

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: P950897

Luminaire Tested: **GALN-SB5A-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950897
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-SB5A-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 12142 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

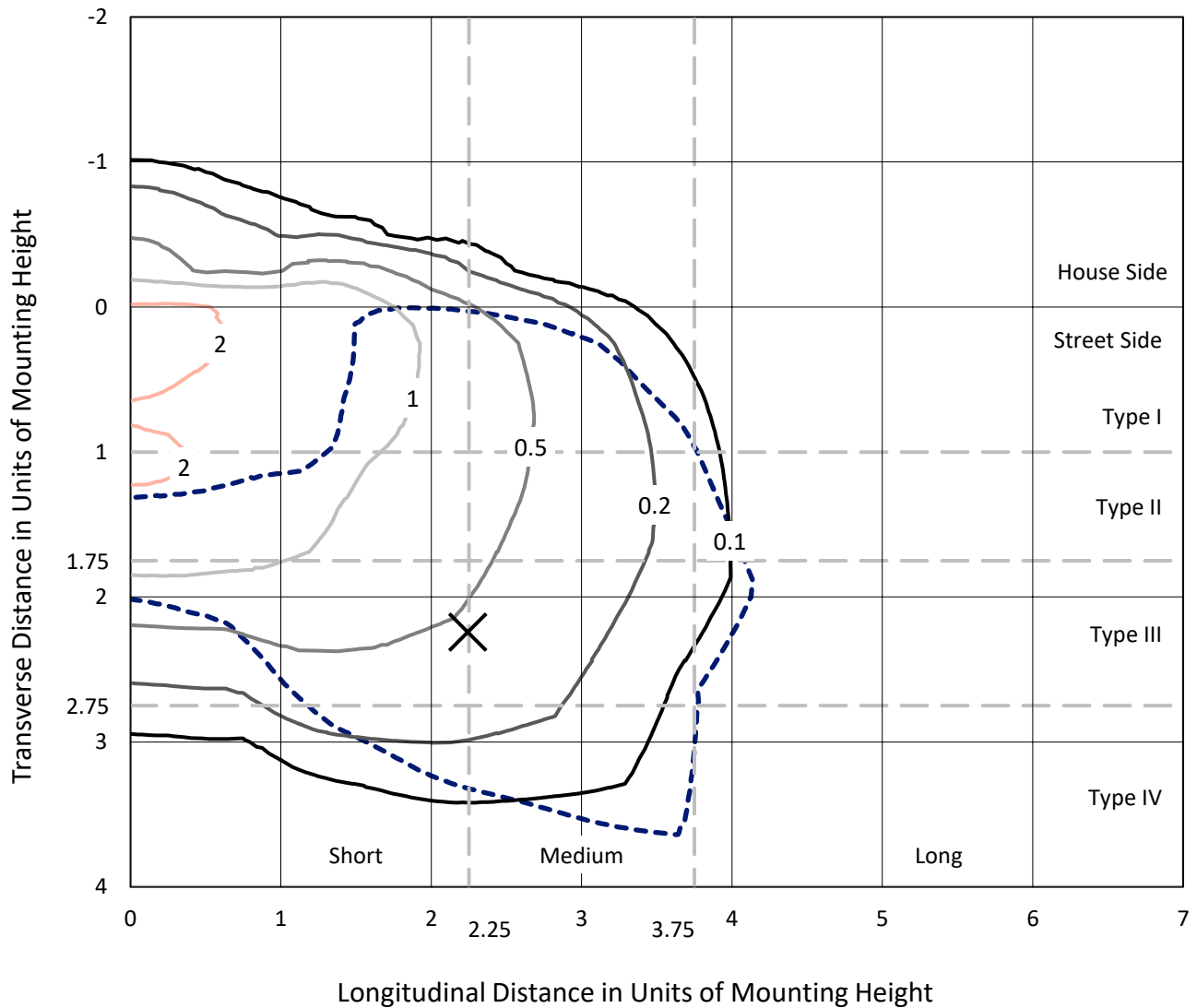
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950897
 CATALOG NUMBER: GALN-SB5A-950-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

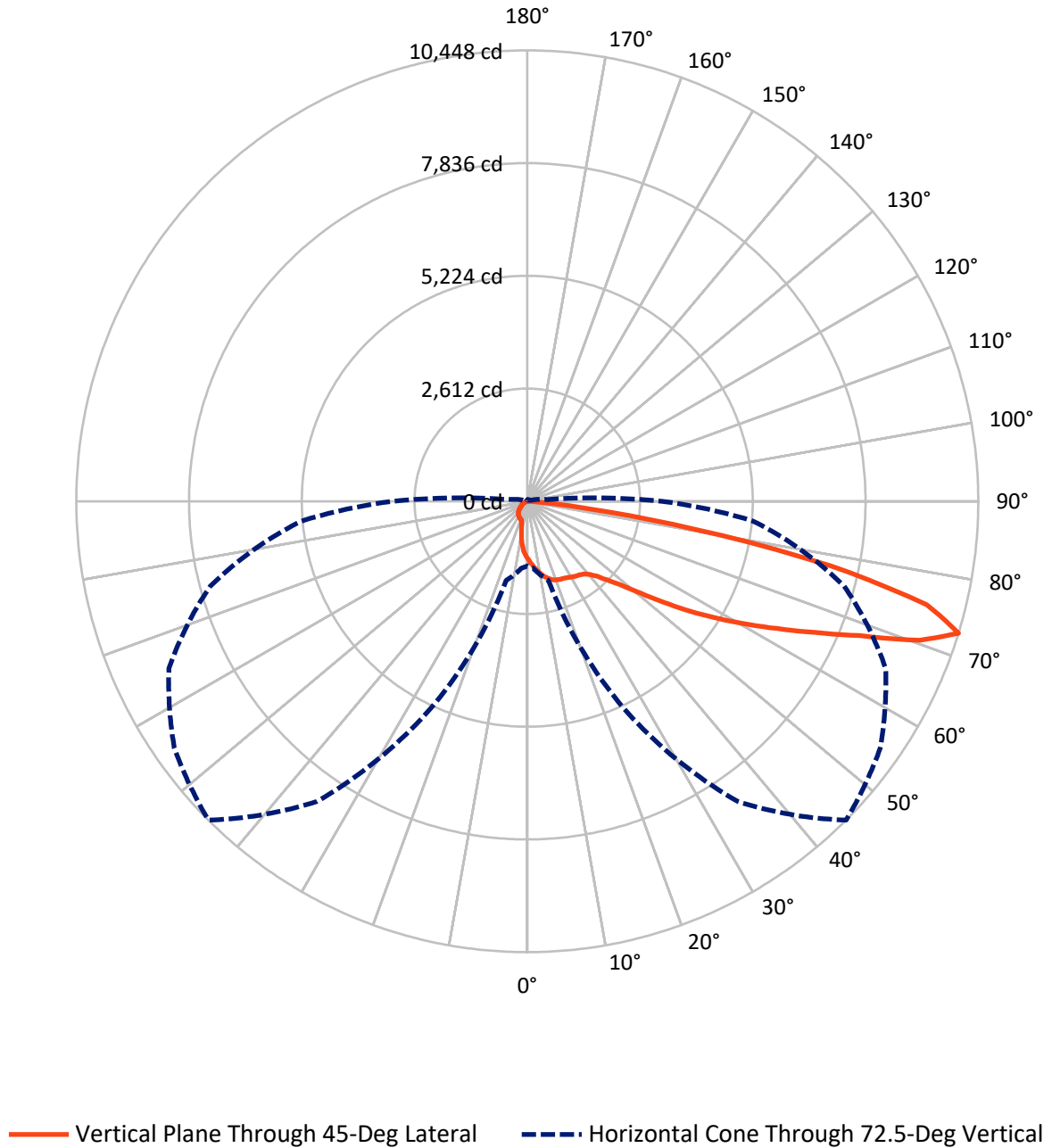
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P950897
CATALOG NUMBER: GALN-SB5A-950-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P950897

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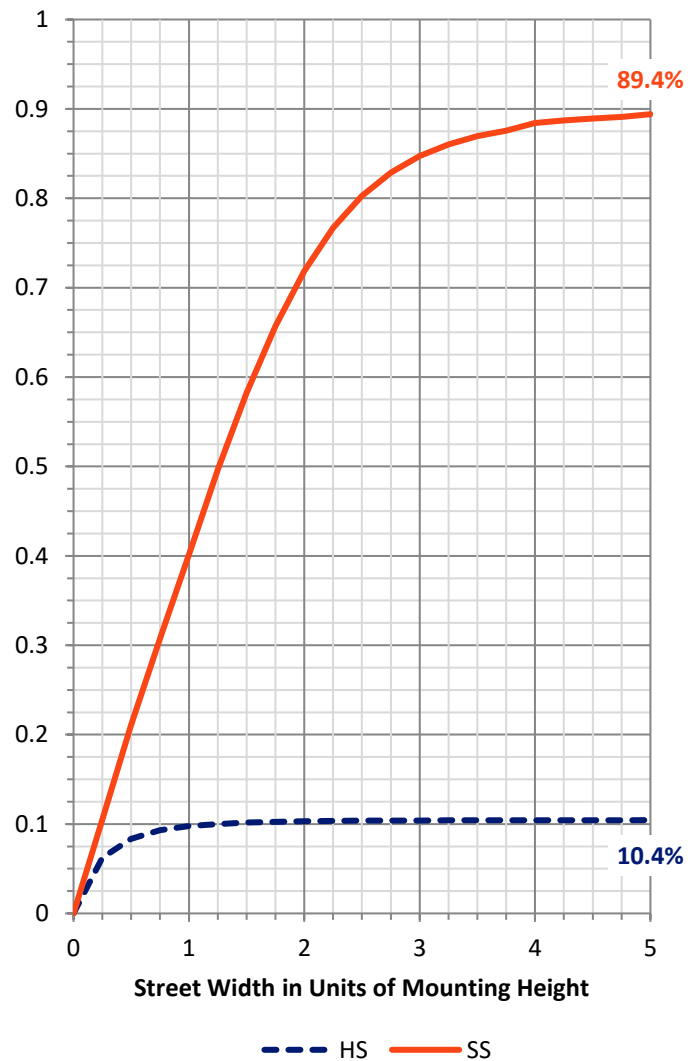
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.8	0.0	1275.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10866.2	0.0	10866.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	12142.0	0.0	12142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.0
10°-20°	366.3	3.0
20°-30°	601.5	5.0
30°-40°	853.1	7.0
40°-50°	1410.0	11.6
50°-60°	2533.0	20.9
60°-70°	3517.2	29.0
70°-80°	2551.2	21.0
