

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: P950876

Luminaire Tested: **GALN-SB5A-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950876
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-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 12648 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

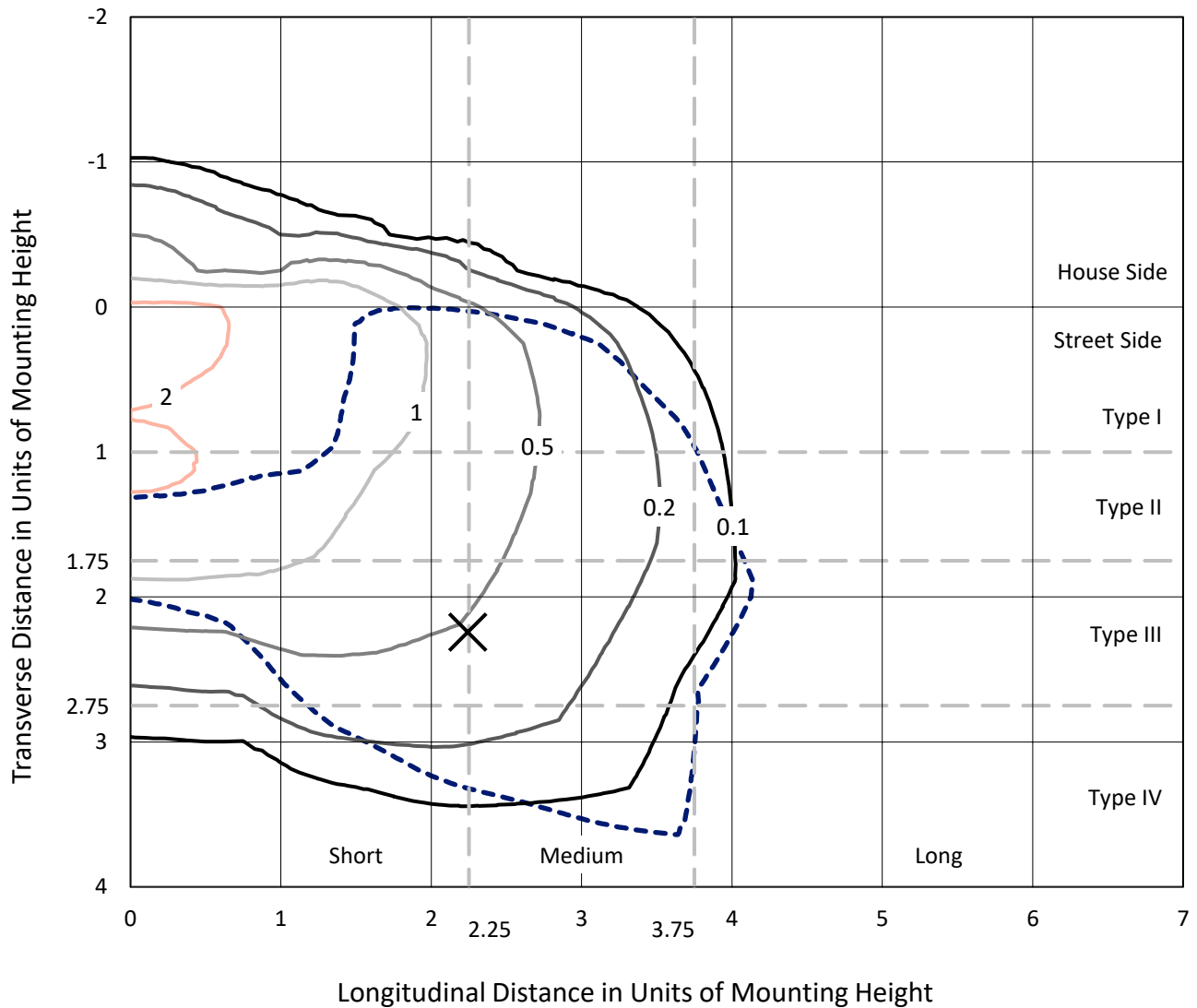
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

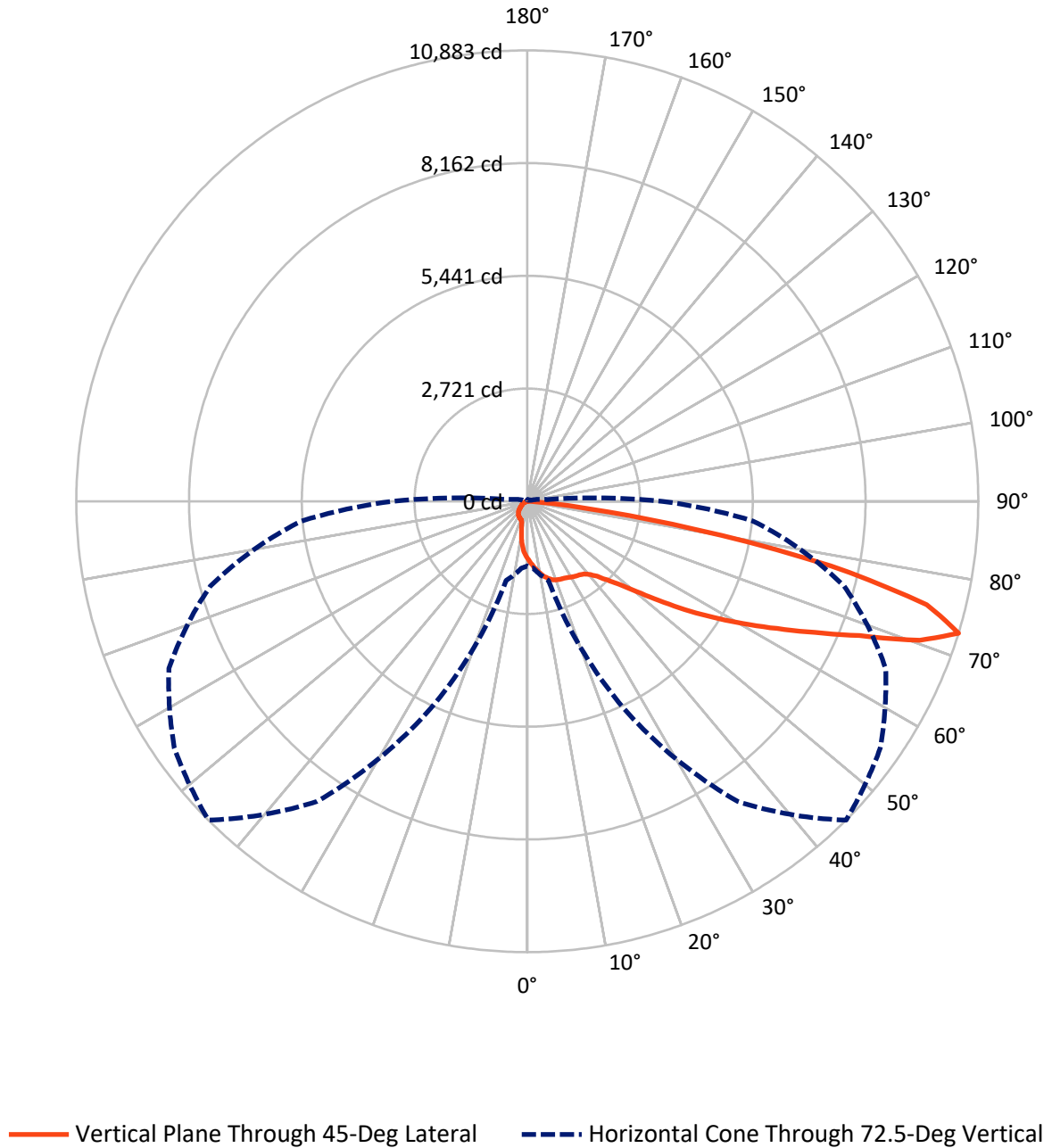
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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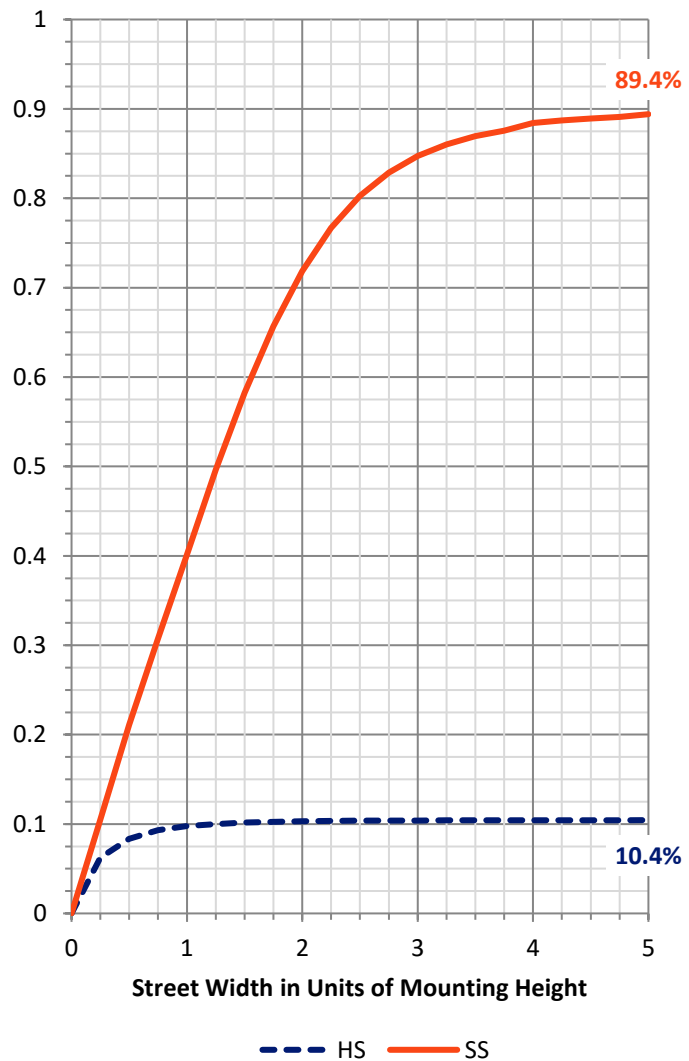
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1329.0	0.0	1329.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11319.1	0.0	11319.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	12648.0	0.0	12648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.0
10°-20°	381.6	3.0
20°-30°	626.6	5.0
30°-40°	888.6	7.0
40°-50°	1468.8	11.6
50°-60°	2638.5	20.9
60°-70°	3663.7	29.0
70°-80°	2657.6	21.0
80°-90°	192.1	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°	12648.0	100.0
0°-180°	12648.0	100.0

Coefficient of Utilization



