

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: P947185

Luminaire Tested: **GALN-SB2C-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947185
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-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14570 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

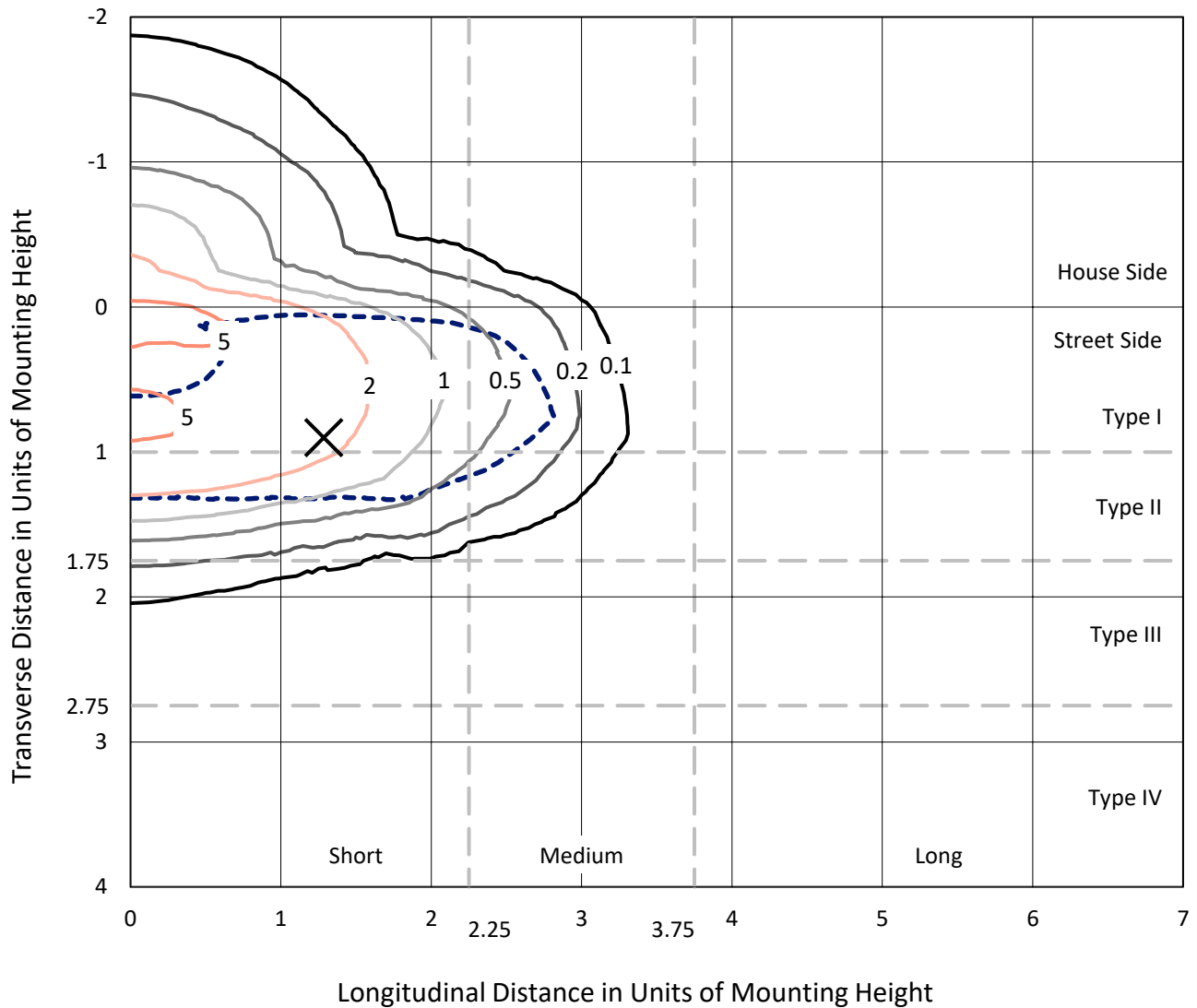
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

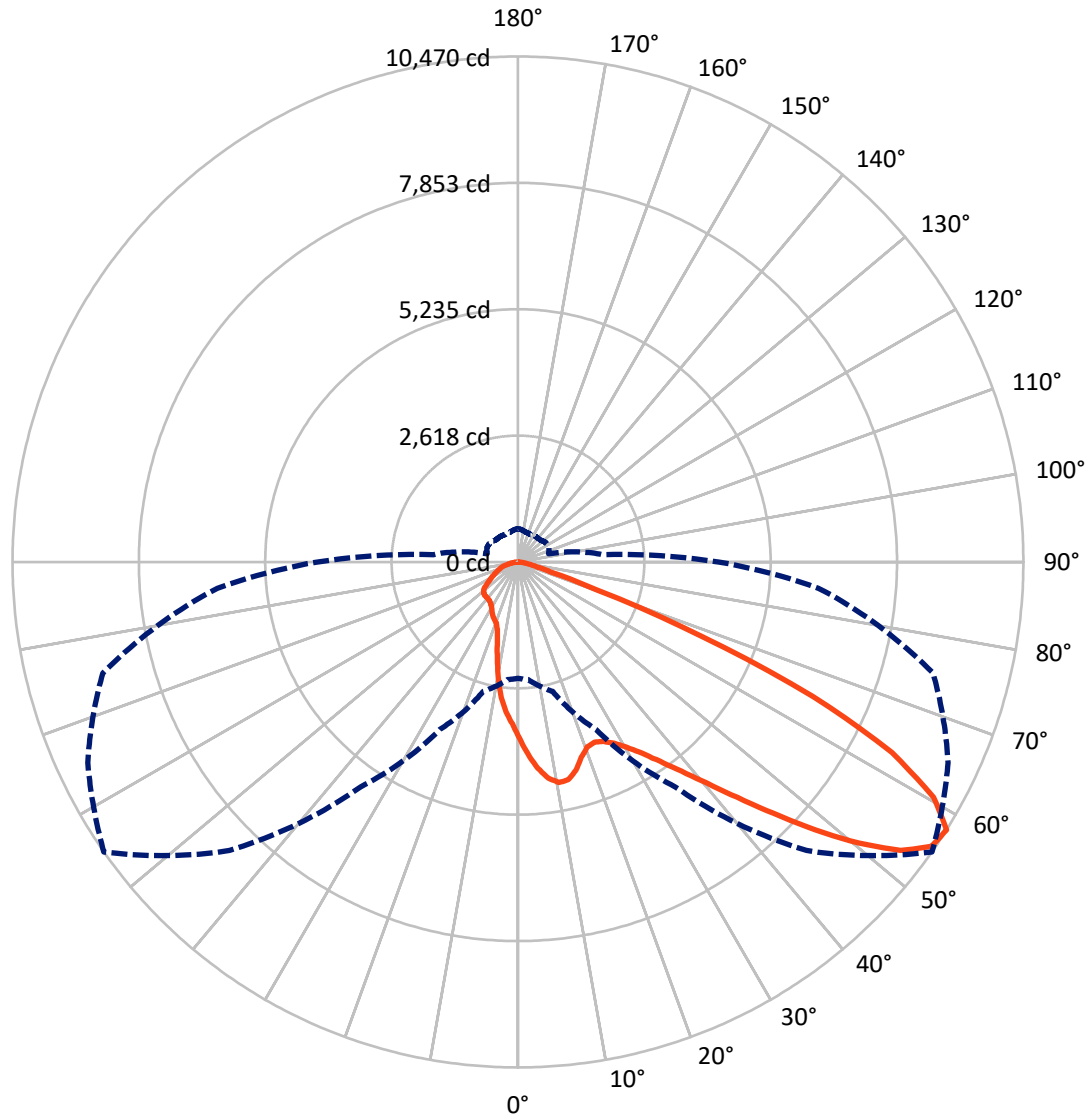
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	2636.4	0.0	2636.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11933.6	0.0	11933.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	14570.0	0.0	14570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.8	2.3
10°-20°	855.1	5.9
20°-30°	1364.5	9.4
30°-40°	2160.3	14.8
40°-50°	3306.5	22.7
50°-60°	3541.6	24.3
60°-70°	2228.0	15.3
70°-80°	658.9	4.5
80°-90°	116.5	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°	14570.0	100.0
0°-180°	14570.0	100.0

Coefficient of Utilization



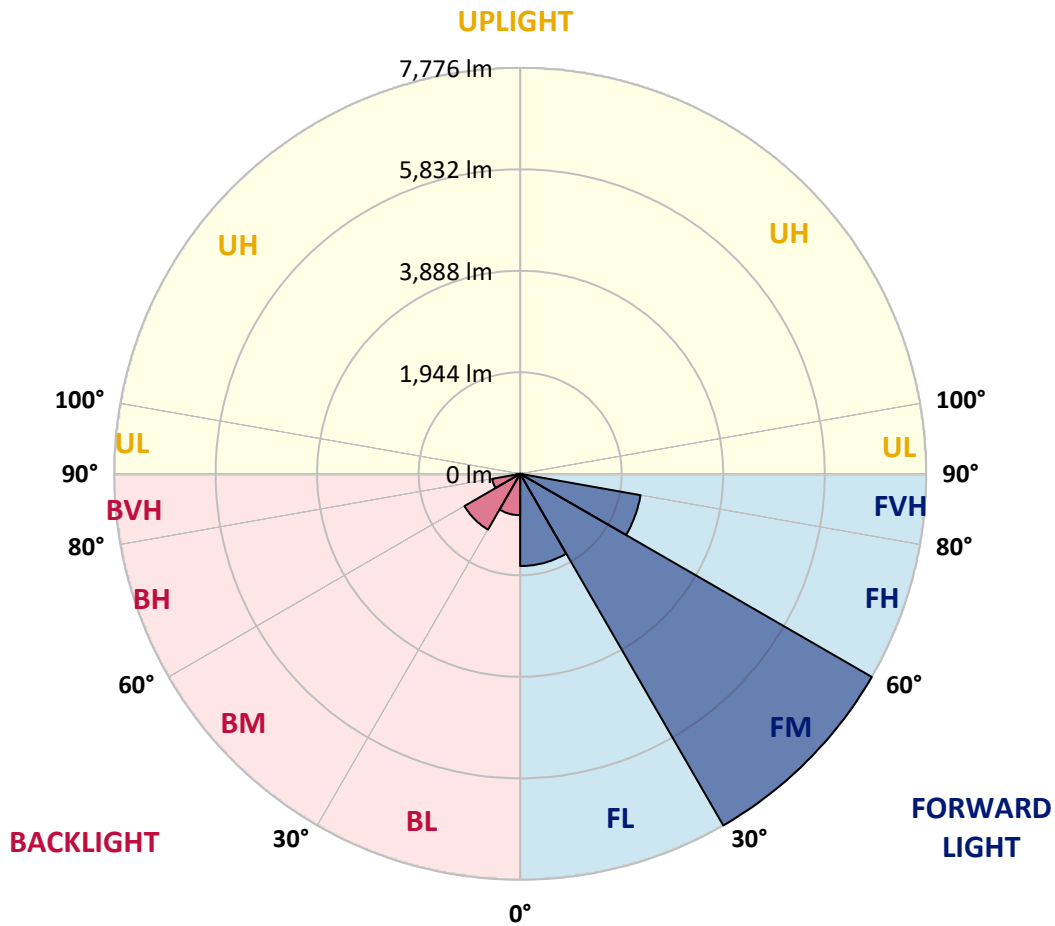
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.9	12.1			
FM (30°-60°)	7776.1	53.4			
FH (60°-80°)	2342.4	16.1			G2/5000
FVH (80°-90°)	49.2	0.3			G1/100
BL (0°-30°)	792.4	5.4	B2/1000		
BM (30°-60°)	1232.2	8.5	B2/2500		
BH (60°-80°)	544.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	67.3	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°	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8