80°-90°	184.4	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°	12142.0	100.0
0°-180°	12142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950897

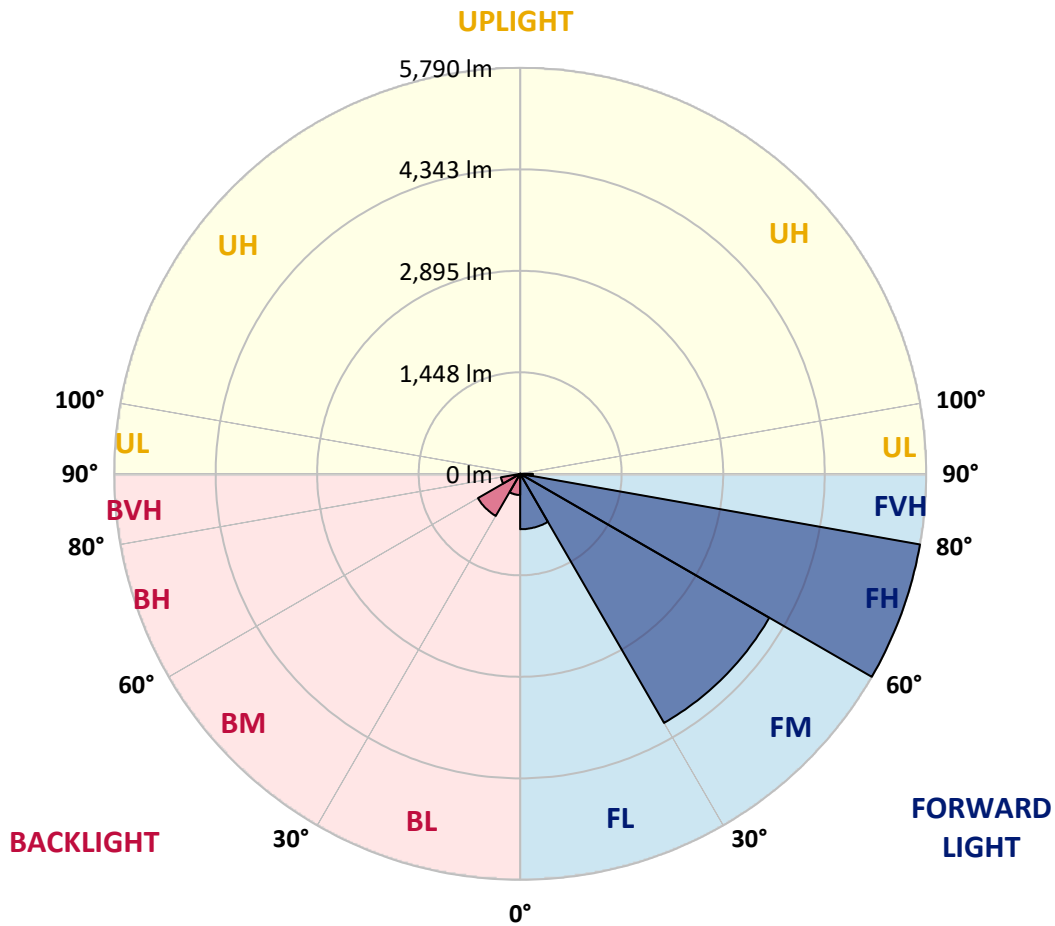
CATALOG NUMBER: GALN-SB5A-950-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.9	6.5			
FM (30°-60°)	4102.2	33.8			
FH (60°-80°)	5790.2	47.7			G3/7500
FVH (80°-90°)	182.9	1.5			G2/225
BL (0°-30°)	302.2	2.5	B1/500		
BM (30°-60°)	693.8	5.7	B1/1000		
BH (60°-80°)	278.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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



REPORT NUMBER: P950897

CATALOG NUMBER: GALN-SB5A-950-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1452.8	1455.3	1453.7	1443.7	1427.1	1418.0	1413.1	1396.5	1385.7	1366.6
5°	1586.3	1596.2	1590.4	1570.5	1539.0	1516.7	1510.0	1476.0	1445.4	1409.7
7.5°	1728.0	1733.0	1722.2	1696.5	1654.2	1616.1	1610.3	1563.1	1514.2	1459.5
10°	1850.7	1856.5	1839.9	1802.6	1754.5	1707.3	1699.0	1646.8	1588.8	1521.6
12.5°	1953.4	1959.2	1937.7	1892.9	1839.9	1791.0	1782.7	1728.0	1664.2	1589.6
15°	2031.3	2042.1	2013.1	1965.0	1907.8	1858.9	1854.8	1800.9	1738.8	1655.9
17.5°	2076.9	2087.7	2060.3	2002.3	1953.4	1912.0	1907.0	1862.3	1804.2	1724.7
20°	2084.4	2094.3	2065.3	2014.7	1974.1	1941.0	1938.5	1906.2	1863.9	1787.7
