

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: P952414

Luminaire Tested: **GALN-SB6B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952414
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-SB6B-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36742 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

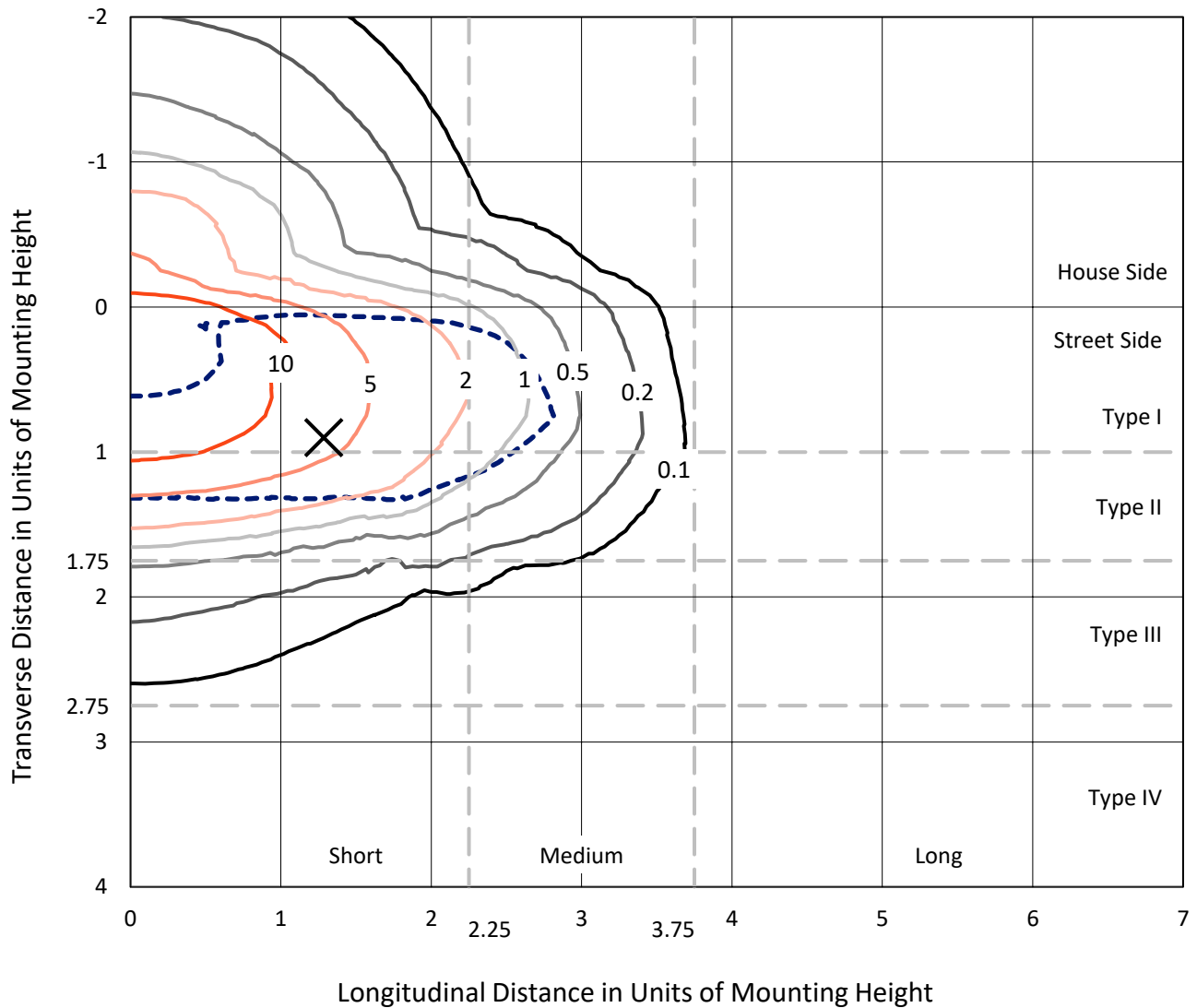
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

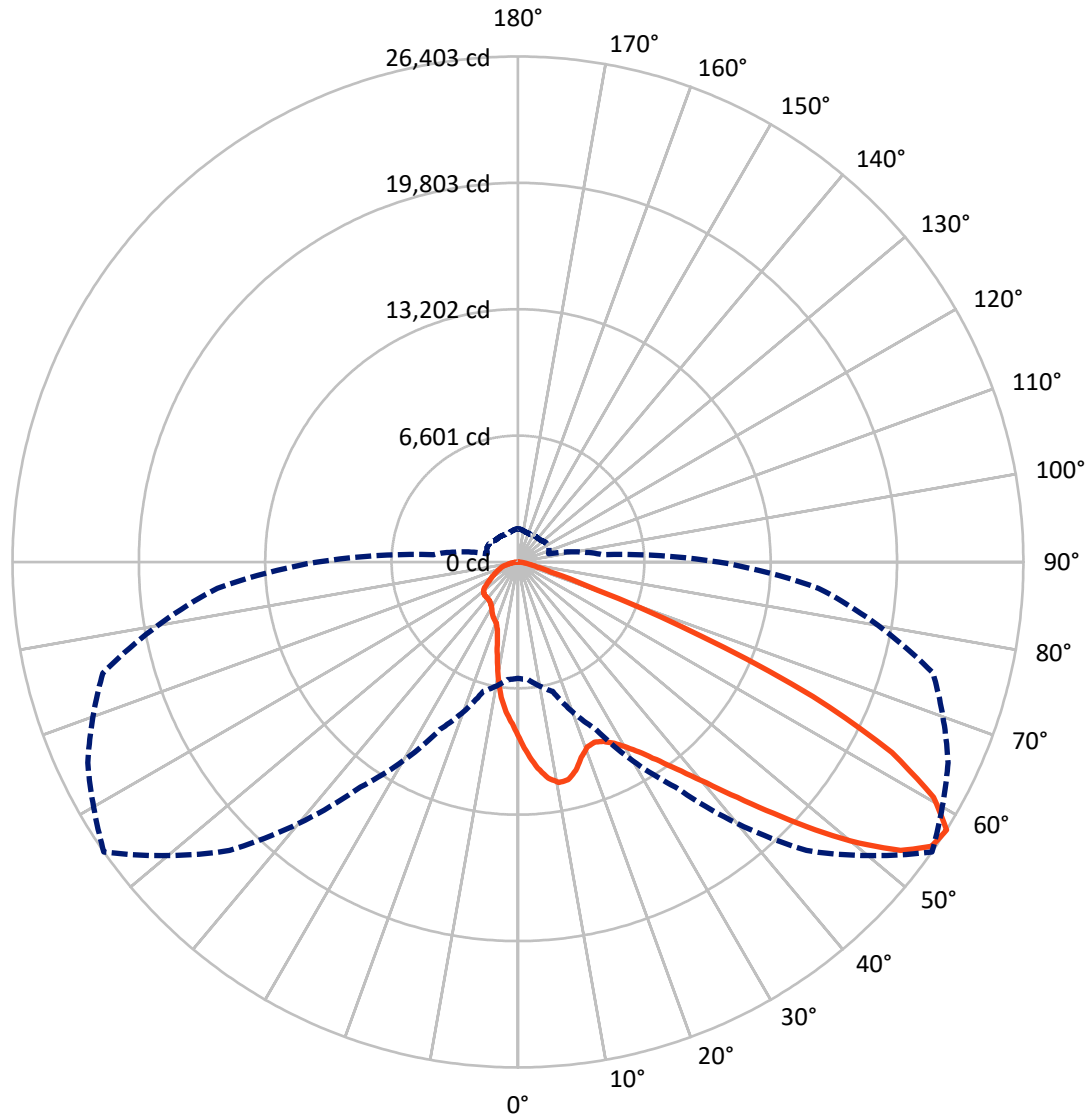
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	6648.3	0.0	6648.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30093.7	0.0	30093.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	36742.0	0.0	36742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.3	2.3
10°-20°	2156.3	5.9
20°-30°	3440.8	9.4
30°-40°	5447.7	14.8
40°-50°	8338.2	22.7
50°-60°	8931.0	24.3
60°-70°	5618.5	15.3
70°-80°	1661.5	4.5
80°-90°	293.8	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°	36742.0	100.0
0°-180°	36742.0	100.0

Coefficient of Utilization



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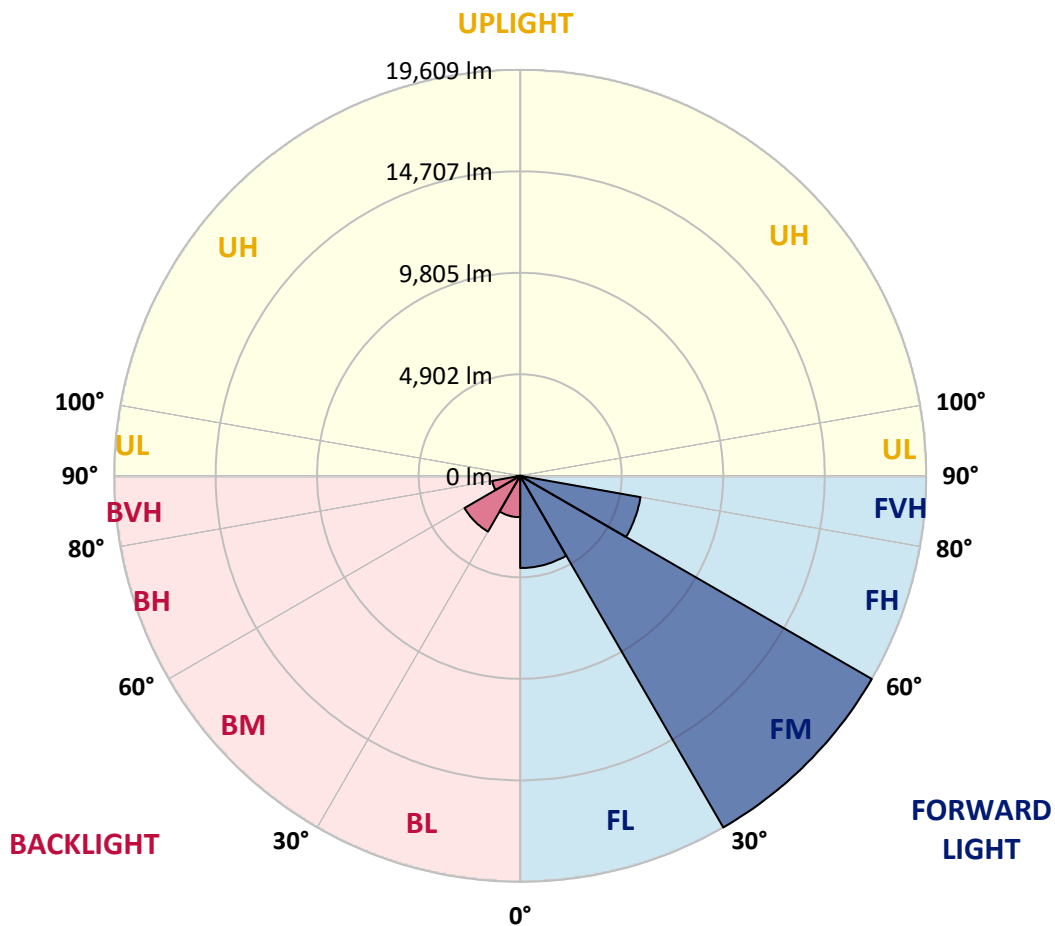
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4453.1	12.1			
FM (30°-60°)	19609.5	53.4			
FH (60°-80°)	5907.0	16.1			G3/7500
FVH (80°-90°)	124.1	0.3			G2/225
BL (0°-30°)	1998.3	5.4	B3/2500		
BM (30°-60°)	3107.4	8.5	B3/5000		
BH (60°-80°)	1373.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	169.7	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°	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4
