

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: P957579

Luminaire Tested: **GALN-SB9D-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48103 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

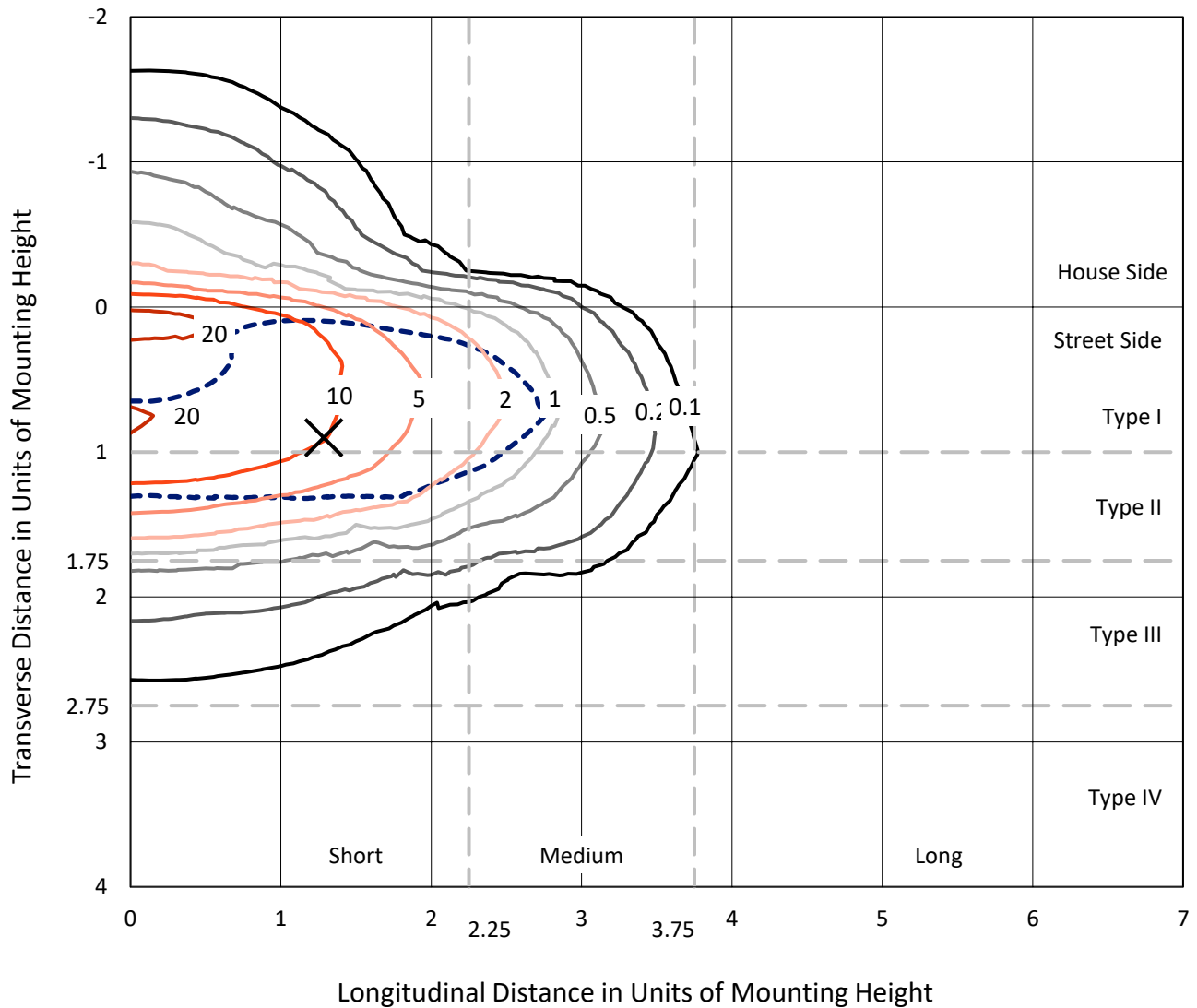
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

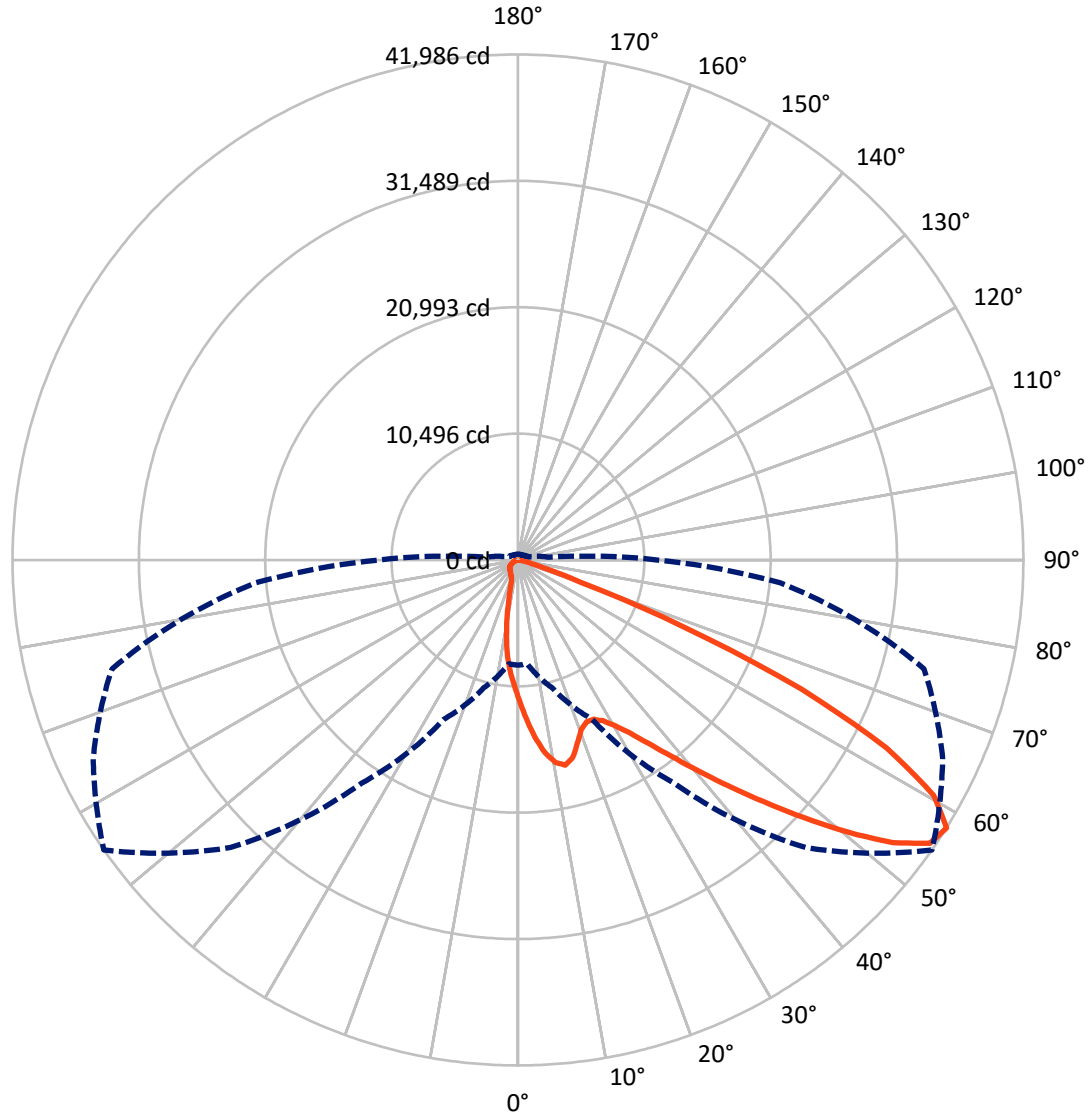
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 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	3756.7	0.0	3756.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	44346.4	0.0	44346.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	48103.0	0.0	48103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1078.5	2.2
10°-20°	2605.2	5.4
20°-30°	4168.3	8.7
30°-40°	7055.1	14.7
40°-50°	11583.0	24.1
50°-60°	12730.5	26.5
60°-70°	7302.2	15.2
70°-80°	1492.1	3.1
80°-90°	88.0	0.2
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°	48103.0	100.0
0°-180°	48103.0	100.0

Coefficient of Utilization



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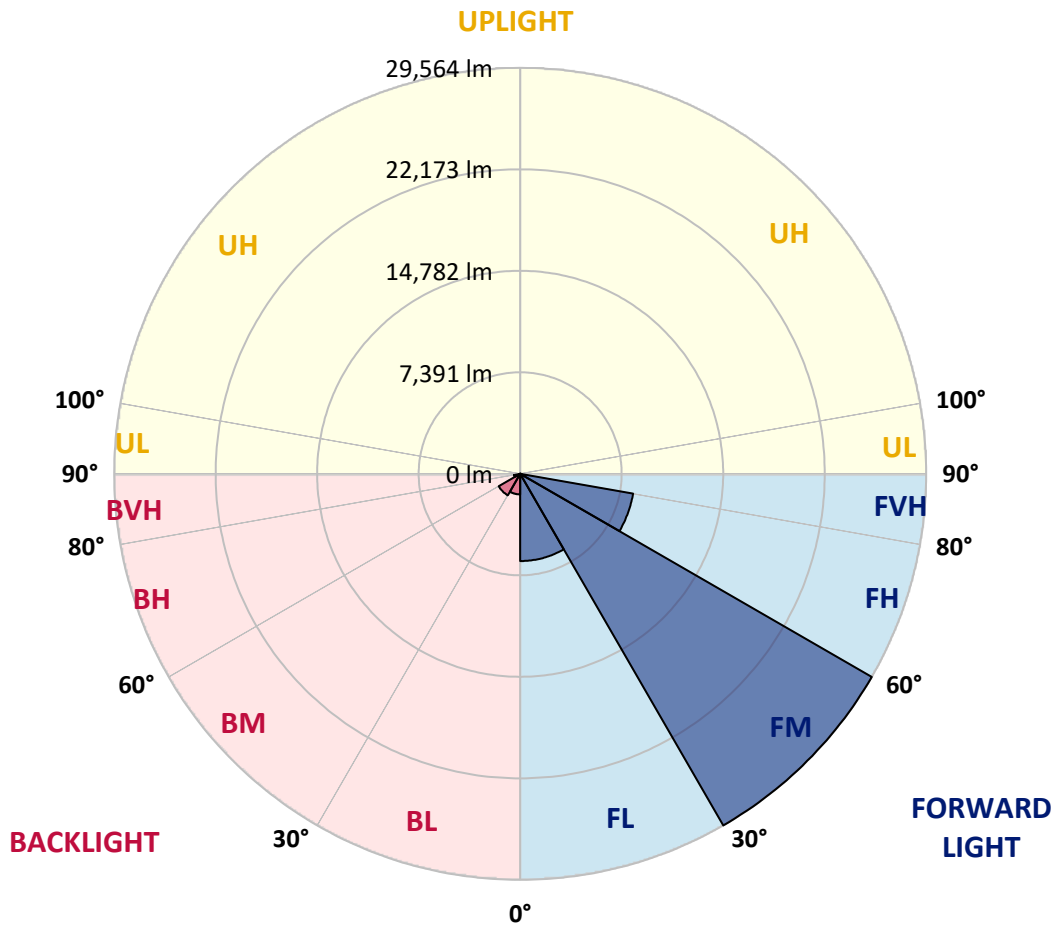
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6352.3	13.2			
FM (30°-60°)	29564.5	61.5			
FH (60°-80°)	8347.5	17.4			G4/12000
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	1499.8	3.1	B3/2500		
BM (30°-60°)	1804.2	3.8	B2/2500		
BH (60°-80°)	446.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6
2.5°	14382.8	14201.8	14175.1	14139.5	13795.5	13537.4	13163.7	12754.4	12294.6	11826.0
