

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: P945360

Luminaire Tested: **GALN-SB1B-830-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945360
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-SB1B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA 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: 4102 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

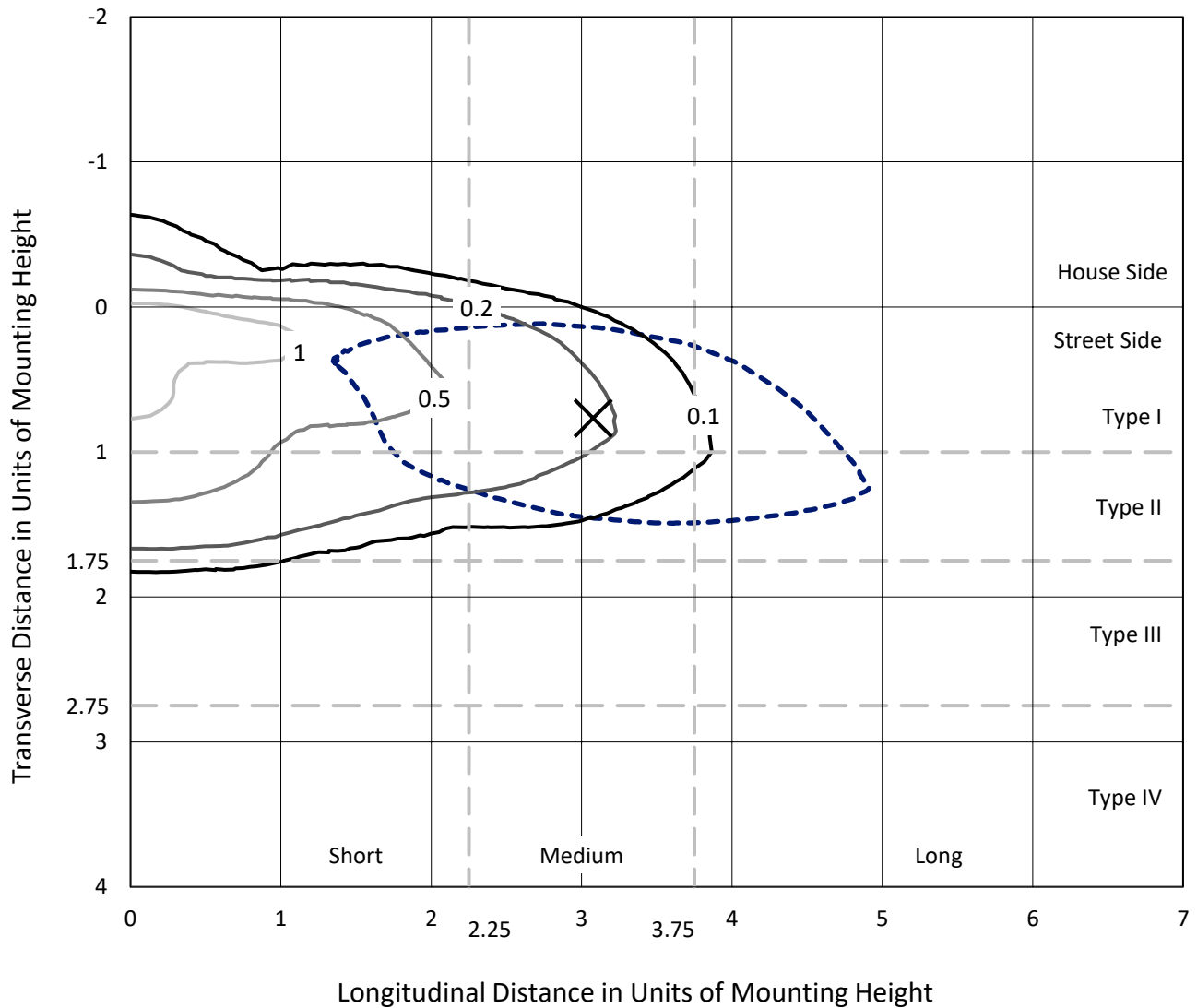
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

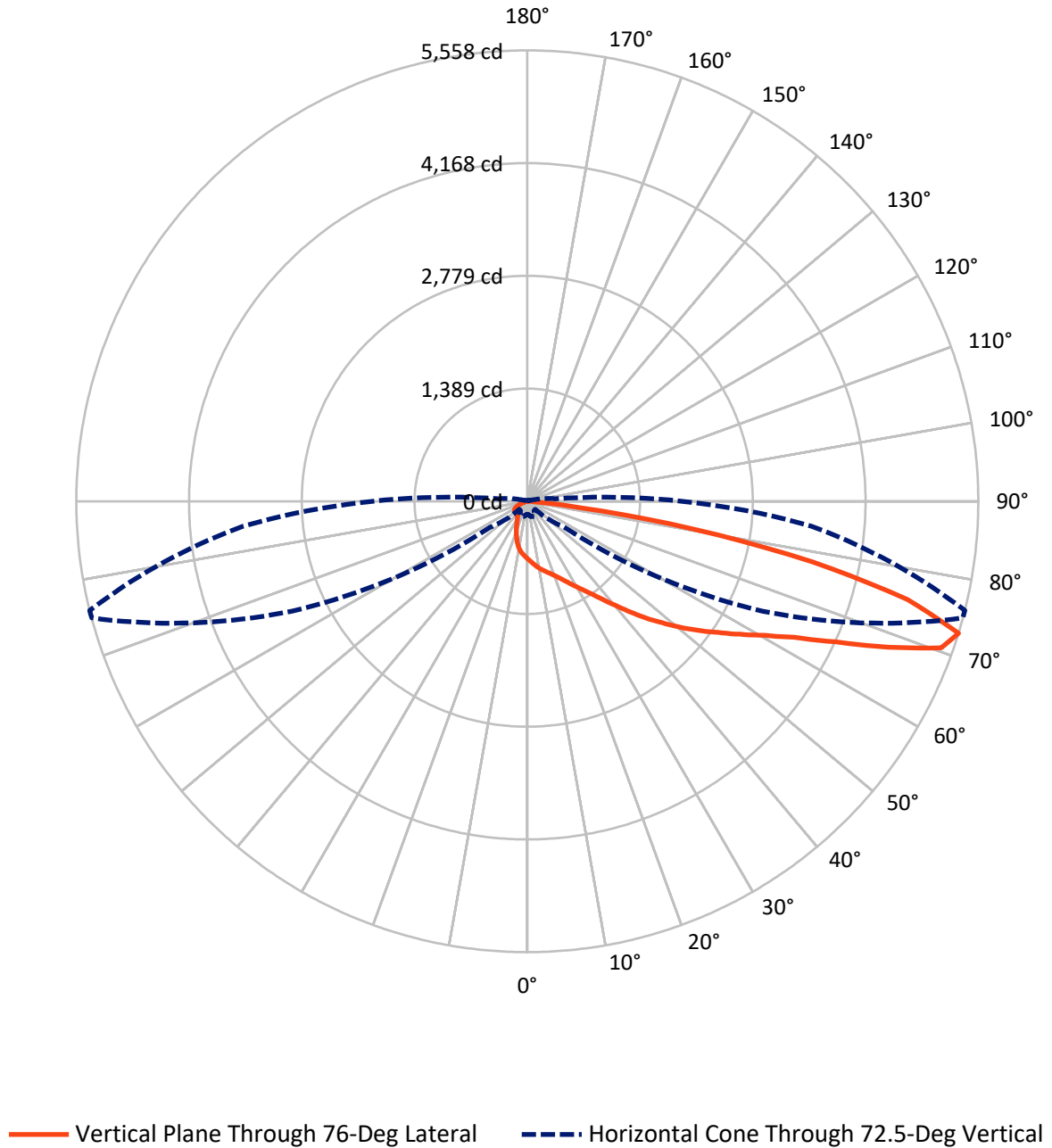
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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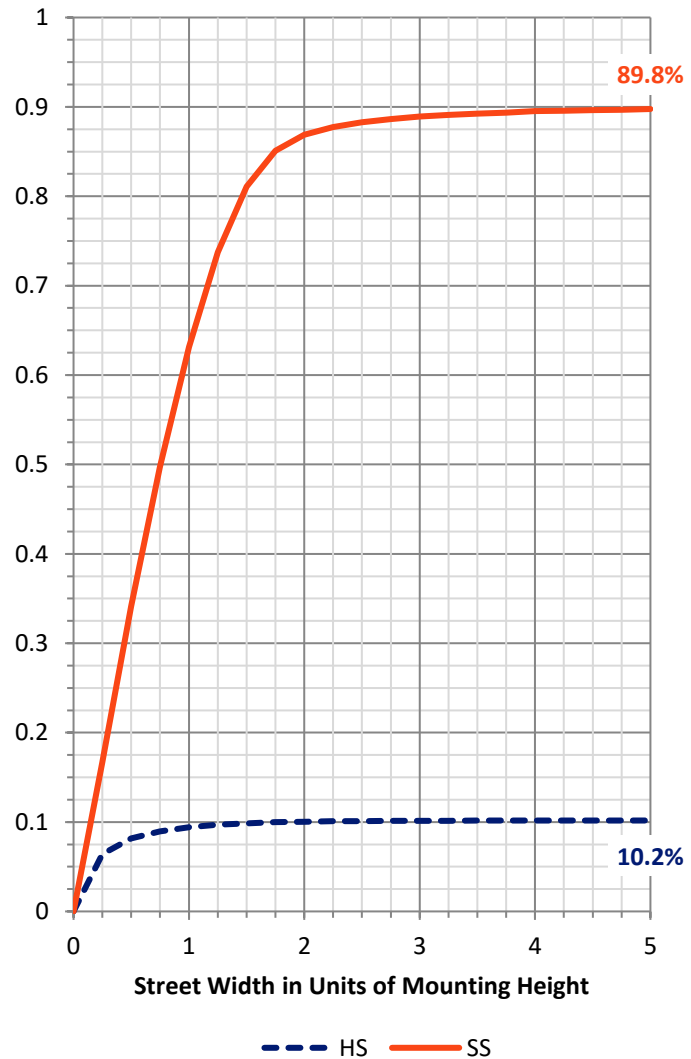
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.8	0.0	419.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3682.2	0.0	3682.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	4102.0	0.0	4102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.6
10°-20°	172.9	4.2
20°-30°	273.6	6.7
30°-40°	423.3	10.3
40°-50°	642.9	15.7
50°-60°	886.3	21.6
60°-70°	936.4	22.8
70°-80°	642.4	15.7
80°-90°	59.8	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°	4102.0	100.0
0°-180°	4102.0	100.0

Coefficient of Utilization



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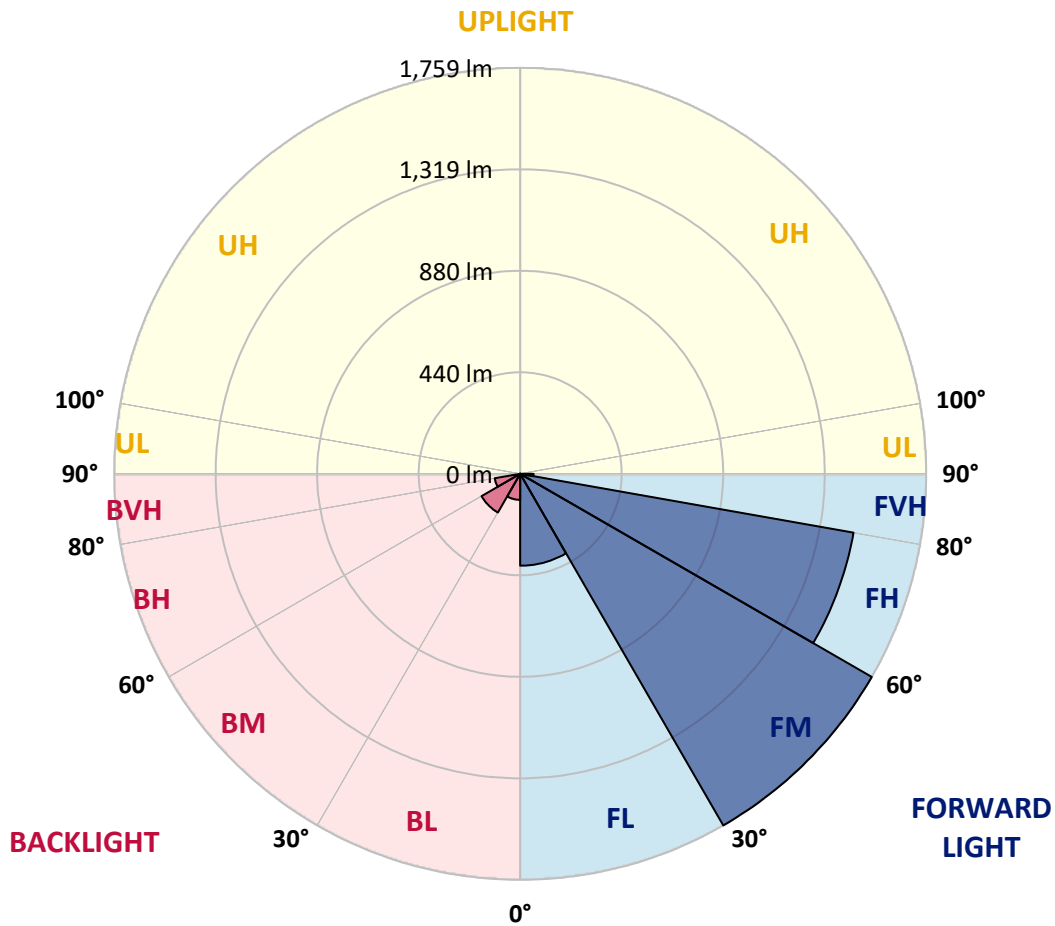
