

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: P945696

Luminaire Tested: **GALN-SB1C-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5280 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

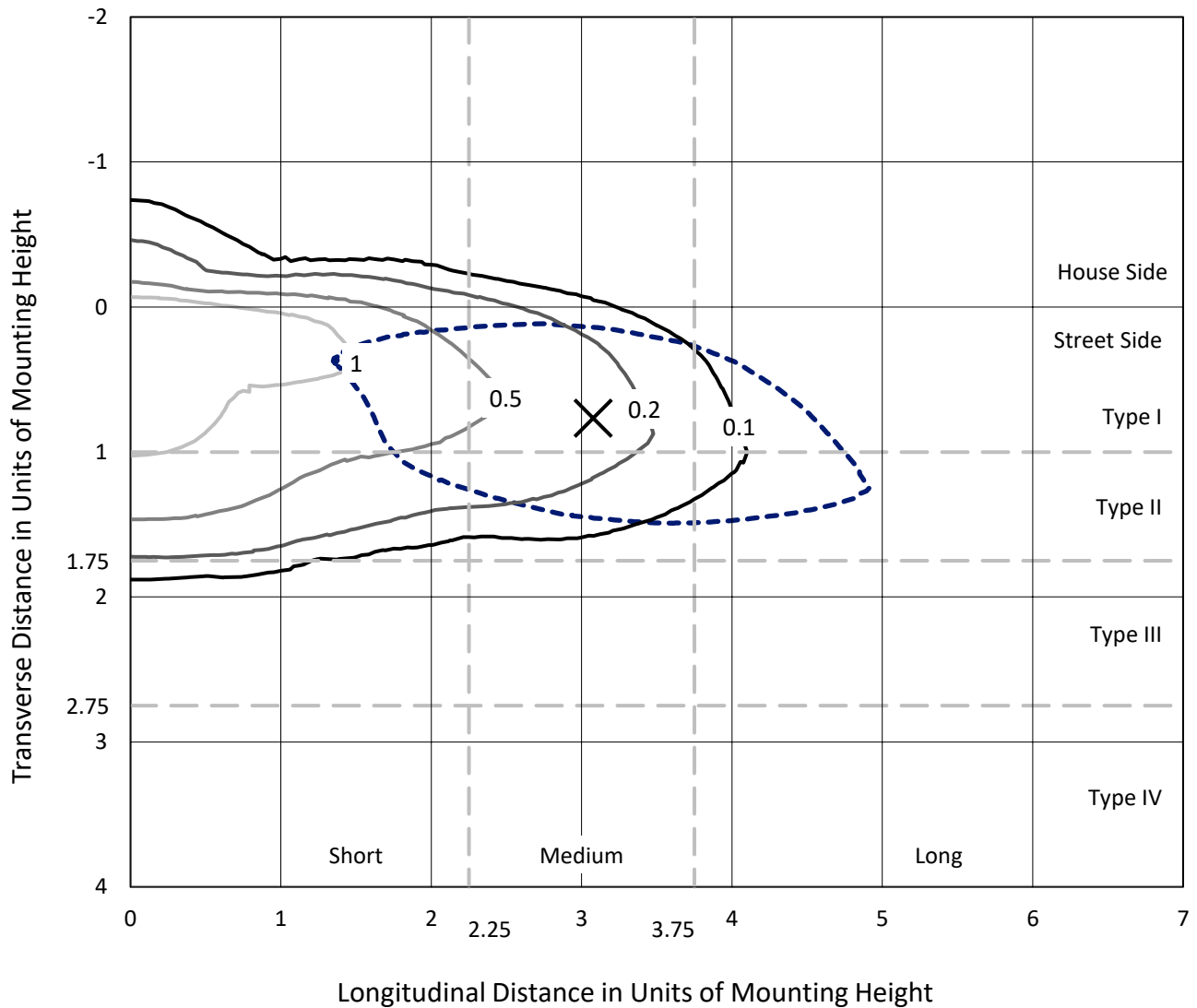
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

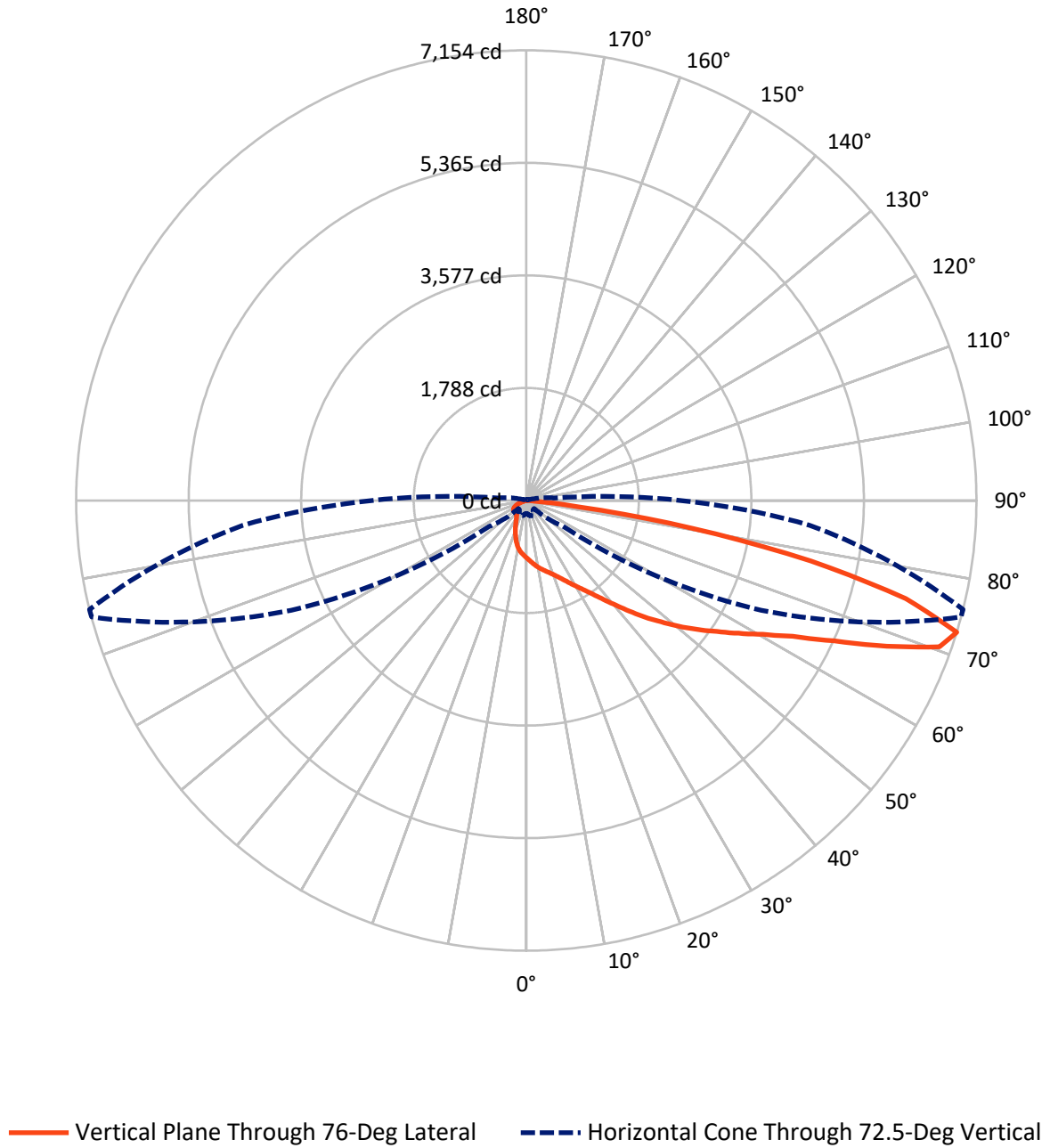
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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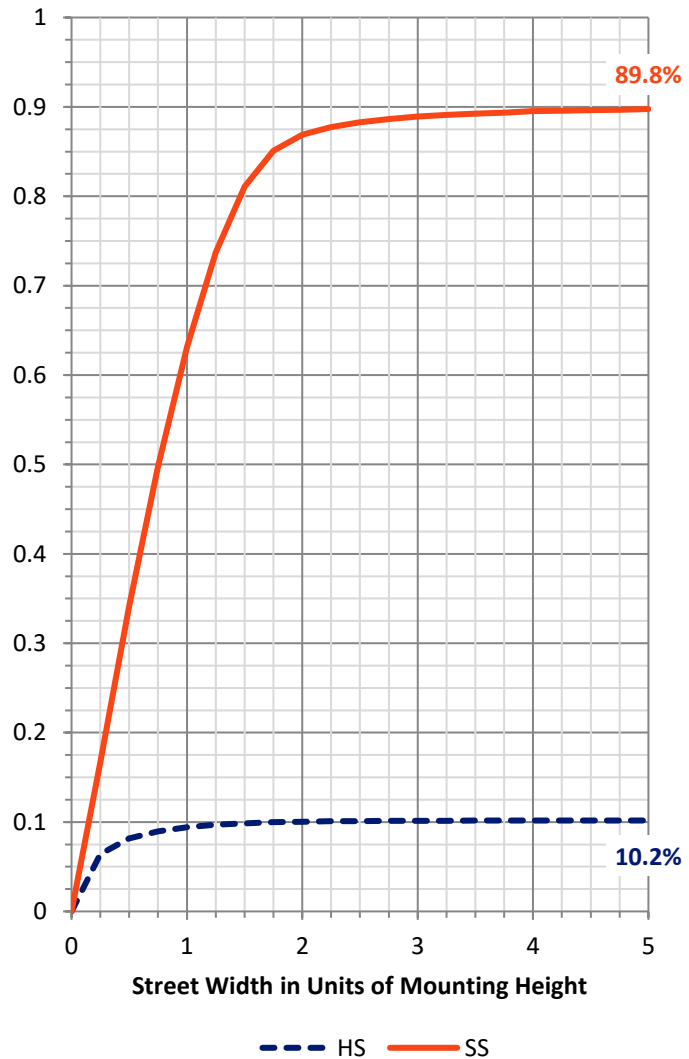
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	540.4	0.0	540.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4739.6	0.0	4739.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	5280.0	0.0	5280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.6
10°-20°	222.5	4.2
20°-30°	352.2	6.7
30°-40°	544.9	10.3
40°-50°	827.6	15.7
50°-60°	1140.9	21.6
60°-70°	1205.3	22.8
70°-80°	826.8	15.7
80°-90°	77.0	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°	5280.0	100.0
0°-180°	5280.0	100.0

Coefficient of Utilization



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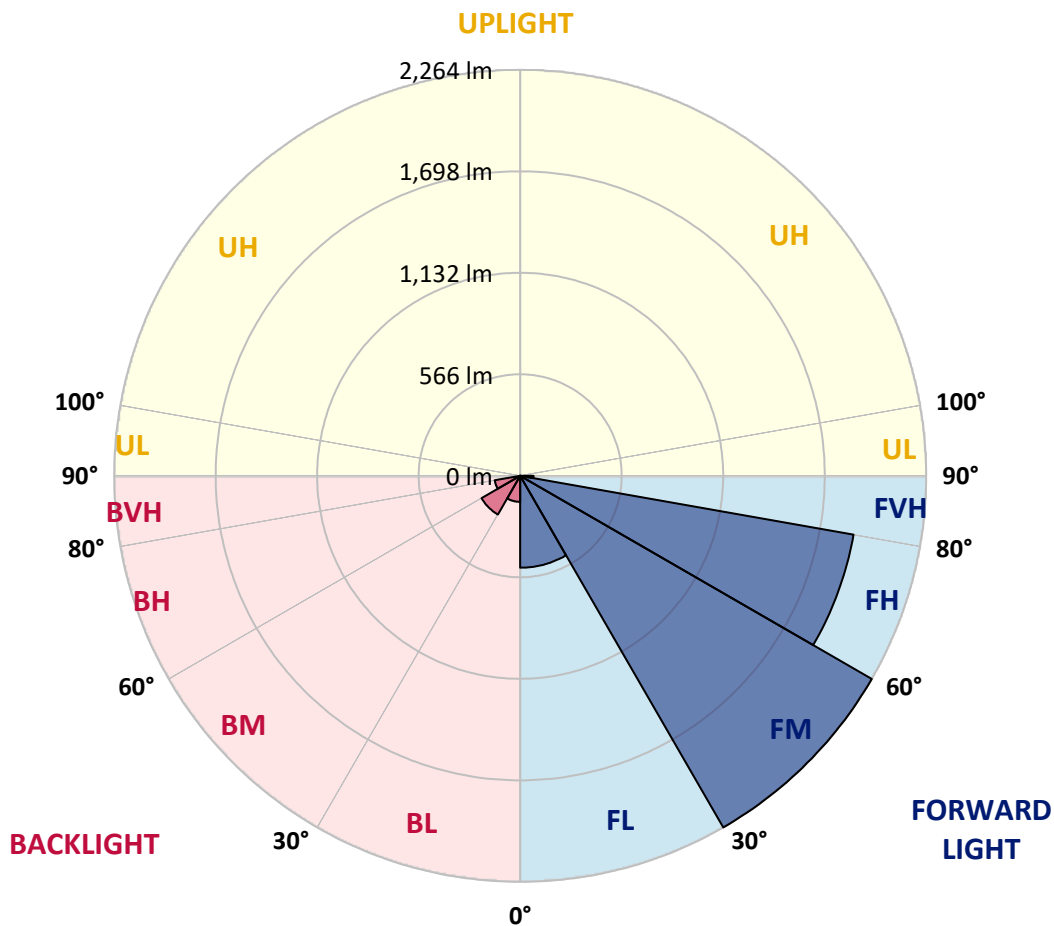
