

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: P953485

Luminaire Tested: **GALN-SB7A-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953485
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-SB7A-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34325 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

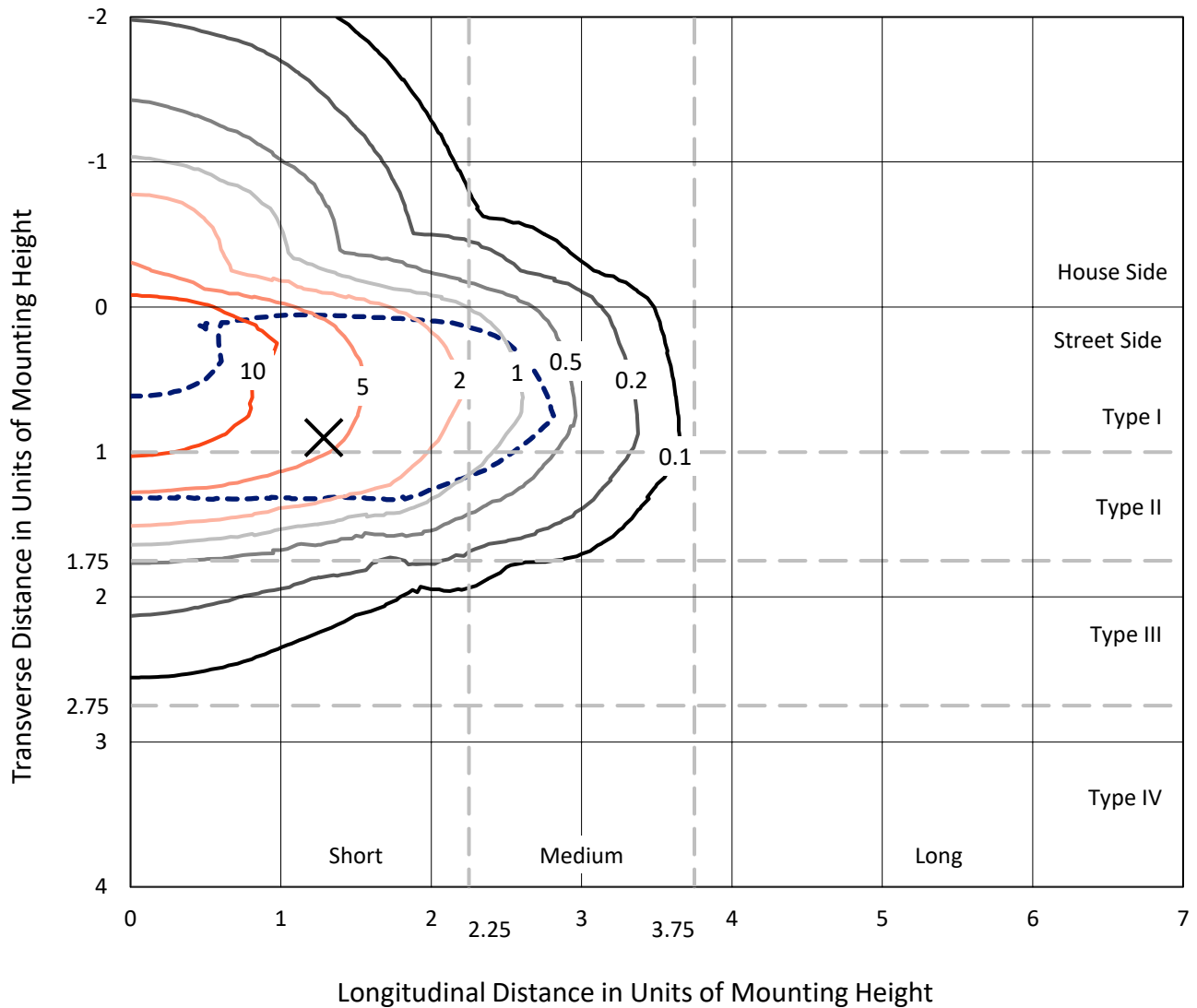
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

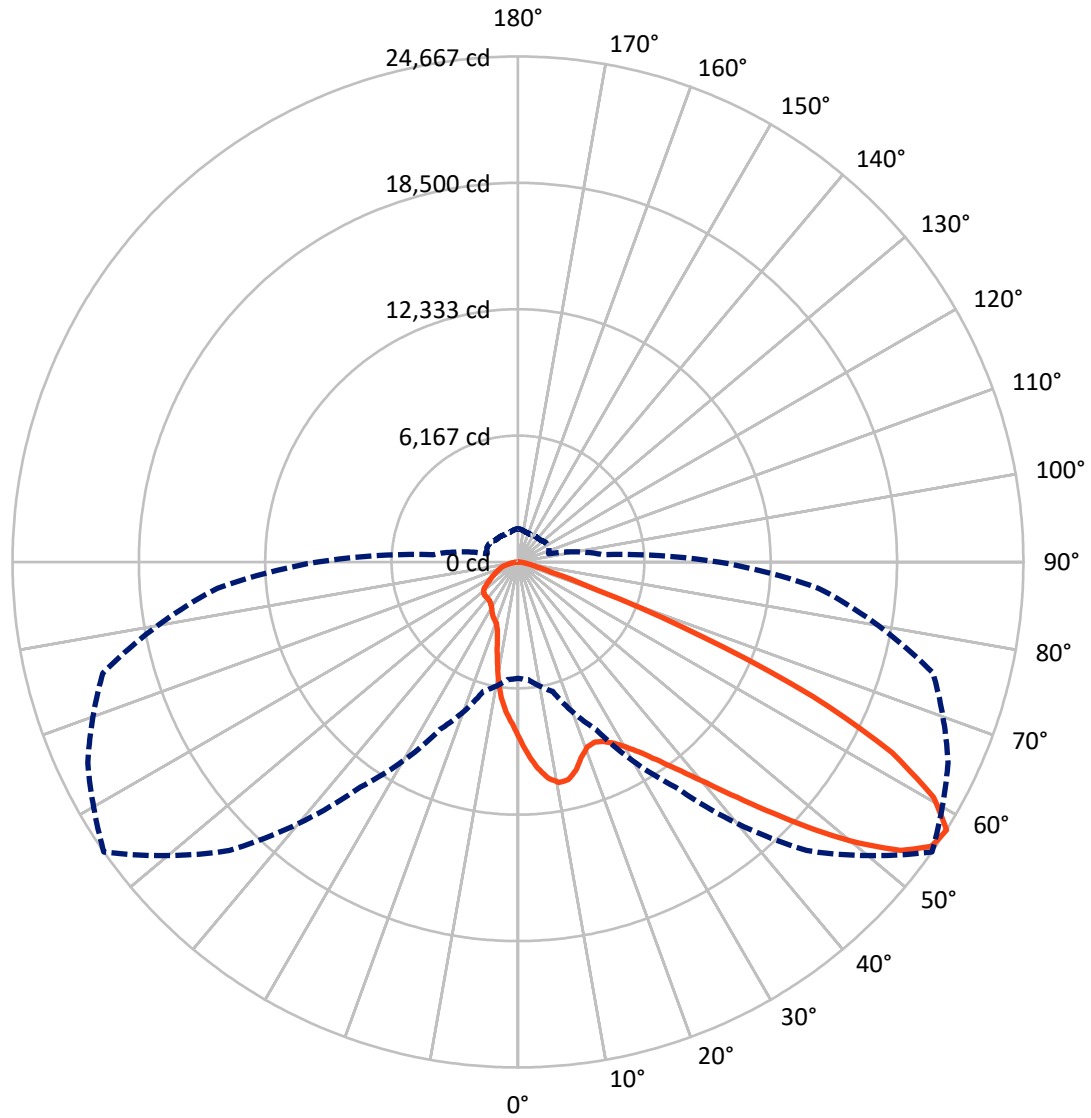
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB7A-740-U-AFL

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	6210.9	0.0	6210.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28114.1	0.0	28114.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	34325.0	0.0	34325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	2.3
10°-20°	2014.4	5.9
20°-30°	3214.5	9.4
30°-40°	5089.3	14.8
40°-50°	7789.7	22.7
50°-60°	8343.5	24.3
60°-70°	5248.9	15.3
70°-80°	1552.2	4.5
80°-90°	274.4	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°	34325.0	100.0
0°-180°	34325.0	100.0

Coefficient of Utilization



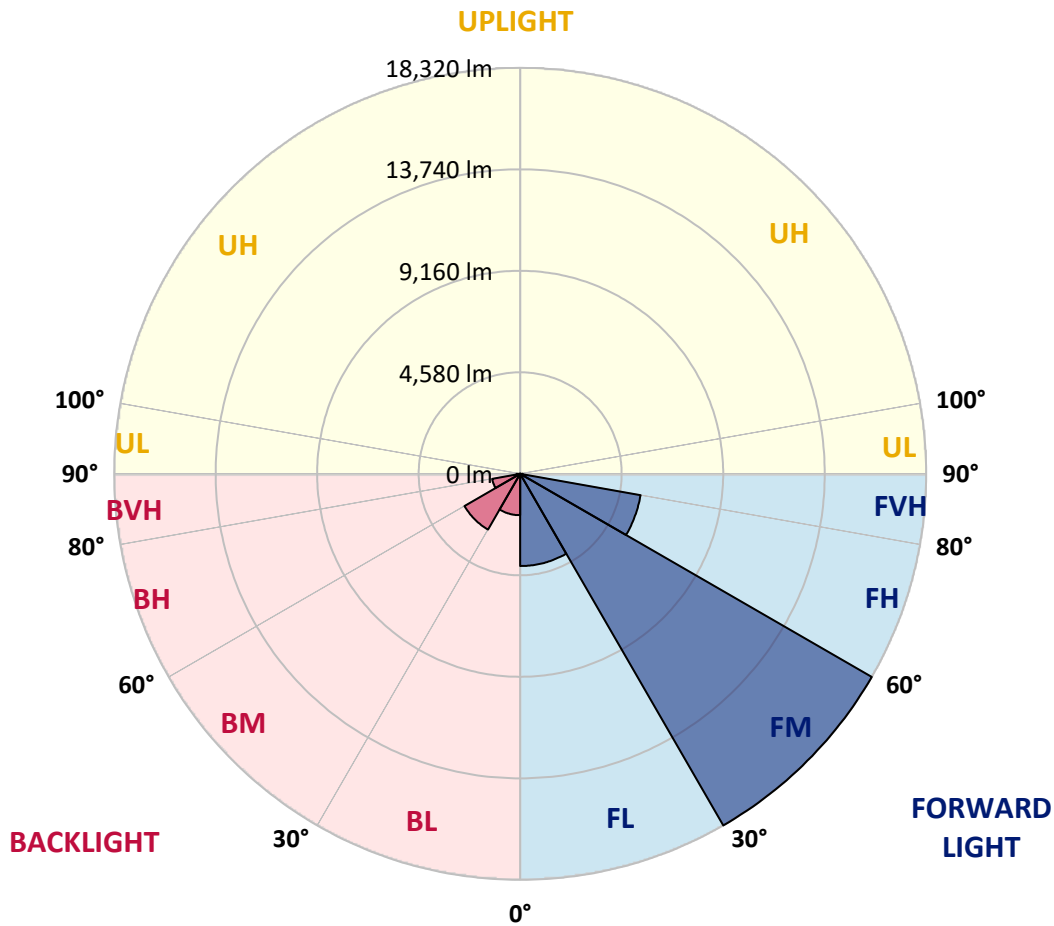
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4160.2	12.1			
FM (30°-60°)	18319.5	53.4			
FH (60°-80°)	5518.4	16.1			G3/7500
FVH (80°-90°)	116.0	0.3			G2/225
BL (0°-30°)	1866.8	5.4	B3/2500		
BM (30°-60°)	2902.9	8.5	B3/5000		
BH (60°-80°)	1282.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	158.5	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°	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7
