

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: P954976

Luminaire Tested: **GALN-SB8A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954976
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-SB8A-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32079 lumens
Efficiency: N/A
Efficacy: 141.3 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

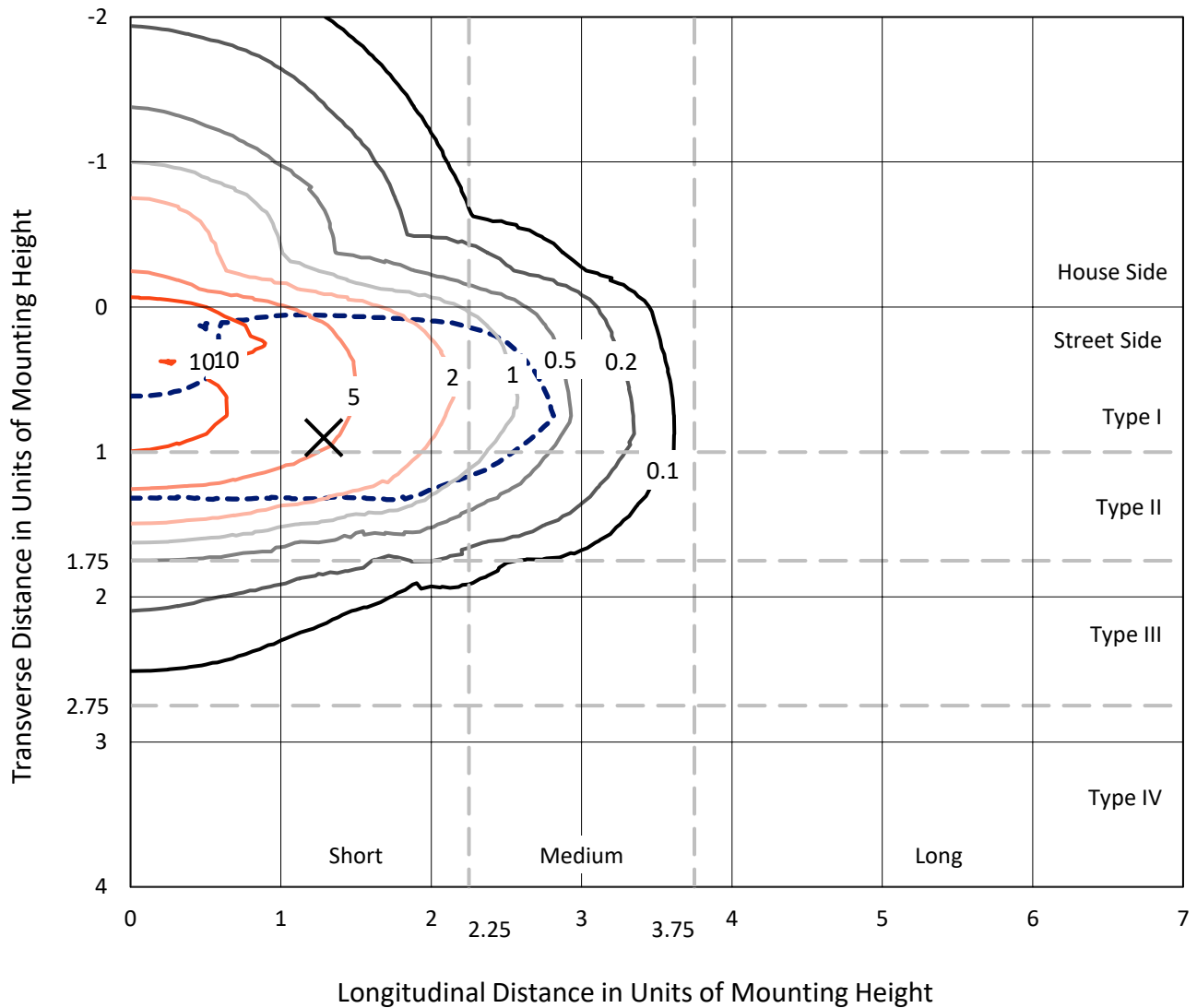
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

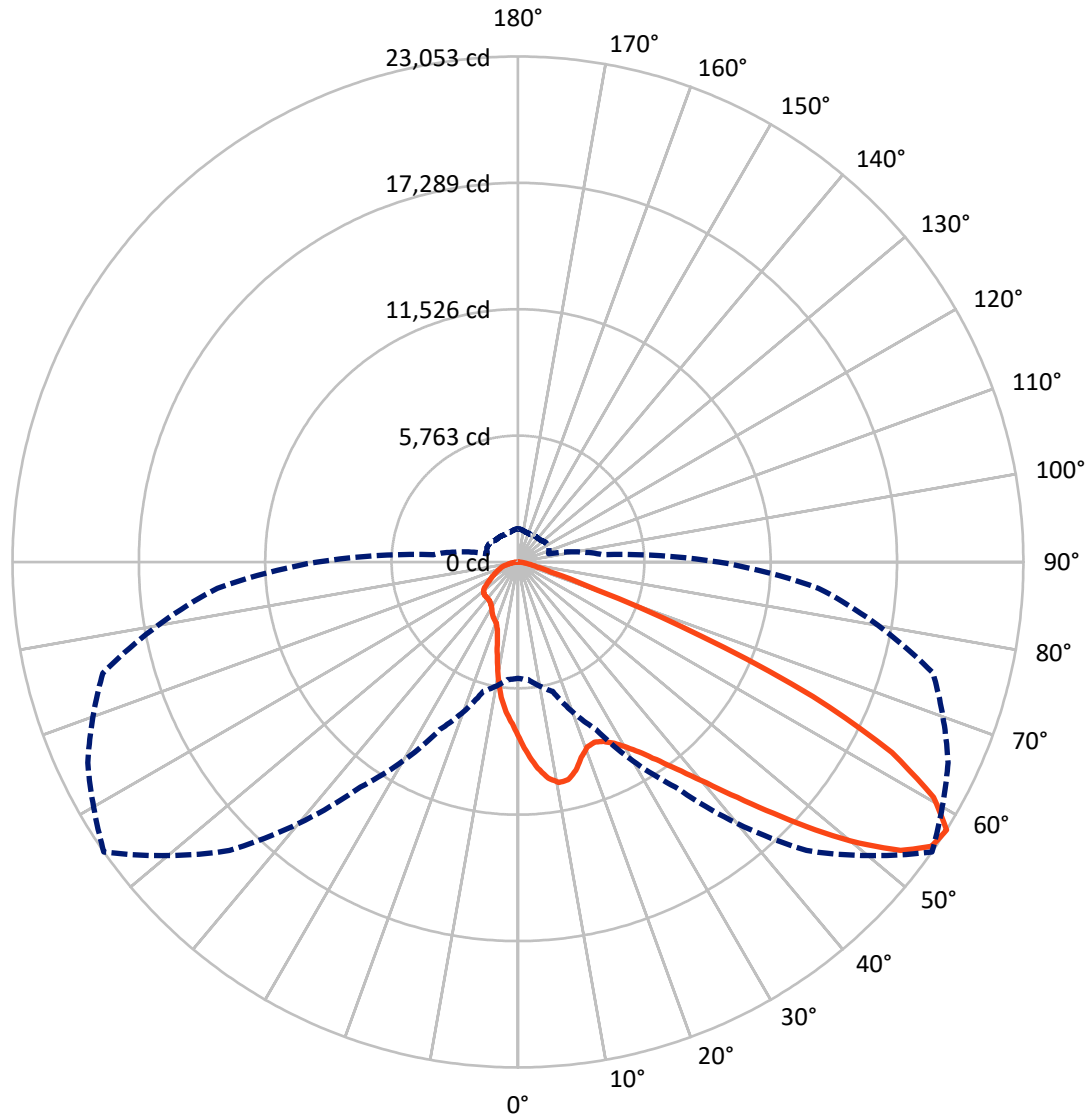
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	5804.5	0.0	5804.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26274.5	0.0	26274.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	32079.0	0.0	32079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.9	2.3
10°-20°	1882.6	5.9
20°-30°	3004.1	9.4
30°-40°	4756.3	14.8
40°-50°	7280.0	22.7
50°-60°	7797.5	24.3
60°-70°	4905.5	15.3
70°-80°	1450.6	4.5
80°-90°	256.5	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°	32079.0	100.0
0°-180°	32079.0	100.0

Coefficient of Utilization



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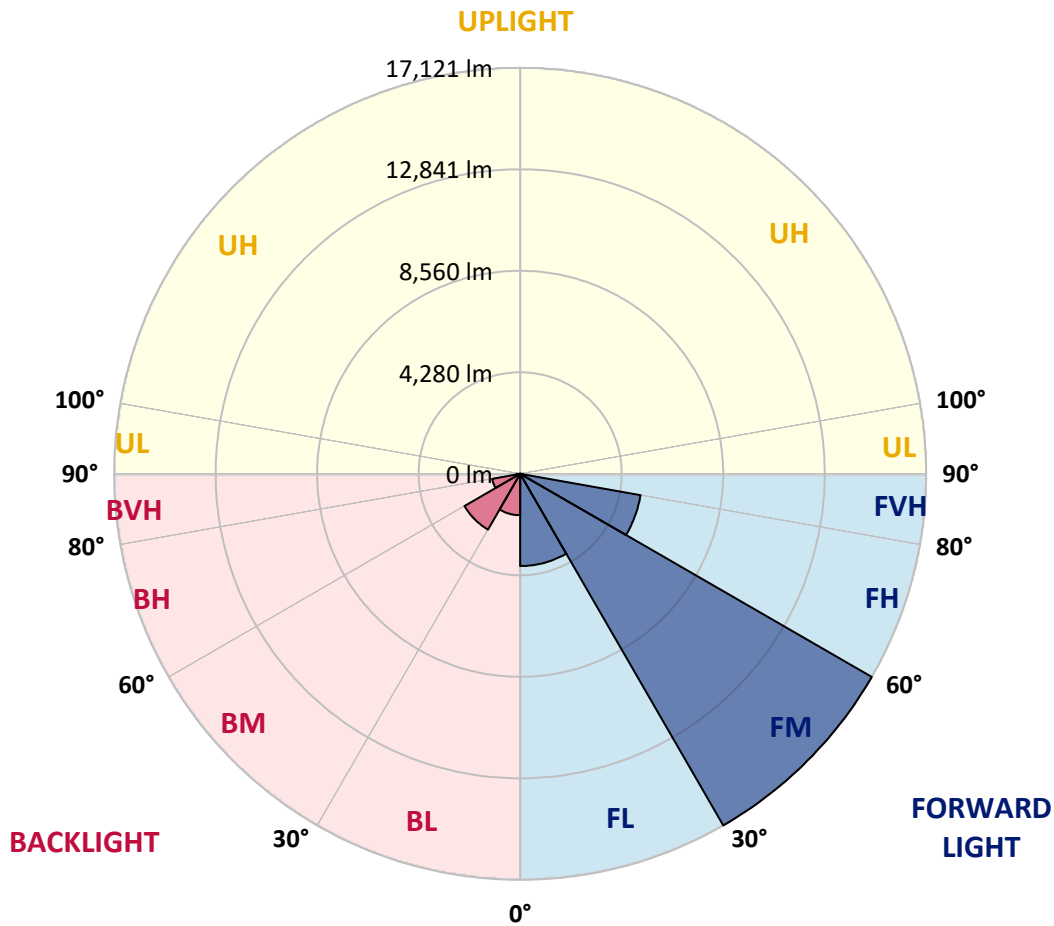
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.0	12.1			
FM (30°-60°)	17120.8	53.4			
FH (60°-80°)	5157.3	16.1			G3/7500
FVH (80°-90°)	108.4	0.3			G2/225
BL (0°-30°)	1744.7	5.4	B3/2500		
BM (30°-60°)	2713.0	8.5	B3/5000		