5°	16616.3	16473.9	16447.2	16281.1	15889.6	15450.6	14786.2	13946.7	13089.5	12081.0
7.5°	17049.3	17022.6	17144.2	17138.3	17084.9	16737.9	16177.3	15177.7	13890.4	12395.5
10°	15118.4	15186.6	15548.5	15865.8	16723.0	17221.4	17099.7	16275.2	14715.0	12754.4
12.5°	13359.5	13279.4	13537.4	13896.3	14892.9	16376.0	17482.4	17191.7	15658.2	13160.7
15°	12256.1	12223.4	12368.8	12534.9	13294.2	14789.1	17037.5	17936.2	16565.8	13641.2
17.5°	11903.1	11876.4	11920.9	11962.4	12454.8	13611.6	15978.5	18393.0	17434.9	14190.0
20°	12190.8	12155.2	12149.3	12116.6	12321.3	13110.3	15020.5	18425.6	18215.0	14688.3
22.5°	13030.2	12988.7	12843.3	12712.8	12730.6	13178.5	14593.4	18099.3	18802.3	15154.0
25°	14551.8	14483.6	14181.1	13742.1	13463.3	13653.1	14658.6	17669.2	19362.9	15518.8
27.5°	16456.1	16367.1	15978.5	15326.0	14688.3	14456.9	15130.2	17372.6	19828.6	15797.6
30°	18321.8	18206.1	17823.5	17316.3	16384.9	15655.2	15981.5	17503.1	20383.2	16088.3
32.5°	20335.8	20226.0	19718.8	19090.0	18318.8	17337.0	17147.2	18140.9	21062.5	16494.7
35°	22883.7	22711.7	21990.9	21133.7	20315.0	19321.4	18725.2	19241.3	21967.2	17114.6
37.5°	25784.6	25553.2	24776.1	23592.6	22524.8	21412.5	20647.2	20754.0	23293.0	17945.1
40°	28519.3	28308.7	27590.9	26475.7	25135.0	23785.4	22969.7	22732.4	25123.1	18956.5
42.5°	30159.6	29969.8	29667.2	29195.6	28065.5	26689.2	25660.0	25146.9	27288.4	20166.7
