

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: P947416

Luminaire Tested: **GALN-SB2D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947416
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-SB2D-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21897 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

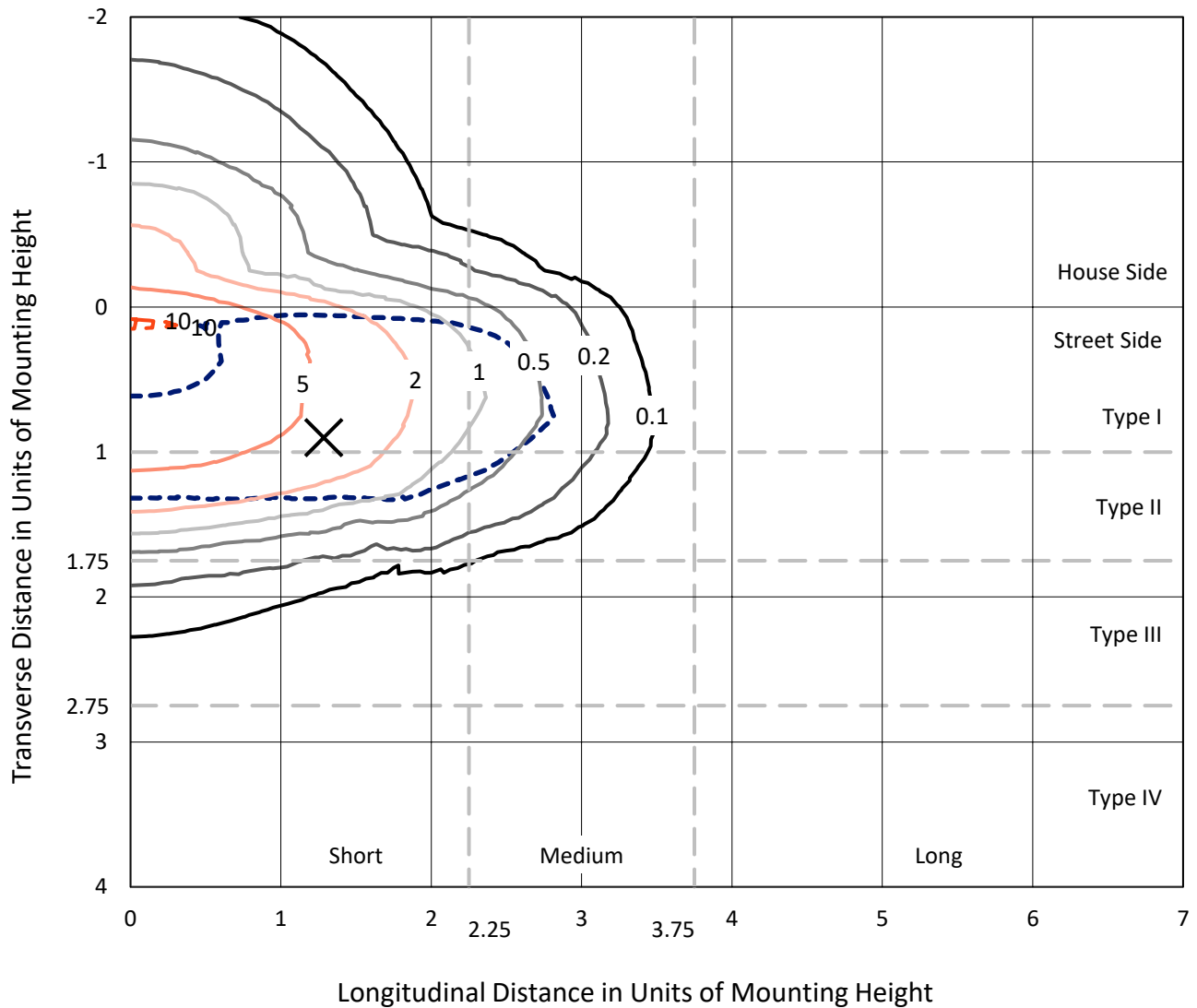
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

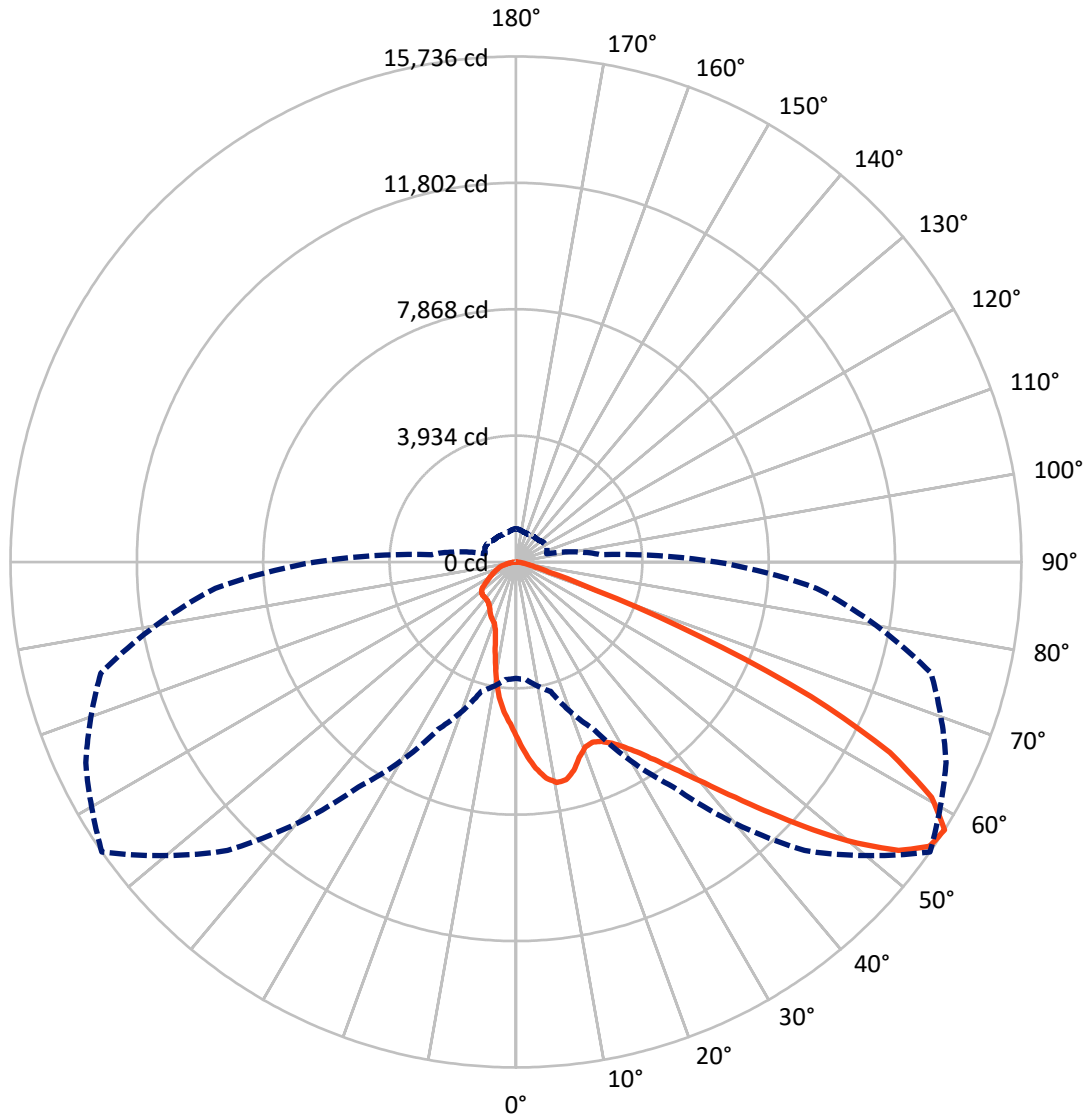
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	3962.2	0.0	3962.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17934.8	0.0	17934.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	21897.0	0.0	21897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	2.3
10°-20°	1285.1	5.9
20°-30°	2050.6	9.4
30°-40°	3246.6	14.8
40°-50°	4969.3	22.7
50°-60°	5322.6	24.3
60°-70°	3348.4	15.3
70°-80°	990.2	4.5
80°-90°	175.1	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°	21897.0	100.0
0°-180°	21897.0	100.0

Coefficient of Utilization



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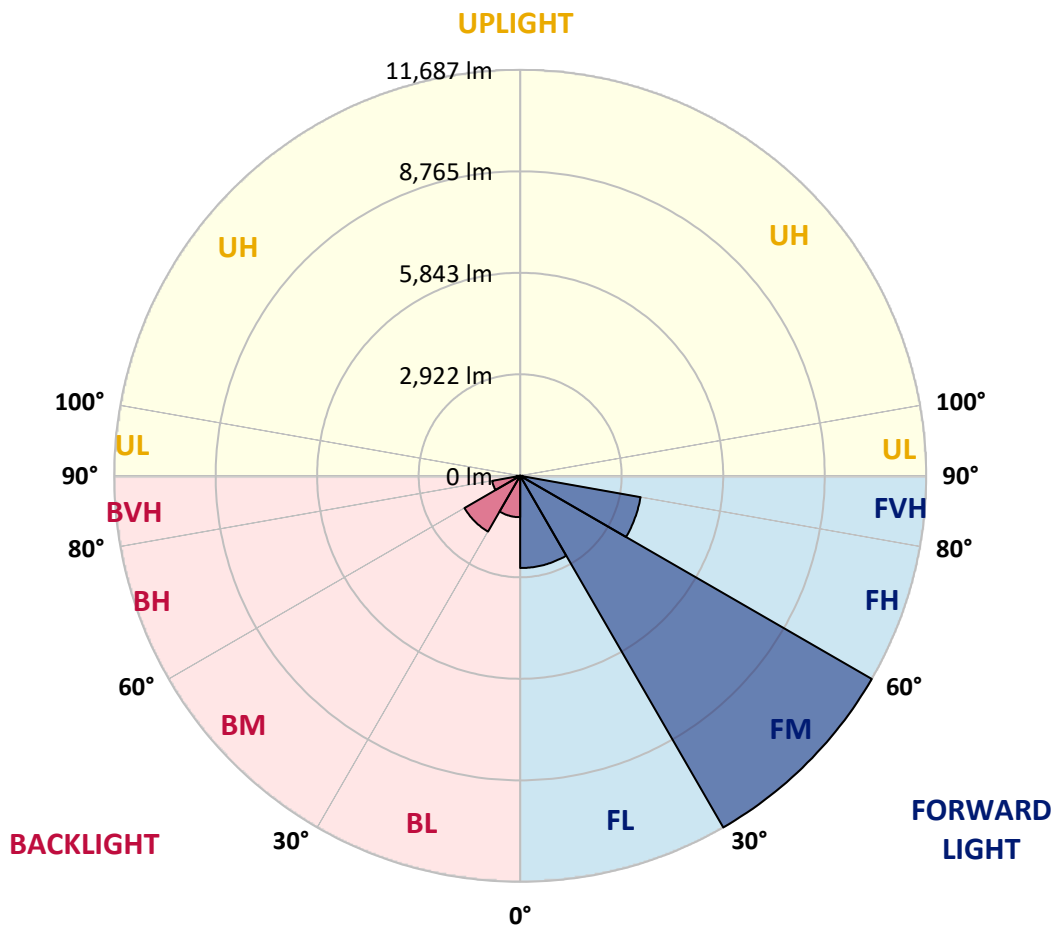
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.9	12.1			
FM (30°-60°)	11686.6	53.4			
FH (60°-80°)	3520.4	16.1			G2/5000
FVH (80°-90°)	74.0	0.3			G1/100
BL (0°-30°)	1190.9	5.4	B3/2500		
BM (30°-60°)	1851.9	8.5	B2/2500		
BH (60°-80°)	818.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	101.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7
