

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: P952561

Luminaire Tested: **GALN-SB6B-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952561  
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-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

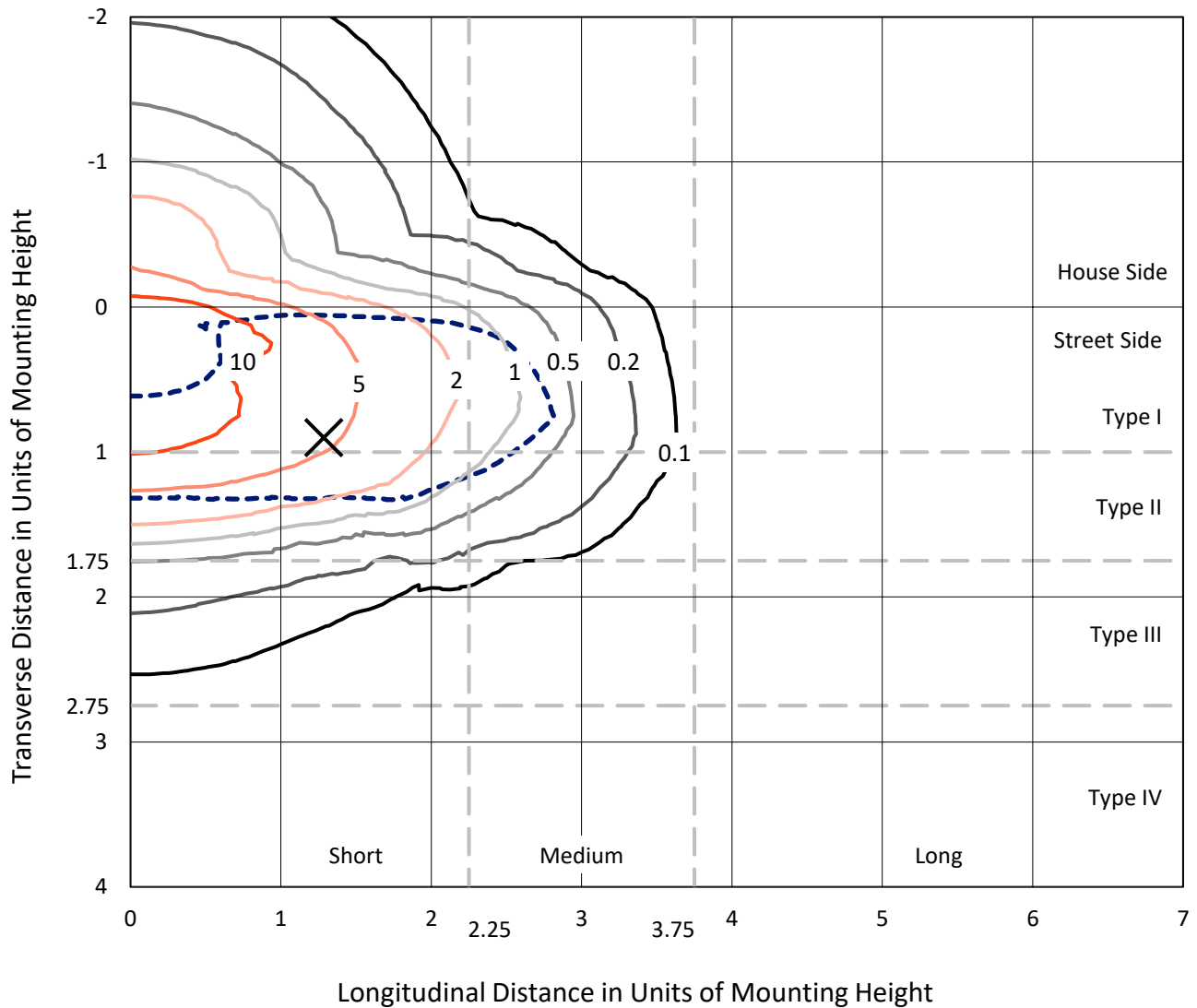
Lumens per Lamp: N/A  
Luminaire Lumens: 33218 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

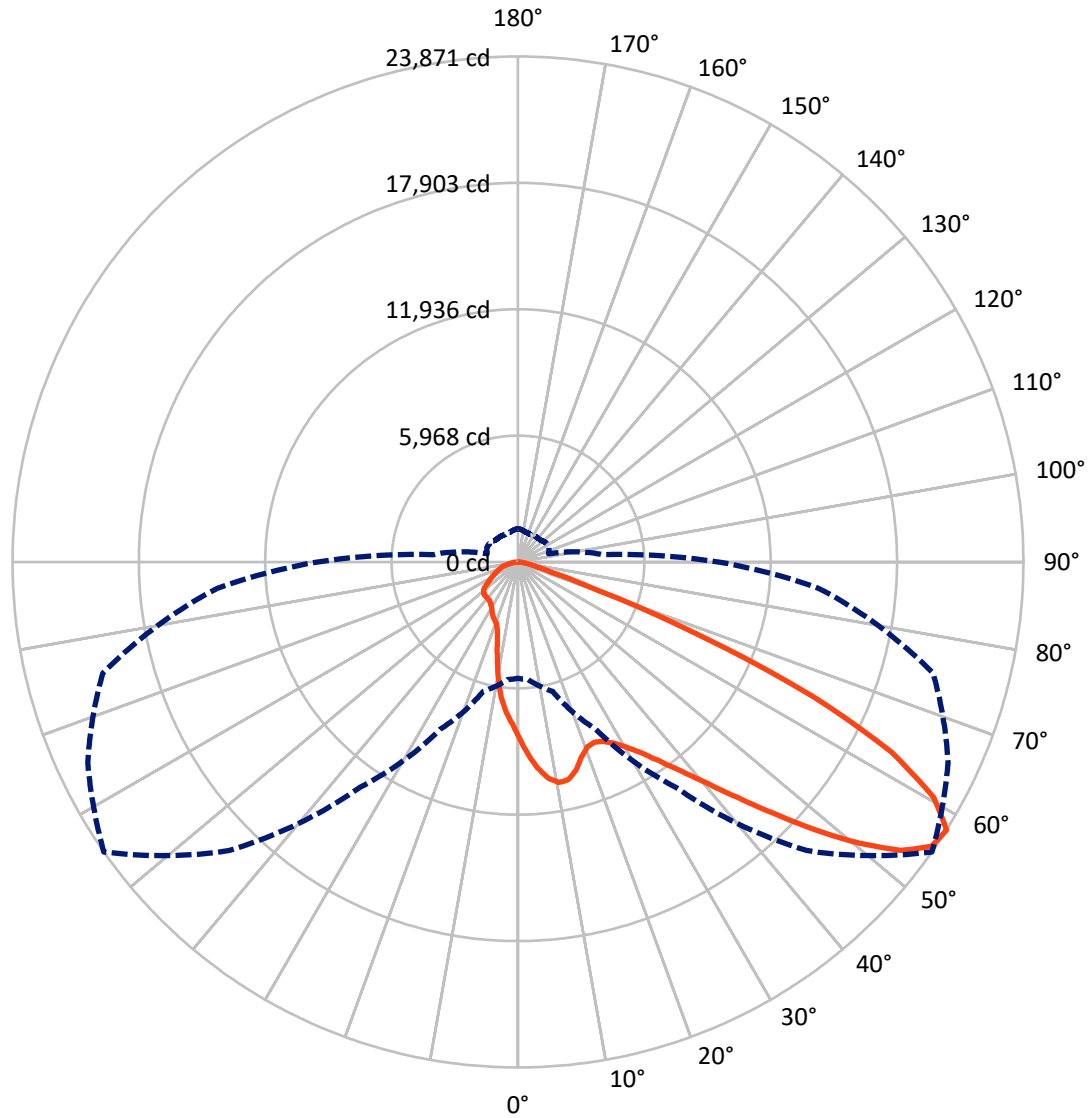
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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
<b>House Side</b>	Lumens	6010.6	0.0	6010.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27207.4	0.0	27207.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33218.0	0.0	33218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.4	2.3
10°-20°	1949.5	5.9
20°-30°	3110.8	9.4
30°-40°	4925.2	14.8
40°-50°	7538.4	22.7
50°-60°	8074.4	24.3
60°-70°	5079.6	15.3
70°-80°	1502.1	4.5
80°-90°	265.6	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°	33218.0	100.0
0°-180°	33218.0	100.0

**Coefficient of Utilization**



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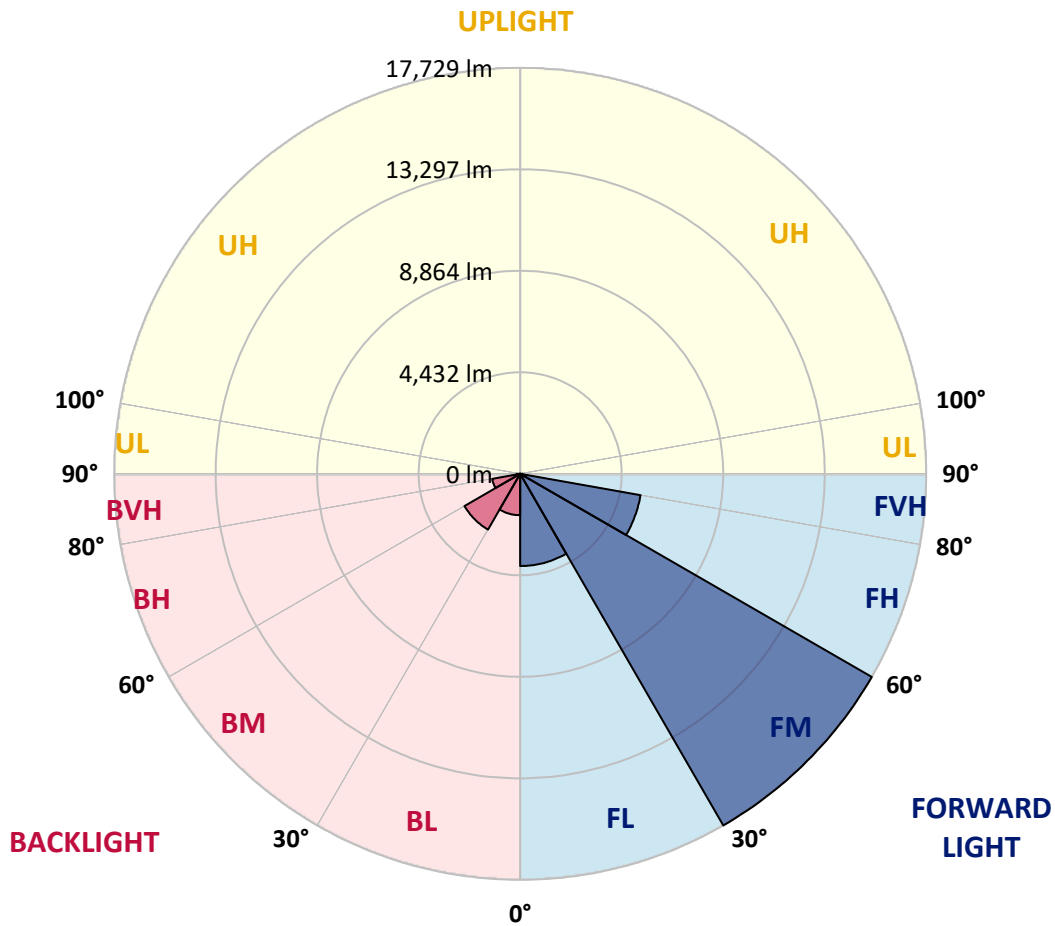
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4026.0	12.1			
FM (30°-60°)	17728.7	53.4			
FH (60°-80°)	5340.4	16.1			G3/7500
FVH (80°-90°)	112.2	0.3			G2/225
BL (0°-30°)	1806.6	5.4	B3/2500		
BM (30°-60°)	2809.3	8.5	B3/5000		
