

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: P948991

Luminaire Tested: **GALN-SB3D-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948991  
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-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

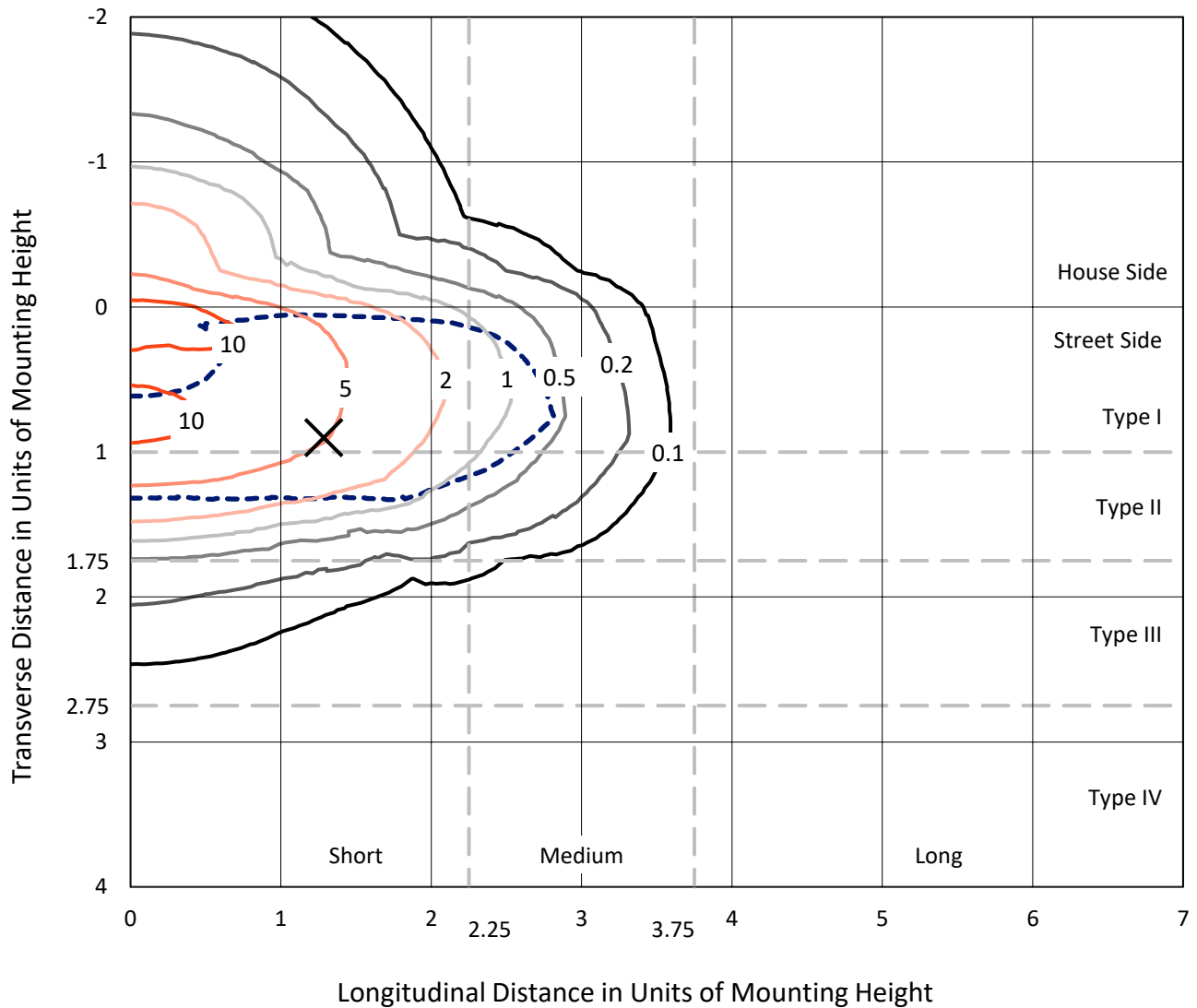
Lumens per Lamp: N/A  
Luminaire Lumens: 29702 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

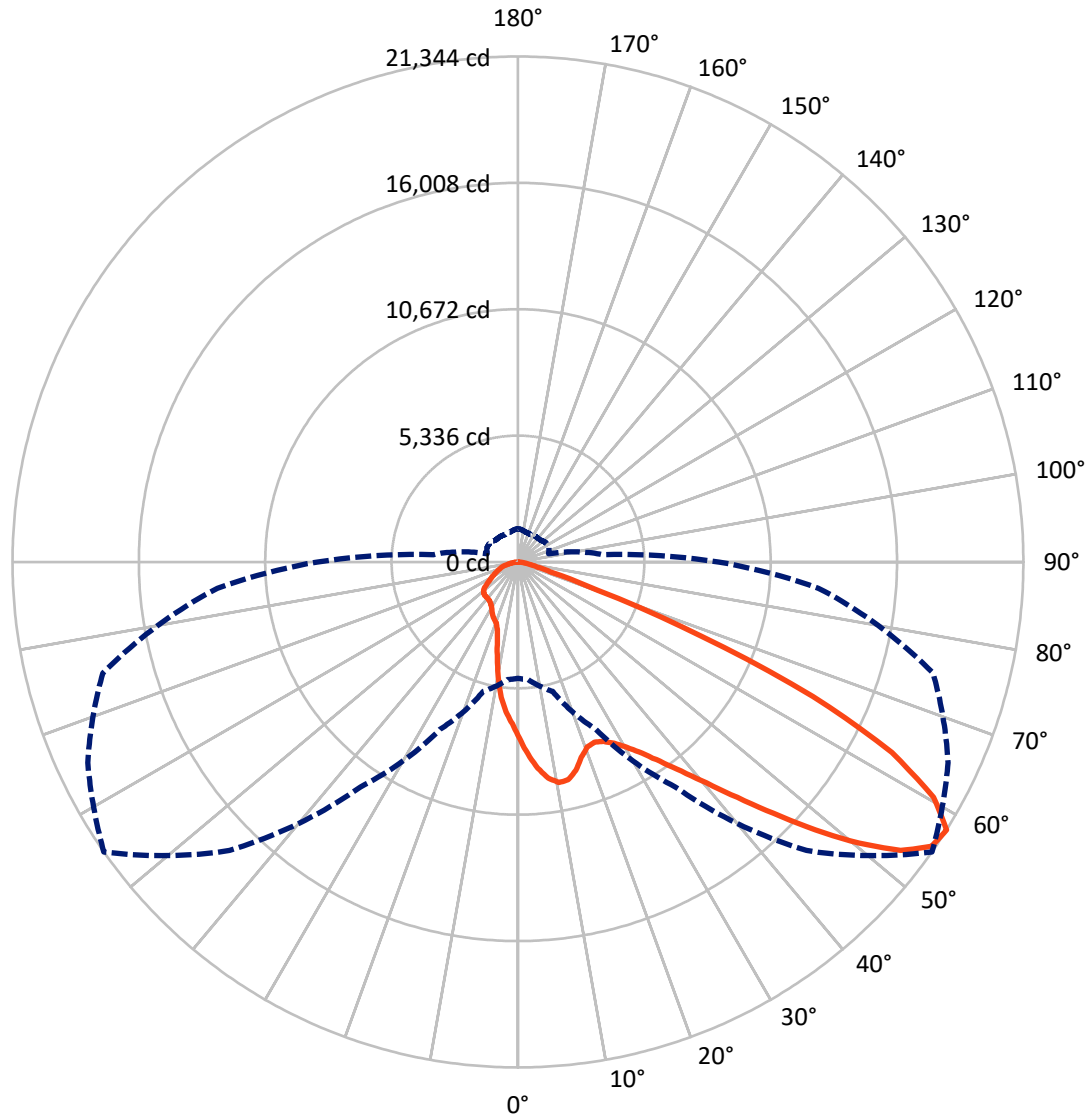
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	5374.4	0.0	5374.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	24327.6	0.0	24327.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	29702.0	0.0	29702.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.6	2.3
10°-20°	1743.1	5.9
20°-30°	2781.5	9.4
30°-40°	4403.8	14.8
40°-50°	6740.5	22.7
50°-60°	7219.8	24.3
60°-70°	4542.0	15.3
70°-80°	1343.2	4.5
80°-90°	237.5	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°	29702.0	100.0
0°-180°	29702.0	100.0

**Coefficient of Utilization**



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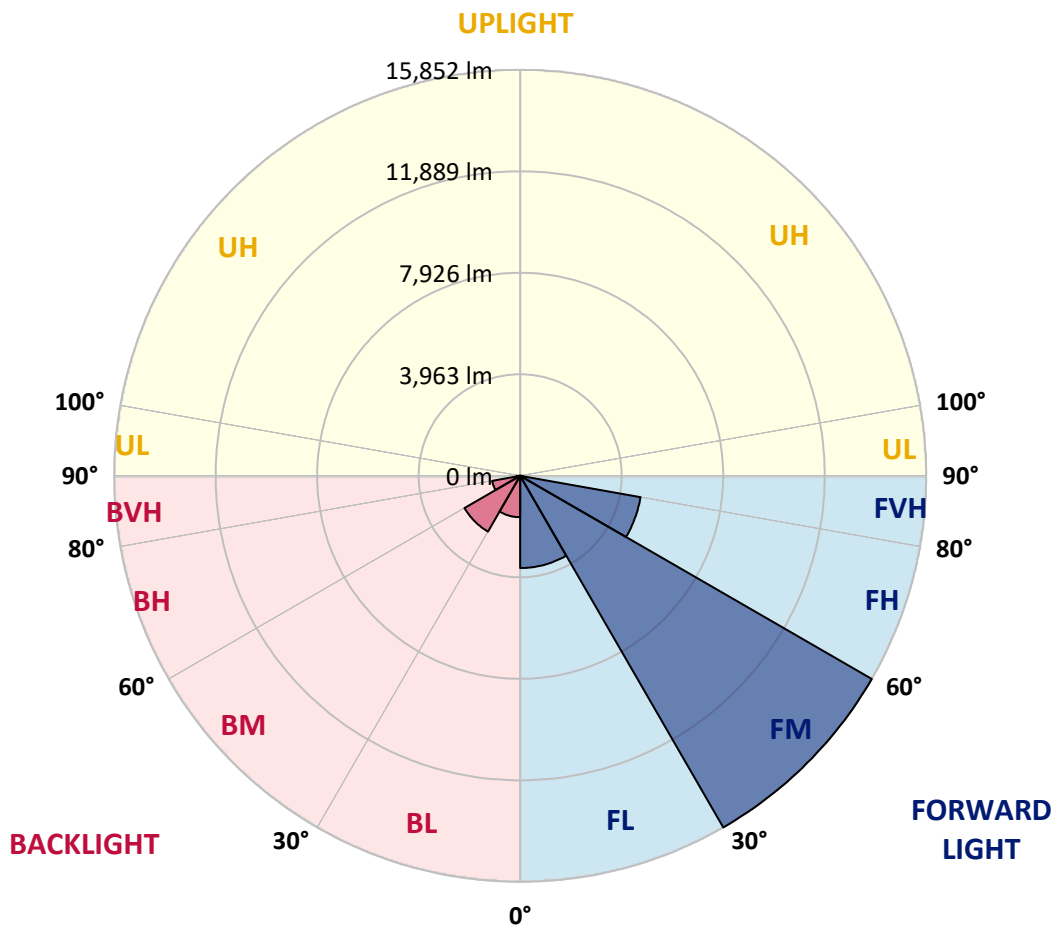
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3599.9	12.1			
FM (30°-60°)	15852.2	53.4			
FH (60°-80°)	4775.2	16.1			G2/5000
FVH (80°-90°)	100.3	0.3			G2/225
BL (0°-30°)	1615.4	5.4	B3/2500		
BM (30°-60°)	2512.0	8.5	B3/5000		
BH (60°-80°)	1110.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	137.1	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°	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4