2.5°	6294.9	6290.4	6315.3	6230.4	6172.7	6094.5	5991.5	5860.2	5718.7	5569.3
5°	6862.0	6822.4	6848.4	6785.1	6721.7	6603.9	6451.1	6237.2	5975.7	5678.0
7.5°	6772.6	6745.4	6812.2	6868.8	6916.4	6901.6	6789.6	6565.4	6228.1	5795.7
10°	6051.5	6021.0	6114.9	6310.8	6598.3	6848.4	6984.3	6845.0	6486.2	5924.8
12.5°	5415.4	5400.6	5462.9	5621.4	5940.6	6420.6	6959.4	7089.6	6754.5	6077.6
15°	5143.7	5125.6	5165.2	5245.6	5449.3	5896.5	6733.0	7257.1	7018.2	6254.2
17.5°	5083.7	5063.3	5080.3	5122.2	5253.5	5594.2	6391.1	7339.7	7293.3	6451.1
20°	5194.6	5177.6	5179.9	5177.6	5269.3	5539.9	6153.4	7308.0	7533.3	6632.2
22.5°	5462.9	5434.6	5435.7	5375.7	5425.6	5635.0	6091.2	7223.1	7747.2	6790.7
25°	5899.8	5848.9	5859.1	5706.3	5692.7	5847.8	6188.5	7157.5	7960.0	6917.5
27.5°	6497.5	6439.8	6409.2	6181.7	6073.0	6150.0	6386.6	7180.1	8161.5	7027.3
30°	7244.6	7174.5	7112.2	6789.6	6592.6	6564.3	6694.5	7329.5	8399.2	7142.8
32.5°	8160.4	8078.9	7965.7	7537.8	7260.5	7112.2	7092.9	7595.5	8677.7	7289.9
35°	9250.5	9144.1	8983.3	8429.8	8078.9	7775.5	7618.2	7979.3	9059.2	7511.8
37.5°	10373.4	10253.4	10106.3	9447.5	9016.2	8569.0	8258.9	8500.0	9567.4	7812.9
40°	11409.2	11274.5	11137.5	10551.1	10088.2	9549.3	9043.3	9158.8	10188.9	8172.9
42.5°	12020.4	11920.8	11868.7	11551.8	11194.1	10647.3	10019.1	9939.9	10887.3	8587.2
45°	11993.3	11952.5	12113.3	12244.6	12159.7	11856.3	11162.4	10803.6	11588.0	8946.0
