

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: P947059

Luminaire Tested: **GALN-SB2C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947059
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-SB2C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16115 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

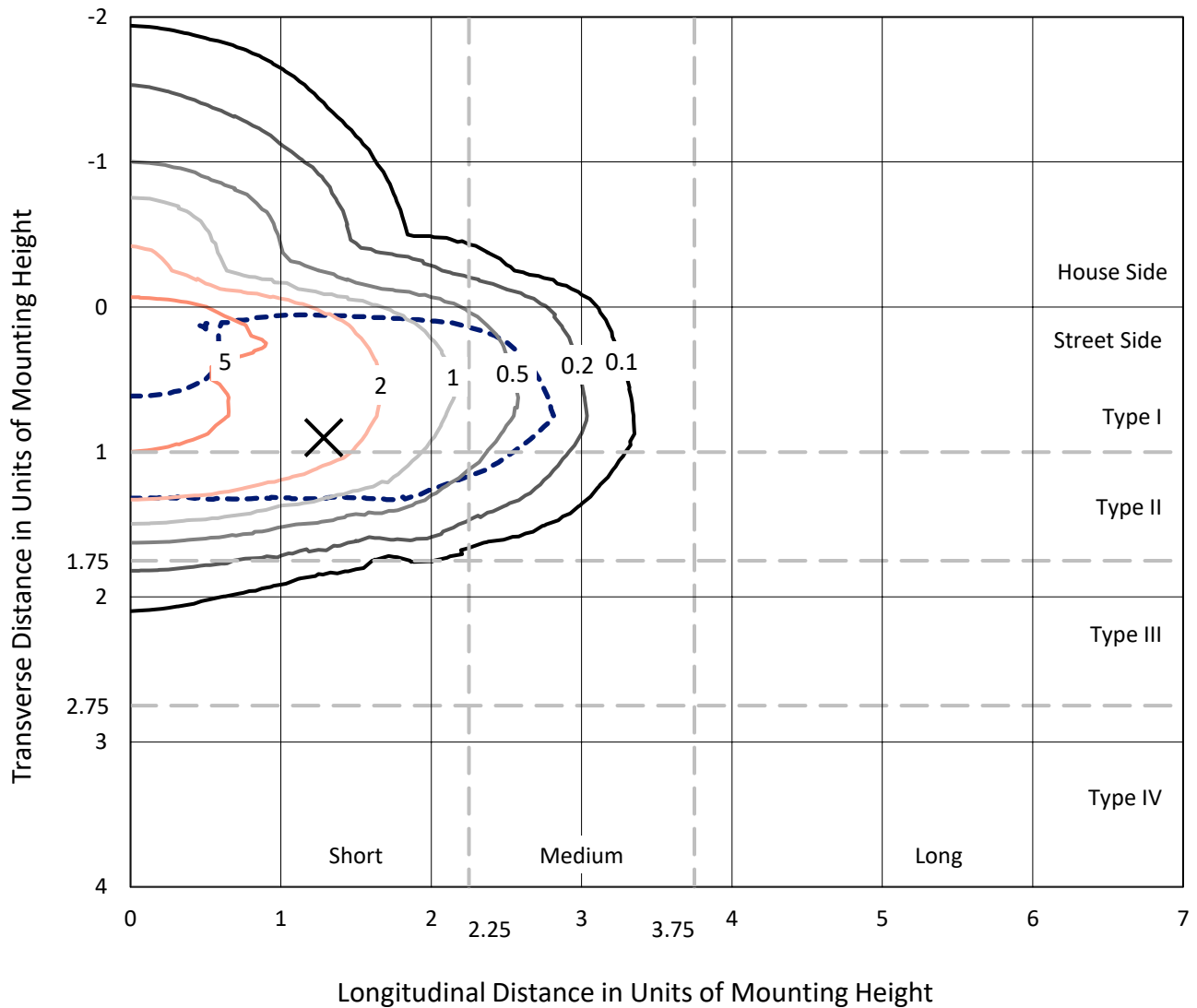
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

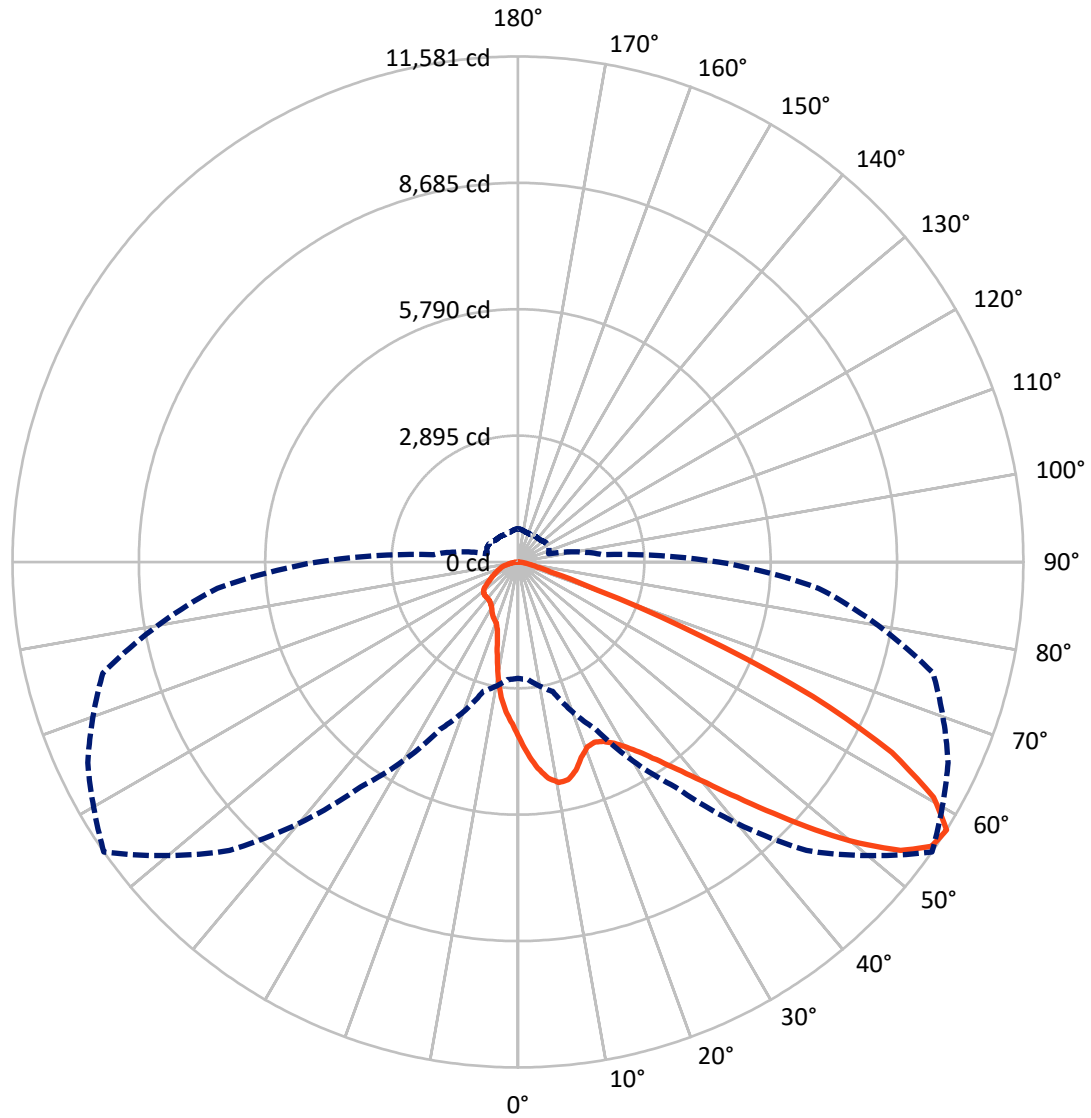
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2915.9	0.0	2915.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13199.1	0.0	13199.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	16115.0	0.0	16115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	2.3
10°-20°	945.7	5.9
20°-30°	1509.1	9.4
30°-40°	2389.3	14.8
40°-50°	3657.1	22.7
50°-60°	3917.1	24.3
60°-70°	2464.3	15.3
70°-80°	728.7	4.5
80°-90°	128.8	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°	16115.0	100.0
0°-180°	16115.0	100.0

Coefficient of Utilization



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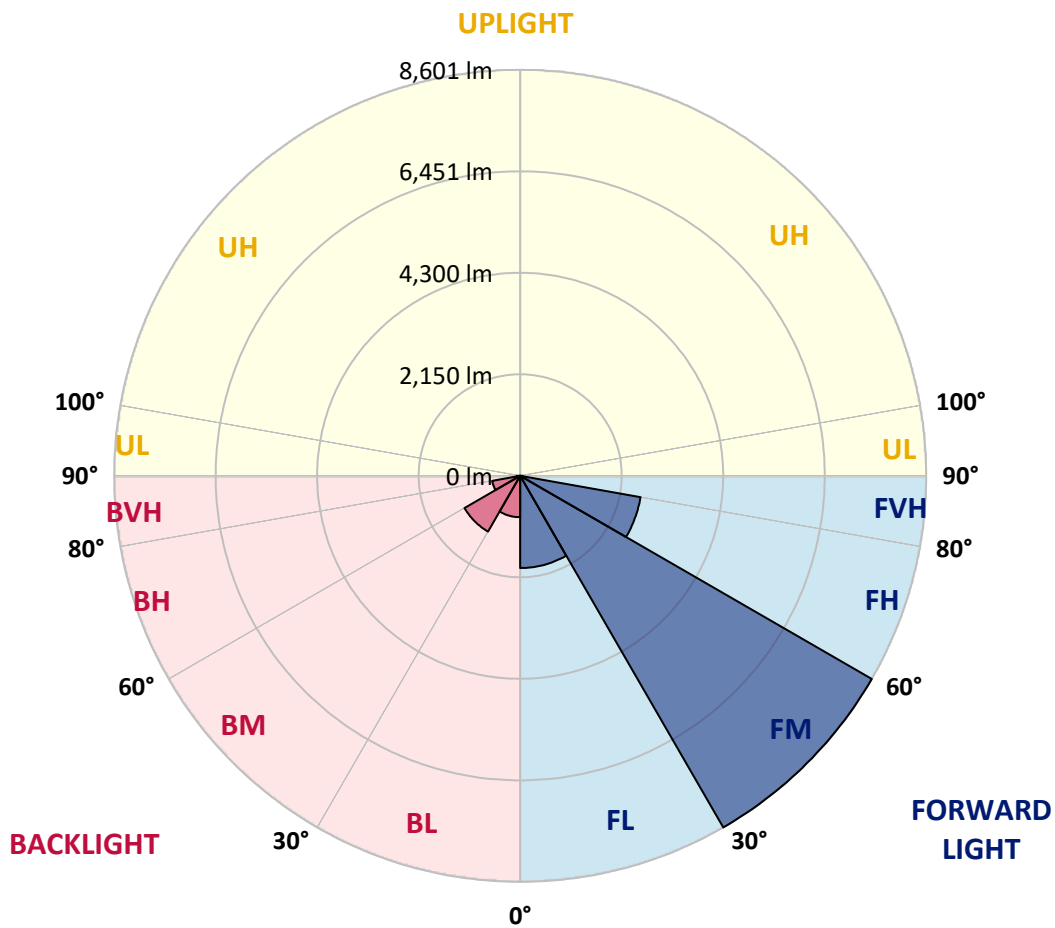
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.1	12.1			
FM (30°-60°)	8600.7	53.4			
FH (60°-80°)	2590.8	16.1			G2/5000
FVH (80°-90°)	54.4	0.3			G1/100
BL (0°-30°)	876.4	5.4	B2/1000		
BM (30°-60°)	1362.9	8.5	B2/2500		