BH (60°-80°)	1198.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	148.1	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°	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0
2.5°	9222.0	9215.4	9251.9	9127.5	9042.9	8928.5	8777.6	8585.2	8377.9	8159.0
5°	10052.8	9994.8	10032.9	9940.1	9847.2	9674.7	9450.9	9137.4	8754.4	8318.2
7.5°	9921.8	9882.0	9979.9	10062.8	10132.4	10110.9	9946.7	9618.4	9124.2	8490.7
10°	8865.5	8820.7	8958.3	9245.2	9666.4	10032.9	10231.9	10028.0	9502.3	8679.7
12.5°	7933.5	7911.9	8003.1	8235.3	8702.9	9406.1	10195.5	10386.2	9895.3	8903.6
15°	7535.5	7508.9	7567.0	7684.7	7983.2	8638.3	9863.8	10631.6	10281.7	9162.3
17.5°	7447.6	7417.7	7442.6	7504.0	7696.3	8195.5	9363.0	10752.7	10684.7	9450.9
20°	7610.1	7585.2	7588.5	7585.2	7719.6	8115.9	9014.7	10706.2	11036.2	9716.2
22.5°	8003.1	7961.7	7963.3	7875.4	7948.4	8255.2	8923.5	10581.8	11349.7	9948.4
25°	8643.2	8568.6	8583.5	8359.7	8339.8	8567.0	9066.1	10485.7	11661.4	10134.1
27.5°	9518.9	9434.3	9389.5	9056.2	8897.0	9009.7	9356.3	10518.8	11956.6	10295.0
30°	10613.4	10510.5	10419.3	9946.7	9658.2	9616.7	9807.4	10737.7	12304.9	10464.1
32.5°	11954.9	11835.5	11669.7	11042.9	10636.6	10419.3	10391.1	11127.4	12712.8	10679.7
35°	13551.9	13396.0	13160.6	12349.6	11835.5	11391.1	11160.6	11689.6	13271.7	11004.7
37.5°	15197.0	15021.2	14805.6	13840.5	13208.6	12553.6	12099.2	12452.4	14016.3	11445.8
40°	16714.4	16517.0	16316.4	15457.4	14779.1	13989.7	13248.4	13417.6	14926.7	11973.2
42.5°	17609.9	17463.9	17387.7	16923.3	16399.3	15598.3	14677.9	14561.9	15949.9	12580.1