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.4	9.7			
FM (30°-60°)	2264.5	42.9			
FH (60°-80°)	1887.8	35.8			G2/5000
FVH (80°-90°)	74.9	1.4			G1/100
BL (0°-30°)	145.3	2.8	B1/500		
BM (30°-60°)	248.8	4.7	B1/1000		
BH (60°-80°)	144.3	2.7	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4
2.5°	1060.7	1046.7	1049.4	1035.4	1028.9	1013.1	996.7	975.1	951.1	951.1
5°	1172.4	1163.5	1163.5	1147.0	1134.4	1109.7	1080.3	1042.2	997.0	992.6
7.5°	1240.9	1235.4	1238.8	1229.2	1219.0	1193.3	1158.3	1108.7	1044.6	1039.2
10°	1254.2	1253.9	1263.5	1266.2	1273.1	1260.1	1228.9	1171.7	1091.6	1083.7
12.5°	1202.5	1196.0	1219.7	1247.4	1286.4	1303.9	1287.8	1229.2	1134.4	1123.4
15°	1117.6	1119.0	1141.6	1184.4	1249.5	1311.8	1332.7	1285.4	1177.9	1164.9
17.5°	1069.0	1063.8	1083.3	1121.7	1193.6	1281.6	1353.6	1337.8	1224.1	1209.4
20°	1063.1	1062.8	1067.2	1084.7	1139.5	1238.5	1351.2	1388.9	1278.6	1261.4
22.5°	1103.5	1102.9	1099.1	1095.7	1110.7	1196.4	1340.9	1437.5	1343.6	1325.1
25°	1165.5	1164.5	1158.7	1137.8	1123.1	1173.8	1331.3	1482.7	1420.7	1400.2
27.5°	1241.2	1240.5	1229.9	1198.4	1160.4	1175.8	1326.5	1529.3	1509.8	1489.5
