

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: P957223

Luminaire Tested: **GALN-SB9C-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957223  
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-SB9C-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

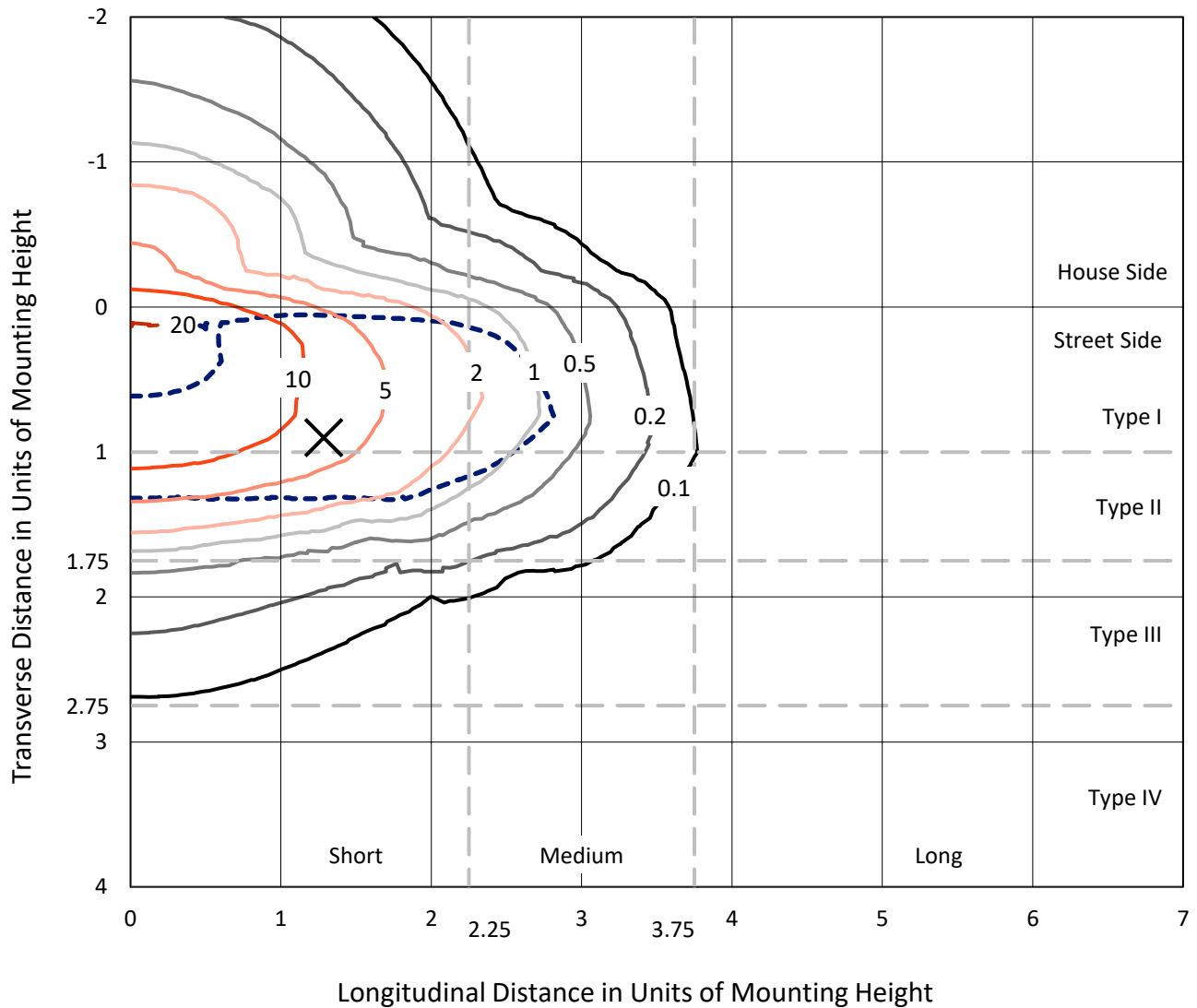
Lumens per Lamp: N/A  
Luminaire Lumens: 42228 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

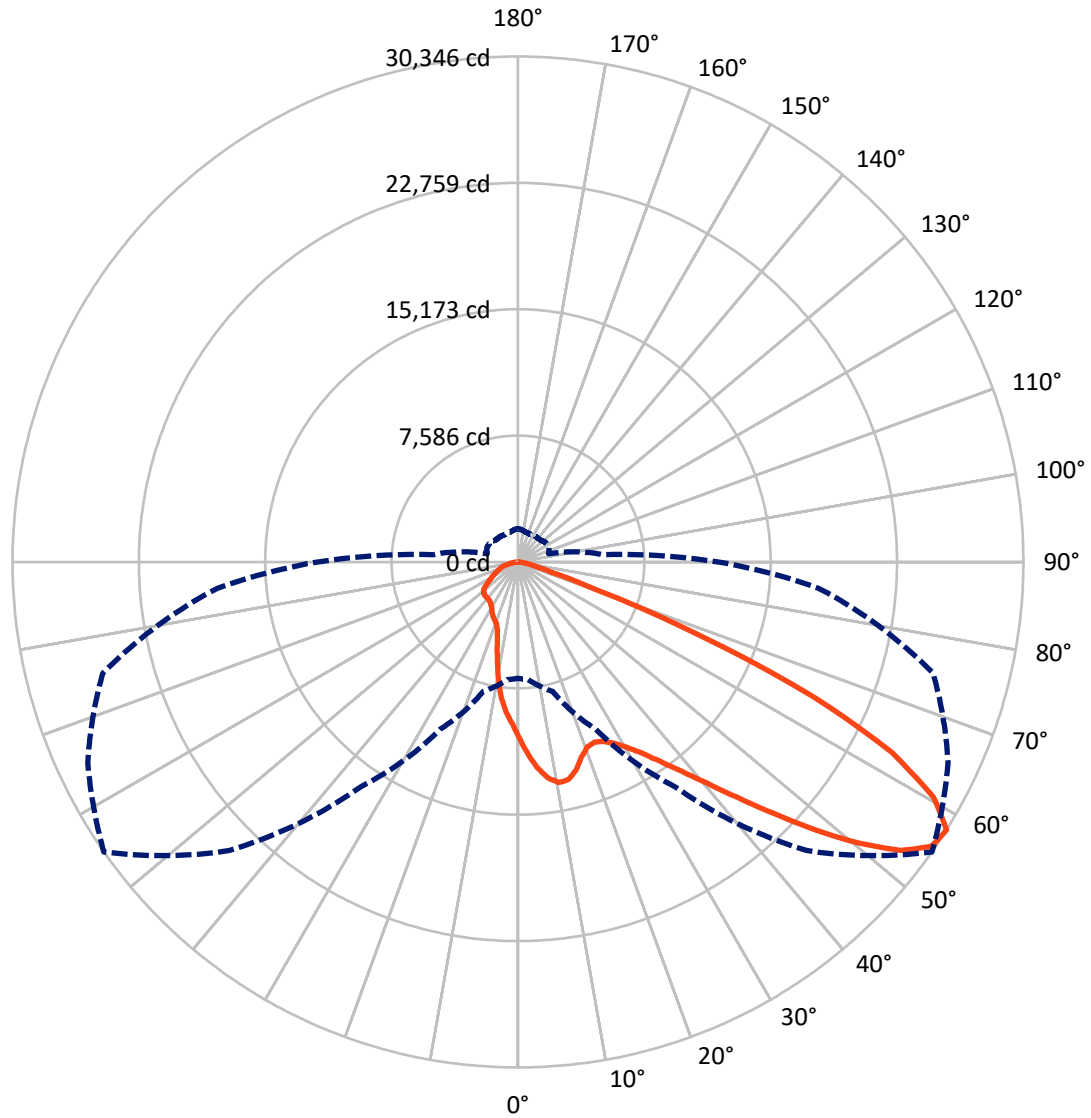
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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
<b>House Side</b>	Lumens	7641.0	0.0	7641.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	34587.0	0.0	34587.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	42228.0	0.0	42228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.8	2.3
10°-20°	2478.2	5.9
20°-30°	3954.6	9.4
30°-40°	6261.0	14.8
40°-50°	9583.2	22.7
50°-60°	10264.5	24.3
60°-70°	6457.4	15.3
70°-80°	1909.6	4.5
80°-90°	337.6	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°	42228.0	100.0
0°-180°	42228.0	100.0

**Coefficient of Utilization**



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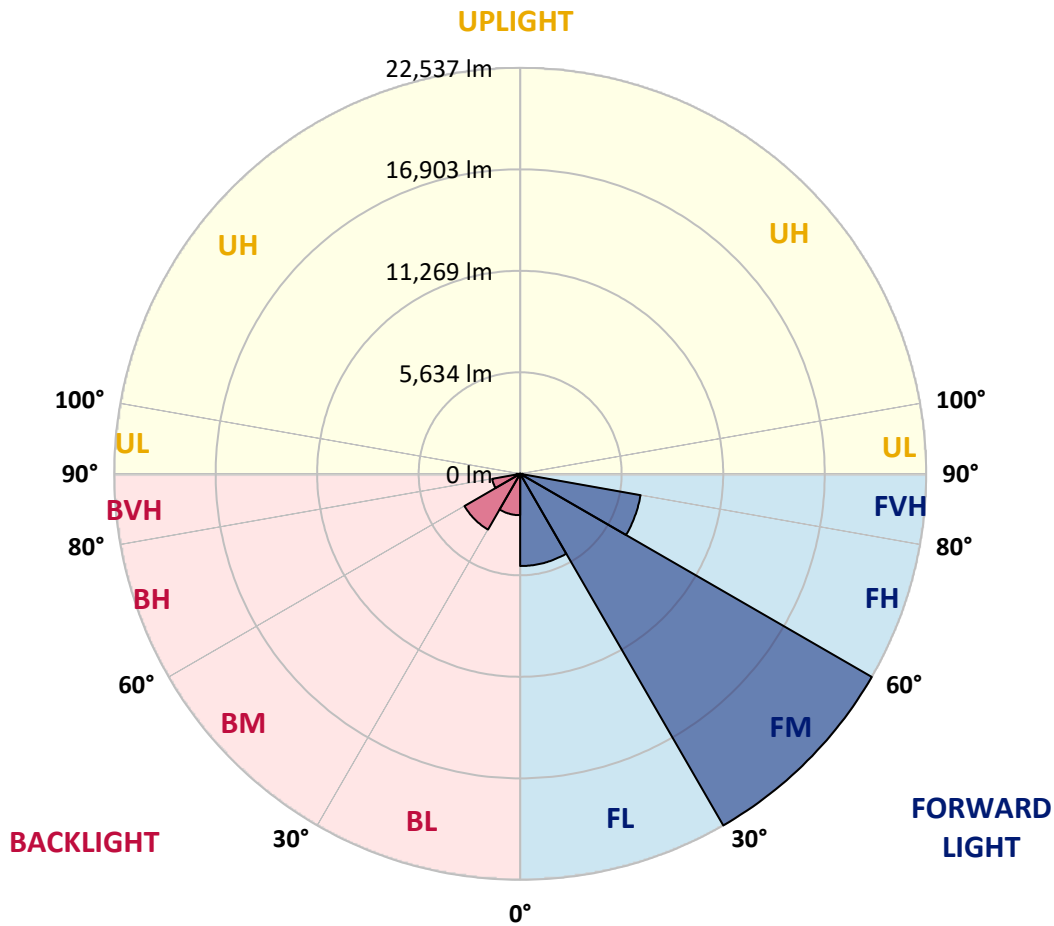
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5118.0	12.1			
FM (30°-60°)	22537.4	53.4			
FH (60°-80°)	6789.0	16.1			G3/7500
FVH (80°-90°)	142.7	0.3			G2/225
BL (0°-30°)	2296.6	5.4	B3/2500		
BM (30°-60°)	3571.3	8.5	B3/5000		
