

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: P941508

Luminaire Tested: **GALN-SB5A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941508
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 14919 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

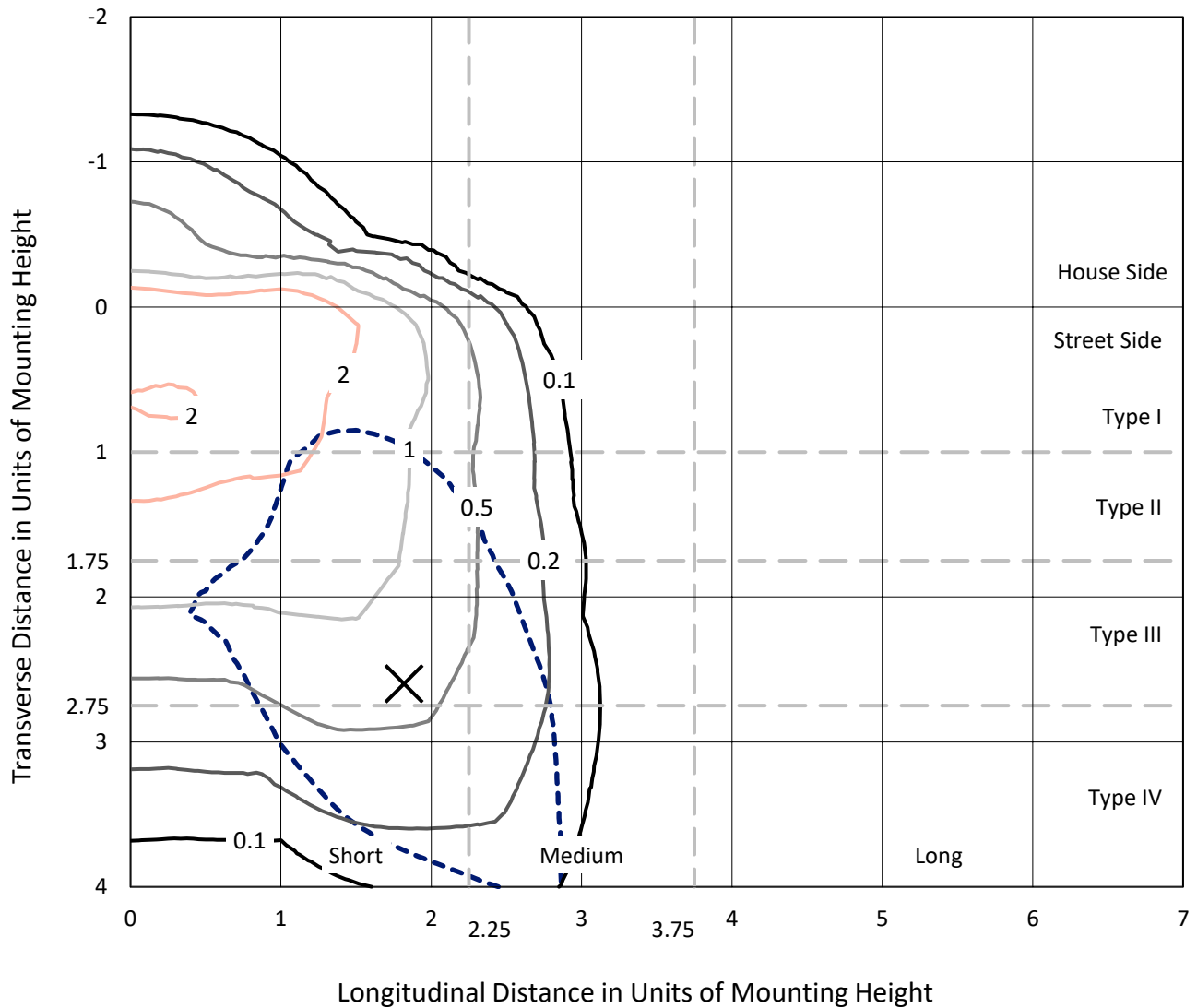
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941508
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Iso-Footcandle Lines of Horizontal Illumination

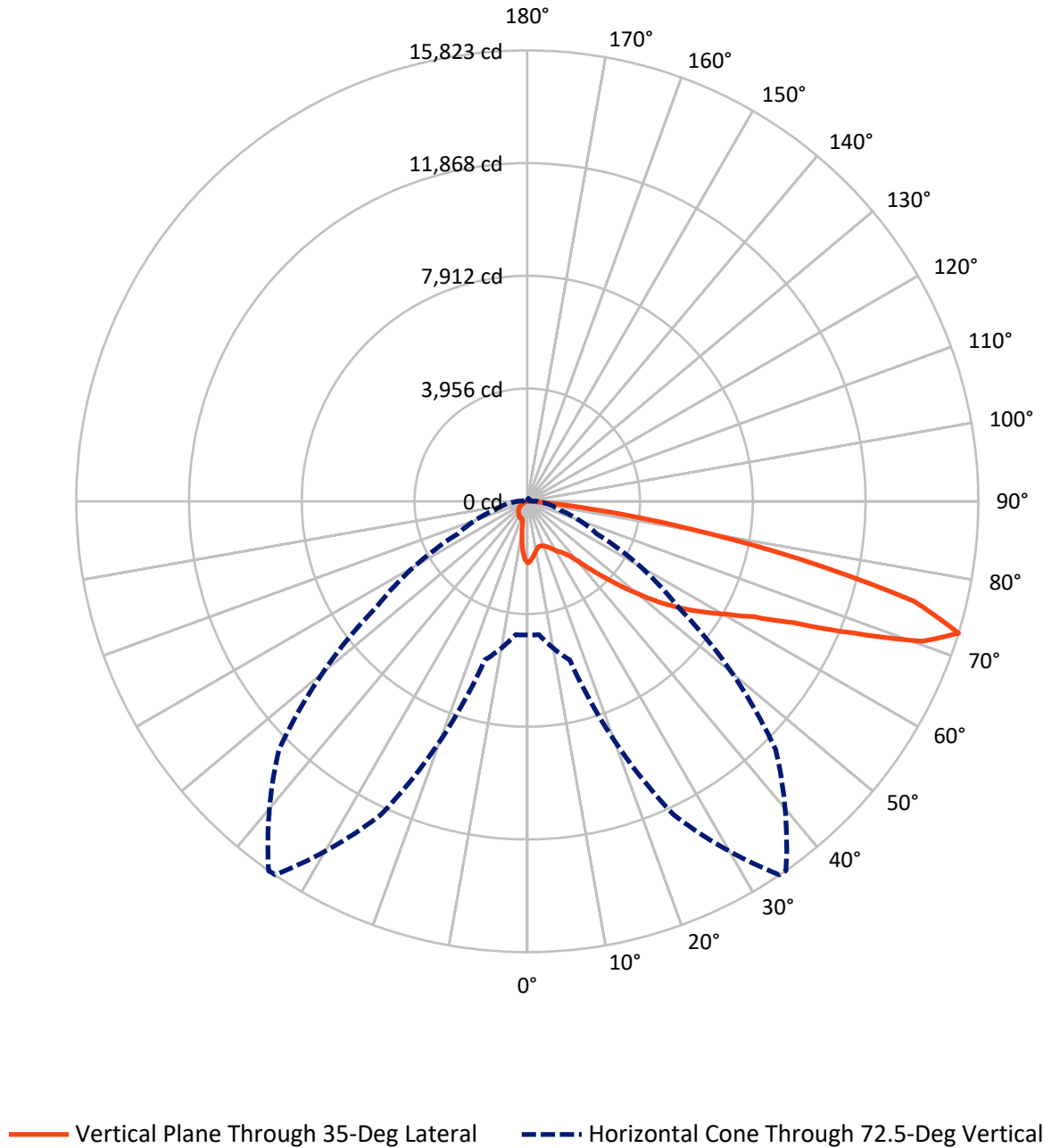
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P941508
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1679.1	0.0	1679.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13239.9	0.0	13239.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	14919.0	0.0	14919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	1.2
10°-20°	415.7	2.8
20°-30°	675.2	4.5
30°-40°	1126.6	7.6
40°-50°	2131.6	14.3
50°-60°	3387.1	22.7
60°-70°	4190.1	28.1
70°-80°	2604.6	17.5
80°-90°	210.5	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°	14919.0	100.0
0°-180°	14919.0	100.0

Coefficient of Utilization



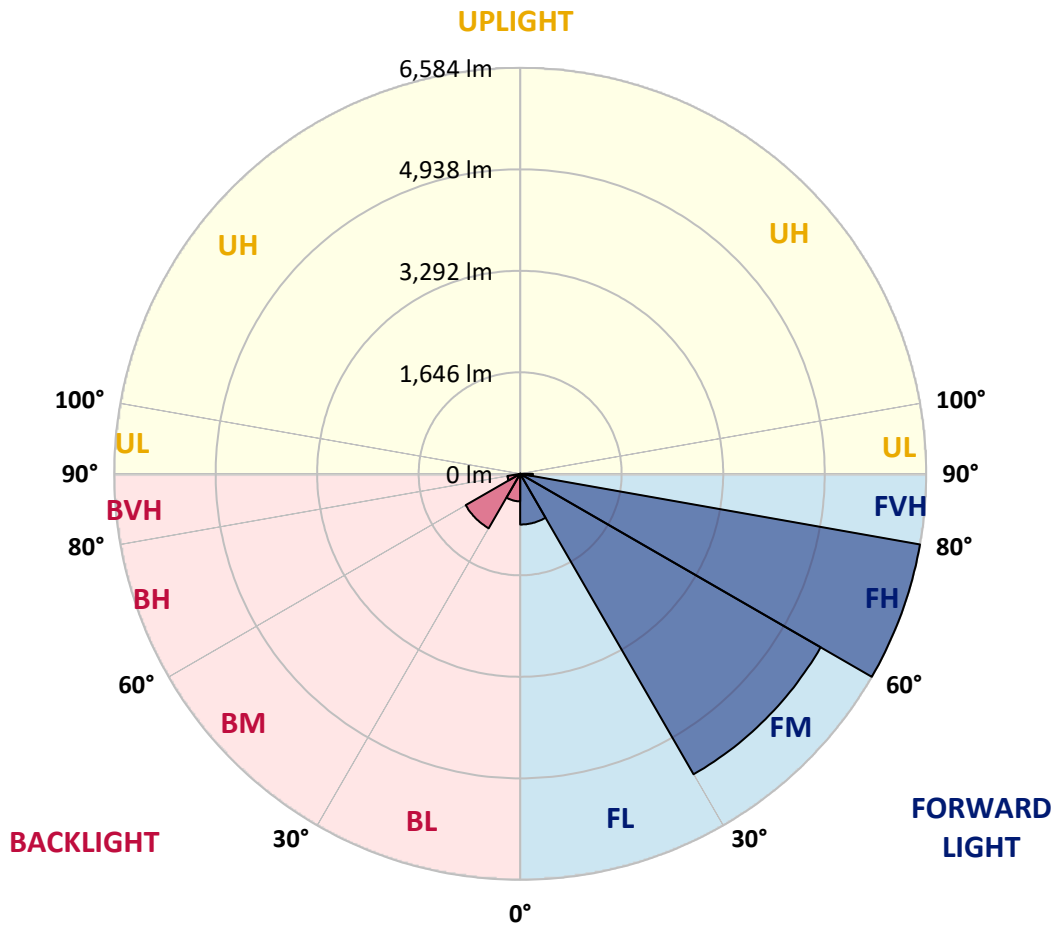
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.4	5.5			
FM (30°-60°)	5626.0	37.7			
FH (60°-80°)	6583.9	44.1			G3/7500
FVH (80°-90°)	207.6	1.4			G2/225
BL (0°-30°)	446.2	3.0	B1/500		
BM (30°-60°)	1019.3	6.8	B2/2500		