BH (60°-80°)	602.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	74.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9
2.5°	4632.7	4629.4	4647.7	4585.2	4542.7	4485.3	4409.4	4312.8	4208.7	4098.7
5°	5050.1	5020.9	5040.1	4993.4	4946.8	4860.1	4747.7	4590.2	4397.8	4178.7
7.5°	4984.3	4964.3	5013.4	5055.1	5090.1	5079.2	4996.8	4831.8	4583.6	4265.3
10°	4453.6	4431.1	4500.3	4644.4	4856.0	5040.1	5140.0	5037.6	4773.5	4360.3
12.5°	3985.4	3974.6	4020.4	4137.0	4372.0	4725.2	5121.7	5217.5	4970.9	4472.8
15°	3785.5	3772.1	3801.3	3860.5	4010.4	4339.5	4955.1	5340.8	5165.0	4602.7
17.5°	3741.3	3726.3	3738.8	3769.6	3866.3	4117.0	4703.5	5401.6	5367.5	4747.7
20°	3823.0	3810.5	3812.1	3810.5	3877.9	4077.1	4528.6	5378.3	5544.1	4881.0
22.5°	4020.4	3999.6	4000.4	3956.3	3992.9	4147.0	4482.8	5315.8	5701.5	4997.6
25°	4342.0	4304.5	4312.0	4199.5	4189.5	4303.6	4554.4	5267.5	5858.2	5090.9
27.5°	4781.8	4739.3	4716.8	4549.4	4469.4	4526.1	4700.2	5284.2	6006.4	5171.7
30°	5331.7	5280.0	5234.2	4996.8	4851.8	4831.0	4926.8	5394.1	6181.4	5256.7
32.5°	6005.6	5945.6	5862.3	5547.4	5343.3	5234.2	5220.0	5589.9	6386.3	5365.0
35°	6807.9	6729.5	6611.3	6203.9	5945.6	5722.4	5606.6	5872.3	6667.1	5528.3
37.5°	7634.3	7546.0	7437.7	6952.8	6635.4	6306.3	6078.1	6255.5	7041.1	5749.9
40°	8396.5	8297.4	8196.6	7765.1	7424.3	7027.8	6655.4	6740.4	7498.5	6014.8
42.5°	8846.4	8773.1	8734.8	8501.5	8238.2	7835.9	7373.5	7315.2	8012.5	6319.7
