

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: P948928

Luminaire Tested: **GALN-SB3D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948928
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27902 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

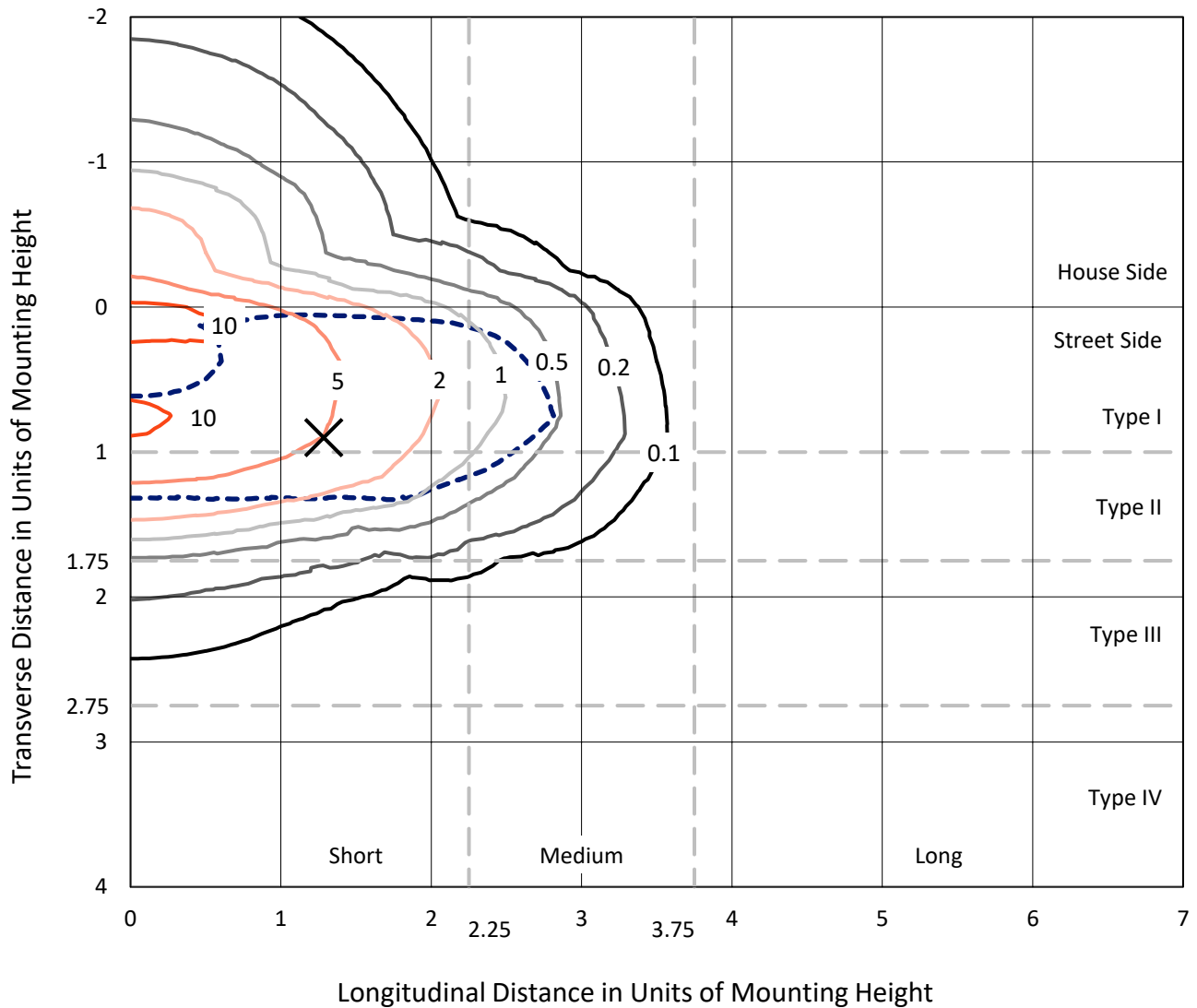
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

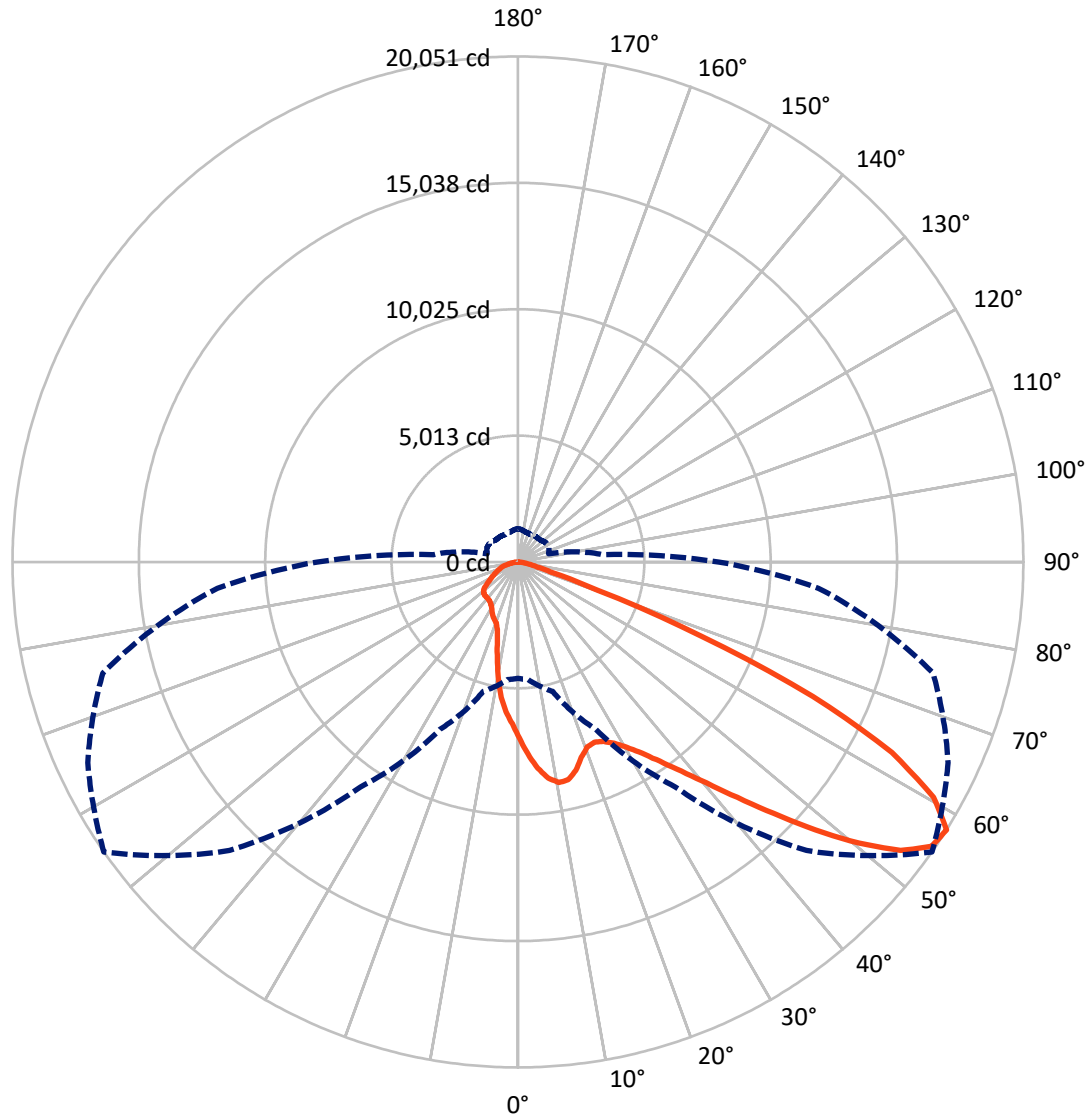
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	5048.7	0.0	5048.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22853.3	0.0	22853.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	27902.0	0.0	27902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.7	2.3
10°-20°	1637.5	5.9
20°-30°	2613.0	9.4
30°-40°	4137.0	14.8
40°-50°	6332.0	22.7
50°-60°	6782.2	24.3
60°-70°	4266.7	15.3
70°-80°	1261.8	4.5
80°-90°	223.1	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°	27902.0	100.0
0°-180°	27902.0	100.0



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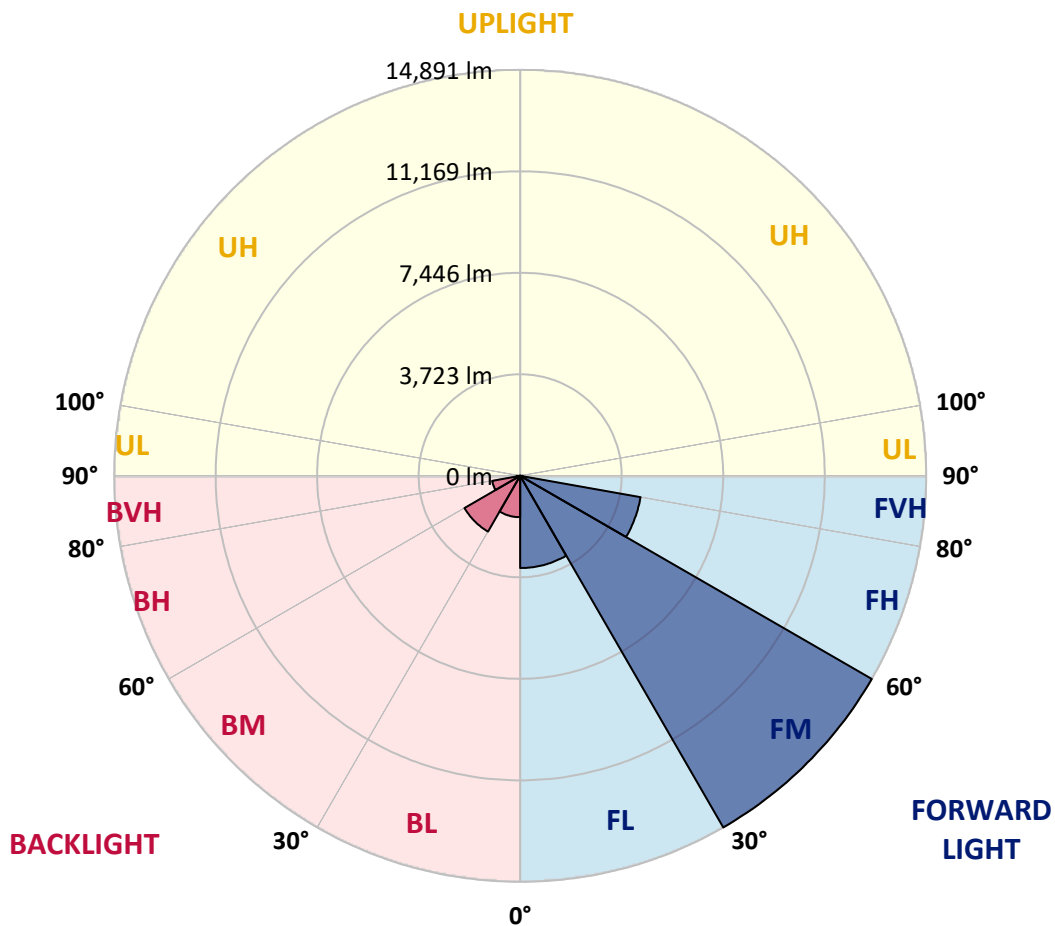
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.7	12.1			
FM (30°-60°)	14891.5	53.4			
FH (60°-80°)	4485.8	16.1			G2/5000
FVH (80°-90°)	94.3	0.3			G1/100
BL (0°-30°)	1517.5	5.4	B3/2500		
BM (30°-60°)	2359.7	8.5	B2/2500		
BH (60°-80°)	1042.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	128.8	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°	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3
