

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: P950860

Luminaire Tested: **GALN-SB5A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950860
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-SB5A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16700 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

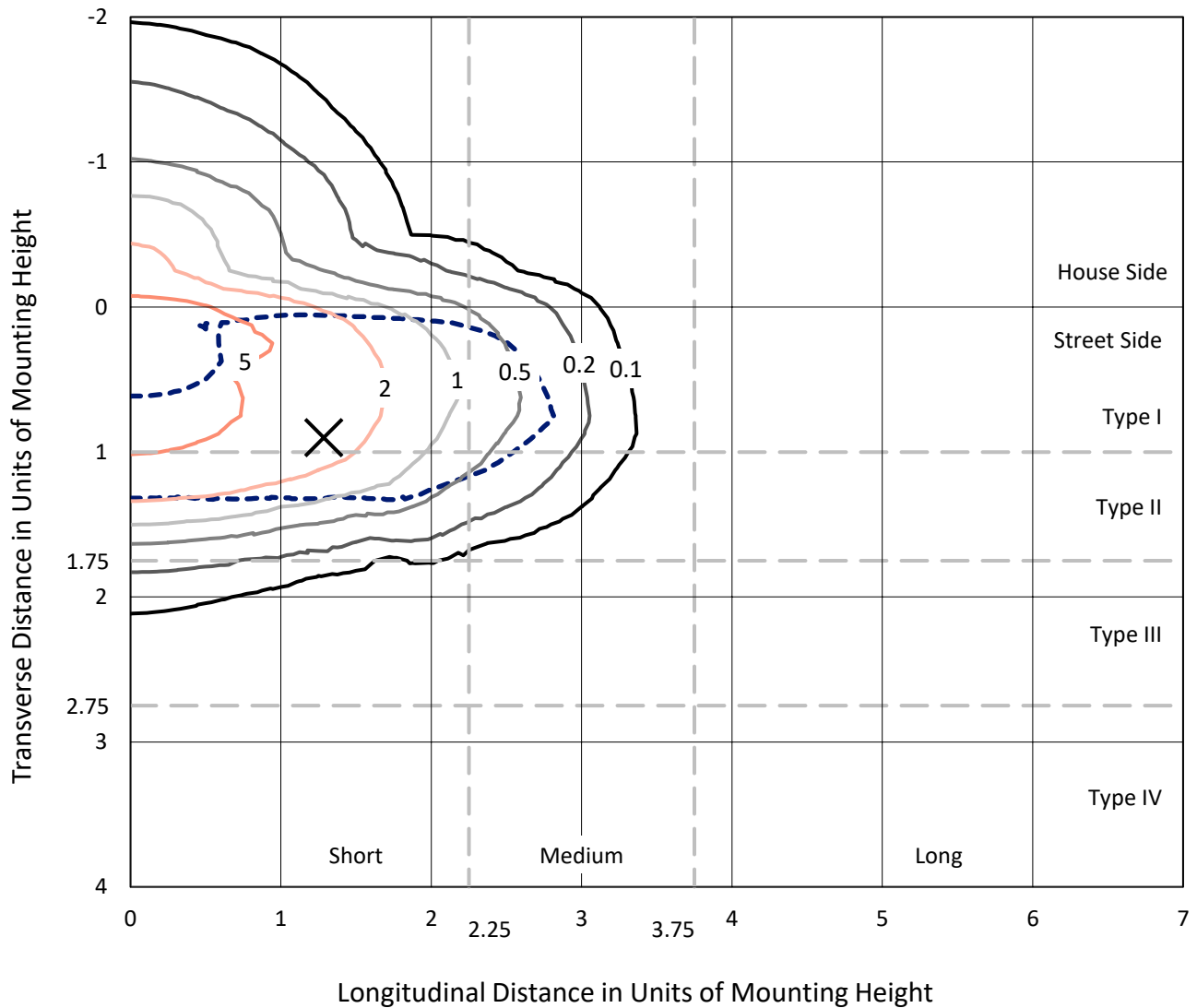
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

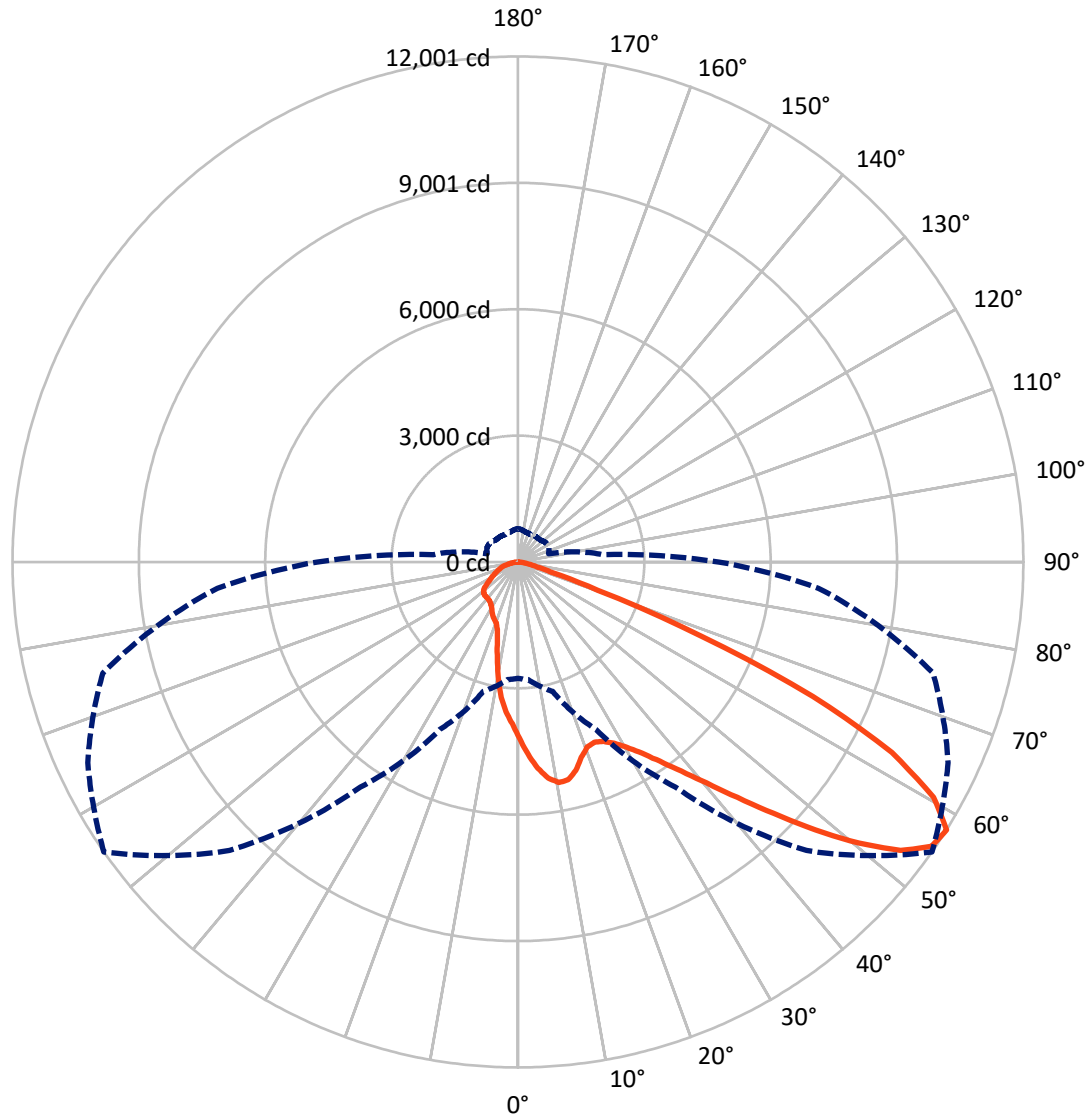
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3021.8	0.0	3021.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13678.2	0.0	13678.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	16700.0	0.0	16700.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	2.3
10°-20°	980.1	5.9
20°-30°	1563.9	9.4
30°-40°	2476.1	14.8
40°-50°	3789.9	22.7
50°-60°	4059.3	24.3
60°-70°	2553.7	15.3
70°-80°	755.2	4.5
80°-90°	133.5	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°	16700.0	100.0
0°-180°	16700.0	100.0



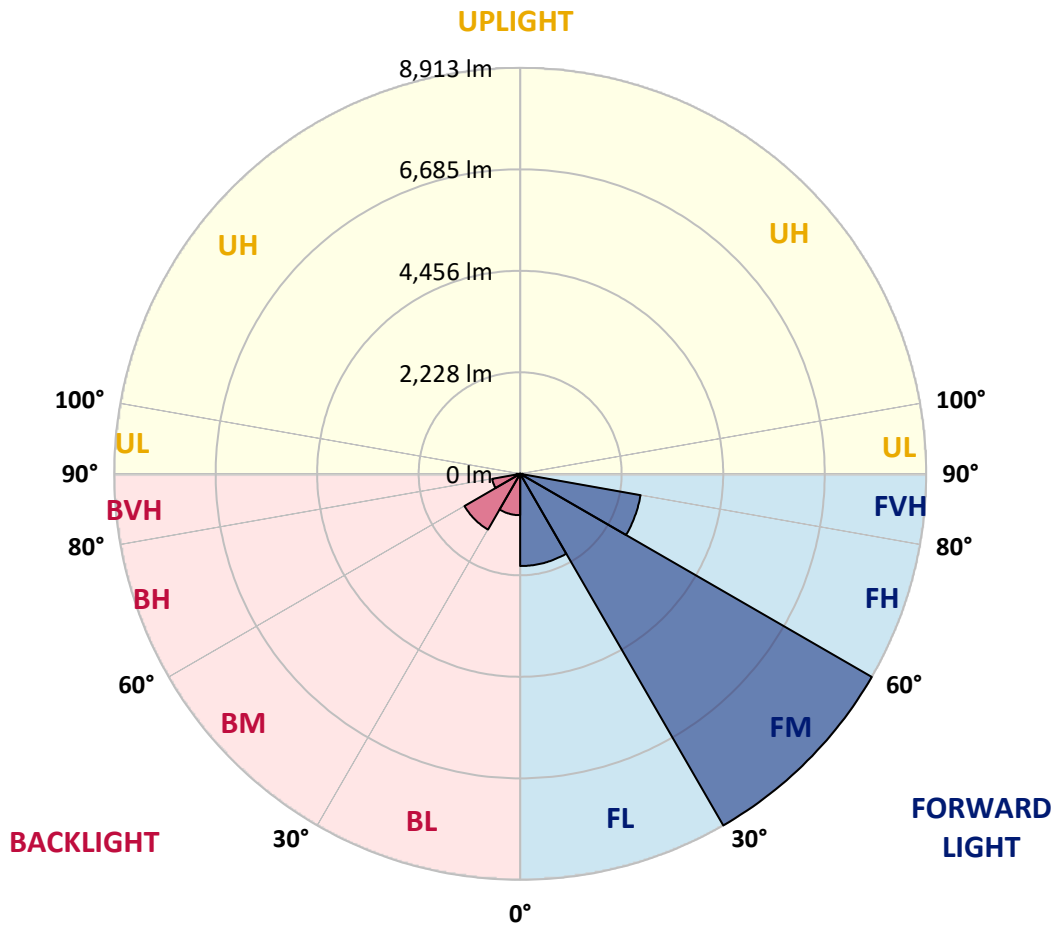
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.0	12.1			
FM (30°-60°)	8912.9	53.4			
FH (60°-80°)	2684.9	16.1			G2/5000
FVH (80°-90°)	56.4	0.3			G1/100
BL (0°-30°)	908.2	5.4	B2/1000		
BM (30°-60°)	1412.4	8.5	B2/2500		
BH (60°-80°)	624.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	77.1	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°	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5