45°	17570.1	17510.4	17745.9	17938.2	17813.8	17369.4	16352.9	15827.2	16976.4	13105.8
47.5°	16631.5	16671.3	17196.9	18278.2	18754.1	18986.3	18259.9	17069.3	17868.6	13498.9
50°	14077.6	14110.8	15328.0	17659.6	18996.2	20304.7	20152.1	18281.5	18560.1	13739.3
52.5°	12056.1	12077.7	12600.0	15825.5	18196.9	20968.0	21856.9	19424.1	19065.9	13805.6
55°	9081.0	9155.7	9741.1	12416.0	16117.4	20442.3	22895.0	20601.5	19386.0	13812.3
57.5°	5305.0	5386.3	6109.3	8427.7	12527.1	18609.9	23052.5	21646.3	19603.2	13759.2
60°	2598.6	2633.4	2948.5	4429.4	7724.5	15079.3	21785.6	22152.1	19724.3	13731.0
62.5°	1751.2	1746.2	1759.5	2185.7	3805.9	9688.0	19145.5	21266.5	19659.6	13623.2
65°	1505.8	1487.5	1437.8	1534.0	1971.8	4431.1	14792.4	18623.1	19167.1	13352.9
67.5°	1301.8	1303.5	1305.1	1275.3	1407.9	2044.7	9039.6	14669.6	17399.3	12072.7
70°	1077.9	1092.8	1099.5	1099.5	1147.6	1341.6	3858.9	10054.5	13724.4	9465.8
72.5°	981.7	950.2	953.5	937.0	937.0	1021.5	1553.9	5699.7	8646.6	5324.9
75°	801.0	820.9	824.2	812.6	774.4	779.4	922.0	2391.3	3699.7	2208.9
77.5°	691.5	691.5	698.2	689.9	660.0	583.7	615.2	927.0	1258.7	905.5
80°	555.5	553.9	582.1	598.7	552.2	431.2	393.0	512.4	558.9	398.0
82.5°	270.3	286.9	399.7	456.0	419.6	311.8	240.5	318.4	298.5	175.8
85°	157.5	149.3	179.1	253.7	240.5	172.5	116.1	165.8	155.9	89.6
87.5°	49.8	46.4	36.5	86.2	69.7	48.1	31.5	48.1	43.1	19.9
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°
8038.0	0°	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0	8038.0