2.5°	8538.7	8532.5	8566.3	8451.2	8372.8	8266.9	8127.2	7949.1	7757.1	7554.4
5°	9307.9	9254.2	9289.5	9203.5	9117.5	8957.9	8750.6	8460.4	8105.7	7701.8
7.5°	9186.6	9149.8	9240.4	9317.1	9381.6	9361.7	9209.7	8905.6	8448.1	7861.5
10°	8208.5	8167.1	8294.5	8560.2	8950.2	9289.5	9473.8	9284.9	8798.2	8036.6
12.5°	7345.6	7325.7	7410.1	7625.1	8058.1	8709.1	9440.0	9616.6	9162.1	8243.9
15°	6977.1	6952.5	7006.3	7115.3	7391.7	7998.2	9132.9	9843.8	9519.8	8483.4
17.5°	6895.7	6868.1	6891.1	6947.9	7126.1	7588.2	8669.2	9955.9	9892.9	8750.6
20°	7046.2	7023.2	7026.2	7023.2	7147.5	7514.5	8346.7	9912.9	10218.5	8996.2
22.5°	7410.1	7371.7	7373.3	7291.9	7359.4	7643.5	8262.3	9797.7	10508.7	9211.2
25°	8002.8	7933.7	7947.5	7740.2	7721.8	7932.2	8394.3	9708.7	10797.3	9383.2
27.5°	8813.5	8735.2	8693.8	8385.1	8237.7	8342.1	8663.0	9739.4	11070.6	9532.1
30°	9826.9	9731.7	9647.3	9209.7	8942.5	8904.1	9080.7	9942.1	11393.1	9688.7
32.5°	11069.1	10958.6	10805.0	10224.6	9848.4	9647.3	9621.2	10302.9	11770.8	9888.3
35°	12547.7	12403.4	12185.4	11434.5	10958.6	10547.0	10333.6	10823.4	12288.3	10189.3
37.5°	14070.9	13908.2	13708.6	12814.9	12229.9	11623.4	11202.7	11529.7	12977.7	10597.7
40°	15475.9	15293.1	15107.4	14312.0	13684.0	12953.1	12266.8	12423.4	13820.6	11086.0
42.5°	16305.0	16169.9	16099.3	15669.3	15184.1	14442.5	13590.3	13482.8	14768.0	11648.0