2.5°	4800.9	4797.4	4816.4	4751.7	4707.6	4648.1	4569.5	4469.4	4361.5	4247.5
5°	5233.4	5203.2	5223.0	5174.7	5126.4	5036.6	4920.0	4756.9	4557.4	4330.4
7.5°	5165.2	5144.5	5195.4	5238.6	5274.8	5263.6	5178.2	5007.2	4749.9	4420.2
10°	4615.3	4592.0	4663.6	4813.0	5032.3	5223.0	5326.6	5220.5	4946.8	4518.6
12.5°	4130.1	4118.9	4166.3	4287.2	4530.7	4896.7	5307.6	5406.9	5151.4	4635.1
15°	3922.9	3909.1	3939.3	4000.6	4156.0	4497.0	5135.0	5534.7	5352.5	4769.8
17.5°	3877.1	3861.6	3874.5	3906.5	4006.6	4266.5	4874.3	5597.7	5562.3	4920.0
20°	3961.7	3948.8	3950.5	3948.8	4018.7	4225.1	4693.0	5573.5	5745.3	5058.2
22.5°	4166.3	4144.8	4145.6	4099.9	4137.9	4297.6	4645.5	5508.8	5908.5	5179.0
25°	4499.6	4460.7	4468.5	4352.0	4341.6	4459.9	4719.7	5458.7	6070.8	5275.7
27.5°	4955.4	4911.4	4888.1	4714.6	4631.7	4690.4	4870.8	5476.0	6224.5	5359.4
30°	5525.2	5471.7	5424.2	5178.2	5027.9	5006.4	5105.6	5590.0	6405.8	5447.5
32.5°	6223.6	6161.5	6075.1	5748.8	5537.3	5424.2	5409.5	5792.8	6618.2	5559.7
35°	7055.0	6973.8	6851.3	6429.1	6161.5	5930.1	5810.1	6085.5	6909.1	5728.9
37.5°	7911.4	7819.9	7707.7	7205.2	6876.3	6535.3	6298.7	6482.6	7296.7	5958.6
40°	8701.3	8598.6	8494.1	8046.9	7693.8	7282.9	6897.0	6985.1	7770.7	6233.1
42.5°	9167.5	9091.5	9051.8	8810.1	8537.3	8120.3	7641.2	7580.8	8303.3	6549.1
45°	9146.8	9115.7	9238.3	9338.5	9273.7	9042.3	8513.1	8239.5	8837.7	6822.8