2.5°	10562.5	10554.9	10596.7	10454.3	10357.4	10226.3	10053.5	9833.2	9595.7	9345.0
5°	11514.1	11447.6	11491.3	11385.0	11278.6	11081.1	10824.6	10465.6	10026.9	9527.3
7.5°	11364.1	11318.5	11430.5	11525.5	11605.3	11580.6	11392.6	11016.5	10450.5	9724.9
10°	10154.1	10102.9	10260.5	10589.1	11071.6	11491.3	11719.2	11485.6	10883.5	9941.4
12.5°	9086.7	9062.0	9166.5	9432.4	9968.0	10773.4	11677.5	11895.9	11333.7	10197.8
15°	8630.8	8600.4	8666.9	8801.8	9143.7	9893.9	11297.6	12177.0	11776.2	10494.1
17.5°	8530.2	8496.0	8524.5	8594.7	8815.1	9386.8	10724.0	12315.7	12237.8	10824.6
20°	8716.3	8687.8	8691.6	8687.8	8841.7	9295.6	10325.1	12262.5	12640.5	11128.5
22.5°	9166.5	9119.0	9120.9	9020.2	9103.8	9455.2	10220.6	12120.0	12999.4	11394.5
25°	9899.6	9814.2	9831.3	9574.8	9552.0	9812.3	10384.0	12009.9	13356.5	11607.2
27.5°	10902.5	10805.6	10754.4	10372.6	10190.2	10319.4	10716.4	12047.8	13694.6	11791.4
30°	12156.1	12038.3	11933.9	11392.6	11062.1	11014.6	11233.0	12298.6	14093.5	11985.2
32.5°	13692.7	13556.0	13366.0	12648.1	12182.7	11933.9	11901.6	12744.9	14560.7	12232.1
35°	15521.8	15343.3	15073.6	14144.8	13556.0	13046.9	12782.9	13388.8	15200.8	12604.4
37.5°	17406.0	17204.7	16957.8	15852.3	15128.7	14378.4	13858.0	14262.5	16053.7	13109.6
40°	19144.0	18917.9	18688.1	17704.2	16927.4	16023.3	15174.2	15368.0	17096.4	13713.6
42.5°	20169.6	20002.5	19915.1	19383.3	18783.1	17865.7	16811.5	16678.6	18268.4	14408.8