2.5°	8021.2	8015.4	8047.2	7939.0	7865.4	7765.9	7634.6	7467.3	7287.0	7096.6
5°	8743.9	8693.4	8726.5	8645.8	8565.0	8415.0	8220.3	7947.6	7614.5	7235.1
7.5°	8629.9	8595.3	8680.4	8752.5	8813.1	8794.3	8651.5	8365.9	7936.1	7385.1
10°	7711.1	7672.2	7791.9	8041.4	8407.8	8726.5	8899.6	8722.2	8265.0	7549.5
12.5°	6900.5	6881.7	6961.0	7163.0	7569.7	8181.3	8867.9	9033.8	8606.8	7744.3
15°	6554.3	6531.2	6581.7	6684.1	6943.7	7513.5	8579.4	9247.3	8942.9	7969.3
17.5°	6477.8	6451.9	6473.5	6526.9	6694.2	7128.4	8143.8	9352.6	9293.4	8220.3
20°	6619.2	6597.6	6600.4	6597.6	6714.4	7059.1	7840.9	9312.2	9599.2	8451.0
22.5°	6961.0	6925.0	6926.4	6850.0	6913.4	7180.3	7761.6	9204.0	9871.8	8653.0
25°	7517.8	7452.9	7465.9	7271.2	7253.9	7451.5	7885.6	9120.3	10143.0	8814.5
27.5°	8279.4	8205.8	8166.9	7877.0	7738.5	7836.6	8138.0	9149.2	10399.7	8954.4
30°	9231.4	9142.0	9062.6	8651.5	8400.6	8364.5	8530.4	9339.6	10702.6	9101.6
32.5°	10398.3	10294.4	10150.2	9605.0	9251.6	9062.6	9038.1	9678.5	11057.5	9289.1
35°	11787.3	11651.7	11446.9	10741.6	10294.4	9907.9	9707.4	10167.5	11543.6	9571.8
37.5°	13218.2	13065.3	12877.8	12038.3	11488.8	10919.0	10523.8	10831.0	12191.2	9955.5
40°	14538.0	14366.4	14191.8	13444.7	12854.7	12168.1	11523.4	11670.5	12983.1	10414.2
42.5°	15316.9	15190.0	15123.6	14719.7	14263.9	13567.3	12766.7	12665.8	13873.0	10942.1
45°	15282.3	15230.4	15435.2	15602.5	15494.3	15107.7	14223.6	13766.3	14765.9	11399.3
