

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: P939978

Luminaire Tested: **GALN-SB2D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939978
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-SB2D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA 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: 13398 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

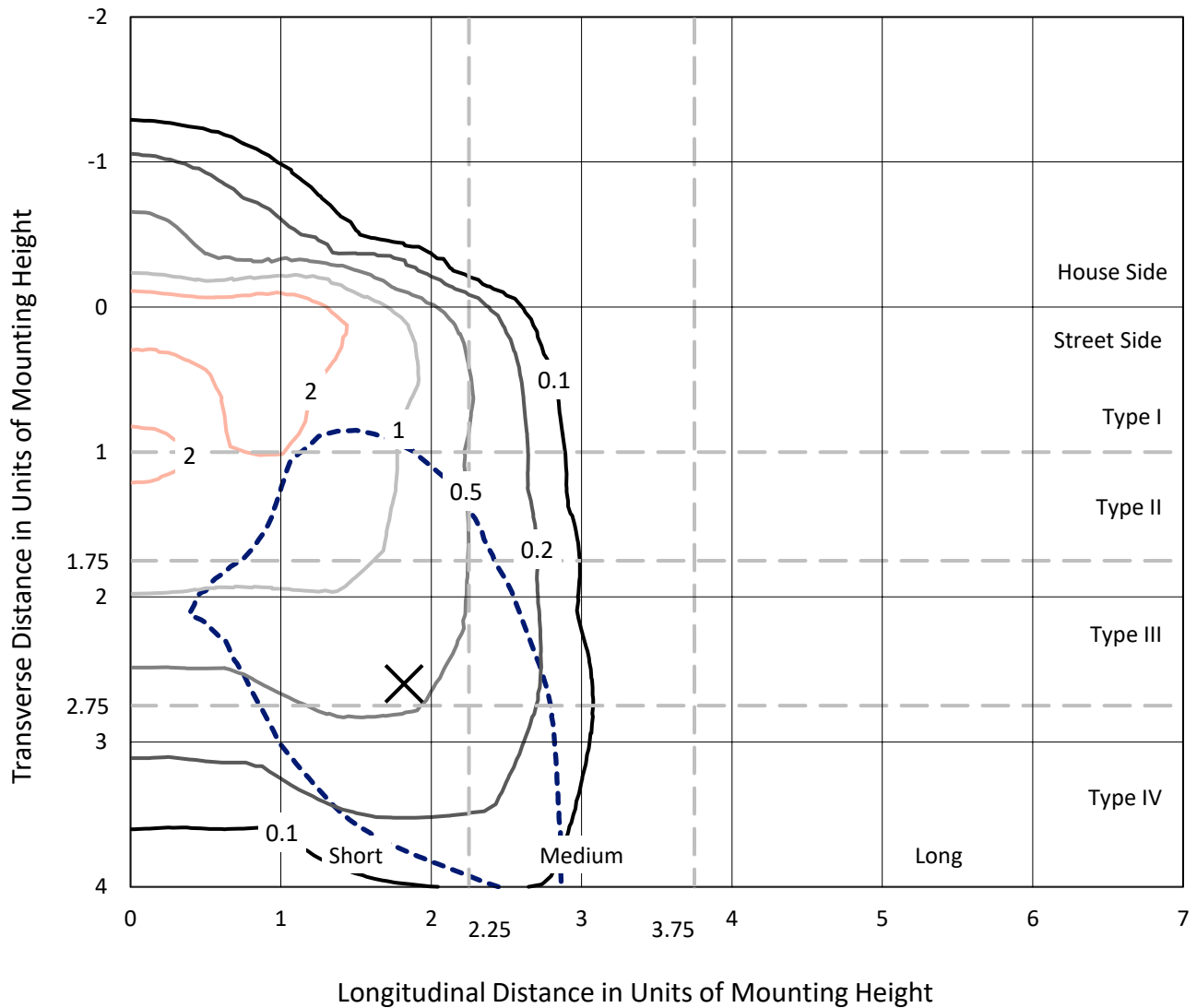
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

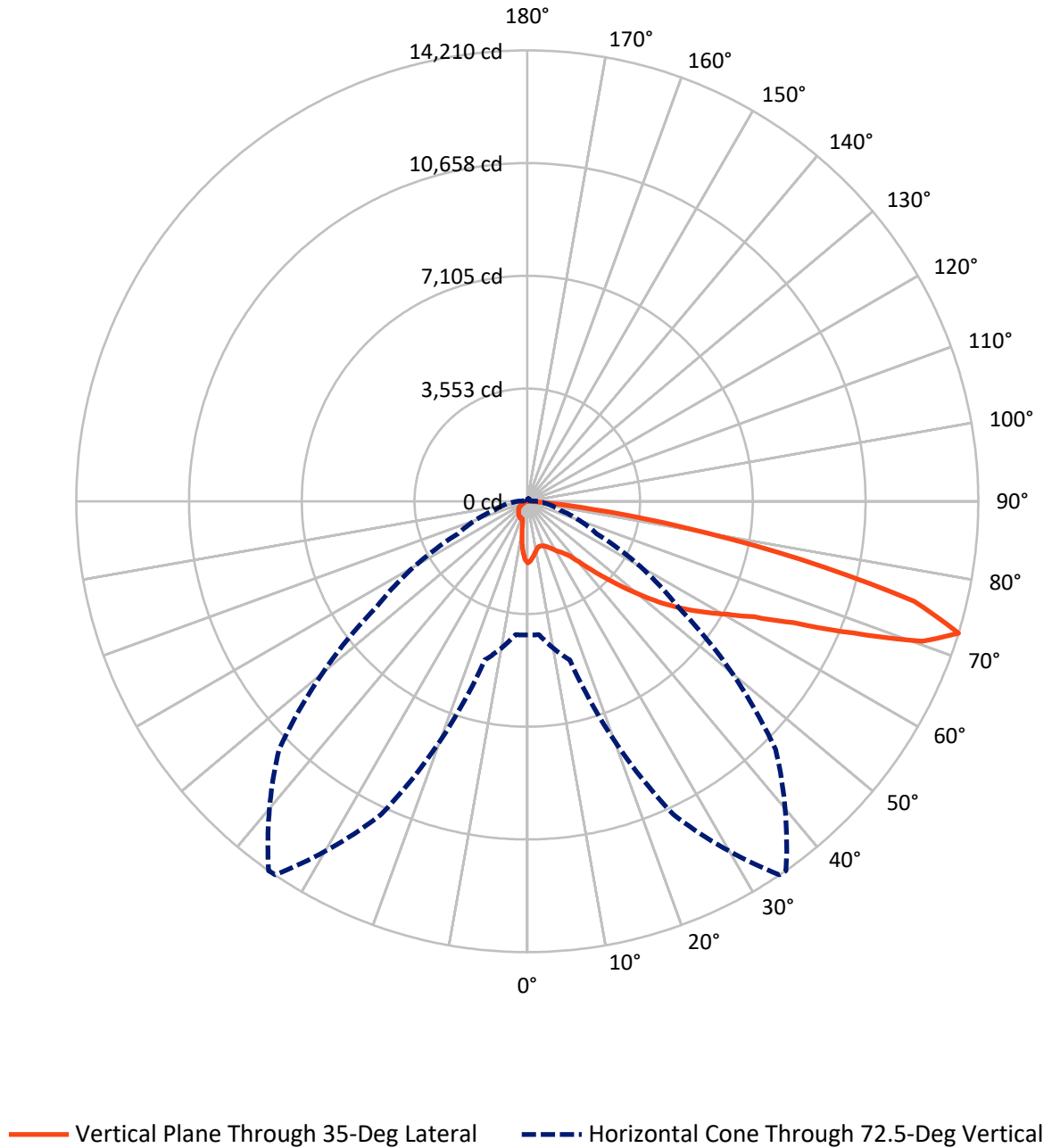
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1507.9	0.0	1507.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11890.1	0.0	11890.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	13398.0	0.0	13398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.2
10°-20°	373.3	2.8
20°-30°	606.4	4.5
30°-40°	1011.8	7.6
40°-50°	1914.3	14.3
50°-60°	3041.8	22.7
60°-70°	3762.9	28.1
70°-80°	2339.0	17.5
80°-90°	189.0	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°	13398.0	100.0
0°-180°	13398.0	100.0

Coefficient of Utilization



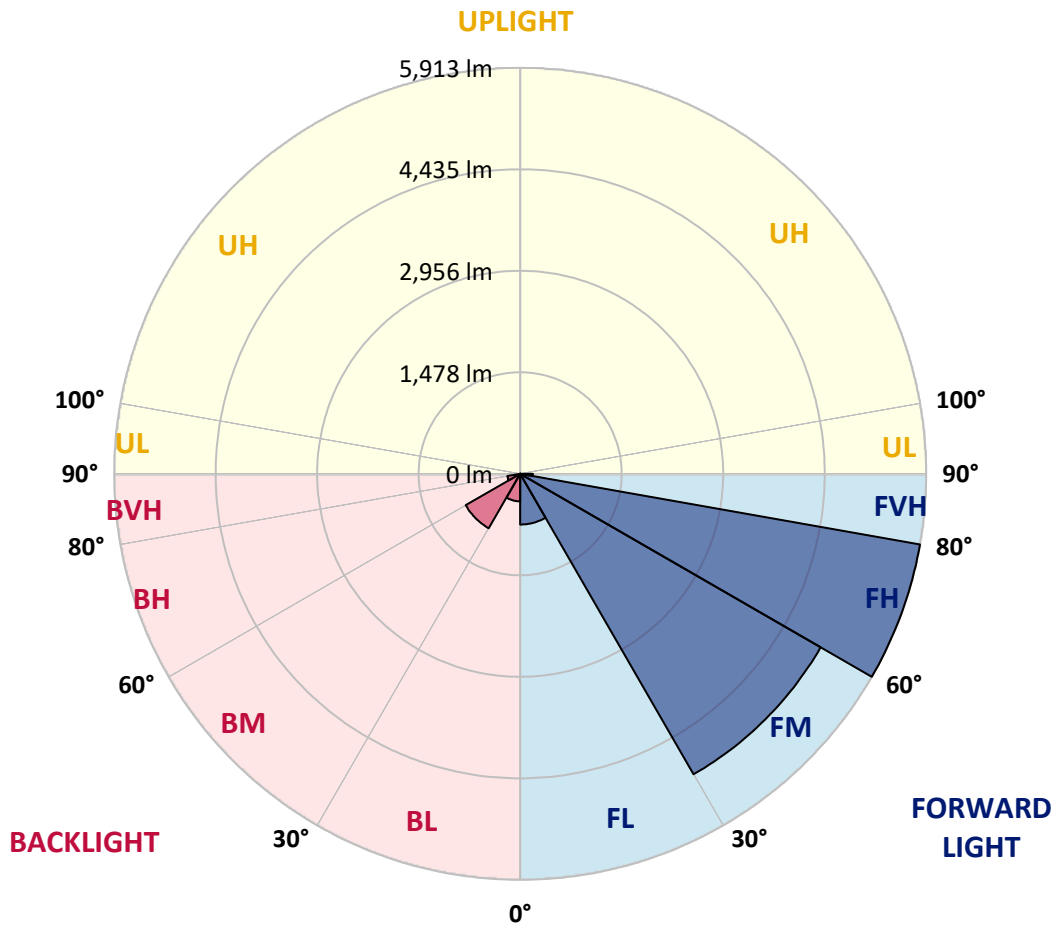
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.6	5.5			
FM (30°-60°)	5052.4	37.7			
FH (60°-80°)	5912.7	44.1			G3/7500
FVH (80°-90°)	186.5	1.4			G2/225
BL (0°-30°)	400.7	3.0	B1/500		
BM (30°-60°)	915.4	6.8	B1/1000		
BH (60°-80°)	189.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.6	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°	34°	35°	45°	55°	65°	75°
