

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: P945294

Luminaire Tested: **GALN-SB1B-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5081 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

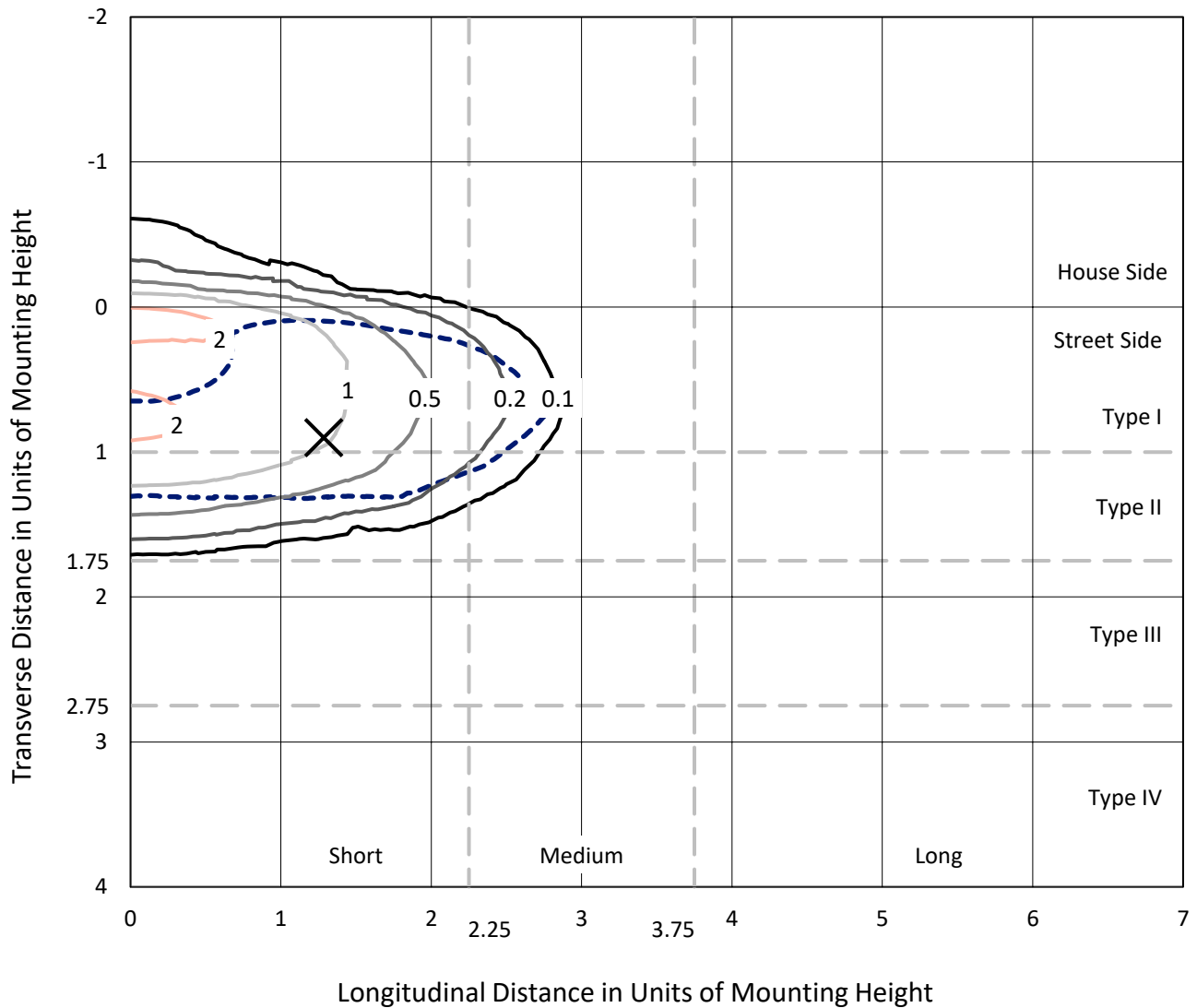
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945294
 CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

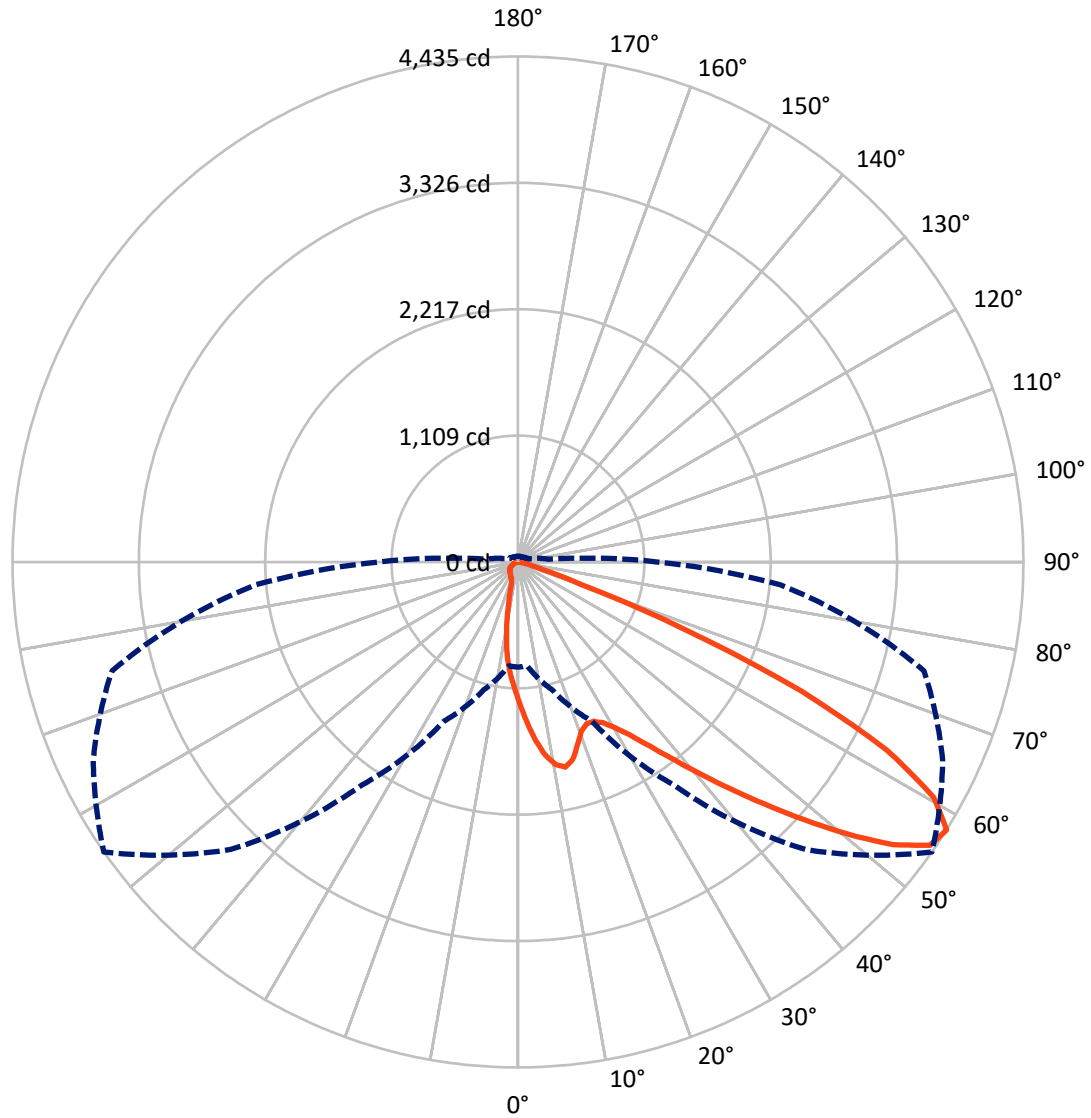
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

REPORT NUMBER: P945294
CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P945294

CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

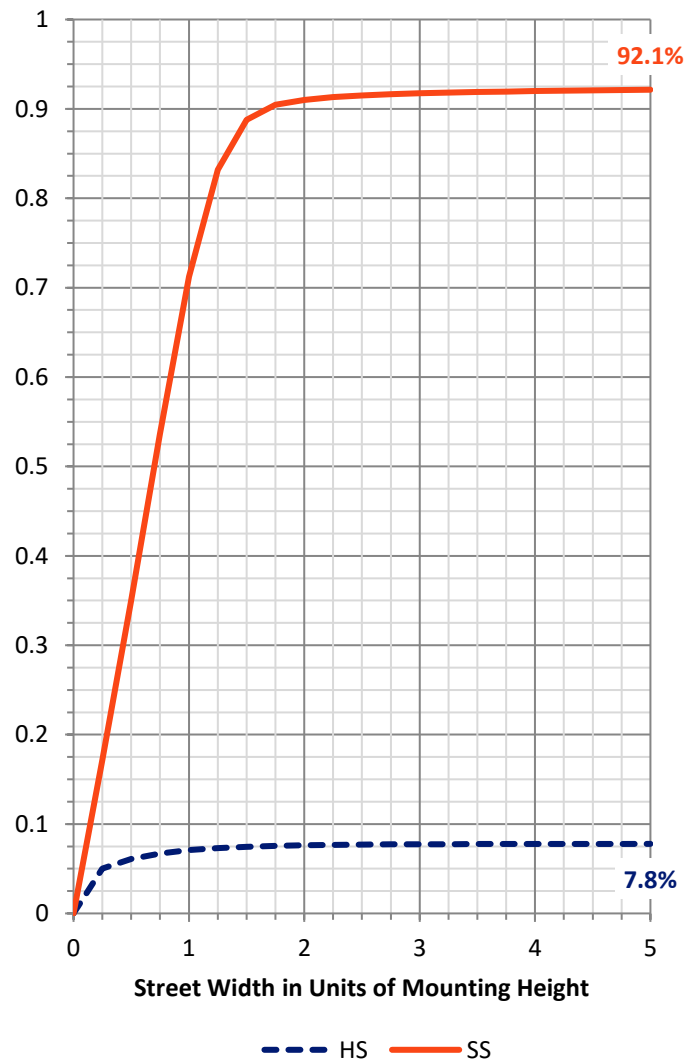
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.8	0.0	396.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4684.2	0.0	4684.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	5081.0	0.0	5081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	2.2
10°-20°	275.2	5.4
20°-30°	440.3	8.7
30°-40°	745.2	14.7
40°-50°	1223.5	24.1
50°-60°	1344.7	26.5
60°-70°	771.3	15.2
70°-80°	157.6	3.1
80°-90°	9.3	0.2
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°	5081.0	100.0