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.1	9.7			
FM (30°-60°)	1759.3	42.9			
FH (60°-80°)	1466.6	35.8			G1/1800
FVH (80°-90°)	58.2	1.4			G1/100
BL (0°-30°)	112.9	2.8	B1/500		
BM (30°-60°)	193.3	4.7	B0/220		
BH (60°-80°)	112.1	2.7	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	824.1	813.2	815.3	804.4	799.3	787.1	774.3	757.6	738.9	738.9
5°	910.8	903.9	903.9	891.1	881.3	862.1	839.2	809.7	774.6	771.1
7.5°	964.0	959.8	962.4	955.0	947.0	927.1	899.9	861.3	811.6	807.3
10°	974.4	974.2	981.6	983.7	989.1	978.9	954.7	910.3	848.0	841.9
12.5°	934.2	929.2	947.5	969.1	999.4	1013.0	1000.5	955.0	881.3	872.8
15°	868.2	869.3	886.9	920.1	970.7	1019.1	1035.4	998.6	915.1	905.0
17.5°	830.5	826.5	841.6	871.4	927.3	995.7	1051.6	1039.3	951.0	939.6
20°	825.9	825.7	829.1	842.7	885.3	962.2	1049.7	1079.0	993.3	980.0
22.5°	857.3	856.8	853.9	851.2	862.9	929.4	1041.7	1116.8	1043.9	1029.5
25°	905.5	904.7	900.2	883.9	872.5	911.9	1034.3	1151.9	1103.7	1087.8
27.5°	964.3	963.8	955.5	931.0	901.5	913.5	1030.6	1188.1	1172.9	1157.2
30°	1036.4	1035.4	1018.3	983.7	945.1	938.8	1035.6	1228.8	1245.0	1233.1
32.5°	1126.9	1124.0	1101.6	1049.5	995.4	972.6	1045.2	1270.6	1330.4	1319.3
35°	1196.9	1192.3	1179.3	1133.3	1053.7	1014.1	1067.5	1320.1	1433.2	1423.3
37.5°	1257.0	1252.5	1241.8	1204.1	1137.3	1067.0	1103.5	1386.1	1554.5	1549.7