47.5°	11352.6	11379.7	11738.6	12476.6	12801.5	12960.0	12464.2	11651.4	12197.0	9214.3
50°	9609.3	9632.0	10462.8	12054.4	12966.8	13859.9	13755.7	12478.9	12669.1	9378.4
52.5°	8229.5	8244.2	8600.7	10802.4	12421.1	14312.7	14919.4	13258.8	13014.3	9423.7
55°	6198.7	6249.6	6649.2	8475.1	11001.7	13953.8	15628.0	14062.5	13232.8	9428.2
57.5°	3621.2	3676.7	4170.2	5752.7	8550.9	12703.0	15735.6	14775.7	13381.1	9392.0
60°	1773.8	1797.6	2012.6	3023.5	5272.7	10293.0	14870.7	15120.9	13463.7	9372.7
62.5°	1195.4	1192.0	1201.0	1491.9	2597.9	6613.0	13068.6	14516.4	13419.6	9299.2
65°	1027.8	1015.4	981.4	1047.1	1345.9	3024.6	10097.2	12712.1	13083.4	9114.7
67.5°	888.6	889.7	890.9	870.5	961.0	1395.7	6170.4	10013.4	11876.7	8240.8
70°	735.8	746.0	750.5	750.5	783.3	915.8	2634.1	6863.2	9368.2	6461.3
72.5°	670.1	648.6	650.9	639.6	639.6	697.3	1060.7	3890.6	5902.1	3634.8
75°	546.7	560.3	562.6	554.7	528.6	532.0	629.4	1632.3	2525.4	1507.8
77.5°	472.0	472.0	476.6	470.9	450.5	398.5	420.0	632.8	859.2	618.1
80°	379.2	378.1	397.3	408.6	376.9	294.3	268.3	349.8	381.5	271.7
82.5°	184.5	195.8	272.8	311.3	286.4	212.8	164.1	217.3	203.8	120.0
85°	107.5	101.9	122.3	173.2	164.1	117.7	79.2	113.2	106.4	61.1
87.5°	34.0	31.7	24.9	58.9	47.5	32.8	21.5	32.8	29.4	13.6
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°
5486.7	0°	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7	5486.7