8064.5	2.5°	7946.7	7751.1	7557.0	7379.6	7271.8	7202.2	7132.5	7054.6	7024.7	6979.9
8086.0	5°	7867.1	7489.0	7152.4	6862.2	6598.5	6391.2	6182.3	6013.1	5936.8	5988.3
8154.0	7.5°	7820.7	7273.5	6754.4	6222.1	5709.7	5300.0	4943.5	4693.1	4580.3	4608.5
8220.4	10°	7779.3	7029.7	6238.7	5397.9	4661.6	4154.1	3789.3	3598.6	3527.3	3542.2
8309.9	12.5°	7741.1	6756.1	5616.8	4510.7	3727.9	3393.0	3288.5	3290.1	3303.4	3313.4
8452.5	15°	7734.5	6426.1	4921.9	3734.6	3223.8	3202.2	3315.0	3386.3	3424.5	3436.1
8571.9	17.5°	7724.5	6031.4	4213.8	3205.6	3101.1	3247.0	3351.5	3397.9	3427.8	3429.4
8688.0	20°	7684.7	5530.6	3560.4	2953.5	3074.6	3200.6	3265.3	3301.7	3326.6	3334.9
8775.9	22.5°	7562.0	4973.4	3051.3	2840.7	2968.4	3069.6	3145.9	3187.3	3202.2	3212.2
8792.5	25°	7341.5	4349.8	2699.8	2732.9	2820.8	2948.5	3009.9	3018.2	3013.2	3028.1
8751.0	27.5°	7052.9	3681.5	2480.9	2587.0	2699.8	2809.2	2842.4	2837.4	2827.5	2844.0
8679.7	30°	6704.7	3081.2	2341.6	2422.8	2577.1	2676.6	2706.4	2694.8	2674.9	2693.1
8643.2	32.5°	6336.5	2590.3	2227.1	2308.4	2475.9	2573.7	2603.6	2592.0	2577.1	2592.0
8684.7	35°	5993.2	2247.0	2121.0	2232.1	2396.3	2492.5	2530.6	2532.3	2532.3	2550.5
8794.2	37.5°	5678.1	2046.4	2033.1	2184.0	2341.6	2427.8	2482.5	2485.8	2414.5	2419.5
8979.9	40°	5386.3	1961.8	1993.3	2152.5	2288.5	2371.4	2374.7	2189.0	2058.0	2054.7
9192.2	42.5°	5147.5	1945.2	2004.9	2149.2	2250.4	2253.7	2019.9	1875.6	1839.1	1840.8