BH (60°-80°)	1241.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	153.4	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°	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4
2.5°	9549.4	9542.6	9580.4	9451.6	9364.0	9245.5	9089.2	8890.0	8675.4	8448.7
5°	10409.8	10349.7	10389.2	10293.0	10196.8	10018.2	9786.4	9461.9	9065.2	8613.6
7.5°	10274.1	10232.9	10334.2	10420.1	10492.2	10469.9	10299.9	9959.9	9448.1	8792.2
10°	9180.2	9133.9	9276.4	9573.5	10009.7	10389.2	10595.2	10384.0	9839.7	8987.9
12.5°	8215.2	8192.8	8287.3	8527.7	9012.0	9740.1	10557.5	10754.9	10246.6	9219.7
15°	7803.0	7775.6	7835.7	7957.6	8266.7	8945.0	10214.0	11009.1	10646.7	9487.6
17.5°	7712.0	7681.1	7706.9	7770.4	7969.6	8486.5	9695.4	11134.4	11064.0	9786.4
20°	7880.3	7854.6	7858.0	7854.6	7993.6	8404.1	9334.8	11086.4	11428.1	10061.2
22.5°	8287.3	8244.4	8246.1	8155.1	8230.6	8548.3	9240.3	10957.6	11752.6	10301.6
25°	8950.1	8872.9	8888.3	8656.5	8635.9	8871.1	9388.0	10858.0	12075.5	10493.9
27.5°	9856.8	9769.2	9722.9	9377.7	9212.9	9329.6	9688.5	10892.3	12381.1	10660.5
30°	10990.2	10883.7	10789.3	10299.9	10001.1	9958.1	10155.6	11119.0	12741.8	10835.6
32.5°	12379.4	12255.8	12084.1	11435.0	11014.2	10789.3	10760.1	11522.5	13164.2	11058.9
35°	14033.1	13871.7	13627.8	12788.1	12255.8	11795.6	11556.9	12104.7	13742.9	11395.5
37.5°	15736.6	15554.6	15331.3	14331.9	13677.6	12999.3	12528.8	12894.6	14513.9	11852.2
40°	17307.8	17103.5	16895.7	16006.2	15303.8	14486.4	13718.8	13894.0	15456.7	12398.3
42.5°	18235.1	18084.0	18005.0	17524.2	16981.6	16152.1	15199.1	15078.9	16516.2	13026.8