BH (60°-80°)	210.7	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3
2.5°	2066.1	2083.6	2086.8	2092.3	2092.3	2098.9	2109.8	2125.1	2150.2	2163.4
5°	1904.3	1917.4	1933.8	1946.9	1972.1	1975.3	2018.0	2059.5	2117.4	2161.2
7.5°	1741.4	1756.7	1778.6	1810.3	1843.1	1852.9	1917.4	1987.4	2079.2	2161.2
10°	1626.6	1627.7	1647.4	1679.1	1731.6	1743.6	1822.3	1921.8	2036.6	2148.1
12.5°	1562.1	1569.8	1578.5	1602.6	1652.9	1660.5	1744.7	1861.6	1993.9	2140.4
15°	1562.1	1567.6	1573.1	1585.1	1625.5	1632.1	1706.4	1823.4	1972.1	2143.7
17.5°	1578.5	1587.3	1582.9	1597.1	1639.7	1644.1	1709.7	1812.5	1971.0	2164.4
20°	1617.9	1624.4	1615.7	1624.4	1667.1	1675.8	1743.6	1833.2	1989.5	2200.5
22.5°	1680.2	1683.5	1662.7	1669.2	1713.0	1723.9	1802.6	1892.3	2034.4	2258.5
25°	1758.9	1765.4	1733.7	1741.4	1782.9	1796.1	1886.8	1980.8	2105.4	2338.3
27.5°	1849.6	1852.9	1825.6	1824.5	1878.0	1896.6	1988.5	2090.1	2200.5	2438.8
30°	1953.5	1963.3	1937.1	1932.7	2000.5	2015.8	2106.5	2224.6	2340.4	2589.7
32.5°	2035.5	2043.1	2027.8	2038.7	2107.6	2119.6	2249.7	2414.8	2560.2	2803.9
35°	2153.5	2157.9	2122.9	2142.6	2221.3	2251.9	2445.4	2681.5	2836.7	3072.9
37.5°	2580.9	2580.9	2432.3	2335.0	2410.4	2437.7	2713.2	3017.1	3177.8	3433.6
40°	3172.3	3162.5	2945.0	2746.0	2736.2	2789.7	3094.7	3440.2	3618.3	3866.5
42.5°	3803.1	3787.8	3491.5	3294.8	3262.0	3280.6	3535.3	3961.6	4143.1	4394.5
45°	4362.8	4358.4	4087.3	3822.8	3763.7	3822.8	4085.1	4571.6	4701.7	4966.2
