

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: P948844

Luminaire Tested: **GALN-SB3D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32852 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

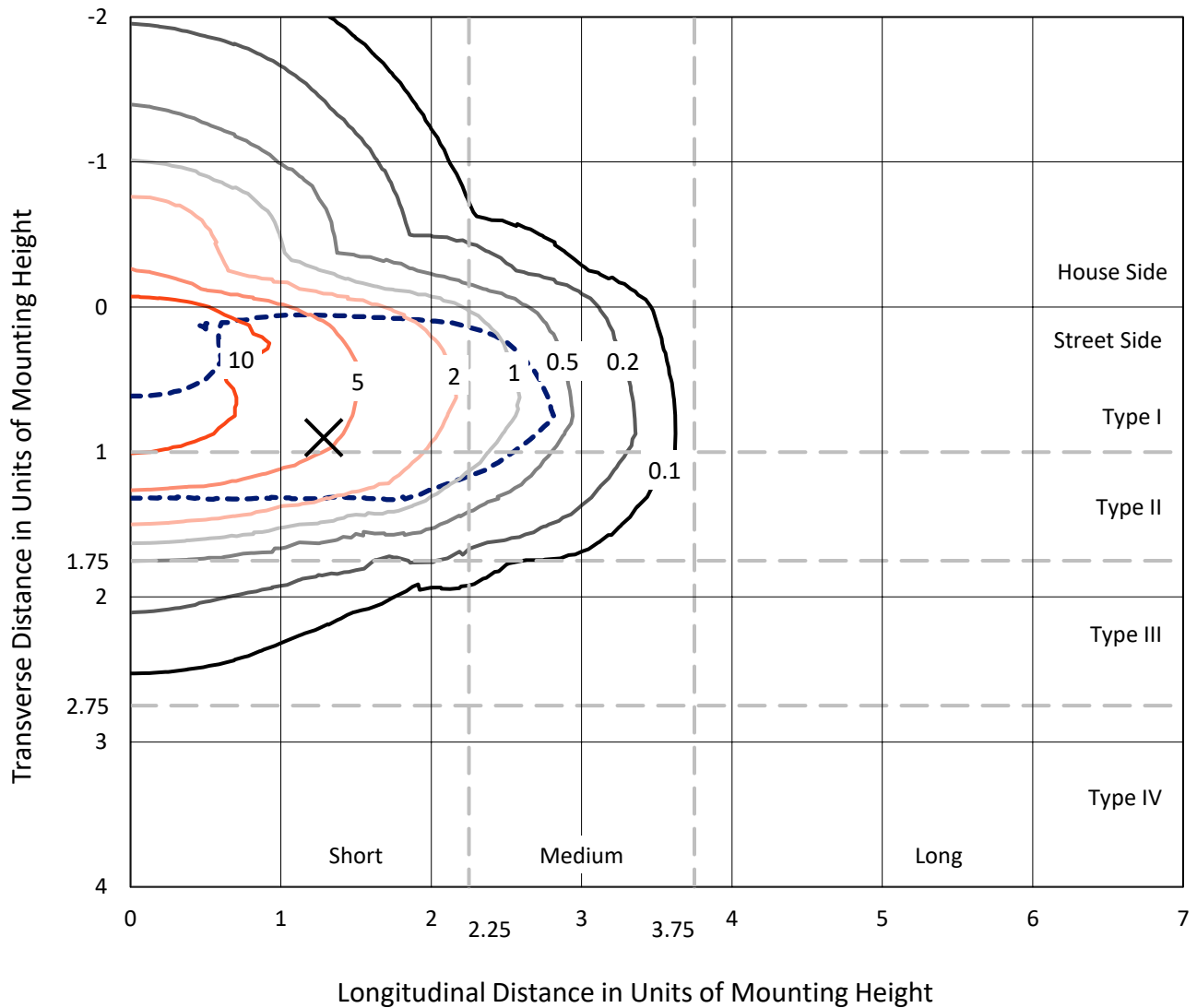
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

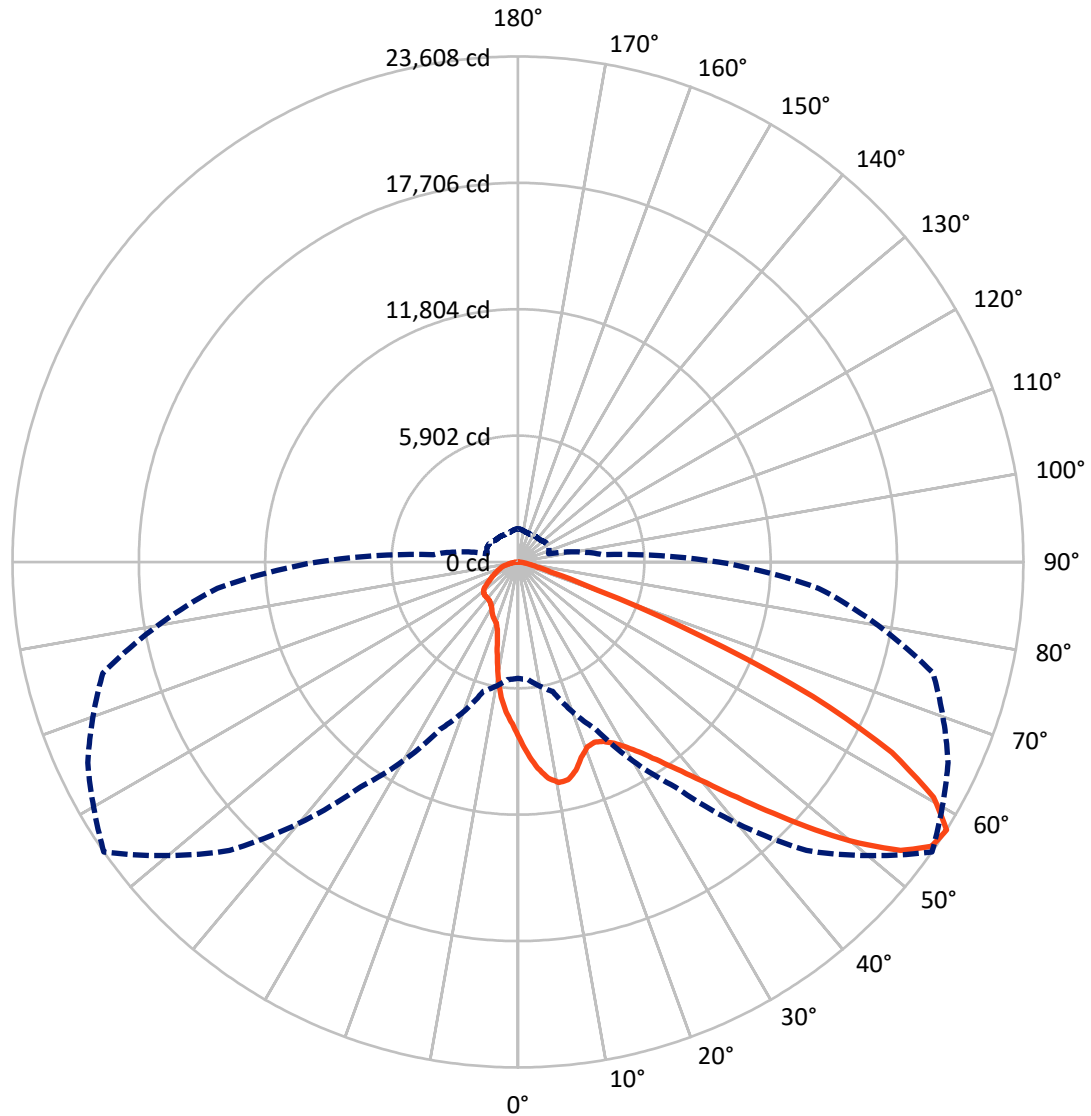
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5944.4	0.0	5944.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26907.6	0.0	26907.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	32852.0	0.0	32852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.8	2.3
10°-20°	1928.0	5.9
20°-30°	3076.5	9.4
30°-40°	4870.9	14.8
40°-50°	7455.4	22.7
50°-60°	7985.4	24.3
60°-70°	5023.7	15.3
70°-80°	1485.6	4.5
80°-90°	262.7	0.8
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°	32852.0	100.0
0°-180°	32852.0	100.0

Coefficient of Utilization



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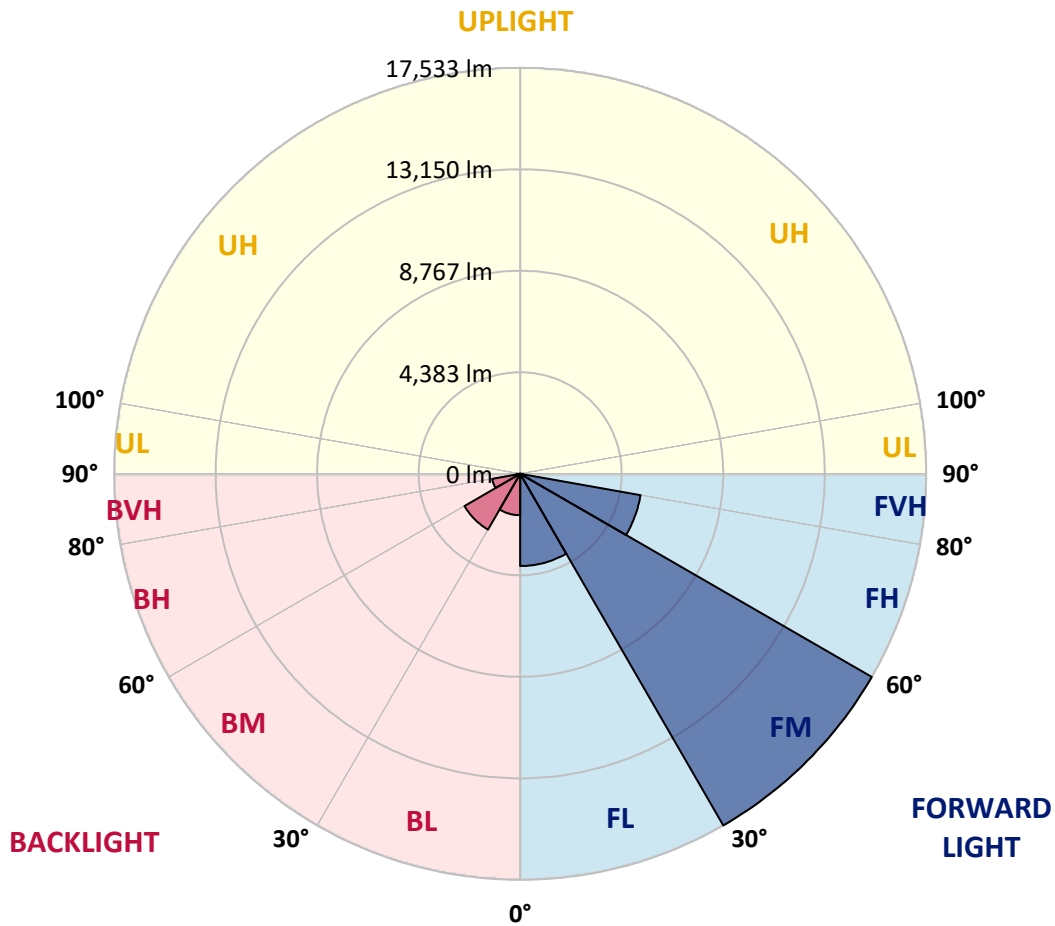
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3981.7	12.1			
FM (30°-60°)	17533.3	53.4			
FH (60°-80°)	5281.6	16.1			G3/7500
FVH (80°-90°)	111.0	0.3			G2/225
BL (0°-30°)	1786.7	5.4	B3/2500		
BM (30°-60°)	2778.4	8.5	B3/5000		
BH (60°-80°)	1227.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	151.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6
2.5°	9444.2	9437.4	9474.8	9347.4	9260.8	9143.6	8989.1	8792.1	8579.8	8355.6