45°	18193.9	18132.1	18375.9	18575.1	18446.3	17986.1	16933.5	16389.1	17579.2	13571.2
47.5°	17222.0	17263.2	17807.5	18927.2	19420.0	19660.4	18908.3	17675.3	18503.0	13978.1
50°	14577.5	14611.8	15872.2	18286.6	19670.7	21025.6	20867.6	18930.6	19219.1	14227.1
52.5°	12484.2	12506.5	13047.4	16387.4	18843.0	21712.5	22632.9	20113.8	19742.8	14295.8
55°	9403.5	9480.8	10086.9	12856.8	16689.6	21168.1	23707.9	21333.0	20074.3	14302.7
57.5°	5493.4	5577.5	6326.2	8726.9	12971.9	19270.6	23871.0	22414.8	20299.2	14247.8
60°	2690.9	2726.9	3053.2	4586.7	7998.8	15614.7	22559.1	22938.6	20424.6	14218.6
62.5°	1813.4	1808.2	1822.0	2263.3	3941.0	10032.0	19825.3	22021.6	20357.6	14106.9
65°	1559.2	1540.3	1488.8	1588.4	2041.8	4588.4	15317.6	19284.4	19847.6	13827.0
67.5°	1348.0	1349.7	1351.5	1320.5	1457.9	2117.3	9360.6	15190.5	18017.0	12501.3
70°	1116.2	1131.6	1138.5	1138.5	1188.3	1389.2	3996.0	10411.5	14211.7	9801.9
72.5°	1016.6	984.0	987.4	970.2	970.2	1057.8	1609.0	5902.1	8953.6	5514.0
75°	829.4	850.0	853.5	841.4	801.9	807.1	954.8	2476.2	3831.1	2287.3
77.5°	716.1	716.1	722.9	714.4	683.5	604.5	637.1	959.9	1303.4	937.6
80°	575.3	573.6	602.7	619.9	571.8	446.5	407.0	530.6	578.7	412.1
82.5°	279.9	297.1	413.8	472.2	434.5	322.8	249.0	329.7	309.1	182.0
85°	163.1	154.5	185.5	262.7	249.0	178.6	120.2	171.7	161.4	92.7
87.5°	51.5	48.1	37.8	89.3	72.1	49.8	32.6	49.8	44.6	20.6
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°