0°-180°	5081.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945294

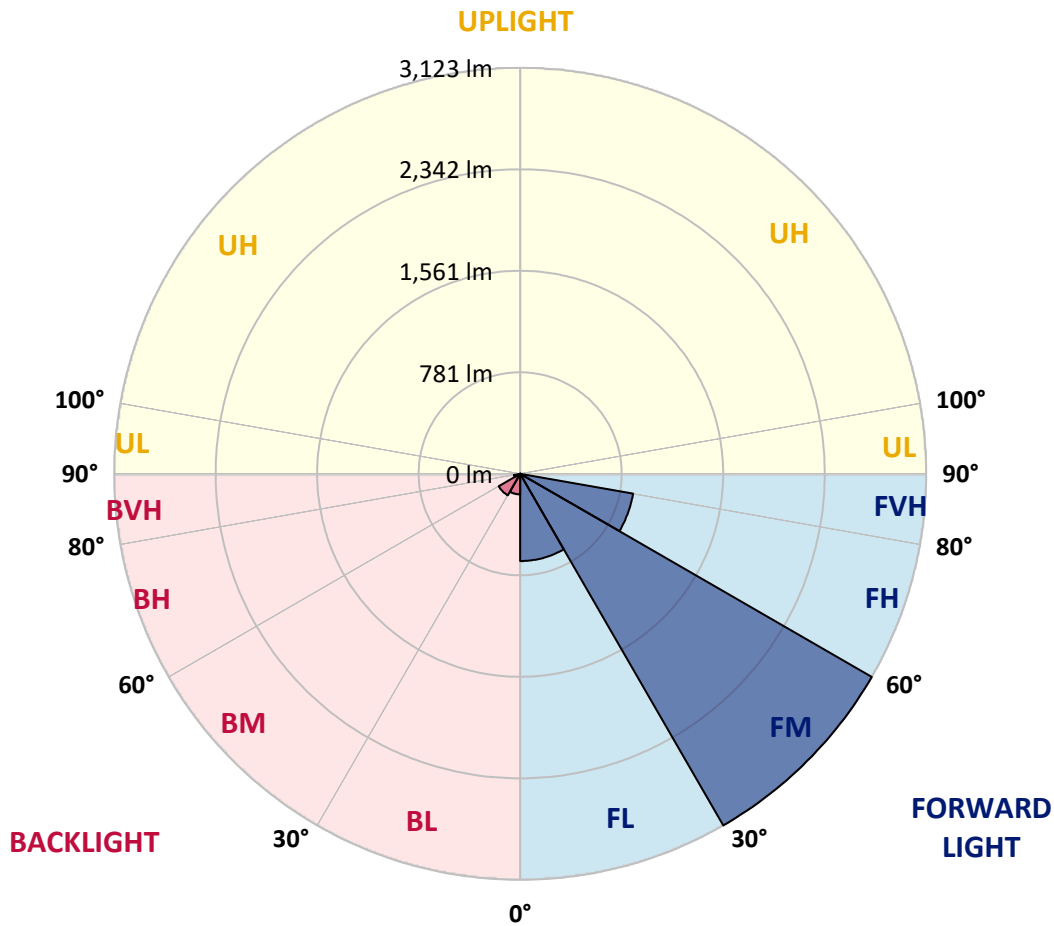
CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.0	13.2			
FM (30°-60°)	3122.8	61.5			
FH (60°-80°)	881.7	17.4			G1/1800
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	158.4	3.1	B1/500		
BM (30°-60°)	190.6	3.8	B0/220		
BH (60°-80°)	47.2	0.9	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1

Type II Short



REPORT NUMBER: P945294
 CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1519.2	1500.1	1497.3	1493.5	1457.2	1429.9	1390.4	1347.2	1298.6	1249.1
5°	1755.1	1740.1	1737.3	1719.7	1678.4	1632.0	1561.8	1473.2	1382.6	1276.1
7.5°	1800.9	1798.1	1810.9	1810.3	1804.6	1768.0	1708.8	1603.2	1467.2	1309.3
10°	1596.9	1604.1	1642.3	1675.9	1766.4	1819.0	1806.2	1719.1	1554.3	1347.2
12.5°	1411.1	1402.7	1429.9	1467.8	1573.1	1729.8	1846.6	1815.9	1653.9	1390.1
15°	1294.6	1291.1	1306.5	1324.0	1404.2	1562.1	1799.6	1894.6	1749.8	1440.9
17.5°	1257.3	1254.5	1259.2	1263.6	1315.6	1437.8	1687.8	1942.8	1841.6	1498.9
20°	1287.7	1283.9	1283.3	1279.9	1301.5	1384.8	1586.6	1946.3	1924.0	1551.5