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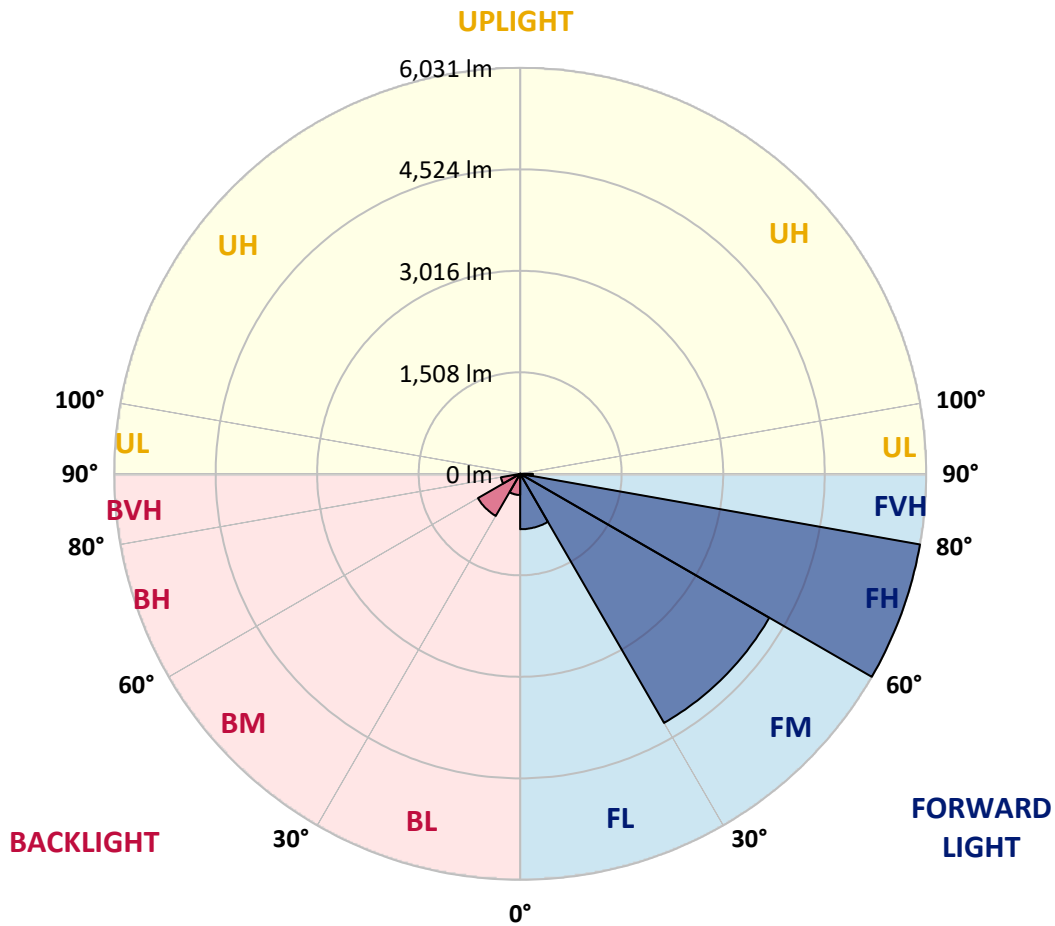
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.9	6.5			
FM (30°-60°)	4273.2	33.8			
FH (60°-80°)	6031.5	47.7			G3/7500
FVH (80°-90°)	190.5	1.5			G2/225
BL (0°-30°)	314.8	2.5	B1/500		
BM (30°-60°)	722.8	5.7	B1/1000		
BH (60°-80°)	289.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	35°	45°	46°	55°	65°	75°
0°	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1513.4	1516.0	1514.2	1503.9	1486.6	1477.1	1471.9	1454.7	1443.5	1423.6
5°	1652.4	1662.7	1656.7	1636.0	1603.2	1579.9	1573.0	1537.6	1505.6	1468.5
7.5°	1800.0	1805.2	1794.0	1767.2	1723.2	1683.5	1677.4	1628.2	1577.3	1520.3
10°	1927.8	1933.8	1916.6	1877.7	1827.6	1778.4	1769.8	1715.4	1655.0	1585.0
12.5°	2034.8	2040.9	2018.4	1971.8	1916.6	1865.6	1857.0	1800.0	1733.5	1655.8
15°	2116.0	2127.2	2097.0	2046.9	1987.3	1936.4	1932.1	1876.0	1811.2	1724.9
17.5°	2163.5	2174.7	2146.2	2085.8	2034.8	1991.7	1986.5	1939.9	1879.4	1796.6
20°	2171.2	2181.6	2151.4	2098.7	2056.4	2021.9	2019.3	1985.6	1941.6	1862.2
22.5°	2147.9	2160.9	2133.2	2090.9	2061.6	2043.5	2040.0	2021.0	1996.0	1928.6
25°	2123.7	2134.1	2113.4	2076.3	2060.7	2059.0	2061.6	2058.1	2053.0	1996.0