2.5°	4188.6	4185.5	4202.1	4145.6	4107.2	4055.2	3986.7	3899.3	3805.2	3705.8
5°	4565.9	4539.5	4556.9	4514.7	4472.5	4394.2	4292.5	4150.1	3976.2	3778.1
7.5°	4506.4	4488.3	4532.8	4570.4	4602.1	4592.3	4517.7	4368.6	4144.1	3856.4
10°	4026.6	4006.3	4068.8	4199.1	4390.4	4556.9	4647.3	4554.6	4315.8	3942.3
12.5°	3603.3	3593.5	3635.0	3740.4	3952.8	4272.2	4630.7	4717.3	4494.4	4043.9
15°	3422.5	3410.5	3436.9	3490.3	3625.9	3923.4	4480.0	4828.8	4669.9	4161.4
17.5°	3382.6	3369.1	3380.4	3408.2	3495.6	3722.3	4252.6	4883.8	4852.9	4292.5
20°	3456.4	3445.1	3446.7	3445.1	3506.2	3686.2	4094.4	4862.7	5012.6	4413.0
22.5°	3635.0	3616.1	3616.9	3577.0	3610.1	3749.4	4053.0	4806.2	5154.9	4518.5
25°	3925.7	3891.8	3898.6	3796.9	3787.9	3891.0	4117.8	4762.5	5296.5	4602.8
27.5°	4323.4	4285.0	4264.6	4113.2	4040.9	4092.1	4249.6	4777.6	5430.6	4675.9
30°	4820.5	4773.8	4732.4	4517.7	4386.6	4367.8	4454.4	4877.0	5588.8	4752.7
32.5°	5429.8	5375.6	5300.3	5015.6	4831.0	4732.4	4719.6	5054.0	5774.0	4850.6
35°	6155.2	6084.4	5977.4	5609.1	5375.6	5173.7	5069.0	5309.3	6027.9	4998.2
37.5°	6902.3	6822.5	6724.6	6286.2	5999.3	5701.7	5495.4	5655.8	6366.1	5198.6
40°	7591.5	7501.9	7410.8	7020.6	6712.5	6354.0	6017.3	6094.2	6779.6	5438.1
42.5°	7998.2	7932.0	7897.3	7686.4	7448.4	7084.6	6666.6	6613.9	7244.3	5713.8