47.5°	14465.9	14500.5	14957.7	15898.2	16312.2	16514.1	15882.3	14846.7	15541.9	11741.2
50°	12244.6	12273.4	13332.1	15360.2	16522.7	17660.8	17528.1	15901.1	16143.4	11950.3
52.5°	10486.3	10505.0	10959.4	13764.9	15827.5	18237.8	19010.9	16894.9	16583.3	12008.0
55°	7898.6	7963.5	8472.7	10799.3	14018.7	17780.5	19913.8	17919.0	16861.7	12013.8
57.5°	4614.3	4684.9	5313.8	7330.3	10895.9	16186.7	20050.9	18827.7	17050.7	11967.6
60°	2260.2	2290.5	2564.6	3852.7	6718.7	13115.8	18948.9	19267.6	17156.0	11943.1
62.5°	1523.2	1518.9	1530.4	1901.1	3310.3	8426.5	16652.6	18497.4	17099.7	11849.4
65°	1309.7	1293.8	1250.6	1334.2	1715.0	3854.1	12866.2	16198.2	16671.3	11614.2
67.5°	1132.3	1133.7	1135.2	1109.2	1224.6	1778.5	7862.5	12759.5	15133.7	10500.7
70°	937.6	950.5	956.3	956.3	998.1	1166.9	3356.5	8745.3	11937.3	8233.2
72.5°	853.9	826.5	829.4	815.0	815.0	888.5	1351.5	4957.5	7520.7	4631.6
75°	696.7	714.0	716.9	706.8	673.6	677.9	802.0	2079.9	3218.0	1921.3
77.5°	601.5	601.5	607.3	600.0	574.1	507.7	535.1	806.3	1094.8	787.6
80°	483.2	481.8	506.3	520.7	480.3	375.0	341.8	445.7	486.1	346.2
82.5°	235.1	249.5	347.6	396.7	364.9	271.2	209.1	276.9	259.6	152.9
85°	137.0	129.8	155.8	220.7	209.1	150.0	101.0	144.2	135.6	77.9
87.5°	43.3	40.4	31.7	75.0	60.6	41.8	27.4	41.8	37.5	17.3
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°
6991.3	0°	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3	6991.3