27.5°	2122.0	2133.2	2109.9	2074.5	2065.9	2084.0	2086.6	2103.0	2107.3	2057.3
30°	2136.7	2144.5	2122.0	2084.9	2080.6	2122.0	2122.9	2152.2	2159.1	2109.1
32.5°	2168.6	2177.3	2154.8	2100.4	2094.4	2152.2	2154.8	2193.7	2204.9	2164.3
35°	2243.7	2254.1	2228.2	2143.6	2122.0	2180.7	2188.5	2234.3	2256.7	2223.0
37.5°	2431.1	2400.9	2365.5	2230.8	2185.0	2225.6	2238.6	2292.1	2331.8	2293.0
40°	2896.4	2801.4	2690.9	2379.3	2295.5	2321.4	2331.8	2385.3	2439.7	2401.7
42.5°	3594.8	3482.6	3304.8	2721.2	2462.2	2475.1	2482.9	2529.5	2606.3	2576.1
45°	4217.3	4176.7	3995.4	3304.8	2773.8	2709.9	2719.4	2743.6	2856.7	2845.5
47.5°	4695.6	4672.2	4532.4	3974.7	3300.4	2997.4	3024.2	3035.4	3198.6	3238.3
50°	5063.3	5054.7	4929.5	4570.4	3988.5	3421.3	3430.8	3406.6	3650.9	3749.4
52.5°	5410.4	5439.7	5347.4	5123.8	4723.2	3976.4	3974.7	3860.7	4190.5	4339.0
55°	5723.8	5734.1	5743.6	5688.4	5462.2	4608.4	4592.0	4405.5	4816.4	4970.1
57.5°	6018.1	6022.5	6107.1	6220.2	6231.4	5286.9	5256.7	5033.1	5500.2	5609.8
60°	6215.8	6235.7	6414.4	6728.7	6865.9	5987.1	5970.7	5742.7	6196.0	6246.9
62.5°	5931.0	6051.8	6502.5	7125.8	7465.1	6763.2	6755.4	6541.3	6928.1	6886.6
65°	4800.9	5005.5	5798.0	7394.3	8053.0	7629.9	7641.2	7413.3	7680.0	7545.3