0°	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8
2.5°	1855.4	1871.1	1874.1	1879.0	1879.0	1884.9	1894.7	1908.4	1931.0	1942.8
5°	1710.1	1721.9	1736.6	1748.4	1771.0	1773.9	1812.2	1849.5	1901.6	1940.8
7.5°	1563.9	1577.6	1597.2	1625.7	1655.2	1664.0	1721.9	1784.7	1867.2	1940.8
10°	1460.8	1461.8	1479.4	1507.9	1555.0	1565.8	1636.5	1725.8	1828.9	1929.1
12.5°	1402.9	1409.7	1417.6	1439.2	1484.3	1491.2	1566.8	1671.8	1790.6	1922.2
15°	1402.9	1407.8	1412.7	1423.5	1459.8	1465.7	1532.4	1637.5	1771.0	1925.1
17.5°	1417.6	1425.4	1421.5	1434.3	1472.6	1476.5	1535.4	1627.7	1770.0	1943.8
20°	1452.9	1458.8	1451.0	1458.8	1497.1	1505.0	1565.8	1646.3	1786.7	1976.2
22.5°	1508.9	1511.8	1493.2	1499.1	1538.3	1548.2	1618.8	1699.3	1827.0	2028.2
25°	1579.6	1585.5	1557.0	1563.9	1601.2	1612.9	1694.4	1778.9	1890.8	2099.9
27.5°	1661.1	1664.0	1639.5	1638.5	1686.6	1703.3	1785.7	1877.0	1976.2	2190.2
30°	1754.3	1763.1	1739.6	1735.7	1796.5	1810.3	1891.8	1997.8	2101.8	2325.7
32.5°	1827.9	1834.8	1821.1	1830.9	1892.7	1903.5	2020.4	2168.6	2299.2	2518.1
35°	1934.0	1937.9	1906.5	1924.1	1994.8	2022.3	2196.1	2408.1	2547.5	2759.6
37.5°	2317.8	2317.8	2184.3	2096.9	2164.7	2189.2	2436.6	2709.5	2853.8	3083.5
40°	2848.9	2840.1	2644.7	2466.1	2457.2	2505.3	2779.2	3089.4	3249.5	3472.3
42.5°	3415.4	3401.6	3135.6	2958.9	2929.4	2946.1	3174.8	3557.7	3720.7	3946.5