45°	8826.4	8796.4	8914.7	9011.3	8948.9	8725.6	8214.9	7950.8	8528.1	6583.8
47.5°	8354.9	8374.9	8638.9	9182.1	9421.2	9537.8	9172.9	8574.8	8976.3	6781.2
50°	7071.9	7088.6	7700.1	8871.4	9542.8	10200.1	10123.5	9183.8	9323.7	6902.0
52.5°	6056.4	6067.3	6329.7	7950.0	9141.3	10533.4	10979.9	9757.8	9577.8	6935.3
55°	4561.9	4599.4	4893.5	6237.2	8096.6	10269.3	11501.4	10349.2	9738.6	6938.6
57.5°	2665.0	2705.8	3069.0	4233.7	6293.0	9348.7	11580.5	10874.1	9847.7	6912.0
60°	1305.4	1322.9	1481.2	2225.1	3880.4	7575.1	10944.1	11128.2	9908.5	6897.8
62.5°	879.7	877.2	883.9	1098.0	1911.9	4866.8	9617.8	10683.3	9876.1	6843.7
65°	756.4	747.3	722.3	770.6	990.5	2226.0	7431.0	9355.4	9628.6	6707.9
67.5°	654.0	654.8	655.6	640.6	707.3	1027.2	4541.1	7369.3	8740.6	6064.8
70°	541.5	549.0	552.3	552.3	576.5	674.0	1938.6	5050.9	6894.5	4755.2
72.5°	493.2	477.3	479.0	470.7	470.7	513.2	780.6	2863.3	4343.6	2675.0
75°	402.4	412.4	414.0	408.2	389.0	391.5	463.2	1201.3	1858.6	1109.7
77.5°	347.4	347.4	350.7	346.6	331.6	293.2	309.1	465.7	632.3	454.9
80°	279.1	278.2	292.4	300.7	277.4	216.6	197.4	257.4	280.7	199.9
82.5°	135.8	144.1	200.8	229.1	210.8	156.6	120.8	159.9	150.0	88.3
85°	79.1	75.0	90.0	127.5	120.8	86.6	58.3	83.3	78.3	45.0
87.5°	25.0	23.3	18.3	43.3	35.0	24.2	15.8	24.2	21.7	10.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4037.9	0°	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9
