

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: P940788

Luminaire Tested: **GALN-SB4A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940788
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-SB4A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 13612 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

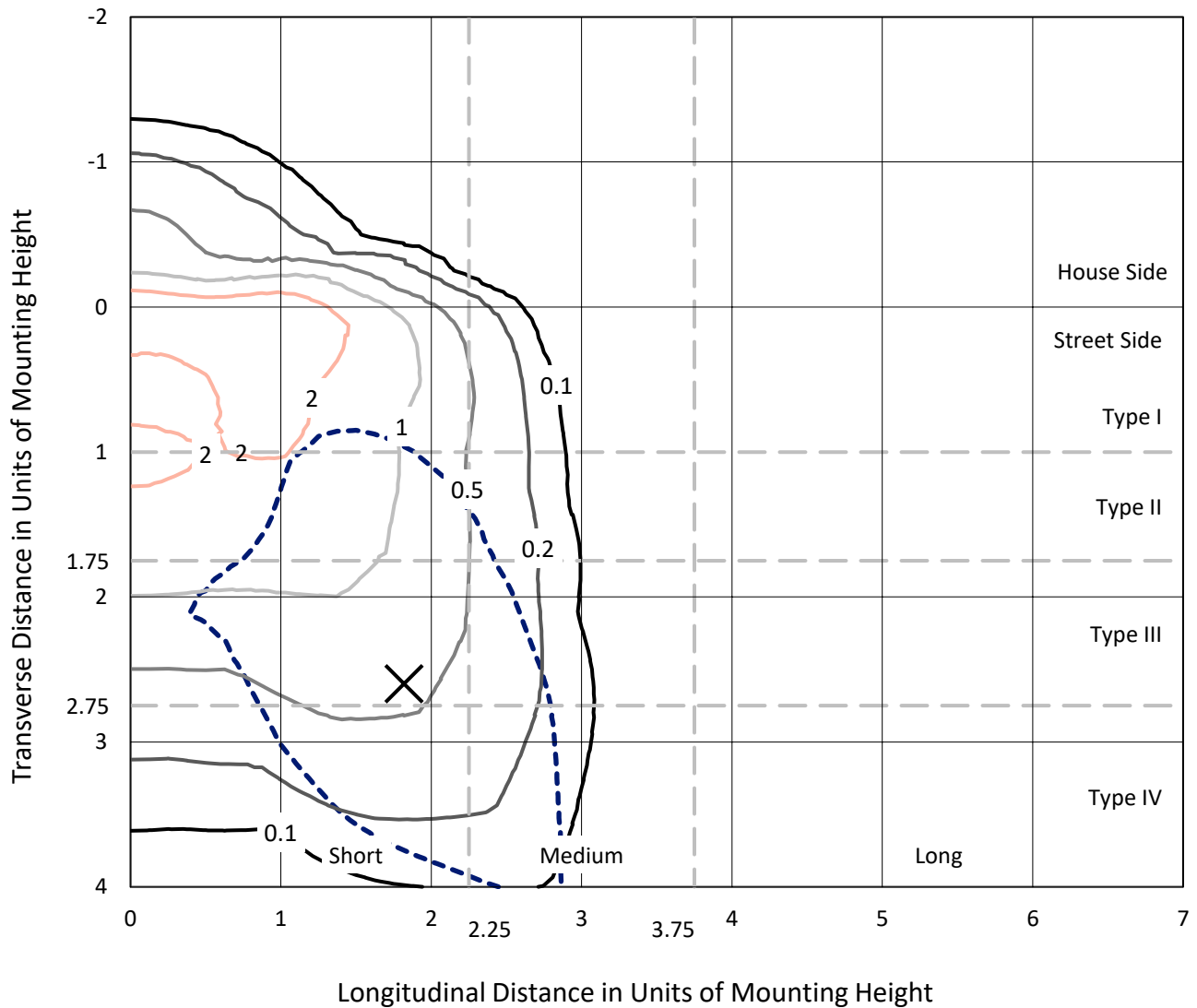
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

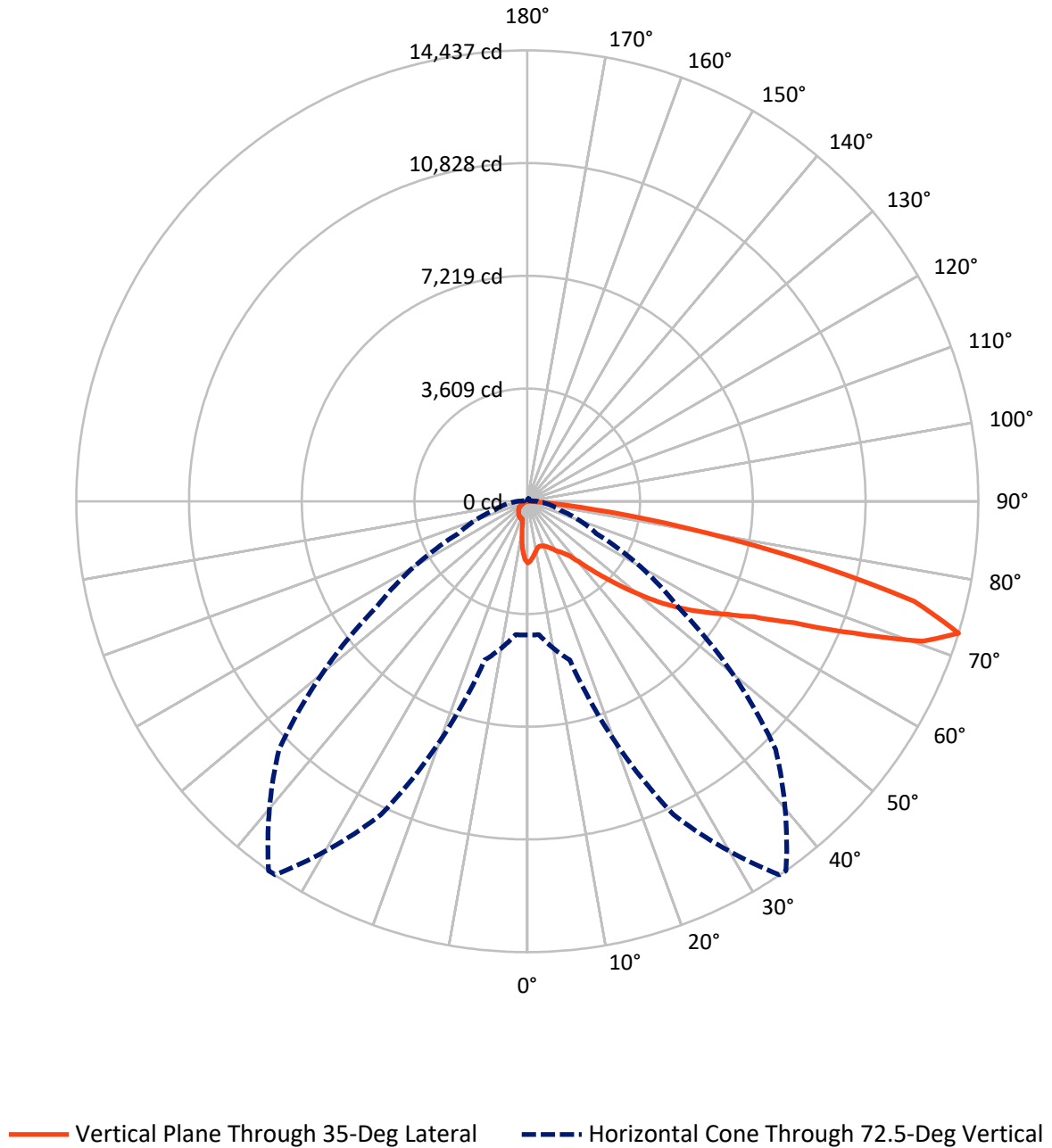
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1532.0	0.0	1532.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12080.0	0.0	12080.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	13612.0	0.0	13612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.2
10°-20°	379.2	2.8
20°-30°	616.1	4.5
30°-40°	1027.9	7.6
40°-50°	1944.9	14.3
50°-60°	3090.4	22.7
60°-70°	3823.0	28.1
70°-80°	2376.4	17.5
80°-90°	192.1	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°	13612.0	100.0
0°-180°	13612.0	100.0

Coefficient of Utilization



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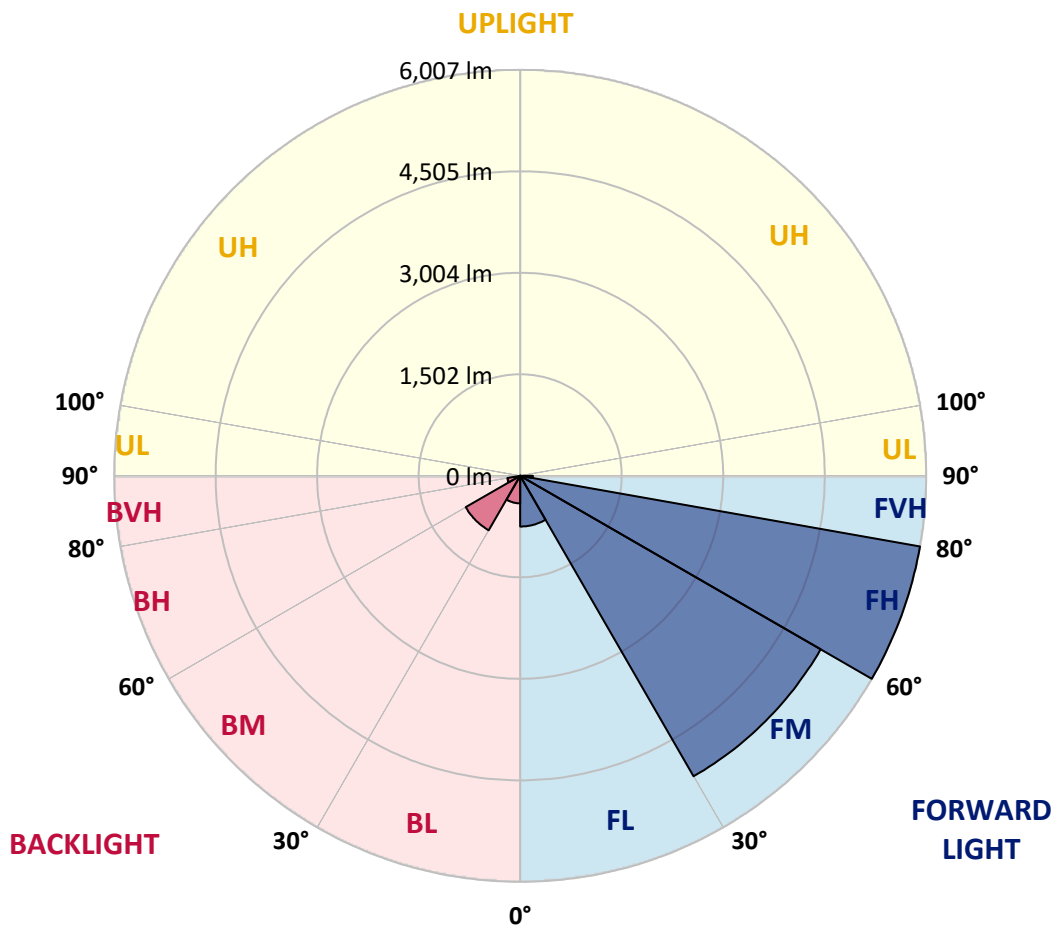
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.4	5.5			
FM (30°-60°)	5133.1	37.7			
FH (60°-80°)	6007.1	44.1			G3/7500
FVH (80°-90°)	189.4	1.4			G2/225
BL (0°-30°)	407.1	3.0	B1/500		
BM (30°-60°)	930.0	6.8	B1/1000		
BH (60°-80°)	192.2	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°	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8