45°	7980.2	7953.1	8060.0	8147.4	8090.9	7889.0	7427.3	7188.6	7710.5	5952.6
47.5°	7553.9	7571.9	7810.7	8301.8	8518.0	8623.4	8293.5	7752.7	8115.7	6131.1
50°	6393.9	6409.0	6961.8	8020.8	8627.9	9222.2	9152.9	8303.3	8429.8	6240.3
52.5°	5475.8	5485.6	5722.8	7187.8	8264.9	9523.5	9927.2	8822.3	8659.6	6270.4
55°	4124.5	4158.4	4424.3	5639.2	7320.4	9284.7	10398.7	9357.0	8804.9	6273.4
57.5°	2409.5	2446.4	2774.8	3827.8	5689.7	8452.4	10470.3	9831.5	8903.6	6249.3
60°	1180.3	1196.1	1339.2	2011.8	3508.4	6848.9	9894.8	10061.3	8958.6	6236.5
62.5°	795.4	793.1	799.1	992.7	1728.6	4400.2	8695.7	9659.1	8929.2	6187.6
65°	683.9	675.6	653.0	696.7	895.6	2012.6	6718.6	8458.5	8705.5	6064.8
67.5°	591.3	592.0	592.8	579.2	639.5	928.7	4105.7	6662.8	7902.6	5483.3
70°	489.6	496.4	499.4	499.4	521.2	609.3	1752.7	4566.7	6233.5	4299.3
72.5°	445.9	431.6	433.1	425.6	425.6	464.0	705.8	2588.8	3927.2	2418.5
75°	363.8	372.8	374.3	369.1	351.7	354.0	418.8	1086.1	1680.4	1003.3
77.5°	314.1	314.1	317.1	313.3	299.8	265.1	279.4	421.0	571.7	411.2
80°	252.3	251.6	264.4	271.9	250.8	195.8	178.5	232.7	253.8	180.8
82.5°	122.8	130.3	181.5	207.1	190.6	141.6	109.2	144.6	135.6	79.8
85°	71.6	67.8	81.3	115.2	109.2	78.3	52.7	75.3	70.8	40.7
87.5°	22.6	21.1	16.6	39.2	31.6	21.8	14.3	21.8	19.6	9.0
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°
3650.8	0°	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8