4051.2	2.5°	3992.1	3893.8	3796.3	3707.2	3653.0	3618.0	3583.0	3543.9	3528.9	3506.4
4062.1	5°	3952.1	3762.1	3593.0	3447.2	3314.8	3210.7	3105.7	3020.7	2982.4	3008.2
4096.2	7.5°	3928.8	3653.9	3393.1	3125.7	2868.3	2662.5	2483.4	2357.6	2300.9	2315.1
4129.5	10°	3907.9	3531.4	3134.0	2711.6	2341.8	2086.8	1903.6	1807.8	1771.9	1779.4
4174.5	12.5°	3888.8	3393.9	2821.6	2266.0	1872.7	1704.5	1652.0	1652.8	1659.5	1664.5
4246.2	15°	3885.4	3228.2	2472.6	1876.1	1619.5	1608.7	1665.3	1701.1	1720.3	1726.1
4306.1	17.5°	3880.4	3029.9	2116.8	1610.3	1557.8	1631.2	1683.6	1707.0	1722.0	1722.8
4364.5	20°	3860.5	2778.3	1788.6	1483.7	1544.5	1607.8	1640.3	1658.6	1671.1	1675.3
4408.6	22.5°	3798.8	2498.4	1532.9	1427.1	1491.2	1542.0	1580.3	1601.2	1608.7	1613.7
4416.9	25°	3688.0	2185.1	1356.2	1372.9	1417.1	1481.2	1512.0	1516.2	1513.7	1521.2
4396.1	27.5°	3543.1	1849.4	1246.3	1299.6	1356.2	1411.2	1427.9	1425.4	1420.4	1428.7
4360.3	30°	3368.1	1547.8	1176.3	1217.1	1294.6	1344.6	1359.6	1353.7	1343.7	1352.9
4342.0	32.5°	3183.2	1301.3	1118.8	1159.6	1243.8	1292.9	1307.9	1302.1	1294.6	1302.1
4362.8	35°	3010.7	1128.8	1065.5	1121.3	1203.8	1252.1	1271.3	1272.1	1272.1	1281.3
4417.8	37.5°	2852.4	1028.0	1021.3	1097.2	1176.3	1219.6	1247.1	1248.8	1213.0	1215.5
4511.1	40°	2705.8	985.5	1001.4	1081.3	1149.6	1191.3	1193.0	1099.7	1033.8	1032.2
4617.7	42.5°	2585.9	977.2	1007.2	1079.7	1130.5	1132.1	1014.7	942.2	923.9	924.7