2.5°	9867.7	9860.6	9899.6	9766.5	9676.0	9553.6	9392.1	9186.3	8964.5	8730.3
5°	10756.7	10694.6	10735.4	10636.0	10536.6	10352.1	10112.6	9777.2	9367.3	8900.6
7.5°	10616.5	10573.9	10678.6	10767.3	10841.9	10818.8	10643.1	10291.8	9763.0	9085.2
10°	9486.2	9438.3	9585.5	9892.5	10343.2	10735.4	10948.3	10730.1	10167.6	9287.4
12.5°	8488.9	8465.9	8563.5	8811.9	9312.3	10064.6	10909.3	11113.3	10588.1	9527.0
15°	8063.1	8034.7	8096.8	8222.8	8542.2	9243.1	10554.4	11376.0	11001.6	9803.8
17.5°	7969.0	7937.1	7963.7	8029.4	8235.2	8769.3	10018.5	11505.5	11432.7	10112.6
20°	8142.9	8116.3	8119.9	8116.3	8260.0	8684.1	9645.9	11455.8	11808.9	10396.5
22.5°	8563.5	8519.1	8520.9	8426.8	8504.9	8833.2	9548.3	11322.7	12144.3	10644.9
25°	9248.4	9168.6	9184.5	8945.0	8923.7	9166.8	9700.9	11219.8	12477.9	10843.6
27.5°	10185.3	10094.8	10046.9	9690.2	9519.9	9640.6	10011.4	11255.3	12793.7	11015.7
30°	11356.4	11246.4	11148.8	10643.1	10334.4	10290.0	10494.1	11489.5	13166.4	11196.7
32.5°	12792.0	12664.2	12486.8	11816.0	11381.3	11148.8	11118.7	11906.5	13602.9	11427.4
35°	14500.8	14334.0	14082.0	13214.3	12664.2	12188.7	11942.0	12508.1	14200.9	11775.2
37.5°	16261.0	16072.9	15842.2	14809.5	14133.4	13432.5	12946.3	13324.3	14997.6	12247.2
40°	17884.6	17673.5	17458.8	16539.6	15813.8	14969.2	14176.0	14357.0	15971.8	12811.5
42.5°	18842.8	18686.7	18605.0	18108.2	17547.5	16690.4	15705.6	15581.4	17066.6	13460.9