45°	3918.0	3914.1	3670.6	3433.0	3380.0	3433.0	3668.6	4105.5	4222.3	4459.9
47.5°	4339.2	4339.2	4161.5	4006.4	3978.9	4010.3	4337.2	4713.2	4702.4	5006.7
50°	4824.1	4820.2	4651.3	4584.6	4613.0	4657.2	5106.8	5353.3	5199.1	5543.7
52.5°	5163.8	5187.3	5129.4	5118.6	5263.9	5340.5	5888.3	5979.6	5643.8	6053.2
55°	5432.8	5460.3	5527.0	5602.6	5882.4	5982.5	6645.2	6573.5	6015.9	6495.0
57.5°	5813.7	5774.4	5877.5	6026.7	6479.3	6600.0	7378.5	7134.1	6315.3	6853.3
60°	6276.1	6282.0	6299.6	6488.1	7075.2	7230.3	8101.1	7664.2	6507.7	7073.2
62.5°	6831.7	6840.5	6876.9	7166.5	7875.3	8021.5	8870.7	8098.1	6596.1	7011.4
65°	6793.4	6830.7	7236.2	8226.7	9091.6	9235.9	9769.0	8402.4	6462.6	6445.9
67.5°	6188.7	6249.6	6927.9	9493.1	10925.4	11086.4	10854.8	8462.3	5886.3	5012.6
70°	5395.5	5417.1	6232.9	10631.9	13048.9	13211.8	11826.6	7803.6	4466.8	2795.9
72.5°	4213.5	4218.4	5175.6	10896.0	14201.4	14210.2	11063.9	5793.1	2402.2	1074.0
75°	3009.9	2980.5	3466.4	8836.4	12494.2	12594.3	8294.5	2717.4	917.9	507.5
77.5°	1613.9	1646.3	1961.5	5240.4	8631.2	8802.0	4525.7	783.4	467.3	345.6
80°	498.7	526.2	804.0	2399.3	4888.9	4992.0	1677.7	348.5	325.9	246.4
82.5°	157.1	163.0	375.0	1008.2	2029.2	2076.3	485.9	197.3	222.8	163.0
85°	45.2	46.1	166.9	376.0	501.7	511.5	136.5	76.6	127.6	101.1
87.5°	4.9	15.7	62.8	62.8	44.2	43.2	14.7	16.7	36.3	12.8
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°