BH (60°-80°)	1578.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	195.0	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°	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0
2.5°	12139.6	12130.9	12178.9	12015.2	11903.9	11753.2	11554.6	11301.4	11028.5	10740.3
5°	13233.3	13156.9	13207.1	13084.9	12962.6	12735.6	12440.9	12028.3	11524.0	10949.9
7.5°	13060.8	13008.5	13137.3	13246.4	13338.1	13309.7	13093.6	12661.4	12010.8	11176.9
10°	11670.3	11611.3	11792.5	12170.2	12724.7	13207.1	13469.1	13200.6	12508.5	11425.8
12.5°	10443.4	10415.1	10535.1	10840.7	11456.3	12381.9	13421.0	13672.1	13025.9	11720.5
15°	9919.5	9884.6	9961.0	10116.0	10508.9	11371.2	12984.4	13995.2	13534.6	12061.0
17.5°	9803.8	9764.5	9797.3	9878.0	10131.3	10788.4	12325.2	14154.5	14065.0	12440.9
20°	10017.8	9985.0	9989.4	9985.0	10161.8	10683.6	11866.7	14093.4	14527.8	12790.2
22.5°	10535.1	10480.5	10482.7	10367.0	10463.1	10866.9	11746.7	13929.7	14940.4	13095.8
25°	11377.8	11279.5	11299.2	11004.5	10978.3	11277.3	11934.4	13803.1	15350.8	13340.3
27.5°	12530.4	12419.0	12360.1	11921.3	11711.8	11860.2	12316.4	13846.7	15739.4	13552.0
30°	13971.2	13835.8	13715.7	13093.6	12713.8	12659.2	12910.2	14134.9	16197.8	13774.7
32.5°	15737.2	15580.0	15361.7	14536.5	14001.7	13715.7	13678.6	14647.9	16734.8	14058.5
35°	17839.4	17634.2	17324.2	16256.7	15580.0	14995.0	14691.5	15387.9	17470.5	14486.3
37.5°	20004.9	19773.5	19489.8	18219.3	17387.5	16525.3	15927.1	16392.1	18450.7	15067.0
40°	22002.4	21742.6	21478.5	20347.7	19454.8	18415.7	17439.9	17662.6	19649.1	15761.2
42.5°	23181.2	22989.1	22888.7	22277.4	21587.6	20533.2	19321.7	19168.9	20996.0	16560.2