22.5°	1376.3	1372.0	1356.6	1342.8	1344.7	1392.0	1541.5	1911.8	1986.0	1600.7
25°	1537.1	1529.9	1497.9	1451.5	1422.1	1442.1	1548.4	1866.4	2045.3	1639.2
27.5°	1738.2	1728.8	1687.8	1618.8	1551.5	1527.0	1598.2	1835.0	2094.4	1668.7
30°	1935.3	1923.1	1882.6	1829.1	1730.7	1653.6	1688.1	1848.8	2153.0	1699.4
32.5°	2148.0	2136.4	2082.9	2016.4	1935.0	1831.3	1811.2	1916.2	2224.8	1742.3
35°	2417.1	2399.0	2322.8	2232.3	2145.8	2040.9	1977.9	2032.4	2320.3	1807.8
37.5°	2723.6	2699.1	2617.0	2492.0	2379.2	2261.7	2180.9	2192.2	2460.4	1895.5
40°	3012.4	2990.2	2914.4	2796.6	2654.9	2512.4	2426.2	2401.2	2653.7	2002.3
42.5°	3185.7	3165.6	3133.7	3083.9	2964.5	2819.1	2710.4	2656.2	2882.4	2130.2
45°	3195.4	3177.9	3220.8	3278.7	3255.2	3158.4	3025.9	2926.6	3112.1	2250.2
47.5°	3040.0	3028.1	3158.4	3360.8	3461.7	3502.4	3380.2	3174.4	3301.6	2336.3
50°	2616.4	2612.0	2880.2	3251.8	3540.3	3803.8	3754.0	3405.0	3448.5	2380.8
52.5°	2268.6	2252.7	2409.0	2902.8	3426.0	3962.4	4119.3	3631.2	3551.3	2389.3
55°	1720.7	1706.6	1902.7	2318.8	3057.2	3906.0	4386.6	3864.6	3624.9	2367.6
57.5°	923.0	914.2	1162.0	1543.3	2389.9	3567.6	4434.8	4111.5	3687.0	2310.3