5°	10295.1	10235.6	10274.7	10179.6	10084.5	9907.9	9678.6	9357.6	8965.3	8518.7
7.5°	10160.9	10120.2	10220.4	10305.3	10376.6	10354.5	10186.4	9850.1	9344.0	8695.3
10°	9079.1	9033.2	9174.2	9468.0	9899.4	10274.7	10478.5	10269.6	9731.2	8888.9
12.5°	8124.7	8102.6	8196.0	8433.7	8912.7	9632.7	10441.1	10636.4	10133.7	9118.2
15°	7717.1	7689.9	7749.3	7869.9	8175.6	8846.4	10101.5	10887.8	10529.4	9383.1
17.5°	7627.1	7596.5	7622.0	7684.8	7881.8	8393.0	9588.6	11011.8	10942.1	9678.6
20°	7793.5	7768.0	7771.4	7768.0	7905.6	8311.5	9231.9	10964.2	11302.2	9950.3
22.5°	8196.0	8153.5	8155.2	8065.2	8139.9	8454.1	9138.5	10836.8	11623.1	10188.1
25°	8851.5	8775.1	8790.4	8561.1	8540.7	8773.4	9284.6	10738.3	11942.4	10378.3
27.5°	9748.2	9661.6	9615.8	9274.4	9111.4	9226.8	9581.8	10772.3	12244.7	10543.0
30°	10869.1	10763.8	10670.4	10186.4	9890.9	9848.4	10043.7	10996.5	12601.4	10716.3
32.5°	12243.0	12120.7	11950.9	11309.0	10892.9	10670.4	10641.5	11395.6	13019.1	10937.0
35°	13878.5	13718.8	13477.7	12647.2	12120.7	11665.6	11429.5	11971.3	13591.5	11269.9
37.5°	15563.2	15383.2	15162.4	14174.0	13526.9	12856.1	12390.8	12752.5	14354.0	11721.6
40°	17117.1	16915.0	16709.5	15829.8	15135.2	14326.8	13567.7	13740.9	15286.4	12261.7
42.5°	18034.2	17884.8	17806.6	17331.1	16794.5	15974.2	15031.6	14912.7	16334.2	12883.3
45°	17993.5	17932.3	18173.5	18370.5	18243.1	17788.0	16746.9	16208.5	17385.5	13421.6