3662.8	2.5°	3609.3	3520.5	3432.3	3351.7	3302.8	3271.2	3239.5	3204.1	3190.6	3170.2
3672.6	5°	3573.2	3401.5	3248.6	3116.7	2997.0	2902.8	2807.9	2731.1	2696.5	2719.8
3703.5	7.5°	3552.1	3303.5	3067.8	2826.0	2593.3	2407.2	2245.3	2131.6	2080.3	2093.1
3733.6	10°	3533.3	3192.8	2833.5	2451.7	2117.3	1886.8	1721.1	1634.4	1602.1	1608.8
3774.3	12.5°	3515.9	3068.5	2551.1	2048.7	1693.2	1541.1	1493.6	1494.4	1500.4	1504.9
3839.1	15°	3512.9	2918.7	2235.5	1696.2	1464.2	1454.4	1505.7	1538.0	1555.4	1560.6
3893.3	17.5°	3508.4	2739.4	1913.9	1455.9	1408.5	1474.8	1522.2	1543.3	1556.9	1557.6
3946.0	20°	3490.3	2511.9	1617.1	1341.5	1396.4	1453.7	1483.1	1499.6	1510.9	1514.7
3985.9	22.5°	3434.6	2258.9	1385.9	1290.2	1348.2	1394.2	1428.8	1447.7	1454.4	1459.0
3993.5	25°	3334.4	1975.6	1226.2	1241.3	1281.2	1339.2	1367.1	1370.8	1368.6	1375.3
3974.6	27.5°	3203.4	1672.1	1126.8	1175.0	1226.2	1275.9	1291.0	1288.7	1284.2	1291.7
3942.3	30°	3045.2	1399.4	1063.5	1100.4	1170.5	1215.7	1229.2	1224.0	1214.9	1223.2
3925.7	32.5°	2878.0	1176.5	1011.6	1048.5	1124.5	1169.0	1182.5	1177.3	1170.5	1177.3
3944.5	35°	2722.1	1020.6	963.3	1013.8	1088.4	1132.1	1149.4	1150.1	1150.1	1158.4
3994.2	37.5°	2579.0	929.5	923.4	992.0	1063.5	1102.7	1127.5	1129.0	1096.7	1098.9
4078.6	40°	2446.4	891.0	905.3	977.7	1039.4	1077.1	1078.6	994.2	934.7	933.2
4175.0	42.5°	2337.9	883.5	910.6	976.1	1022.1	1023.6	917.4	851.9	835.3	836.1