22.5°	2062.0	2074.4	2047.9	2007.3	1979.1	1961.7	1958.4	1940.2	1916.1	1851.5
25°	2038.8	2048.7	2028.8	1993.2	1978.3	1976.6	1979.1	1975.8	1970.8	1916.1
27.5°	2037.1	2047.9	2025.5	1991.5	1983.3	2000.7	2003.1	2018.9	2023.0	1975.0
30°	2051.2	2058.7	2037.1	2001.5	1997.3	2037.1	2038.0	2066.1	2072.8	2024.7
32.5°	2081.9	2090.2	2068.6	2016.4	2010.6	2066.1	2068.6	2105.9	2116.7	2077.7
35°	2154.0	2163.9	2139.1	2057.8	2037.1	2093.5	2100.9	2144.9	2166.4	2134.1
37.5°	2333.8	2304.8	2270.8	2141.6	2097.6	2136.6	2149.0	2200.4	2238.5	2201.2
40°	2780.5	2689.4	2583.3	2284.1	2203.7	2228.6	2238.5	2289.9	2342.1	2305.6
42.5°	3451.0	3343.3	3172.5	2612.3	2363.7	2376.1	2383.6	2428.3	2502.1	2473.1
45°	4048.6	4009.6	3835.6	3172.5	2662.9	2601.5	2610.6	2633.8	2742.4	2731.6
47.5°	4507.7	4485.3	4351.1	3815.7	3168.4	2877.5	2903.2	2914.0	3070.6	3108.7
50°	4860.8	4852.5	4732.3	4387.5	3828.9	3284.4	3293.5	3270.3	3504.9	3599.4
52.5°	5193.9	5222.1	5133.4	4918.8	4534.2	3817.3	3815.7	3706.3	4022.9	4165.4
55°	5494.8	5504.7	5513.8	5460.8	5243.7	4424.0	4408.2	4229.2	4623.7	4771.3
57.5°	5777.4	5781.5	5862.7	5971.3	5982.1	5075.4	5046.4	4831.8	5280.1	5385.4
60°	5967.2	5986.2	6157.8	6459.5	6591.2	5747.5	5731.8	5513.0	5948.1	5997.0