2.5°	1885.1	1901.0	1904.0	1909.0	1909.0	1915.0	1925.0	1938.9	1961.9	1973.8
5°	1737.5	1749.4	1764.4	1776.3	1799.3	1802.3	1841.2	1879.1	1931.9	1971.8
7.5°	1588.8	1602.8	1622.8	1651.7	1681.6	1690.6	1749.4	1813.3	1897.0	1971.8
10°	1484.1	1485.1	1503.1	1532.0	1579.9	1590.8	1662.6	1753.4	1858.1	1959.9
12.5°	1425.3	1432.3	1440.2	1462.2	1508.1	1515.0	1591.8	1698.6	1819.2	1952.9
15°	1425.3	1430.3	1435.2	1446.2	1483.1	1489.1	1556.9	1663.6	1799.3	1955.9
17.5°	1440.2	1448.2	1444.2	1457.2	1496.1	1500.1	1559.9	1653.7	1798.3	1974.8
20°	1476.1	1482.1	1474.1	1482.1	1521.0	1529.0	1590.8	1672.6	1815.2	2007.7
22.5°	1533.0	1536.0	1517.0	1523.0	1562.9	1572.9	1644.7	1726.5	1856.1	2060.6
25°	1604.8	1610.8	1581.9	1588.8	1626.7	1638.7	1721.5	1807.3	1921.0	2133.4
27.5°	1687.6	1690.6	1665.6	1664.6	1713.5	1730.5	1814.3	1907.0	2007.7	2225.2
30°	1782.3	1791.3	1767.4	1763.4	1825.2	1839.2	1922.0	2029.7	2135.4	2362.8
32.5°	1857.1	1864.1	1850.2	1860.1	1923.0	1933.9	2052.6	2203.2	2335.9	2558.3
35°	1964.9	1968.8	1936.9	1954.9	2026.7	2054.6	2231.2	2446.6	2588.2	2803.7
37.5°	2354.8	2354.8	2219.2	2130.4	2199.2	2224.2	2475.5	2752.8	2899.4	3132.8
40°	2894.4	2885.4	2687.0	2505.4	2496.5	2545.3	2823.6	3138.8	3301.4	3527.8
42.5°	3469.9	3456.0	3185.7	3006.1	2976.2	2993.2	3225.6	3614.5	3780.1	4009.5
45°	3980.6	3976.6	3729.2	3487.9	3434.0	3487.9	3727.2	4171.1	4289.8	4531.1