30°	1334.1	1332.7	1310.8	1266.2	1216.6	1208.4	1333.0	1581.7	1602.6	1587.2
32.5°	1450.5	1446.7	1418.0	1350.8	1281.3	1251.9	1345.4	1635.5	1712.5	1698.1
35°	1540.6	1534.8	1518.0	1458.7	1356.3	1305.3	1374.1	1699.2	1844.7	1832.1
37.5°	1618.0	1612.2	1598.5	1549.8	1463.9	1373.4	1420.4	1784.1	2000.9	1994.7
40°	1701.6	1692.0	1685.5	1633.4	1555.7	1471.7	1486.5	1883.4	2180.7	2181.4
42.5°	1765.9	1762.2	1762.9	1722.8	1644.4	1588.2	1574.1	1995.4	2396.2	2402.7
45°	1821.1	1818.0	1830.7	1802.6	1733.8	1664.6	1676.9	2122.2	2631.8	2645.2
47.5°	1863.6	1867.0	1885.1	1867.0	1826.6	1718.3	1768.0	2258.8	2879.4	2881.1
50°	1906.0	1907.4	1937.5	1928.6	1912.2	1786.5	1851.9	2411.6	3140.4	3143.5
52.5°	1919.4	1917.3	1965.3	1987.2	1987.9	1870.8	1960.5	2578.0	3396.3	3406.2
55°	1850.9	1856.7	1934.1	2023.2	2058.4	1987.2	2107.1	2788.7	3668.9	3673.0
57.5°	1515.9	1548.1	1719.4	1925.9	2104.0	2154.0	2317.7	3034.9	3983.7	3979.9
60°	920.0	958.3	1163.1	1615.2	1955.4	2321.5	2628.0	3416.5	4327.5	4316.9
62.5°	514.4	526.1	591.5	966.9	1487.2	2215.0	2931.1	3906.6	4789.2	4753.3
65°	379.2	382.9	398.3	473.7	730.9	1703.6	2864.7	4492.6	5437.9	5373.9