62.5°	5693.7	5809.7	6242.3	6840.7	7166.4	6492.6	6485.2	6279.6	6650.9	6611.1
65°	4608.8	4805.2	5566.0	7098.4	7730.8	7324.7	7335.5	7116.7	7372.8	7243.5
67.5°	3223.9	3431.1	4331.2	7119.2	8361.5	8301.8	8364.0	8020.9	8139.4	7849.3
70°	2229.4	2336.3	2922.3	6673.3	8853.0	9647.8	9646.1	9131.4	8901.9	8125.3
72.5°	1499.3	1554.8	1897.9	5294.2	8491.6	10447.5	10399.5	9980.1	9158.8	7599.0
75°	632.4	673.0	878.5	2975.3	6718.0	9558.2	9428.1	8819.8	8137.7	5983.7
77.5°	200.6	218.0	346.4	1065.0	3700.5	7184.6	7047.1	5508.0	5454.2	3001.8
80°	95.3	111.1	194.8	427.6	1456.2	3907.7	3888.6	2498.8	2346.3	810.5
82.5°	41.4	48.9	107.7	228.7	651.4	1394.0	1422.2	850.3	703.6	307.5
85°	13.3	17.4	49.7	105.3	275.2	346.4	342.3	202.2	283.4	167.4
87.5°	0.0	0.0	16.6	24.0	28.2	19.9	22.4	17.4	78.7	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950897
 CATALOG NUMBER: GALN-SB5A-950-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1330.2	0°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
1346.8	2.5°	1336.8	1323.6	1300.3	1278.8	1259.7	1240.7	1229.1	1212.5	1210.8	1210.8
1368.3	5°	1345.9	1324.4	1282.9	1239.0	1188.5	1140.4	1092.3	1045.9	1031.0	1020.2
1403.1	7.5°	1372.4	1338.5	1273.0	1189.3	1093.2	987.9	914.1	834.6	803.9	787.3
1449.5	10°	1410.6	1364.2	1264.7	1118.0	962.2	818.8	713.6	627.4	594.2	580.1