40°	1321.9	1314.5	1309.4	1269.0	1208.6	1143.4	1154.8	1463.2	1694.2	1694.7
42.5°	1372.0	1369.0	1369.6	1338.4	1277.5	1233.9	1222.9	1550.2	1861.6	1866.6
45°	1414.8	1412.4	1422.2	1400.4	1346.9	1293.2	1302.8	1648.7	2044.6	2055.0
47.5°	1447.8	1450.5	1464.6	1450.5	1419.1	1335.0	1373.6	1754.9	2237.0	2238.3
50°	1480.8	1481.9	1505.3	1498.3	1485.6	1387.9	1438.7	1873.5	2439.8	2442.2
52.5°	1491.2	1489.6	1526.8	1543.8	1544.4	1453.4	1523.1	2002.9	2638.5	2646.3
55°	1437.9	1442.5	1502.6	1571.8	1599.2	1543.8	1637.0	2166.5	2850.3	2853.5
57.5°	1177.7	1202.7	1335.8	1496.2	1634.6	1673.4	1800.6	2357.8	3094.9	3092.0
60°	714.7	744.5	903.6	1254.9	1519.1	1803.6	2041.7	2654.2	3362.0	3353.8
62.5°	399.7	408.7	459.5	751.2	1155.4	1720.8	2277.2	3035.0	3720.7	3692.8
65°	294.6	297.5	309.5	368.0	567.8	1323.5	2225.6	3490.3	4224.7	4174.9
67.5°	256.0	258.9	270.6	278.6	253.6	695.3	1833.6	3742.8	4864.6	4799.4
70°	215.5	217.1	236.0	241.3	181.5	264.5	1178.0	3664.8	5457.0	5410.4
72.5°	160.7	167.1	194.5	207.3	145.6	140.5	554.5	3204.2	5557.3	5557.8
75°	109.1	115.0	146.3	170.6	112.3	98.5	223.8	2392.7	4839.1	4839.1
77.5°	74.5	79.3	101.9	133.8	85.1	67.6	116.0	1518.6	3471.7	3593.8
80°	33.0	35.9	65.7	97.1	64.7	43.6	65.7	831.5	2099.4	2073.6
82.5°	16.2	18.6	42.0	60.7	41.8	26.9	34.6	395.4	680.4	646.6
85°	3.2	4.3	22.6	25.8	19.4	12.0	13.0	121.6	82.0	93.7