47.5°	8658.2	8678.9	8952.6	9515.4	9763.2	9884.1	9505.9	8886.1	9302.2	7027.4
50°	7328.7	7345.9	7979.6	9193.4	9889.2	10570.4	10491.0	9517.2	9662.2	7152.5
52.5°	6276.3	6287.5	6559.5	8238.6	9473.1	10915.7	11378.5	10112.0	9925.5	7187.1
55°	4727.5	4766.4	5071.1	6463.6	8390.5	10642.1	11918.9	10724.9	10092.1	7190.5
57.5°	2761.7	2804.0	3180.4	4387.4	6521.5	9688.1	12000.9	11268.8	10205.2	7162.9
60°	1352.8	1370.9	1535.0	2305.9	4021.3	7850.1	11341.3	11532.1	10268.2	7148.2
62.5°	911.7	909.1	916.0	1137.8	1981.3	5043.5	9966.9	11071.1	10234.6	7092.1
65°	783.9	774.4	748.5	798.6	1026.5	2306.8	7700.8	9695.0	9978.2	6951.4
67.5°	677.7	678.6	679.4	663.9	733.0	1064.5	4705.9	7636.9	9057.9	6284.9
70°	561.2	568.9	572.4	572.4	597.4	698.4	2008.9	5234.3	7144.8	4927.8
72.5°	511.1	494.7	496.4	487.8	487.8	531.8	808.9	2967.2	4501.3	2772.1
75°	417.0	427.3	429.1	423.0	403.2	405.8	480.0	1244.9	1926.1	1149.9
77.5°	360.0	360.0	363.5	359.1	343.6	303.9	320.3	482.6	655.3	471.4
80°	289.2	288.3	303.0	311.7	287.5	224.5	204.6	266.8	290.9	207.2
82.5°	140.7	149.4	208.1	237.4	218.4	162.3	125.2	165.8	155.4	91.5
85°	82.0	77.7	93.2	132.1	125.2	89.8	60.4	86.3	81.2	46.6
87.5°	25.9	24.2	19.0	44.9	36.3	25.0	16.4	25.0	22.4	10.4
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°
4184.5	0°	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5	4184.5