47.5°	4408.5	4408.5	4227.9	4070.3	4042.4	4074.3	4406.5	4788.5	4777.5	5086.7
50°	4901.2	4897.2	4725.6	4657.8	4686.7	4731.6	5188.4	5438.8	5282.2	5632.3
52.5°	5246.3	5270.2	5211.4	5200.4	5348.0	5425.8	5982.3	6075.1	5734.0	6149.9
55°	5519.5	5547.5	5615.3	5692.1	5976.4	6078.1	6751.3	6678.5	6112.0	6598.7
57.5°	5906.5	5866.6	5971.4	6123.0	6582.8	6705.4	7496.4	7248.0	6416.2	6962.8
60°	6376.3	6382.3	6400.2	6591.7	7188.2	7345.8	8230.5	7786.6	6611.7	7186.2
62.5°	6940.8	6949.8	6986.7	7280.9	8001.1	8149.7	9012.4	8227.5	6701.5	7123.4
65°	6901.9	6939.8	7351.8	8358.1	9236.8	9383.4	9925.0	8536.7	6565.8	6548.9
67.5°	6287.5	6349.4	7038.6	9644.8	11099.9	11263.5	11028.1	8597.5	5980.3	5092.7
70°	5481.6	5503.6	6332.4	10801.7	13257.3	13422.9	12015.5	7928.2	4538.1	2840.6
72.5°	4280.8	4285.8	5258.2	11070.0	14428.2	14437.2	11240.6	5885.6	2440.6	1091.1
75°	3058.0	3028.1	3521.8	8977.5	12693.8	12795.5	8426.9	2760.8	932.6	515.7
77.5°	1639.7	1672.6	1992.8	5324.1	8769.0	8942.6	4598.0	795.9	474.8	351.1
80°	506.7	534.6	816.9	2437.6	4967.0	5071.7	1704.5	354.1	331.1	250.3
82.5°	159.6	165.6	381.0	1024.3	2061.6	2109.5	493.7	200.5	226.4	165.6
85°	45.9	46.9	169.6	382.0	509.7	519.6	138.6	77.8	129.7	102.7
87.5°	5.0	16.0	63.8	63.8	44.9	43.9	15.0	17.0	36.9	13.0
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°
1972.8	0°	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8	1972.8