45°	23128.8	23050.2	23360.2	23613.4	23449.7	22864.7	21526.5	20834.5	22347.3	17252.2
47.5°	21893.2	21945.6	22637.6	24060.9	24687.5	24993.1	24036.9	22469.5	23521.7	17769.6
50°	18531.4	18575.1	20177.4	23246.7	25006.2	26728.6	26527.7	24065.3	24432.1	18086.1
52.5°	15870.4	15898.7	16586.4	20832.3	23954.0	27601.8	28771.8	25569.4	25097.9	18173.4
55°	11954.1	12052.3	12822.9	16344.1	21216.5	26909.8	30138.4	27119.3	25519.2	18182.1
57.5°	6983.4	7090.4	8042.1	11094.0	16490.3	24497.5	30345.8	28494.6	25805.2	18112.3
60°	3420.7	3466.6	3881.4	5830.8	10168.4	19850.0	28678.0	29160.4	25964.5	18075.2
62.5°	2305.2	2298.7	2316.2	2877.2	5010.0	12753.0	25202.7	27994.7	25879.4	17933.3
65°	1982.2	1958.1	1892.7	2019.3	2595.6	5833.0	19472.3	24515.0	25231.0	17577.5
67.5°	1713.6	1715.8	1718.0	1678.7	1853.4	2691.6	11899.5	19310.8	22904.0	15892.2
70°	1418.9	1438.6	1447.3	1447.3	1510.6	1766.0	5079.8	13235.5	18066.4	12460.5
72.5°	1292.3	1250.9	1255.2	1233.4	1233.4	1344.7	2045.5	7502.9	11382.1	7009.6
75°	1054.4	1080.6	1084.9	1069.7	1019.5	1026.0	1213.7	3147.9	4870.3	2907.7
77.5°	910.3	910.3	919.0	908.1	868.8	768.4	809.9	1220.3	1656.9	1191.9
80°	731.3	729.1	766.2	788.1	726.9	567.6	517.4	674.5	735.7	523.9
82.5°	355.8	377.7	526.1	600.3	552.3	410.4	316.5	419.1	392.9	231.4
85°	207.4	196.5	235.8	334.0	316.5	227.0	152.8	218.3	205.2	117.9
87.5°	65.5	61.1	48.0	113.5	91.7	63.3	41.5	63.3	56.8	26.2
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°