60°	359.4	357.8	450.5	748.8	1452.5	2902.5	4191.4	4259.7	3725.8	2239.8
62.5°	217.4	222.1	237.2	336.2	641.6	1803.1	3630.3	4091.1	3751.8	2175.3
65°	179.8	180.2	182.0	230.9	307.4	754.4	2733.0	3536.6	3687.6	2060.3
67.5°	154.1	157.0	164.2	183.3	216.8	330.9	1573.4	2739.5	3296.9	1792.7
70°	121.6	125.3	134.4	150.7	167.3	207.1	581.5	1822.8	2518.7	1351.3
72.5°	102.5	102.1	106.8	122.5	132.8	145.7	223.7	1021.4	1463.8	645.1
75°	79.3	82.4	88.4	102.5	108.7	105.6	121.2	373.1	524.5	195.5
77.5°	62.0	64.5	69.9	83.7	89.9	74.9	69.9	133.5	168.6	70.2
80°	27.9	30.1	47.6	61.7	73.3	51.7	37.9	68.3	74.9	32.0
82.5°	5.0	8.5	27.9	32.6	37.6	33.5	19.7	35.4	36.7	12.8
85°	0.3	0.6	9.7	11.9	15.0	11.0	6.0	14.1	12.2	4.4
87.5°	0.0	0.0	0.0	0.3	0.3	1.6	1.9	2.5	1.9	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945294
 CATALOG NUMBER: GALN-SB1B-750-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1224.4	0°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4
1227.2	2.5°	1204.7	1160.2	1116.9	1081.5	1060.9	1025.8	1002.6	998.8	989.1	997.6
1230.3	5°	1181.5	1101.9	1021.4	949.3	890.1	813.7	756.6	732.5	711.5	718.7