1941.8	0°	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8	1941.8
1950.7	2.5°	1945.7	1946.7	1934.0	1912.4	1888.8	1869.2	1844.6	1825.0	1811.3	1807.3
1968.3	5°	1959.5	1952.6	1916.3	1850.5	1772.0	1704.2	1628.7	1568.8	1529.5	1512.8
1987.0	7.5°	1980.1	1960.5	1881.0	1751.4	1601.2	1467.7	1332.2	1227.1	1160.4	1127.0
2004.6	10°	1997.8	1958.5	1822.1	1608.0	1378.3	1176.1	993.5	866.8	796.2	762.8
2025.3	12.5°	2014.5	1957.5	1745.5	1438.2	1127.0	879.6	709.8	646.9	627.3	620.4
2058.6	15°	2045.9	1960.5	1649.3	1243.8	876.7	664.6	602.8	601.8	605.7	603.8
2109.7	17.5°	2089.1	1963.4	1540.3	1037.7	676.4	586.1	583.1	592.0	597.9	594.9
2173.5	20°	2145.0	1975.2	1424.5	833.5	581.2	566.4	573.3	581.2	586.1	581.2
2258.9	22.5°	2223.6	1995.8	1297.8	669.5	550.7	554.7	560.6	569.4	574.3	567.4
2367.9	25°	2319.8	2028.2	1173.1	582.2	536.0	540.9	549.8	559.6	565.5	558.6
2505.3	27.5°	2444.5	2080.2	1058.3	562.5	521.3	524.2	537.0	551.7	559.6	550.7
2700.7	30°	2625.1	2165.6	959.1	571.4	512.5	505.6	523.3	543.9	552.7	544.8
2966.7	32.5°	2864.6	2286.4	898.3	585.1	508.5	484.0	500.7	527.2	541.9	537.0
3314.2	35°	3178.8	2470.0	874.7	600.8	505.6	461.4	473.2	501.7	527.2	532.1
3752.1	37.5°	3559.7	2725.2	881.6	607.7	496.7	442.8	448.6	473.2	506.6	522.3
4244.9	40°	3992.6	3022.7	920.8	600.8	486.9	427.0	428.0	446.7	476.1	499.7
4775.0	42.5°	4439.3	3370.2	993.5	575.3	478.1	413.3	410.4	423.1	442.8	459.4
5304.2	45°	4864.4	3727.5	1065.2	539.9	467.3	399.6	392.7	397.6	401.5	408.4