67.5°	3358.3	3574.1	4511.7	7415.8	8710.0	8647.8	8712.5	8355.1	8478.6	8176.4
70°	2322.3	2433.7	3044.0	6951.4	9221.9	10049.8	10048.1	9512.0	9272.8	8463.9
72.5°	1561.7	1619.6	1977.0	5514.8	8845.5	10882.9	10832.8	10396.0	9540.5	7915.7
75°	658.7	701.0	915.1	3099.3	6998.0	9956.6	9821.0	9187.4	8476.9	6233.1
77.5°	208.9	227.1	360.9	1109.4	3854.7	7484.0	7340.7	5737.6	5681.5	3126.9
80°	99.3	115.7	202.9	445.5	1516.8	4070.5	4050.7	2602.9	2444.0	844.3
82.5°	43.2	50.9	112.2	238.3	678.6	1452.1	1481.4	885.8	733.0	320.3
85°	13.8	18.1	51.8	109.6	286.6	360.9	356.5	210.6	295.3	174.4
87.5°	0.0	0.0	17.3	25.0	29.4	20.7	23.3	18.1	82.0	48.3
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°
1385.6	0°	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6
1402.9	2.5°	1392.5	1378.7	1354.5	1332.1	1312.2	1292.4	1280.3	1263.0	1261.3	1261.3
1425.3	5°	1402.0	1379.6	1336.4	1290.7	1238.0	1187.9	1137.8	1089.5	1074.0	1062.7
1461.6	7.5°	1429.6	1394.2	1326.0	1238.9	1138.7	1029.1	952.2	869.4	837.4	820.1
1509.9	10°	1469.4	1421.0	1317.4	1164.6	1002.3	853.0	743.3	653.5	619.0	604.3
1562.6	12.5°	1513.4	1453.8	1301.9	1072.2	853.0	674.2	567.2	525.8	520.6	520.6