1238.5	7.5°	1170.5	1044.9	919.6	796.4	669.8	547.7	456.8	418.9	390.1	394.1
1247.6	10°	1155.8	985.7	789.2	601.2	431.7	311.1	248.5	225.3	212.4	212.7
1261.1	12.5°	1144.5	914.9	637.9	407.6	262.9	198.6	179.2	173.6	169.8	170.1
1281.4	15°	1138.9	831.5	488.4	271.6	188.0	168.2	163.5	161.0	158.5	158.2
1304.0	17.5°	1129.5	738.8	357.5	198.3	164.5	157.6	153.5	150.7	147.6	146.9
1323.4	20°	1115.4	633.5	261.3	167.6	154.1	148.8	143.2	139.4	135.7	135.0
1335.6	22.5°	1089.4	522.3	200.8	155.1	146.6	140.7	133.8	129.4	125.6	125.0
1329.7	25°	1041.1	417.9	169.2	147.3	140.0	132.8	125.3	119.4	115.9	115.3
1316.8	27.5°	980.0	328.3	153.5	140.0	131.6	125.0	116.5	110.9	107.8	107.2
1299.9	30°	908.0	252.8	144.4	131.9	121.6	115.9	108.4	103.7	101.8	101.8
1288.0	32.5°	830.3	202.1	140.7	123.8	112.8	106.5	100.6	98.7	98.1	97.8
1294.6	35°	757.3	175.5	138.8	117.2	105.0	99.0	96.5	96.8	98.1	98.1
1314.9	37.5°	692.4	167.0	137.9	112.5	98.1	92.7	94.3	97.1	95.9	95.9
1350.7	40°	633.8	167.9	137.2	109.0	92.4	89.3	92.4	90.2	87.1	86.8
1394.2	42.5°	589.0	175.8	136.0	106.2	89.0	86.8	85.5	82.1	81.8	82.4
1439.3	45°	556.4	182.7	135.7	105.0	85.2	81.1	79.6	76.1	82.4	84.0