45°	20124.1	20055.7	20325.4	20545.7	20403.3	19894.2	18729.9	18127.8	19444.1	15010.9
47.5°	19049.0	19094.6	19696.7	20935.1	21480.2	21746.1	20914.2	19550.4	20465.9	15461.1
50°	16123.9	16161.9	17556.1	20226.6	21757.5	23256.2	23081.4	20938.9	21258.0	15736.5
52.5°	13808.6	13833.3	14431.6	18125.9	20842.0	24015.9	25034.0	22247.6	21837.3	15812.4
55°	10401.1	10486.5	11157.0	14220.7	18460.2	23413.8	26223.0	23596.1	22203.9	15820.0
57.5°	6076.2	6169.2	6997.4	9652.7	14348.0	21315.0	26403.4	24792.8	22452.7	15759.3
60°	2976.3	3016.2	3377.1	5073.3	8847.4	17271.2	24952.3	25372.1	22591.4	15727.0
62.5°	2005.8	2000.1	2015.3	2503.4	4359.1	11096.2	21928.5	24357.8	22517.3	15603.5
65°	1724.6	1703.8	1646.8	1756.9	2258.4	5075.2	16942.6	21330.2	21953.2	15293.9
67.5°	1491.0	1492.9	1494.8	1460.6	1612.6	2342.0	10353.6	16802.0	19928.4	13827.6
70°	1234.6	1251.7	1259.3	1259.3	1314.4	1536.6	4419.9	11516.0	15719.4	10841.7
72.5°	1124.4	1088.4	1092.2	1073.2	1073.2	1170.0	1779.7	6528.2	9903.4	6098.9
75°	917.4	940.2	944.0	930.7	887.0	892.7	1056.1	2738.9	4237.5	2530.0
77.5°	792.0	792.0	799.6	790.1	756.0	668.6	704.7	1061.8	1441.6	1037.1
80°	636.3	634.4	666.7	685.7	632.5	493.8	450.2	586.9	640.1	455.9
82.5°	309.6	328.6	457.8	522.3	480.5	357.1	275.4	364.7	341.9	201.3
85°	180.4	170.9	205.1	290.6	275.4	197.5	133.0	189.9	178.5	102.6
87.5°	57.0	53.2	41.8	98.8	79.8	55.1	36.1	55.1	49.4	22.8
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°
9206.4	0°	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4	9206.4
