.5	1160.1	2334.8	2389.0	559.1	227.0	256.4	187.5
85°	52.0	53.1	192.0	432.6	577.2	588.5	157.0	88.1	146.8	116.3
87.5°	5.6	18.1	72.3	72.3	50.8	49.7	16.9	19.2	41.8	14.7
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°
2234.3	0°	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3
2244.5	2.5°	2238.8	2239.9	2225.3	2200.4	2173.3	2150.7	2122.5	2099.9	2084.1	2079.5
2264.8	5°	2254.6	2246.7	2204.9	2129.2	2038.9	1960.9	1874.0	1805.1	1759.9	1740.7
2286.3	7.5°	2278.3	2255.8	2164.3	2015.2	1842.3	1688.7	1532.8	1412.0	1335.2	1296.7
2306.6	10°	2298.7	2253.5	2096.5	1850.2	1585.9	1353.2	1143.1	997.4	916.1	877.7
2330.3	12.5°	2317.9	2252.4	2008.4	1654.8	1296.7	1012.1	816.7	744.4	721.8	713.9
2368.7	15°	2354.0	2255.8	1897.7	1431.2	1008.7	764.7	693.6	692.4	696.9	694.7
2427.5	17.5°	2403.7	2259.1	1772.3	1194.0	778.3	674.4	671.0	681.1	687.9	684.5
2500.9	20°	2468.1	2272.7	1639.0	959.0	668.7	651.8	659.7	668.7	674.4	668.7
2599.1	22.5°	2558.5	2296.4	1493.3	770.4	633.7	638.2	645.0	655.2	660.8	652.9
2724.5	25°	2669.2	2333.7	1349.8	669.8	616.7	622.4	632.6	643.9	650.6	642.7
2882.7	27.5°	2812.6	2393.6	1217.7	647.2	599.8	603.2	617.9	634.8	643.9	633.7
3107.5	30°	3020.5	2491.8	1103.6	657.4	589.6	581.7	602.1	625.8	635.9	626.9
3413.6	32.5°	3296.1	2630.8	1033.6	673.2	585.1	556.9	576.1	606.6	623.5	617.9
3813.4	35°	3657.6	2842.0	1006.4	691.3	581.7	530.9	544.5	577.2	606.6	612.2
4317.2	37.5°	4095.8	3135.7	1014.4	699.2	571.6	509.4	516.2	544.5	582.9	600.9
4884.3	40°	4594.0	3478.0	1059.5	691.3	560.3	491.4	492.5	514.0	547.8	575.0
5494.2	42.5°	5107.9	3877.8	1143.1	661.9	550.1	475.6	472.2	486.8	509.4	528.6
6103.1	45°	5597.0	4289.0	1225.6	621.3	537.7	459.7	451.8	457.5	462.0	469.9
6696.1	47.5°	6024.0	4578.2	1201.9	584.0	520.7	441.7	428.1	425.8	412.3	411.2
7225.9	50°	6318.8	4641.4	1067.4	546.7	495.9	421.3	399.9	386.3	362.6	351.3
7622.4	52.5°	6412.6	4391.8	872.0	509.4	455.2	394.2	363.7	342.3	312.9	302.7
7850.5	55°	6288.3	3902.7	696.9	464.3	398.7	358.1	324.2	295.9	272.2	259.8
7875.4	57.5°	5984.5	3280.3	551.2	411.2	338.9	317.4	283.5	255.3	235.0	222.5
7599.8	60°	5480.7	2604.8	436.0	347.9	289.2	273.4	238.3	220.3	202.2	187.5
6888.1	62.5°	4716.0	1859.3	342.3	275.6	241.7	223.7	203.3	189.8	168.3	148.0
5608.3	65°	3680.1	1137.5	264.3	202.2	194.3	185.2	172.8	160.4	134.4	114.1
3658.7	67.5°	2321.3	538.8	188.6	152.5	153.6	149.1	143.5	133.3	114.1	96.0
1639.0	70°	1022.3	260.9	124.3	116.3	114.1	114.1	118.6	115.2	97.1	80.2
569.3	72.5°	347.9	140.1	92.6	88.1	82.5	81.3	99.4	96.0	77.9	62.1
283.5	75°	181.9	93.8	67.8	63.3	49.7	59.9	79.1	74.6	55.3	40.7
187.5	77.5°	118.6	66.6	46.3	40.7	28.2	39.5	58.7	52.0	32.8	20.3
123.1	80°	74.6	44.1	27.1	19.2	13.6	21.5	31.6	22.6	12.4	4.5
72.3	82.5°	39.5	22.6	10.2	6.8	5.6	6.8	7.9	5.6	2.3	0.0
37.3	85°	15.8	7.9	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0
6.8	87.5°	5.6	1.1	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

<u>180°</u>
2234.3
2087.5
1747.4
1302.4
878.8
711.6
693.6
683.4
667.6
651.8
641.6
633.7
625.8
617.9
612.2
605.5
584.0
536.5
474.4
410.0
352.4
301.6
259.8
220.3
184.1
144.6
110.7
93.8
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