1457.8	47.5°	517.9	182.7	135.7	100.6	79.0	77.4	74.9	71.1	77.4	79.0
1440.3	50°	468.1	171.1	130.3	95.6	73.9	73.0	68.6	63.9	62.7	63.6
1399.2	52.5°	405.1	150.1	116.9	88.7	68.9	67.0	61.7	58.3	57.3	57.3
1325.6	55°	333.4	125.6	98.7	78.6	63.6	60.2	56.4	54.8	53.9	53.3
1222.5	57.5°	271.0	103.1	79.3	69.9	58.6	54.2	52.9	51.1	49.5	48.6
1136.4	60°	222.4	81.1	65.5	62.0	53.6	49.5	49.2	46.7	42.6	42.0
1065.2	62.5°	171.7	59.5	55.1	53.9	48.6	45.1	44.5	39.5	33.2	32.0
964.4	65°	121.2	46.4	44.5	47.3	43.2	40.1	38.5	31.0	24.4	23.5
807.1	67.5°	85.2	38.8	35.1	41.4	37.6	33.5	32.6	26.3	20.4	19.7
610.3	70°	60.8	31.6	28.8	35.4	30.1	29.5	27.6	21.9	16.6	16.0
302.0	72.5°	42.9	24.1	22.2	30.7	20.7	25.4	22.6	16.9	12.5	11.9
102.8	75°	31.6	17.2	15.7	17.9	15.0	19.1	16.0	11.3	7.8	7.5
46.4	77.5°	23.2	11.0	9.4	8.8	8.8	11.9	8.8	4.7	3.4	3.1
23.5	80°	16.3	5.0	4.4	3.8	3.4	2.8	1.3	0.6	0.3	0.3
8.1	82.5°	9.7	2.2	2.2	1.6	0.9	0.0	0.0	0.0	0.0	0.0
3.1	85°	2.2	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.3	87.5°	0.3	0.3	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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