45°	30251.6	30085.5	30491.8	31040.6	30818.1	29901.6	28646.9	27706.6	29462.6	21302.7
47.5°	28780.4	28667.6	29901.6	31817.7	32772.8	33158.4	32001.6	30052.8	31257.1	22118.4
50°	24770.2	24728.6	27267.6	30785.5	33517.3	36011.8	35540.2	32235.9	32648.2	22539.6
52.5°	21477.7	21326.5	22806.6	27481.2	32434.6	37512.7	38998.7	34377.5	33621.1	22619.7
55°	16290.0	16156.5	18013.3	21952.3	28943.5	36978.7	41528.8	36587.2	34318.1	22415.0
57.5°	8738.2	8655.2	11001.4	14611.2	22625.6	33775.3	41985.6	38924.5	34905.4	21872.2
60°	3402.2	3387.3	4265.3	7089.1	13751.0	27478.2	39680.9	40327.5	35273.2	21204.9
62.5°	2058.5	2103.0	2245.4	3182.7	6074.6	17070.1	34368.6	38731.7	35519.4	20593.8
65°	1702.6	1705.5	1723.3	2186.0	2909.8	7142.4	25873.6	33481.7	34911.4	19505.3
67.5°	1459.3	1486.0	1554.3	1735.2	2052.6	3132.2	14895.9	25935.8	31212.6	16972.2
70°	1150.9	1186.5	1272.5	1426.7	1583.9	1960.6	5505.1	17256.9	23844.7	12792.9
72.5°	969.9	967.0	1011.5	1159.8	1257.6	1379.3	2117.8	9669.6	13857.8	6107.3
75°	750.4	780.1	836.4	969.9	1029.2	999.6	1147.9	3532.7	4965.3	1850.9
77.5°	587.3	611.0	661.4	792.0	851.3	708.9	661.4	1263.6	1595.8	664.4
80°	264.0	284.7	450.9	584.3	694.1	489.4	358.9	646.6	708.9	302.5
82.5°	47.5	80.1	264.0	308.5	355.9	317.4	186.9	335.2	347.0	121.6
85°	3.0	5.9	92.0	112.7	142.4	103.8	56.4	133.5	115.7	41.5
87.5°	0.0	0.0	0.0	3.0	3.0	14.8	17.8	23.7	17.8	14.8
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°