1625.6	15°	1566.0	1493.5	1275.1	963.5	696.7	533.5	495.5	497.3	502.4	505.9
1686.9	17.5°	1620.4	1535.8	1232.8	841.7	558.6	480.0	480.9	483.5	487.8	491.2
1753.4	20°	1679.1	1578.1	1176.7	712.2	479.1	464.5	467.1	469.6	473.1	474.8
1815.5	22.5°	1742.2	1617.8	1110.2	585.3	452.4	451.5	452.4	455.0	459.3	459.3
1888.1	25°	1809.5	1661.9	1034.2	493.0	438.6	438.6	440.3	442.0	445.5	445.5
1958.0	27.5°	1878.6	1702.5	954.0	444.6	426.5	425.6	425.6	428.2	429.9	430.8
2027.1	30°	1954.5	1749.9	873.7	434.2	417.0	412.7	410.1	411.8	413.5	414.4
2099.6	32.5°	2032.2	1795.7	802.0	438.6	407.5	399.7	391.1	389.4	389.4	392.8
2174.7	35°	2118.6	1845.8	746.8	453.2	402.3	380.7	366.9	359.1	360.0	365.2
2264.5	37.5°	2222.2	1906.2	706.2	466.2	398.9	359.1	336.7	327.2	321.2	327.2
2387.9	40°	2357.7	1995.1	676.8	476.5	394.5	334.1	303.9	288.3	277.1	280.6
2579.6	42.5°	2557.1	2135.0	665.6	477.4	385.0	304.7	270.2	249.5	233.1	234.0
2867.9	45°	2836.8	2356.0	723.5	466.2	364.3	272.8	234.8	207.2	196.8	194.2
3298.7	47.5°	3220.2	2678.0	857.3	442.9	334.1	241.7	200.3	177.0	169.2	164.9
3864.2	50°	3733.8	3091.5	1005.8	417.0	303.9	212.4	171.8	157.1	151.9	147.6
4535.0	52.5°	4329.5	3511.1	1127.5	391.1	273.7	186.5	153.7	145.0	140.7	137.3