4716.0	45°	2473.4	974.7	1020.5	1079.7	1102.2	978.0	898.9	879.7	881.4	888.1
4760.2	47.5°	2347.6	964.7	1023.0	1064.7	1020.5	869.7	846.4	838.1	834.7	836.4
4750.2	50°	2210.1	928.9	991.4	1034.7	880.6	823.1	793.9	791.4	795.6	798.1
4694.4	52.5°	2065.2	870.6	937.2	980.5	816.4	782.3	749.8	755.6	773.9	779.8
4636.0	55°	1970.2	802.2	865.6	872.2	771.4	743.9	716.4	729.8	763.9	774.8
4601.1	57.5°	1945.2	729.8	783.9	776.4	713.9	710.6	693.9	705.6	748.9	764.8
4599.4	60°	1937.7	664.8	703.9	698.1	658.1	674.0	669.8	675.6	690.6	695.6
4582.7	62.5°	1879.4	613.1	632.3	624.0	608.1	635.6	645.6	633.1	644.8	650.6
4468.6	65°	1731.1	571.5	562.3	556.5	563.2	588.1	608.1	583.1	594.0	610.6
4028.7	67.5°	1486.2	514.8	489.8	496.5	517.3	530.7	556.5	528.2	537.3	565.7
3244.8	70°	1202.1	443.2	420.7	439.9	459.9	487.3	491.5	472.4	494.0	525.7
1980.2	72.5°	850.6	370.7	354.9	394.0	400.7	436.5	427.4	418.2	448.2	459.0
978.9	75°	589.8	299.1	289.9	319.9	344.1	374.9	368.2	379.0	442.4	447.4
489.0	77.5°	373.2	232.4	226.6	245.8	279.1	313.2	324.1	447.4	755.6	785.6
254.1	80°	216.6	173.3	166.6	181.6	210.8	242.4	312.4	549.0	498.2	492.3
114.1	82.5°	120.8	119.1	110.8	115.0	140.8	174.9	441.5	386.5	314.1	324.1
45.8	85°	56.6	70.0	60.0	57.5	79.1	204.9	294.9	220.8	146.6	143.3
10.0	87.5°	15.0	13.3	13.3	15.0	33.3	176.6	117.5	94.1	55.8	54.1
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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