67.5°	329.5	333.3	348.3	358.6	326.4	895.0	2360.2	4817.7	6261.7	6177.7
70°	277.4	279.5	303.8	310.7	233.6	340.4	1516.3	4717.3	7024.1	6964.1
72.5°	206.9	215.1	250.4	266.8	187.3	180.8	713.8	4124.4	7153.2	7153.9
75°	140.4	148.0	188.4	219.5	144.5	126.7	288.0	3079.8	6228.8	6228.8
77.5°	95.9	102.1	131.2	172.3	109.6	87.0	149.3	1954.7	4468.6	4625.9
80°	42.5	46.2	84.6	125.0	83.2	56.2	84.6	1070.3	2702.4	2669.1
82.5°	20.9	24.0	54.1	78.1	53.8	34.6	44.5	509.0	875.8	832.3
85°	4.1	5.5	29.1	33.2	25.0	15.4	16.8	156.5	105.5	120.6
87.5°	0.0	0.0	8.9	6.2	2.7	3.4	3.4	14.0	8.2	9.6
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°
912.4	0°	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4	912.4
927.8	2.5°	915.5	902.8	875.1	847.7	819.6	793.9	776.1	758.3	747.3	742.5
948.4	5°	922.7	897.0	838.8	777.8	717.5	658.6	614.5	573.0	560.0	538.4
972.7	7.5°	934.0	892.2	800.4	697.7	599.7	513.4	451.1	401.4	381.5	362.4
993.6	10°	941.5	883.3	749.7	612.4	479.8	382.9	323.3	287.4	274.3	262.7
1013.1	12.5°	944.6	866.9	691.5	516.8	373.3	291.8	256.2	239.4	235.0	230.8
1031.6	15°	947.4	850.8	626.4	424.7	294.9	244.2	230.2	224.7	221.6	218.9