1981.8	2.5°	1976.8	1977.8	1964.9	1942.9	1919.0	1899.0	1874.1	1854.1	1840.2	1836.2
1999.8	5°	1990.8	1983.8	1946.9	1880.1	1800.3	1731.5	1654.7	1593.8	1553.9	1537.0
2018.7	7.5°	2011.7	1991.8	1911.0	1779.3	1626.7	1491.1	1353.5	1246.7	1178.9	1145.0
2036.7	10°	2029.7	1989.8	1851.2	1633.7	1400.3	1194.9	1009.4	880.7	808.9	775.0
2057.6	12.5°	2046.6	1988.8	1773.4	1461.2	1145.0	893.7	721.1	657.3	637.3	630.3
2091.5	15°	2078.6	1991.8	1675.6	1263.7	890.7	675.2	612.4	611.4	615.4	613.4
2143.4	17.5°	2122.4	1994.8	1564.9	1054.2	687.2	595.4	592.4	601.4	607.4	604.4
2208.2	20°	2179.3	2006.7	1447.2	846.8	590.5	575.5	582.5	590.5	595.4	590.5
2295.0	22.5°	2259.1	2027.7	1318.5	680.2	559.5	563.5	569.5	578.5	583.5	576.5
2405.7	25°	2356.8	2060.6	1191.9	591.5	544.6	549.6	558.5	568.5	574.5	567.5
2545.3	27.5°	2483.5	2113.5	1075.2	571.5	529.6	532.6	545.6	560.5	568.5	559.5
2743.8	30°	2667.0	2200.2	974.4	580.5	520.6	513.7	531.6	552.6	561.5	553.6
3014.1	32.5°	2910.4	2322.9	912.6	594.4	516.6	491.7	508.7	535.6	550.6	545.6
3367.2	35°	3229.5	2509.4	888.7	610.4	513.7	468.8	480.7	509.7	535.6	540.6
3812.0	37.5°	3616.5	2768.8	895.7	617.4	504.7	449.8	455.8	480.7	514.7	530.6
4312.7	40°	4056.4	3071.0	935.6	610.4	494.7	433.9	434.9	453.8	483.7	507.7
4851.3	42.5°	4510.2	3424.0	1009.4	584.5	485.7	419.9	416.9	429.9	449.8	466.8
5388.9	45°	4942.1	3787.1	1082.2	548.6	474.8	405.9	399.0	403.9	407.9	414.9