7014.4	2.5°	6912.0	6741.8	6573.0	6418.7	6324.9	6264.4	6203.8	6136.0	6110.0	6071.1
7033.2	5°	6842.8	6513.9	6221.1	5968.7	5739.3	5559.0	5377.3	5230.2	5163.8	5208.5
7092.3	7.5°	6802.4	6326.4	5874.9	5411.9	4966.2	4609.9	4299.8	4082.0	3983.9	4008.4
7150.0	10°	6766.3	6114.4	5426.3	4695.0	4054.6	3613.2	3295.9	3130.0	3068.0	3081.0
7227.9	12.5°	6733.1	5876.4	4885.4	3923.3	3242.5	2951.2	2860.3	2861.7	2873.3	2881.9
7351.9	15°	6727.4	5589.3	4281.1	3248.3	2804.0	2785.3	2883.4	2945.4	2978.6	2988.7
7455.8	17.5°	6718.7	5246.0	3665.2	2788.2	2697.3	2824.2	2915.1	2955.5	2981.5	2982.9
7556.8	20°	6684.1	4810.4	3096.8	2568.9	2674.2	2783.8	2840.1	2871.8	2893.5	2900.7
7633.2	22.5°	6577.4	4325.8	2654.0	2470.8	2581.9	2669.9	2736.2	2772.3	2785.3	2793.9
7647.6	25°	6385.5	3783.4	2348.2	2377.1	2453.5	2564.6	2618.0	2625.2	2620.8	2633.8
7611.6	27.5°	6134.5	3202.1	2157.8	2250.2	2348.2	2443.4	2472.3	2468.0	2459.3	2473.7
7549.5	30°	5831.6	2680.0	2036.7	2107.4	2241.5	2328.0	2354.0	2343.9	2326.6	2342.5
7517.8	32.5°	5511.4	2253.0	1937.1	2007.8	2153.5	2238.6	2264.6	2254.5	2241.5	2254.5
7553.9	35°	5212.9	1954.5	1844.8	1941.5	2084.3	2167.9	2201.1	2202.6	2202.6	2218.4
7649.1	37.5°	4938.8	1779.9	1768.4	1899.6	2036.7	2111.7	2159.3	2162.2	2100.1	2104.5
7810.6	40°	4684.9	1706.4	1733.8	1872.2	1990.5	2062.6	2065.5	1904.0	1790.0	1787.1
7995.2	42.5°	4477.2	1691.9	1743.9	1869.4	1957.3	1960.2	1756.8	1631.4	1599.6	1601.1
8165.5	45°	4282.5	1687.6	1766.9	1869.4	1908.3	1693.4	1556.4	1523.2	1526.1	1537.6