4263.9	45°	2236.3	881.2	922.7	976.1	996.5	884.3	812.7	795.4	796.9	802.9
4303.8	47.5°	2122.5	872.2	924.9	962.6	922.7	786.3	765.3	757.7	754.7	756.2
4294.8	50°	1998.2	839.8	896.3	935.5	796.1	744.2	717.8	715.5	719.3	721.6
4244.3	52.5°	1867.2	787.1	847.4	886.5	738.1	707.3	677.9	683.2	699.7	705.0
4191.6	55°	1781.3	725.3	782.6	788.6	697.5	672.6	647.8	659.8	690.7	700.5
4159.9	57.5°	1758.7	659.8	708.8	702.0	645.5	642.5	627.4	638.0	677.1	691.4
4158.4	60°	1751.9	601.1	636.5	631.2	595.0	609.3	605.6	610.8	624.4	628.9
4143.4	62.5°	1699.2	554.4	571.7	564.1	549.8	574.7	583.7	572.4	583.0	588.3
4040.2	65°	1565.2	516.7	508.4	503.1	509.2	531.8	549.8	527.2	537.0	552.1
3642.5	67.5°	1343.7	465.5	442.9	448.9	467.7	479.8	503.1	477.5	485.8	511.4
2933.7	70°	1086.9	400.7	380.4	397.7	415.8	440.6	444.4	427.1	446.6	475.3
1790.4	72.5°	769.0	335.2	320.9	356.3	362.3	394.7	386.4	378.1	405.2	415.0
885.0	75°	533.3	270.4	262.1	289.2	311.1	338.9	332.9	342.7	400.0	404.5
442.1	77.5°	337.4	210.1	204.9	222.2	252.3	283.2	293.0	404.5	683.2	710.3
229.7	80°	195.8	156.7	150.6	164.2	190.6	219.2	282.5	496.4	450.4	445.1
103.2	82.5°	109.2	107.7	100.2	103.9	127.3	158.2	399.2	349.5	284.0	293.0
41.4	85°	51.2	63.3	54.2	52.0	71.6	185.3	266.6	199.6	132.6	129.6
9.0	87.5°	13.6	12.1	12.1	13.6	30.1	159.7	106.2	85.1	50.5	49.0
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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