5504.8	2.5°	5424.4	5290.8	5158.4	5037.3	4963.7	4916.2	4868.6	4815.4	4795.0	4764.5
5519.5	5°	5370.1	5112.0	4882.2	4684.1	4504.1	4362.6	4220.0	4104.5	4052.5	4087.6
5565.9	7.5°	5338.4	4964.8	4610.5	4247.2	3897.4	3617.8	3374.4	3203.5	3126.5	3145.8
5611.2	10°	5310.1	4798.4	4258.5	3684.6	3182.0	2835.6	2586.6	2456.4	2407.7	2417.9
5672.3	12.5°	5284.1	4611.7	3834.0	3079.0	2544.7	2316.0	2244.7	2245.8	2254.9	2261.7
5769.7	15°	5279.5	4386.4	3359.7	2549.2	2200.6	2185.8	2262.8	2311.5	2337.5	2345.4
5851.2	17.5°	5272.7	4117.0	2876.3	2188.1	2116.8	2216.4	2287.7	2319.4	2339.8	2340.9
5930.4	20°	5245.6	3775.1	2430.3	2016.0	2098.7	2184.7	2228.9	2253.8	2270.7	2276.4
5990.4	22.5°	5161.8	3394.8	2082.8	1939.1	2026.2	2095.3	2147.4	2175.7	2185.8	2192.6
6001.7	25°	5011.2	2969.2	1842.9	1865.5	1925.5	2012.6	2054.5	2060.2	2056.8	2067.0
5973.4	27.5°	4814.3	2513.0	1693.4	1765.9	1842.9	1917.6	1940.2	1936.8	1930.0	1941.3
5924.8	30°	4576.6	2103.2	1598.3	1653.8	1759.1	1827.0	1847.4	1839.5	1825.9	1838.3
5899.8	32.5°	4325.3	1768.1	1520.2	1575.7	1690.0	1756.8	1777.2	1769.3	1759.1	1769.3
5928.1	35°	4091.0	1533.8	1447.8	1523.6	1635.7	1701.4	1727.4	1728.5	1728.5	1741.0
6002.9	37.5°	3875.9	1396.9	1387.8	1490.8	1598.3	1657.2	1694.6	1696.8	1648.2	1651.5
6129.6	40°	3676.7	1339.1	1360.6	1469.3	1562.1	1618.7	1621.0	1494.2	1404.8	1402.5
6274.5	42.5°	3513.6	1327.8	1368.6	1467.0	1536.1	1538.4	1378.7	1280.3	1255.4	1256.5