47.5°	17032.2	17073.0	17611.3	18718.6	19206.0	19443.8	18699.9	17480.6	18299.1	13824.1
50°	14416.8	14450.8	15697.4	18085.2	19454.0	20793.9	20637.7	18722.0	19007.3	14070.4
52.5°	12346.6	12368.7	12903.7	16206.8	18635.4	21473.3	22383.6	19892.2	19525.3	14138.3
55°	9299.9	9376.3	9975.8	12715.1	16505.7	20934.9	23446.7	21097.9	19853.1	14145.1
57.5°	5432.9	5516.1	6256.5	8630.7	12828.9	19058.3	23608.0	22167.9	20075.6	14090.8
60°	2661.2	2696.9	3019.6	4536.2	7910.7	15442.6	22310.5	22685.8	20199.5	14061.9
62.5°	1793.4	1788.3	1801.9	2238.4	3897.6	9921.5	19606.8	21779.0	20133.3	13951.5
65°	1542.1	1523.4	1472.4	1570.9	2019.3	4537.8	15148.8	19071.9	19628.9	13674.7
67.5°	1333.2	1334.9	1336.6	1306.0	1441.9	2094.0	9257.4	15023.1	17818.5	12363.6
70°	1103.9	1119.2	1126.0	1126.0	1175.2	1373.9	3951.9	10296.8	14055.1	9693.9
72.5°	1005.4	973.1	976.5	959.5	959.5	1046.2	1591.3	5837.0	8854.9	5453.2
75°	820.3	840.7	844.1	832.2	793.1	798.2	944.3	2448.9	3788.9	2262.1
77.5°	708.2	708.2	715.0	706.5	675.9	597.8	630.1	949.3	1289.0	927.3
80°	568.9	567.2	596.1	613.1	565.5	441.6	402.5	524.8	572.3	407.6
82.5°	276.8	293.8	409.3	467.0	429.7	319.3	246.3	326.1	305.7	180.0
85°	161.3	152.8	183.4	259.8	246.3	176.6	118.9	169.8	159.6	91.7
87.5°	50.9	47.6	37.4	88.3	71.3	49.3	32.3	49.3	44.2	20.4
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8231.6	0°	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6	8231.6
8258.8	2.5°	8138.2	7937.8	7739.1	7557.4	7447.0	7375.7	7304.4	7224.6	7194.0	7148.1