45°	18800.2	18736.4	18988.3	19194.2	19061.1	18585.5	17497.8	16935.3	18165.0	14023.4
47.5°	17795.9	17838.5	18401.0	19557.9	20067.2	20315.6	19538.4	18264.4	19119.6	14444.0
50°	15063.3	15098.7	16401.2	18896.1	20326.3	21726.3	21563.0	19561.5	19859.6	14701.3
52.5°	12900.2	12923.3	13482.2	16933.5	19471.0	22436.1	23387.2	20784.1	20400.8	14772.2
55°	9716.9	9796.7	10423.1	13285.3	17245.8	21873.6	24498.0	22043.9	20743.3	14779.3
57.5°	5676.4	5763.4	6537.1	9017.7	13404.2	19912.8	24666.5	23161.8	20975.7	14722.6
60°	2780.6	2817.8	3155.0	4739.5	8265.4	16135.0	23310.9	23703.0	21105.2	14692.4
62.5°	1873.8	1868.5	1882.7	2338.7	4072.3	10366.3	20486.0	22755.5	21036.0	14577.1
65°	1611.2	1591.7	1538.4	1641.4	2109.8	4741.3	15828.0	19927.0	20509.0	14287.8
67.5°	1392.9	1394.7	1396.5	1364.5	1506.5	2187.9	9672.5	15696.7	18617.5	12918.0
70°	1153.4	1169.4	1176.5	1176.5	1227.9	1435.5	4129.1	10758.5	14685.3	10128.5
72.5°	1050.5	1016.8	1020.3	1002.6	1002.6	1093.1	1662.7	6098.8	9252.0	5697.7
75°	857.1	878.3	881.9	869.5	828.7	834.0	986.6	2558.7	3958.8	2363.6
77.5°	739.9	739.9	747.0	738.2	706.2	624.6	658.3	991.9	1346.8	968.8
80°	594.4	592.7	622.8	640.6	590.9	461.4	420.5	548.3	598.0	425.9
82.5°	289.2	307.0	427.6	488.0	448.9	333.6	257.3	340.7	319.4	188.1
85°	168.6	159.7	191.6	271.5	257.3	184.5	124.2	177.4	166.8	95.8
87.5°	53.2	49.7	39.0	92.3	74.5	51.5	33.7	51.5	46.1	21.3
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8600.7	0°	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7	8600.7