4198.3	2.5°	4137.0	4035.1	3934.1	3841.7	3785.6	3749.4	3713.1	3672.5	3657.0	3633.7
4209.5	5°	4095.6	3898.7	3723.5	3572.4	3435.1	3327.2	3218.4	3130.4	3090.7	3117.4
4244.9	7.5°	4071.4	3786.5	3516.3	3239.2	2972.4	2759.1	2573.5	2443.2	2384.5	2399.1
4279.4	10°	4049.8	3659.6	3247.8	2810.1	2426.8	2162.6	1972.7	1873.4	1836.3	1844.0
4326.1	12.5°	4029.9	3517.1	2924.0	2348.2	1940.7	1766.3	1711.9	1712.8	1719.7	1724.9
4400.3	15°	4026.5	3345.3	2562.3	1944.2	1678.3	1667.1	1725.8	1762.9	1782.7	1788.8
4462.5	17.5°	4021.3	3139.9	2193.7	1668.8	1614.4	1690.4	1744.8	1768.9	1784.5	1785.3
4522.9	20°	4000.6	2879.1	1853.5	1537.6	1600.6	1666.2	1699.9	1718.9	1731.8	1736.1
4568.7	22.5°	3936.7	2589.1	1588.5	1478.9	1545.3	1598.0	1637.7	1659.3	1667.1	1672.2
4577.3	25°	3821.9	2264.5	1405.5	1422.7	1468.5	1535.0	1566.9	1571.2	1568.6	1576.4
4555.7	27.5°	3671.7	1916.6	1291.5	1346.8	1405.5	1462.5	1479.7	1477.1	1471.9	1480.6
4518.6	30°	3490.4	1604.0	1219.0	1261.3	1341.6	1393.4	1408.9	1402.9	1392.5	1402.0
4499.6	32.5°	3298.7	1348.5	1159.4	1201.7	1288.9	1339.9	1355.4	1349.4	1341.6	1349.4
4521.2	35°	3120.0	1169.8	1104.2	1162.0	1247.5	1297.6	1317.4	1318.3	1318.3	1327.8
4578.1	37.5°	2956.0	1065.3	1058.4	1137.0	1219.0	1263.9	1292.4	1294.1	1257.0	1259.6
4674.8	40°	2804.0	1021.3	1037.7	1120.6	1191.4	1234.5	1236.3	1139.6	1071.4	1069.6
4785.3	42.5°	2679.7	1012.7	1043.7	1118.9	1171.5	1173.2	1051.5	976.4	957.4	958.3