6408.1	45°	3360.8	1324.4	1386.7	1467.0	1497.6	1328.9	1221.4	1195.4	1197.6	1206.7
6468.1	47.5°	3189.9	1310.8	1390.1	1446.7	1386.7	1181.8	1150.1	1138.8	1134.2	1136.5
6454.5	50°	3003.1	1262.2	1347.0	1405.9	1196.5	1118.4	1078.8	1075.4	1081.0	1084.4
6378.7	52.5°	2806.2	1182.9	1273.5	1332.3	1109.3	1062.9	1018.8	1026.7	1051.6	1059.5
6299.4	55°	2677.1	1090.1	1176.1	1185.2	1048.2	1010.9	973.5	991.6	1038.0	1052.7
6251.9	57.5°	2643.2	991.6	1065.2	1055.0	970.1	965.6	942.9	958.8	1017.6	1039.2
6249.6	60°	2633.0	903.3	956.5	948.6	894.3	915.8	910.1	918.0	938.4	945.2
6227.0	62.5°	2553.7	833.1	859.2	847.8	826.3	863.7	877.3	860.3	876.1	884.1
6071.9	65°	2352.2	776.5	764.1	756.2	765.2	799.2	826.3	792.4	807.1	829.7
5474.2	67.5°	2019.4	699.6	665.6	674.7	703.0	721.1	756.2	717.7	730.1	768.6
4409.0	70°	1633.4	602.2	571.6	597.7	624.8	662.2	667.9	641.8	671.3	714.3
2690.7	72.5°	1155.7	503.7	482.2	535.4	544.5	593.2	580.7	568.3	609.0	623.7
1330.1	75°	801.4	406.4	393.9	434.7	467.5	509.4	500.3	515.0	601.1	607.9
664.5	77.5°	507.1	315.8	307.9	333.9	379.2	425.6	440.3	607.9	1026.7	1067.5
345.3	80°	294.3	235.5	226.4	246.8	286.4	329.4	424.5	746.0	676.9	669.0
155.1	82.5°	164.1	161.9	150.6	156.2	191.3	237.7	599.9	525.2	426.8	440.3
62.3	85°	77.0	95.1	81.5	78.1	107.5	278.5	400.7	300.0	199.2	194.7
13.6	87.5°	20.4	18.1	18.1	20.4	45.3	240.0	159.6	127.9	75.8	73.6
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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