1050.5	17.5°	949.8	830.2	552.1	345.2	249.0	225.0	218.2	212.4	210.0	206.9
1077.5	20°	958.0	810.4	485.7	285.0	224.0	211.3	203.8	197.6	195.6	193.5
1115.9	22.5°	973.4	794.3	421.3	244.2	208.9	197.3	187.7	180.8	179.5	178.1
1162.5	25°	991.9	774.4	360.7	217.8	194.2	181.2	170.6	164.7	163.4	163.7
1216.2	27.5°	1015.5	752.5	308.6	201.0	181.2	166.1	154.1	149.7	150.4	151.7
1278.2	30°	1041.6	732.3	267.8	189.4	169.5	152.8	140.8	137.7	140.1	142.1
1361.1	32.5°	1080.3	714.5	239.4	180.2	159.3	141.8	132.2	128.4	131.2	133.9
1466.9	35°	1133.0	705.6	223.3	172.3	150.4	133.2	123.6	120.9	123.6	124.3
1596.1	37.5°	1197.7	704.9	216.5	165.8	142.1	126.0	115.4	114.4	116.5	116.8
1751.2	40°	1281.3	709.3	211.3	161.0	133.6	117.8	107.9	106.9	107.5	109.9
1937.9	42.5°	1387.1	727.8	204.1	154.8	124.3	109.6	101.7	99.3	99.0	101.7
2146.8	45°	1520.0	768.6	194.5	144.9	116.1	102.8	94.9	92.1	91.1	91.8
2362.6	47.5°	1664.9	818.6	185.0	135.6	110.3	97.3	89.4	86.0	84.3	84.3
2564.3	50°	1805.3	875.1	178.4	126.0	106.2	92.1	83.6	80.1	77.4	76.7
2771.9	52.5°	1944.4	930.6	173.3	116.5	101.4	85.6	78.1	74.3	71.2	69.9