8280.9	5°	8056.7	7669.5	7324.8	7027.6	6757.5	6545.2	6331.3	6158.0	6079.9	6132.5
8350.5	7.5°	8009.2	7448.7	6917.2	6372.0	5847.2	5427.8	5062.6	4806.2	4690.7	4719.6
8418.5	10°	7966.7	7199.1	6389.0	5528.0	4773.9	4254.2	3880.6	3685.3	3612.3	3627.6
8510.2	12.5°	7927.6	6918.9	5752.1	4619.4	3817.8	3474.7	3367.7	3369.4	3383.0	3393.2
8656.2	15°	7920.9	6580.9	5040.5	3824.6	3301.5	3279.4	3394.9	3467.9	3507.0	3518.9
8778.5	17.5°	7910.7	6176.7	4315.4	3282.8	3175.8	3325.3	3432.3	3479.8	3510.4	3512.1
8897.4	20°	7869.9	5663.8	3646.2	3024.7	3148.6	3277.7	3343.9	3381.3	3406.8	3415.3
8987.4	22.5°	7744.2	5093.2	3124.9	2909.2	3040.0	3143.5	3221.7	3264.1	3279.4	3289.6
9004.4	25°	7518.4	4454.6	2764.8	2798.8	2888.8	3019.6	3082.4	3090.9	3085.8	3101.1
8961.9	27.5°	7222.9	3770.2	2540.7	2649.3	2764.8	2876.9	2910.9	2905.8	2895.6	2912.6
8888.9	30°	6866.2	3155.4	2398.0	2481.2	2639.2	2741.1	2771.6	2759.7	2739.4	2758.0
8851.5	32.5°	6489.2	2652.7	2280.8	2364.0	2535.6	2635.8	2666.3	2654.4	2639.2	2654.4
8894.0	35°	6137.6	2301.2	2172.1	2285.9	2454.0	2552.5	2591.6	2593.3	2593.3	2612.0
9006.1	37.5°	5815.0	2095.7	2082.1	2236.7	2398.0	2486.3	2542.4	2545.7	2472.7	2477.8
9196.3	40°	5516.1	2009.1	2041.4	2204.4	2343.6	2428.6	2432.0	2241.8	2107.6	2104.2
9413.7	42.5°	5271.5	1992.1	2053.2	2201.0	2304.6	2308.0	2068.5	1920.8	1883.4	1885.1
9614.1	45°	5042.2	1987.0	2080.4	2201.0	2246.8	1993.8	1832.5	1793.4	1796.8	1810.4