10581.0	0°	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0	10581.0
10615.9	2.5°	10460.9	10203.3	9947.9	9714.3	9572.4	9480.7	9389.1	9286.5	9247.2	9188.2
10644.3	5°	10356.1	9858.4	9415.2	9033.2	8686.1	8413.3	8138.2	7915.5	7815.1	7882.8
10733.8	7.5°	10295.0	9574.6	8891.3	8190.6	7516.0	6976.8	6507.5	6177.9	6029.4	6066.5
10821.1	10°	10240.4	9253.7	8212.4	7105.6	6136.4	5468.4	4988.1	4737.1	4643.2	4662.9
10939.0	12.5°	10190.2	8893.5	7393.8	5937.7	4907.4	4466.4	4328.9	4331.1	4348.5	4361.6
11126.7	15°	10181.5	8459.1	6479.1	4916.1	4243.7	4215.4	4363.8	4457.7	4507.9	4523.2
11283.9	17.5°	10168.4	7939.5	5547.0	4219.7	4082.2	4274.3	4411.8	4473.0	4512.2	4514.4
11436.7	20°	10116.0	7280.3	4686.9	3887.9	4047.3	4213.2	4298.3	4346.3	4379.1	4390.0
11552.4	22.5°	9954.4	6546.8	4016.7	3739.5	3907.6	4040.7	4141.1	4195.7	4215.4	4228.5
11574.2	25°	9664.1	5726.0	3553.9	3597.6	3713.3	3881.4	3962.1	3973.0	3966.5	3986.1
11519.7	27.5°	9284.3	4846.2	3265.8	3405.5	3553.9	3698.0	3741.6	3735.1	3722.0	3743.8
11425.8	30°	8825.8	4056.0	3082.4	3189.4	3392.4	3523.4	3562.6	3547.4	3521.2	3545.2
11377.8	32.5°	8341.2	3409.8	2931.8	3038.7	3259.2	3388.0	3427.3	3412.0	3392.4	3412.0
11432.3	35°	7889.3	2958.0	2792.0	2938.3	3154.4	3281.0	3331.2	3333.4	3333.4	3357.4
11576.4	37.5°	7474.6	2693.8	2676.3	2875.0	3082.4	3195.9	3267.9	3272.3	3178.4	3185.0
11820.9	40°	7090.4	2582.5	2624.0	2833.5	3012.5	3121.7	3126.0	2881.6	2709.1	2704.7
12100.3	42.5°	6776.0	2560.7	2639.2	2829.2	2962.3	2966.7	2658.9	2469.0	2420.9	2423.1