87.5°	0.0	0.0	6.9	4.8	2.1	2.7	2.7	10.9	6.4	7.5
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°
708.9	0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
720.8	2.5°	711.3	701.4	679.9	658.6	636.8	616.8	603.0	589.1	580.6	576.9
736.8	5°	716.8	696.9	651.7	604.3	557.5	511.7	477.4	445.2	435.1	418.3
755.7	7.5°	725.6	693.2	621.9	542.0	465.9	398.9	350.4	311.9	296.4	281.5
771.9	10°	731.5	686.2	582.5	475.8	372.8	297.5	251.2	223.2	213.1	204.1
787.1	12.5°	733.9	673.5	537.2	401.5	290.0	226.7	199.0	186.0	182.5	179.3
801.5	15°	736.0	661.0	486.7	330.0	229.1	189.7	178.8	174.6	172.2	170.0
816.1	17.5°	737.9	645.0	428.9	268.2	193.4	174.8	169.5	165.0	163.1	160.7
837.1	20°	744.3	629.6	377.3	221.4	174.0	164.2	158.3	153.5	151.9	150.3
866.9	22.5°	756.2	617.1	327.3	189.7	162.3	153.3	145.8	140.5	139.4	138.4
903.1	25°	770.6	601.6	280.2	169.2	150.9	140.8	132.5	128.0	126.9	127.2
944.9	27.5°	789.0	584.6	239.7	156.2	140.8	129.1	119.7	116.3	116.8	117.9
993.0	30°	809.2	568.9	208.1	147.1	131.7	118.7	109.4	107.0	108.8	110.4
1057.4	32.5°	839.2	555.1	186.0	140.0	123.7	110.2	102.7	99.8	101.9	104.0
1139.7	35°	880.2	548.1	173.5	133.8	116.8	103.5	96.1	93.9	96.1	96.6
1240.0	37.5°	930.5	547.6	168.2	128.8	110.4	97.9	89.7	88.9	90.5	90.7
1360.5	40°	995.4	551.1	164.2	125.1	103.8	91.5	83.8	83.0	83.6	85.4
1505.5	42.5°	1077.7	565.4	158.6	120.3	96.6	85.1	79.0	77.2	76.9	79.0