47.5°	4831.8	4831.8	4633.9	4461.2	4430.6	4465.5	4829.6	5248.2	5236.2	5575.1
50°	5371.8	5367.4	5179.4	5105.0	5136.7	5185.9	5686.6	5961.0	5789.4	6173.1
52.5°	5750.0	5776.2	5711.7	5699.7	5861.5	5946.8	6556.8	6658.4	6284.6	6740.4
55°	6049.5	6080.1	6154.5	6238.6	6550.2	6661.7	7399.6	7319.8	6698.9	7232.3
57.5°	6473.7	6429.9	6544.7	6710.9	7214.8	7349.3	8216.2	7944.0	7032.3	7631.3
60°	6988.5	6995.1	7014.8	7224.7	7878.4	8051.1	9020.7	8534.3	7246.5	7876.2
62.5°	7607.3	7617.1	7657.6	7980.0	8769.3	8932.2	9877.8	9017.4	7344.9	7807.3
65°	7564.6	7606.2	8057.7	9160.7	10123.7	10284.4	10878.0	9356.3	7196.2	7177.7
67.5°	6891.3	6959.0	7714.4	10570.8	12165.7	12345.0	12087.0	9423.0	6554.6	5581.7
70°	6008.0	6032.0	6940.4	11838.9	14530.2	14711.7	13169.3	8689.5	4973.9	3113.3
72.5°	4691.8	4697.3	5763.1	12132.9	15813.6	15823.4	12319.9	6450.7	2675.0	1195.9
75°	3351.6	3318.8	3859.9	9839.5	13912.6	14024.1	9236.1	3025.9	1022.1	565.2
77.5°	1797.1	1833.2	2184.1	5835.3	9611.0	9801.2	5039.5	872.3	520.3	384.8
80°	555.3	585.9	895.3	2671.7	5443.9	5558.7	1868.2	388.1	362.9	274.4
82.5°	174.9	181.5	417.6	1122.7	2259.6	2312.0	541.1	219.7	248.1	181.5
85°	50.3	51.4	185.8	418.7	558.6	569.5	151.9	85.3	142.1	112.6
87.5°	5.5	17.5	70.0	70.0	49.2	48.1	16.4	18.6	40.4	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941508
 CATALOG NUMBER: GALN-SB5A-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2162.3	0°	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3