45°	16268.2	16212.9	16430.9	16609.0	16493.9	16082.4	15141.1	14654.4	15718.5	12134.7
47.5°	15399.1	15435.9	15922.7	16923.8	17364.5	17579.4	16906.9	15804.5	16544.5	12498.6
50°	13034.5	13065.2	14192.2	16351.1	17588.7	18800.1	18658.9	16926.9	17184.8	12721.3
52.5°	11162.8	11182.7	11666.4	14652.9	16848.6	19414.3	20237.3	17984.8	17653.1	12782.7
55°	8408.2	8477.3	9019.3	11496.0	14923.1	18927.6	21198.5	19075.0	17949.5	12788.8
57.5°	4911.9	4987.2	5656.6	7803.2	11598.8	17230.9	21344.4	20042.3	18150.6	12739.7
60°	2406.1	2438.3	2730.0	4101.2	7152.2	13961.9	20171.3	20510.6	18262.7	12713.6
62.5°	1621.4	1616.8	1629.1	2023.7	3523.9	8970.1	17726.8	19690.7	18202.8	12613.8
65°	1394.2	1377.3	1331.2	1420.3	1825.7	4102.7	13696.3	17243.2	17746.8	12363.5
67.5°	1205.3	1206.9	1208.4	1180.8	1303.6	1893.2	8369.8	13582.6	16110.0	11178.1
70°	998.0	1011.9	1018.0	1018.0	1062.5	1242.2	3573.0	9309.5	12707.4	8764.4
72.5°	909.0	879.8	882.9	867.5	867.5	945.8	1438.7	5277.4	8005.9	4930.4
75°	741.6	760.1	763.1	752.4	717.1	721.7	853.7	2214.1	3425.6	2045.2
77.5°	640.3	640.3	646.4	638.7	611.1	540.5	569.7	858.3	1165.4	838.4
80°	514.4	512.8	538.9	554.3	511.3	399.2	363.9	474.5	517.4	368.5
82.5°	250.3	265.6	370.0	422.3	388.5	288.7	222.6	294.8	276.4	162.8
85°	145.9	138.2	165.8	234.9	222.6	159.7	107.5	153.5	144.3	82.9
87.5°	46.1	43.0	33.8	79.8	64.5	44.5	29.2	44.5	39.9	18.4
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°
7442.4	0°	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4	7442.4