9236.7	2.5°	9101.9	8877.8	8655.5	8452.3	8328.8	8249.1	8169.3	8080.0	8045.8	7994.5
9261.4	5°	9010.7	8577.7	8192.1	7859.7	7557.7	7320.3	7080.9	6887.2	6799.8	6858.7
9339.3	7.5°	8957.5	8330.7	7736.2	7126.5	6539.6	6070.5	5662.1	5375.3	5246.1	5278.4
9415.3	10°	8910.0	8051.5	7145.5	6182.5	5339.2	4758.0	4340.1	4121.7	4040.0	4057.1
9517.9	12.5°	8866.4	7738.1	6433.2	5166.3	4269.8	3886.2	3766.5	3768.4	3783.6	3795.0
9681.2	15°	8858.8	7360.1	5637.4	4277.4	3692.4	3667.7	3796.9	3878.6	3922.2	3935.5
9818.0	17.5°	8847.4	6908.1	4826.4	3671.5	3551.9	3719.0	3838.7	3891.9	3926.0	3927.9
9950.9	20°	8801.8	6334.5	4078.0	3382.8	3521.5	3665.8	3739.9	3781.7	3810.2	3819.7
10051.6	22.5°	8661.2	5696.3	3494.9	3253.7	3399.9	3515.8	3603.1	3650.6	3667.7	3679.1
10070.6	25°	8408.6	4982.1	3092.2	3130.2	3230.9	3377.1	3447.4	3456.9	3451.2	3468.3
10023.1	27.5°	8078.1	4216.7	2841.5	2963.1	3092.2	3217.6	3255.6	3249.9	3238.5	3257.5
9941.4	30°	7679.2	3529.1	2681.9	2775.0	2951.7	3065.6	3099.8	3086.5	3063.7	3084.6
9899.6	32.5°	7257.6	2966.9	2550.9	2644.0	2835.8	2947.9	2982.0	2968.7	2951.7	2968.7
9947.1	35°	6864.4	2573.7	2429.3	2556.6	2744.6	2854.8	2898.5	2900.4	2900.4	2921.3
10072.5	37.5°	6503.5	2343.8	2328.7	2501.5	2681.9	2780.7	2843.4	2847.2	2765.5	2771.2
10285.2	40°	6169.2	2247.0	2283.1	2465.4	2621.2	2716.1	2719.9	2507.2	2357.1	2353.3
10528.3	42.5°	5895.7	2228.0	2296.4	2461.6	2577.5	2581.3	2313.5	2148.2	2106.4	2108.3
10752.5	45°	5639.3	2222.3	2326.8	2461.6	2512.9	2229.9	2049.4	2005.8	2009.6	2024.8