5819.6	47.5°	5235.5	3978.9	1044.5	507.5	452.6	383.8	372.1	370.1	358.3	357.3
6280.0	50°	5491.7	4033.8	927.7	475.1	431.0	366.2	347.5	335.7	315.1	305.3
6624.6	52.5°	5573.2	3816.9	757.9	442.8	395.6	342.6	316.1	297.5	271.9	263.1
6822.9	55°	5465.2	3391.8	605.7	403.5	346.5	311.2	281.8	257.2	236.6	225.8
6844.5	57.5°	5201.1	2850.9	479.1	357.3	294.5	275.9	246.4	221.9	204.2	193.4
6604.9	60°	4763.2	2263.8	378.9	302.4	251.3	237.6	207.1	191.4	175.7	163.0
5986.5	62.5°	4098.6	1615.9	297.5	239.5	210.1	194.4	176.7	164.9	146.3	128.6
4874.2	65°	3198.4	988.6	229.7	175.7	168.9	161.0	150.2	139.4	116.8	99.2
3179.8	67.5°	2017.4	468.3	163.9	132.5	133.5	129.6	124.7	115.8	99.2	83.4
1424.5	70°	888.4	226.8	108.0	101.1	99.2	99.2	103.1	100.1	84.4	69.7
494.8	72.5°	302.4	121.7	80.5	76.6	71.7	70.7	86.4	83.4	67.7	54.0
246.4	75°	158.1	81.5	58.9	55.0	43.2	52.0	68.7	64.8	48.1	35.3
163.0	77.5°	103.1	57.9	40.3	35.3	24.5	34.4	51.0	45.2	28.5	17.7
107.0	80°	64.8	38.3	23.6	16.7	11.8	18.7	27.5	19.6	10.8	3.9
62.8	82.5°	34.4	19.6	8.8	5.9	4.9	5.9	6.9	4.9	2.0	0.0
32.4	85°	13.7	6.9	2.9	2.0	1.0	0.0	2.0	1.0	0.0	0.0
5.9	87.5°	4.9	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

<u>180°</u>
1941.8
1814.2
1518.7
1131.9
763.8
618.5
602.8
593.9
580.2
566.4
557.6
550.7
543.9
537.0
532.1
526.2
507.5
466.3
412.3
356.4
306.3
262.1
225.8
191.4
160.0
125.7
96.2
81.5
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