7466.9	2.5°	7357.9	7176.7	6997.1	6832.8	6733.0	6668.5	6604.0	6531.8	6504.2	6462.7
7486.9	5°	7284.2	6934.1	6622.4	6353.7	6109.6	5917.6	5724.2	5567.6	5496.9	5544.5
7549.8	7.5°	7241.2	6734.5	6253.9	5761.0	5286.6	4907.3	4577.2	4345.3	4240.9	4267.0
7611.3	10°	7202.8	6508.8	5776.4	4997.9	4316.2	3846.3	3508.5	3331.9	3265.9	3279.7
7694.2	12.5°	7167.5	6255.4	5200.6	4176.4	3451.7	3141.5	3044.8	3046.3	3058.6	3067.8
7826.2	15°	7161.4	5949.9	4557.2	3457.8	2984.9	2965.0	3069.4	3135.4	3170.7	3181.5
7936.8	17.5°	7152.2	5584.5	3901.6	2968.0	2871.3	3006.4	3103.2	3146.2	3173.8	3175.3
8044.3	20°	7115.3	5120.7	3296.6	2734.6	2846.7	2963.4	3023.3	3057.1	3080.1	3087.8
8125.6	22.5°	7001.7	4604.8	2825.2	2630.2	2748.5	2842.1	2912.8	2951.1	2965.0	2974.2
8141.0	25°	6797.5	4027.5	2499.7	2530.4	2611.8	2730.0	2786.9	2794.5	2789.9	2803.7
8102.6	27.5°	6530.3	3408.7	2297.0	2395.3	2499.7	2601.1	2631.8	2627.2	2618.0	2633.3
8036.6	30°	6207.9	2852.9	2168.1	2243.3	2386.1	2478.2	2505.9	2495.1	2476.7	2493.6
8002.8	32.5°	5867.0	2398.4	2062.1	2137.4	2292.4	2383.0	2410.7	2399.9	2386.1	2399.9
8041.2	35°	5549.1	2080.5	1963.8	2066.7	2218.7	2307.8	2343.1	2344.6	2344.6	2361.5
8142.5	37.5°	5257.4	1894.8	1882.5	2022.2	2168.1	2247.9	2298.6	2301.6	2235.6	2240.2
8314.5	40°	4987.2	1816.4	1845.6	1993.0	2118.9	2195.7	2198.8	2026.8	1905.5	1902.4
8511.0	42.5°	4766.1	1801.1	1856.4	1990.0	2083.6	2086.7	1870.2	1736.6	1702.8	1704.4
8692.2	45°	4558.8	1796.5	1880.9	1990.0	2031.4	1802.6	1656.8	1621.4	1624.5	1636.8