1500.1	12.5°	1452.8	1395.7	1249.8	1029.3	818.8	647.3	544.5	504.7	499.8	499.8
1560.6	15°	1503.4	1433.8	1224.1	924.9	668.8	512.2	475.7	477.4	482.3	485.7
1619.4	17.5°	1555.6	1474.4	1183.5	808.1	536.2	460.8	461.6	464.1	468.3	471.6
1683.2	20°	1612.0	1515.0	1129.6	683.7	460.0	445.9	448.4	450.9	454.2	455.8
1742.9	22.5°	1672.5	1553.1	1065.8	561.9	434.3	433.4	434.3	436.8	440.9	440.9
1812.5	25°	1737.1	1595.4	992.9	473.2	421.0	421.0	422.7	424.3	427.6	427.6
1879.7	27.5°	1803.4	1634.3	915.8	426.8	409.4	408.6	408.6	411.1	412.7	413.6
1946.0	30°	1876.3	1679.9	838.7	416.9	400.3	396.2	393.7	395.3	397.0	397.8
2015.6	32.5°	1950.9	1723.8	769.9	421.0	391.2	383.7	375.4	373.8	373.8	377.1
2087.7	35°	2033.8	1771.9	716.9	435.1	386.2	365.5	352.2	344.8	345.6	350.6
2173.9	37.5°	2133.3	1829.9	677.9	447.5	382.9	344.8	323.2	314.1	308.3	314.1
2292.4	40°	2263.4	1915.3	649.8	457.5	378.7	320.7	291.7	276.8	266.0	269.4
2476.4	42.5°	2454.8	2049.6	639.0	458.3	369.6	292.6	259.4	239.5	223.8	224.6
2753.2	45°	2723.4	2261.7	694.5	447.5	349.7	261.9	225.4	198.9	189.0	186.5
3166.7	47.5°	3091.3	2570.9	823.0	425.2	320.7	232.1	192.3	169.9	162.4	158.3
3709.6	50°	3584.4	2967.8	965.5	400.3	291.7	203.9	164.9	150.8	145.9	141.7