5182.5	55°	4876.0	3800.3	1120.6	363.5	244.3	165.8	140.7	135.5	130.4	126.9
5740.2	57.5°	5216.1	3840.9	923.7	333.2	210.6	149.4	128.6	125.2	119.1	114.8
6222.8	60°	5372.4	3609.5	647.5	293.5	177.0	133.8	115.7	114.0	106.2	100.1
6679.4	62.5°	5400.9	3179.6	431.7	244.3	147.6	119.1	102.7	100.1	89.8	79.4
7050.7	65°	5285.2	2564.9	298.7	190.8	126.0	103.6	88.1	82.9	71.7	61.3
7138.7	67.5°	4919.2	1800.9	208.1	137.3	107.1	82.0	69.9	68.2	59.6	50.9
6689.8	70°	4248.4	1026.5	139.0	102.7	84.6	56.1	55.3	57.0	48.3	41.4
5465.6	72.5°	3257.3	469.6	86.3	75.1	57.8	38.0	44.0	44.9	37.1	31.1
3410.1	75°	1917.4	201.2	54.4	48.3	29.4	25.0	31.9	32.8	25.0	19.9
1246.6	77.5°	652.7	76.0	34.5	28.5	14.7	13.8	20.7	20.7	13.8	7.8
250.4	80°	148.5	28.5	17.3	11.2	6.9	6.0	6.9	6.0	3.5	0.9
76.8	82.5°	42.3	11.2	6.9	4.3	2.6	2.6	0.9	0.0	0.0	0.0
26.8	85°	12.1	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.5	87.5°	5.2	0.9	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>
1385.6
1265.6
1067.9
822.7
604.3
520.6
505.9
491.2
475.7
461.0
446.3
431.7
416.1
395.4
367.8
325.5
278.8
230.5
190.8
162.3
146.8
136.4
125.2
114.0
98.4
74.2
57.8
48.3
38.0
27.6
17.3
6.0
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