9704.1	47.5°	4785.8	1966.6	2085.5	2170.4	2080.4	1773.0	1725.5	1708.5	1701.7	1705.1
9683.7	50°	4505.6	1893.6	2021.0	2109.3	1795.1	1677.9	1618.5	1613.4	1621.9	1627.0
9569.9	52.5°	4210.1	1774.7	1910.6	1998.9	1664.3	1594.7	1528.5	1540.4	1577.7	1589.6
9451.0	55°	4016.5	1635.5	1764.5	1778.1	1572.6	1516.6	1460.5	1487.7	1557.3	1579.4
9379.7	57.5°	3965.5	1487.7	1598.1	1582.8	1455.4	1448.6	1414.7	1438.5	1526.8	1559.0
9376.3	60°	3950.2	1355.2	1435.1	1423.2	1341.7	1373.9	1365.4	1377.3	1407.9	1418.1
9342.3	62.5°	3831.4	1249.9	1289.0	1272.0	1239.8	1295.8	1316.2	1290.7	1314.5	1326.4
9109.7	65°	3529.1	1165.0	1146.4	1134.5	1148.0	1199.0	1239.8	1188.8	1210.9	1244.9
8213.0	67.5°	3029.8	1049.5	998.6	1012.2	1054.6	1081.8	1134.5	1076.7	1095.4	1153.1
6614.9	70°	2450.6	903.5	857.6	896.7	937.5	993.5	1002.0	962.9	1007.1	1071.6
4036.9	72.5°	1734.0	755.7	723.5	803.3	816.9	889.9	871.2	852.5	913.7	935.8
1995.5	75°	1202.4	609.7	591.0	652.1	701.4	764.2	750.6	772.7	901.8	912.0
996.9	77.5°	760.8	473.8	461.9	501.0	568.9	638.6	660.6	912.0	1540.4	1601.5
518.0	80°	441.6	353.2	339.7	370.2	429.7	494.2	636.9	1119.2	1015.6	1003.7
232.7	82.5°	246.3	242.9	225.9	234.4	287.0	356.6	900.1	788.0	640.3	660.6
93.4	85°	115.5	142.7	122.3	117.2	161.3	417.8	601.2	450.0	298.9	292.1
20.4	87.5°	30.6	27.2	27.2	30.6	67.9	360.0	239.5	191.9	113.8	110.4
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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