4353.5	52.5°	4156.3	3370.6	1082.4	375.4	262.7	179.0	147.5	139.2	135.1	131.8
4975.1	55°	4680.9	3648.3	1075.7	348.9	234.5	159.1	135.1	130.1	125.1	121.8
5510.5	57.5°	5007.5	3687.2	886.8	319.9	202.2	143.4	123.5	120.2	114.4	110.2
5973.8	60°	5157.5	3465.1	621.6	281.8	169.9	128.5	111.1	109.4	101.9	96.1
6412.2	62.5°	5184.8	3052.4	414.4	234.5	141.7	114.4	98.6	96.1	86.2	76.2
6768.6	65°	5073.8	2462.3	286.8	183.2	121.0	99.5	84.5	79.6	68.8	58.8
6853.1	67.5°	4722.4	1728.8	199.7	131.8	102.8	78.7	67.1	65.5	57.2	48.9
6422.2	70°	4078.4	985.4	133.4	98.6	81.2	53.9	53.0	54.7	46.4	39.8
5247.0	72.5°	3127.0	450.9	82.9	72.1	55.5	36.5	42.3	43.1	35.6	29.8
3273.7	75°	1840.7	193.1	52.2	46.4	28.2	24.0	30.7	31.5	24.0	19.1
1196.7	77.5°	626.6	72.9	33.2	27.3	14.1	13.3	19.9	19.9	13.3	7.5
240.3	80°	142.5	27.3	16.6	10.8	6.6	5.8	6.6	5.8	3.3	0.8
73.8	82.5°	40.6	10.8	6.6	4.1	2.5	2.5	0.8	0.0	0.0	0.0
25.7	85°	11.6	5.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	5.0	0.8	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>
1330.2
1215.0
1025.2
789.8
580.1
499.8
485.7
471.6
456.7
442.6
428.5
414.4
399.5
379.6
353.1
312.4
267.7
221.3
183.2
155.8
140.9
130.9
120.2
109.4
94.5
71.3
55.5
46.4
36.5
26.5
16.6
5.8
0.0
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