9387.8	45°	4923.6	1940.3	2031.5	2149.2	2194.0	1946.9	1789.3	1751.2	1754.5	1767.8
9475.7	47.5°	4673.2	1920.4	2036.4	2119.4	2031.5	1731.3	1684.9	1668.3	1661.7	1665.0
9455.8	50°	4399.6	1849.0	1973.4	2059.7	1752.9	1638.4	1580.4	1575.4	1583.7	1588.7
9344.7	52.5°	4111.0	1733.0	1865.6	1951.9	1625.2	1557.2	1492.5	1504.1	1540.6	1552.2
9228.6	55°	3922.0	1597.0	1723.0	1736.3	1535.6	1480.9	1426.2	1452.7	1520.7	1542.3
9159.0	57.5°	3872.2	1452.7	1560.5	1545.6	1421.2	1414.6	1381.4	1404.6	1490.8	1522.4
9155.7	60°	3857.3	1323.4	1401.3	1389.7	1310.1	1341.6	1333.3	1344.9	1374.8	1384.7
9122.5	62.5°	3741.2	1220.5	1258.7	1242.1	1210.6	1265.3	1285.2	1260.3	1283.6	1295.2
8895.3	65°	3446.0	1137.6	1119.4	1107.8	1121.0	1170.8	1210.6	1160.8	1182.4	1215.6
8019.7	67.5°	2958.5	1024.9	975.1	988.4	1029.8	1056.4	1107.8	1051.4	1069.6	1126.0
6459.2	70°	2393.0	882.2	837.5	875.6	915.4	970.1	978.4	940.3	983.4	1046.4
3941.9	72.5°	1693.2	738.0	706.5	784.4	797.7	869.0	850.7	832.5	892.2	913.7
1948.5	75°	1174.1	595.3	577.1	636.8	684.9	746.3	733.0	754.5	880.6	890.5
973.4	77.5°	742.9	462.7	451.1	489.2	555.5	623.5	645.1	890.5	1504.1	1563.8
505.8	80°	431.2	344.9	331.7	361.5	419.6	482.6	621.9	1092.8	991.7	980.1
227.2	82.5°	240.5	237.1	220.6	228.9	280.3	348.3	878.9	769.5	625.2	645.1
91.2	85°	112.8	139.3	119.4	114.4	157.5	408.0	587.1	439.5	291.9	285.2
19.9	87.5°	29.9	26.5	26.5	29.9	66.3	351.6	233.8	187.4	111.1	107.8
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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