1667.8	45°	1180.9	597.1	151.1	112.6	90.2	79.8	73.7	71.6	70.8	71.3
1835.5	47.5°	1293.5	636.0	143.7	105.4	85.7	75.6	69.4	66.8	65.5	65.5
1992.2	50°	1402.6	679.9	138.6	97.9	82.5	71.6	64.9	62.3	60.1	59.6
2153.5	52.5°	1510.6	723.0	134.6	90.5	78.8	66.5	60.7	57.7	55.3	54.3
2313.1	55°	1609.0	763.9	127.7	83.3	74.0	61.2	56.4	53.5	50.6	48.7
2474.9	57.5°	1703.5	798.0	115.0	75.8	66.5	56.1	51.9	48.7	45.2	42.8
2638.5	60°	1789.4	815.6	99.0	67.9	59.1	50.8	46.8	43.9	39.4	35.4
2799.5	62.5°	1854.9	808.6	81.7	58.8	51.4	46.0	41.0	38.1	32.7	27.9
2992.4	65°	1922.0	770.9	65.2	49.2	45.0	39.6	34.3	31.4	25.3	20.2
3253.5	67.5°	2009.0	690.2	51.4	41.0	38.8	31.4	26.9	25.0	20.8	16.0
3533.7	70°	2064.9	536.2	39.9	33.3	31.9	22.9	20.8	20.5	16.5	12.2
3514.8	72.5°	1911.6	351.5	30.6	25.3	22.9	14.9	16.0	16.0	12.0	8.2
3081.0	75°	1595.7	205.7	22.1	18.1	13.0	9.6	10.9	10.9	7.5	4.0
2196.0	77.5°	1139.7	109.6	14.6	11.2	6.7	4.3	5.9	5.6	2.4	0.3
860.8	80°	435.9	37.8	6.9	4.5	1.9	0.8	0.5	0.3	0.3	0.0
134.4	82.5°	66.5	9.8	1.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
28.5	85°	12.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	2.7	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>
708.9
577.4
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117.3
109.9
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