2172.1	2.5°	2166.6	2167.7	2153.5	2129.5	2103.2	2081.4	2054.0	2032.2	2016.9	2012.5
2191.8	5°	2181.9	2174.3	2133.8	2060.6	1973.1	1897.7	1813.5	1746.9	1703.1	1684.6
2212.5	7.5°	2204.9	2183.0	2094.5	1950.2	1782.9	1634.3	1483.4	1366.4	1292.1	1254.9
2232.2	10°	2224.6	2180.8	2028.9	1790.6	1534.8	1309.6	1106.3	965.3	886.5	849.4
2255.2	12.5°	2243.2	2179.8	1943.6	1601.5	1254.9	979.5	790.4	720.4	698.5	690.9
2292.3	15°	2278.1	2183.0	1836.5	1385.0	976.2	740.1	671.2	670.1	674.5	672.3
2349.2	17.5°	2326.2	2186.3	1715.2	1155.5	753.2	652.6	649.3	659.2	665.7	662.5
2420.2	20°	2388.5	2199.4	1586.2	928.1	647.1	630.8	638.4	647.1	652.6	647.1
2515.4	22.5°	2476.0	2222.4	1445.2	745.5	613.3	617.6	624.2	634.0	639.5	631.8
2636.7	25°	2583.1	2258.5	1306.3	648.2	596.9	602.3	612.2	623.1	629.7	622.0
2789.7	27.5°	2722.0	2316.4	1178.4	626.4	580.5	583.7	598.0	614.4	623.1	613.3
3007.3	30°	2923.1	2411.5	1068.0	636.2	570.6	563.0	582.7	605.6	615.4	606.7
3303.5	32.5°	3189.8	2546.0	1000.2	651.5	566.3	538.9	557.5	587.0	603.4	598.0
3690.5	35°	3539.6	2750.4	974.0	669.0	563.0	513.8	526.9	558.6	587.0	592.5
4178.0	37.5°	3963.8	3034.6	981.7	676.7	553.1	493.0	499.6	526.9	564.1	581.6
4726.8	40°	4445.9	3365.8	1025.4	669.0	542.2	475.5	476.6	497.4	530.2	556.4
5317.1	42.5°	4943.3	3752.8	1106.3	640.6	532.4	460.2	456.9	471.2	493.0	511.6
5906.3	45°	5416.6	4150.7	1186.1	601.2	520.3	444.9	437.3	442.7	447.1	454.8