8629.1	2.5°	8503.1	8293.8	8086.1	7896.3	7780.9	7706.4	7631.9	7548.5	7516.5	7468.6
8652.2	5°	8418.0	8013.4	7653.2	7342.6	7060.5	6838.7	6615.1	6434.1	6352.5	6407.5
8724.9	7.5°	8368.3	7782.7	7227.3	6657.7	6109.4	5671.1	5289.6	5021.7	4901.0	4931.2
8795.9	10°	8323.9	7521.9	6675.5	5775.8	4988.0	4445.0	4054.6	3850.5	3774.2	3790.2
8891.7	12.5°	8283.1	7229.1	6010.0	4826.5	3989.0	3630.5	3518.7	3520.5	3534.7	3545.3
9044.3	15°	8276.0	6876.0	5266.6	3996.0	3449.5	3426.5	3547.1	3623.4	3664.2	3676.6
9172.1	17.5°	8265.4	6453.7	4508.9	3430.0	3318.2	3474.4	3586.2	3635.8	3667.8	3669.6
9296.3	20°	8222.8	5917.8	3809.7	3160.3	3289.8	3424.7	3493.9	3532.9	3559.5	3568.4
9390.4	22.5°	8091.5	5321.6	3265.0	3039.6	3176.3	3284.5	3366.1	3410.5	3426.5	3437.1
9408.1	25°	7855.5	4654.4	2888.8	2924.3	3018.3	3155.0	3220.6	3229.5	3224.2	3240.1
9363.7	27.5°	7546.7	3939.3	2654.6	2768.1	2888.8	3005.9	3041.4	3036.1	3025.4	3043.2
9287.4	30°	7174.1	3296.9	2505.5	2592.5	2757.5	2864.0	2895.9	2883.5	2862.2	2881.7
9248.4	32.5°	6780.2	2771.7	2383.1	2470.0	2649.2	2753.9	2785.9	2773.5	2757.5	2773.5
9292.8	35°	6412.8	2404.4	2269.5	2388.4	2564.1	2667.0	2707.8	2709.6	2709.6	2729.1
9409.9	37.5°	6075.7	2189.7	2175.5	2336.9	2505.5	2597.8	2656.3	2659.9	2583.6	2588.9
9608.6	40°	5763.4	2099.2	2132.9	2303.2	2448.7	2537.5	2541.0	2342.3	2202.1	2198.5
9835.7	42.5°	5507.9	2081.4	2145.3	2299.7	2407.9	2411.5	2161.3	2006.9	1967.9	1969.6
10045.1	45°	5268.3	2076.1	2173.7	2299.7	2347.6	2083.2	1914.6	1873.8	1877.4	1891.6