2977.4	55°	2071.1	983.3	164.4	107.2	95.2	78.8	72.6	68.8	65.1	62.7
3185.6	57.5°	2192.7	1027.2	148.0	97.6	85.6	72.3	66.8	62.7	58.2	55.1
3396.3	60°	2303.3	1049.8	127.4	87.3	76.0	65.4	60.3	56.5	50.7	45.6
3603.5	62.5°	2387.6	1040.9	105.1	75.7	66.1	59.3	52.7	49.0	42.1	36.0
3851.8	65°	2473.9	992.2	83.9	63.4	57.9	51.0	44.2	40.4	32.5	26.0
4187.8	67.5°	2585.9	888.5	66.1	52.7	50.0	40.4	34.6	32.2	26.7	20.6
4548.4	70°	2657.8	690.1	51.4	42.8	41.1	29.5	26.7	26.4	21.2	15.8
4524.1	72.5°	2460.5	452.4	39.4	32.5	29.5	19.2	20.6	20.6	15.4	10.6
3965.9	75°	2054.0	264.8	28.4	23.3	16.8	12.3	14.0	14.0	9.6	5.1
2826.7	77.5°	1466.9	141.1	18.8	14.4	8.6	5.5	7.5	7.2	3.1	0.3
1108.0	80°	561.0	48.6	8.9	5.8	2.4	1.0	0.7	0.3	0.3	0.0
173.0	82.5°	85.6	12.7	1.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
36.6	85°	15.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.6	87.5°	3.4	0.0	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>
912.4
743.2
539.8
362.0
262.4
230.8
218.9
206.9
193.9
177.1
163.0
151.0
141.5
133.2
124.0
116.1
109.6
101.4
92.8
84.3
76.4
69.2
61.7
53.8
44.2
33.6
24.3
19.2
14.0
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