6480.2	47.5°	5829.8	4430.6	1163.1	565.2	503.9	427.4	414.3	412.1	399.0	397.9
6992.9	50°	6115.1	4491.8	1033.0	529.1	479.9	407.7	387.0	373.9	350.9	340.0
7376.6	52.5°	6205.8	4250.2	843.9	493.0	440.5	381.5	352.0	331.2	302.8	293.0
7597.4	55°	6085.6	3776.9	674.5	449.3	385.9	346.5	313.7	286.4	263.5	251.4
7621.5	57.5°	5791.5	3174.5	533.5	397.9	327.9	307.2	274.4	247.1	227.4	215.4
7354.8	60°	5304.0	2520.8	422.0	336.7	279.8	264.5	230.7	213.2	195.7	181.5
6666.1	62.5°	4563.9	1799.3	331.2	266.7	233.9	216.4	196.8	183.7	162.9	143.2
5427.5	65°	3561.5	1100.8	255.8	195.7	188.0	179.3	167.3	155.2	130.1	110.4
3540.7	67.5°	2246.4	521.4	182.6	147.6	148.7	144.3	138.8	129.0	110.4	92.9
1586.2	70°	989.3	252.5	120.2	112.6	110.4	110.4	114.8	111.5	94.0	77.6
551.0	72.5°	336.7	135.6	89.6	85.3	79.8	78.7	96.2	92.9	75.4	60.1
274.4	75°	176.0	90.7	65.6	61.2	48.1	57.9	76.5	72.1	53.6	39.4
181.5	77.5°	114.8	64.5	44.8	39.4	27.3	38.3	56.8	50.3	31.7	19.7
119.2	80°	72.1	42.6	26.2	18.6	13.1	20.8	30.6	21.9	12.0	4.4
70.0	82.5°	38.3	21.9	9.8	6.6	5.5	6.6	7.7	5.5	2.2	0.0
36.1	85°	15.3	7.7	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.6	87.5°	5.5	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>
2162.3
2020.2
1691.1
1260.4
850.5
688.7
671.2
661.4
646.1
630.8
620.9
613.3
605.6
598.0
592.5
585.9
565.2
519.2
459.1
396.8
341.1
291.9
251.4
213.2
178.2
139.9
107.1
90.7
74.3
56.8
36.1
17.5
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