8773.6	47.5°	4326.9	1778.1	1885.5	1962.3	1880.9	1603.0	1560.0	1544.7	1538.5	1541.6
8755.2	50°	4073.6	1712.0	1827.2	1907.0	1623.0	1517.0	1463.3	1458.7	1466.4	1471.0
8652.3	52.5°	3806.4	1604.6	1727.4	1807.2	1504.7	1441.8	1381.9	1392.7	1426.4	1437.2
8544.8	55°	3631.4	1478.6	1595.3	1607.6	1421.8	1371.2	1320.5	1345.1	1408.0	1428.0
8480.3	57.5°	3585.3	1345.1	1444.9	1431.0	1315.9	1309.7	1279.0	1300.5	1380.4	1409.5
8477.3	60°	3571.5	1225.3	1297.5	1286.7	1213.0	1242.2	1234.5	1245.3	1272.9	1282.1
8446.5	62.5°	3464.0	1130.1	1165.4	1150.1	1120.9	1171.6	1190.0	1166.9	1188.4	1199.2
8236.2	65°	3190.7	1053.3	1036.4	1025.7	1038.0	1084.0	1120.9	1074.8	1094.8	1125.5
7425.5	67.5°	2739.3	948.9	902.8	915.1	953.5	978.1	1025.7	973.5	990.4	1042.6
5980.6	70°	2215.7	816.9	775.4	810.7	847.6	898.2	905.9	870.6	910.5	968.9
3649.8	72.5°	1567.7	683.3	654.1	726.3	738.6	804.6	787.7	770.8	826.1	846.0
1804.2	75°	1087.1	551.2	534.3	589.6	634.1	691.0	678.7	698.6	815.3	824.5
901.3	77.5°	687.9	428.4	417.6	453.0	514.4	577.3	597.3	824.5	1392.7	1447.9
468.3	80°	399.2	319.4	307.1	334.7	388.5	446.8	575.8	1011.9	918.2	907.5
210.4	82.5°	222.6	219.6	204.2	211.9	259.5	322.4	813.8	712.5	578.9	597.3
84.5	85°	104.4	129.0	110.6	105.9	145.9	377.7	543.6	406.9	270.2	264.1
18.4	87.5°	27.6	24.6	24.6	27.6	61.4	325.5	216.5	173.5	102.9	99.8
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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