10853.1	47.5°	5352.5	2199.5	2332.5	2427.4	2326.8	1983.0	1929.8	1910.8	1903.2	1907.0
10830.3	50°	5039.1	2117.8	2260.3	2359.0	2007.7	1876.6	1810.1	1804.4	1813.9	1819.6
10703.1	52.5°	4708.6	1984.9	2136.8	2235.6	1861.4	1783.5	1709.5	1722.7	1764.5	1777.8
10570.1	55°	4492.1	1829.1	1973.5	1988.7	1758.8	1696.2	1633.5	1663.9	1741.7	1766.4
10490.3	57.5°	4435.1	1663.9	1787.3	1770.2	1627.8	1620.2	1582.2	1608.8	1707.6	1743.6
10486.5	60°	4418.0	1515.7	1605.0	1591.7	1500.5	1536.6	1527.1	1540.4	1574.6	1586.0
10448.6	62.5°	4285.0	1398.0	1441.6	1422.6	1386.6	1449.2	1472.0	1443.5	1470.1	1483.4
10188.3	65°	3946.9	1303.0	1282.1	1268.8	1284.0	1341.0	1386.6	1329.6	1354.3	1392.3
9185.5	67.5°	3388.5	1173.8	1116.8	1132.0	1179.5	1209.9	1268.8	1204.2	1225.1	1289.7
7398.1	70°	2740.8	1010.5	959.2	1002.9	1048.5	1111.1	1120.6	1077.0	1126.3	1198.5
4514.9	72.5°	1939.3	845.2	809.1	898.4	913.6	995.3	974.4	953.5	1021.9	1046.6
2231.8	75°	1344.8	681.9	661.0	729.4	784.4	854.7	839.5	864.2	1008.6	1020.0
1114.9	77.5°	850.9	529.9	516.6	560.3	636.3	714.2	738.9	1020.0	1722.7	1791.1
579.3	80°	493.8	395.1	379.9	414.1	480.5	552.7	712.3	1251.7	1135.8	1122.5
260.2	82.5°	275.4	271.6	252.6	262.1	321.0	398.9	1006.7	881.3	716.1	738.9
104.5	85°	129.2	159.5	136.8	131.1	180.4	467.3	672.4	503.3	334.3	326.7
22.8	87.5°	34.2	30.4	30.4	34.2	76.0	402.7	267.8	214.6	127.3	123.5
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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