8241.9	47.5°	4064.7	1670.3	1771.3	1843.4	1766.9	1505.9	1465.5	1451.1	1445.3	1448.2
8224.6	50°	3826.7	1608.3	1716.5	1791.5	1524.6	1425.1	1374.6	1370.3	1377.5	1381.8
8128.0	52.5°	3575.7	1507.3	1622.7	1697.7	1413.6	1354.4	1298.2	1308.3	1340.0	1350.1
8027.0	55°	3411.3	1389.0	1498.7	1510.2	1335.7	1288.1	1240.5	1263.5	1322.7	1341.4
7966.4	57.5°	3368.0	1263.5	1357.3	1344.3	1236.1	1230.4	1201.5	1221.7	1296.7	1324.1
7963.5	60°	3355.0	1151.0	1218.8	1208.7	1139.5	1166.9	1159.7	1169.8	1195.8	1204.4
7934.7	62.5°	3254.1	1061.6	1094.8	1080.4	1053.0	1100.6	1117.9	1096.2	1116.4	1126.5
7737.1	65°	2997.3	989.5	973.6	963.5	975.1	1018.3	1053.0	1009.7	1028.4	1057.3
6975.5	67.5°	2573.2	891.4	848.1	859.7	895.7	918.8	963.5	914.5	930.4	979.4
5618.2	70°	2081.4	767.4	728.4	761.6	796.2	843.8	851.0	817.8	855.3	910.2
3428.6	72.5°	1472.7	641.9	614.5	682.3	693.8	755.8	740.0	724.1	776.0	794.8
1694.8	75°	1021.2	517.8	502.0	553.9	595.7	649.1	637.5	656.3	765.9	774.6
846.7	77.5°	646.2	402.4	392.3	425.5	483.2	542.3	561.1	774.6	1308.3	1360.2
439.9	80°	375.0	300.0	288.5	314.4	364.9	419.7	540.9	950.5	862.6	852.5
197.6	82.5°	209.1	206.3	191.8	199.1	243.8	302.9	764.5	669.3	543.8	561.1
79.3	85°	98.1	121.2	103.9	99.5	137.0	354.8	510.6	382.2	253.9	248.1
17.3	87.5°	26.0	23.1	23.1	26.0	57.7	305.8	203.4	163.0	96.6	93.8
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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