8323.4	0°	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4	8323.4
8350.8	2.5°	8228.9	8026.3	7825.4	7641.6	7530.0	7457.9	7385.8	7305.0	7274.1	7227.8
8373.2	5°	8146.5	7755.0	7406.4	7105.8	6832.8	6618.2	6401.8	6226.6	6147.6	6200.9
8443.6	7.5°	8098.4	7531.7	6994.2	6443.0	5912.4	5488.2	5119.0	4859.7	4743.0	4772.1
8512.2	10°	8055.5	7279.3	6460.2	5589.5	4827.1	4301.6	3923.8	3726.4	3652.5	3668.0
8605.0	12.5°	8016.0	6995.9	5816.2	4670.8	3860.3	3513.4	3405.2	3407.0	3420.7	3431.0
8752.7	15°	8009.1	6654.2	5096.7	3867.2	3338.3	3315.9	3432.7	3506.6	3546.1	3558.1
8876.3	17.5°	7998.8	6245.5	4363.4	3319.4	3211.2	3362.3	3470.5	3518.6	3549.5	3551.2
8996.5	20°	7957.6	5726.9	3686.9	3058.4	3183.7	3314.2	3381.2	3419.0	3444.7	3453.3
9087.5	22.5°	7830.5	5149.9	3159.7	2941.6	3073.8	3178.6	3257.6	3300.5	3315.9	3326.3
9104.7	25°	7602.1	4504.3	2795.6	2830.0	2921.0	3053.2	3116.7	3125.3	3120.2	3135.6
9061.8	27.5°	7303.3	3812.2	2569.0	2678.9	2795.6	2909.0	2943.3	2938.2	2927.9	2945.0
8987.9	30°	6942.7	3190.6	2424.7	2508.9	2668.6	2771.6	2802.5	2790.5	2769.9	2788.8
8950.1	32.5°	6561.5	2682.3	2306.2	2390.4	2563.8	2665.1	2696.0	2684.0	2668.6	2684.0
8993.1	35°	6206.0	2326.8	2196.3	2311.4	2481.4	2581.0	2620.5	2622.2	2622.2	2641.1
9106.4	37.5°	5879.8	2119.0	2105.3	2261.6	2424.7	2514.0	2570.7	2574.1	2500.3	2505.4
9298.7	40°	5577.5	2031.5	2064.1	2228.9	2369.8	2455.6	2459.1	2266.7	2131.1	2127.6
9518.5	42.5°	5330.2	2014.3	2076.1	2225.5	2330.3	2333.7	2091.6	1942.2	1904.4	1906.1