4887.2	45°	2563.2	1010.1	1057.6	1118.9	1142.2	1013.5	931.5	911.7	913.4	920.3
4933.0	47.5°	2432.8	999.7	1060.1	1103.3	1057.6	901.3	877.1	868.5	865.0	866.8
4922.6	50°	2290.4	962.6	1027.3	1072.2	912.5	853.0	822.7	820.1	824.5	827.1
4864.8	52.5°	2140.2	902.2	971.2	1016.1	846.0	810.7	777.0	783.0	802.0	808.1
4804.3	55°	2041.7	831.4	897.0	903.9	799.4	770.9	742.4	756.3	791.7	802.9
4768.1	57.5°	2015.8	756.3	812.4	804.6	739.9	736.4	719.1	731.2	776.1	792.5
4766.4	60°	2008.1	688.9	729.5	723.5	682.0	698.4	694.1	700.1	715.7	720.9
4749.1	62.5°	1947.6	635.4	655.3	646.6	630.2	658.7	669.1	656.1	668.2	674.2
4630.8	65°	1794.0	592.2	582.7	576.7	583.6	609.5	630.2	604.3	615.5	632.8
4175.0	67.5°	1540.2	533.5	507.6	514.5	536.1	549.9	576.7	547.3	556.8	586.2
3362.6	70°	1245.8	459.3	436.0	455.8	476.5	505.0	509.4	489.5	511.9	544.8
2052.1	72.5°	881.4	384.2	367.8	408.3	415.3	452.4	442.9	433.4	464.5	475.7
1014.4	75°	611.2	309.9	300.4	331.5	356.5	388.5	381.6	392.8	458.4	463.6
506.8	77.5°	386.8	240.9	234.8	254.7	289.2	324.6	335.8	463.6	783.0	814.1
263.3	80°	224.5	179.6	172.7	188.2	218.4	251.2	323.7	568.9	516.3	510.2
118.3	82.5°	125.2	123.5	114.8	119.1	145.9	181.3	457.6	400.6	325.5	335.8
47.5	85°	58.7	72.5	62.2	59.6	82.0	212.4	305.6	228.8	151.9	148.5
10.4	87.5°	15.5	13.8	13.8	15.5	34.5	183.0	121.7	97.6	57.8	56.1
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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