12357.9	45°	6481.3	2554.1	2674.2	2829.2	2888.1	2562.8	2355.4	2305.2	2309.6	2327.1
12473.6	47.5°	6151.7	2527.9	2680.7	2789.9	2674.2	2279.0	2217.9	2196.1	2187.4	2191.7
12447.4	50°	5791.5	2434.0	2597.8	2711.3	2307.4	2156.8	2080.4	2073.8	2084.8	2091.3
12301.2	52.5°	5411.6	2281.2	2455.9	2569.4	2139.3	2049.8	1964.7	1980.0	2028.0	2043.3
12148.4	55°	5162.8	2102.2	2268.1	2285.6	2021.5	1949.4	1877.4	1912.3	2001.8	2030.2
12056.7	57.5°	5097.3	1912.3	2054.2	2034.5	1870.8	1862.1	1818.4	1849.0	1962.5	2004.0
12052.3	60°	5077.6	1742.0	1844.6	1829.3	1724.6	1766.0	1755.1	1770.4	1809.7	1822.8
12008.6	62.5°	4924.8	1606.7	1656.9	1635.1	1593.6	1665.6	1691.8	1659.1	1689.6	1704.9
11709.6	65°	4536.3	1497.5	1473.5	1458.2	1475.7	1541.2	1593.6	1528.1	1556.5	1600.1
10557.0	67.5°	3894.5	1349.1	1283.6	1301.1	1355.6	1390.6	1458.2	1384.0	1408.0	1482.3
8502.8	70°	3150.1	1161.4	1102.4	1152.6	1205.0	1277.1	1288.0	1237.8	1294.5	1377.5
5189.0	72.5°	2228.8	971.4	930.0	1032.6	1050.0	1143.9	1119.9	1095.9	1174.5	1202.8
2565.0	75°	1545.6	783.7	759.7	838.3	901.6	982.3	964.9	993.3	1159.2	1172.3
1281.4	77.5°	978.0	609.1	593.8	644.0	731.3	820.8	849.2	1172.3	1980.0	2058.6
665.8	80°	567.6	454.1	436.6	475.9	552.3	635.3	818.6	1438.6	1305.4	1290.1
299.1	82.5°	316.5	312.2	290.3	301.3	368.9	458.4	1157.0	1012.9	823.0	849.2
120.1	85°	148.4	183.4	157.2	150.6	207.4	537.0	772.8	578.5	384.2	375.5
26.2	87.5°	39.3	34.9	34.9	39.3	87.3	462.8	307.8	246.7	146.3	141.9
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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