9721.2	45°	5098.4	2009.1	2103.6	2225.5	2271.9	2016.0	1852.9	1813.4	1816.8	1830.6
9812.2	47.5°	4839.1	1988.5	2108.7	2194.6	2103.6	1792.8	1744.7	1727.5	1720.7	1724.1
9791.6	50°	4555.8	1914.7	2043.5	2132.8	1815.1	1696.6	1636.5	1631.4	1639.9	1645.1
9676.5	52.5°	4257.0	1794.5	1931.9	2021.2	1682.9	1612.5	1545.5	1557.5	1595.3	1607.3
9556.3	55°	4061.2	1653.7	1784.2	1797.9	1590.1	1533.5	1476.8	1504.3	1574.7	1597.0
9484.2	57.5°	4009.7	1504.3	1615.9	1600.4	1471.7	1464.8	1430.4	1454.5	1543.8	1576.4
9480.8	60°	3994.2	1370.3	1451.0	1439.0	1356.6	1389.2	1380.6	1392.7	1423.6	1433.9
9446.4	62.5°	3874.0	1263.9	1303.4	1286.2	1253.6	1310.2	1330.8	1305.1	1329.1	1341.1
9211.2	65°	3568.4	1178.0	1159.1	1147.1	1160.8	1212.4	1253.6	1202.1	1224.4	1258.7
8304.5	67.5°	3063.5	1061.2	1009.7	1023.5	1066.4	1093.9	1147.1	1088.7	1107.6	1166.0
6688.6	70°	2477.9	913.6	867.2	906.7	947.9	1004.6	1013.2	973.7	1018.3	1083.6
4081.8	72.5°	1753.3	764.2	731.5	812.2	826.0	899.8	880.9	862.0	923.9	946.2
2017.7	75°	1215.8	616.5	597.6	659.4	709.2	772.7	759.0	781.3	911.8	922.1
1008.0	77.5°	769.3	479.1	467.1	506.6	575.3	645.7	668.0	922.1	1557.5	1619.3
523.8	80°	446.5	357.2	343.4	374.4	434.5	499.7	644.0	1131.6	1026.9	1014.9
235.3	82.5°	249.0	245.6	228.4	237.0	290.2	360.6	910.1	796.8	647.4	668.0
94.4	85°	116.8	144.2	123.6	118.5	163.1	422.4	607.9	455.1	302.2	295.4
20.6	87.5°	30.9	27.5	27.5	30.9	68.7	364.1	242.1	194.0	115.1	111.6
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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