10139.2	47.5°	5000.4	2054.8	2179.0	2267.7	2173.7	1852.5	1802.8	1785.1	1778.0	1781.5
10117.9	50°	4707.6	1978.5	2111.6	2203.9	1875.6	1753.2	1691.0	1685.7	1694.6	1699.9
9999.0	52.5°	4398.8	1854.3	1996.2	2088.5	1739.0	1666.2	1597.0	1609.4	1648.5	1660.9
9874.8	55°	4196.6	1708.8	1843.6	1857.8	1643.1	1584.6	1526.0	1554.4	1627.2	1650.2
9800.3	57.5°	4143.3	1554.4	1669.8	1653.8	1520.7	1513.6	1478.1	1503.0	1595.2	1628.9
9796.7	60°	4127.4	1416.0	1499.4	1487.0	1401.8	1435.5	1426.7	1439.1	1471.0	1481.7
9761.2	62.5°	4003.1	1306.0	1346.8	1329.1	1295.3	1353.9	1375.2	1348.6	1373.4	1385.8
9518.1	65°	3687.3	1217.3	1197.7	1185.3	1199.5	1252.8	1295.3	1242.1	1265.2	1300.7
8581.2	67.5°	3165.6	1096.6	1043.4	1057.6	1101.9	1130.3	1185.3	1125.0	1144.5	1204.8
6911.5	70°	2560.5	944.0	896.1	936.9	979.5	1038.0	1046.9	1006.1	1052.2	1119.7
4217.9	72.5°	1811.7	789.6	755.9	839.3	853.5	929.8	910.3	890.8	954.7	977.7
2085.0	75°	1256.3	637.0	617.5	681.4	732.8	798.5	784.3	807.4	942.2	952.9
1041.6	77.5°	795.0	495.1	482.6	523.5	594.4	667.2	690.3	952.9	1609.4	1673.3
541.2	80°	461.4	369.1	354.9	386.8	448.9	516.4	665.4	1169.4	1061.1	1048.7
243.1	82.5°	257.3	253.7	236.0	244.9	299.9	372.6	940.5	823.3	669.0	690.3
97.6	85°	120.7	149.1	127.8	122.4	168.6	436.5	628.2	470.2	312.3	305.2
21.3	87.5°	31.9	28.4	28.4	31.9	71.0	376.2	250.2	200.5	118.9	115.3
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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