5912.5	47.5°	5319.1	4042.4	1061.2	515.7	459.8	390.0	378.0	376.0	364.0	363.0
6380.3	50°	5579.4	4098.3	942.5	482.7	437.9	372.0	353.1	341.1	320.2	310.2
6730.4	52.5°	5662.2	3877.8	770.0	449.8	401.9	348.1	321.2	302.2	276.3	267.3
6931.9	55°	5552.5	3446.0	615.4	409.9	352.1	316.2	286.3	261.3	240.4	229.4
6953.8	57.5°	5284.2	2896.4	486.7	363.0	299.2	280.3	250.3	225.4	207.5	196.5
6710.4	60°	4839.3	2300.0	385.0	307.2	255.3	241.4	210.4	194.5	178.5	165.6
6082.1	62.5°	4164.1	1641.7	302.2	243.4	213.4	197.5	179.5	167.6	148.6	130.7
4952.0	65°	3249.5	1004.4	233.4	178.5	171.6	163.6	152.6	141.6	118.7	100.7
3230.5	67.5°	2049.6	475.8	166.6	134.6	135.6	131.7	126.7	117.7	100.7	84.8
1447.2	70°	902.6	230.4	109.7	102.7	100.7	100.7	104.7	101.7	85.8	70.8
502.7	72.5°	307.2	123.7	81.8	77.8	72.8	71.8	87.8	84.8	68.8	54.9
250.3	75°	160.6	82.8	59.8	55.9	43.9	52.9	69.8	65.8	48.9	35.9
165.6	77.5°	104.7	58.8	40.9	35.9	24.9	34.9	51.9	45.9	28.9	18.0
108.7	80°	65.8	38.9	23.9	17.0	12.0	19.0	27.9	19.9	11.0	4.0
63.8	82.5°	34.9	19.9	9.0	6.0	5.0	6.0	7.0	5.0	2.0	0.0
32.9	85°	14.0	7.0	3.0	2.0	1.0	0.0	2.0	1.0	0.0	0.0
6.0	87.5°	5.0	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

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<u>180°</u>
1972.8
1843.2
1543.0
1150.0
776.0
628.4
612.4
603.4
589.5
575.5
566.5
559.5
552.6
545.6
540.6
534.6
515.7
473.8
418.9
362.1
311.2
266.3
229.4
194.5
162.6
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