11591.6	0°	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6	11591.6
11618.3	2.5°	11404.8	10983.6	10574.3	10239.1	10043.3	9711.1	9491.6	9456.0	9364.1	9444.2
11648.0	5°	11185.3	10431.9	9669.6	8987.4	8426.8	7703.0	7163.2	6934.8	6736.1	6804.3
11725.1	7.5°	11081.5	9892.0	8705.6	7539.9	6341.6	5184.8	4324.6	3965.7	3692.8	3731.4
11811.1	10°	10942.1	9331.4	7471.7	5692.0	4087.3	2945.4	2352.1	2132.6	2011.0	2014.0
11938.7	12.5°	10835.3	8661.1	6039.0	3858.9	2488.6	1880.5	1696.6	1643.2	1607.6	1610.6
12131.5	15°	10781.9	7872.1	4624.2	2571.6	1779.7	1592.8	1548.3	1524.6	1500.9	1497.9
12345.0	17.5°	10692.9	6994.1	3384.4	1877.6	1557.2	1492.0	1453.4	1426.7	1397.0	1391.1
12528.9	20°	10559.4	5997.5	2473.8	1586.9	1459.3	1408.9	1355.5	1319.9	1284.3	1278.4
12644.6	22.5°	10313.2	4944.5	1901.3	1468.2	1388.1	1331.8	1266.5	1225.0	1189.4	1183.5
12588.3	25°	9856.5	3956.8	1601.7	1394.1	1325.9	1257.6	1186.5	1130.1	1097.5	1091.5
12466.6	27.5°	9278.1	3108.5	1453.4	1325.9	1245.8	1183.5	1103.4	1050.0	1020.3	1014.4
12306.5	30°	8595.8	2393.7	1367.4	1248.7	1150.9	1097.5	1026.3	981.8	964.0	964.0
12193.8	32.5°	7860.2	1913.2	1331.8	1171.6	1067.8	1008.5	952.1	934.3	928.4	925.4
12256.1	35°	7169.1	1661.0	1314.0	1109.3	993.7	937.3	913.6	916.5	928.4	928.4
12448.8	37.5°	6555.1	1580.9	1305.1	1064.8	928.4	878.0	892.8	919.5	907.6	907.6
12787.0	40°	6000.5	1589.8	1299.2	1032.2	875.0	845.3	875.0	854.2	824.6	821.6
13199.3	42.5°	5576.3	1664.0	1287.3	1005.5	842.4	821.6	809.8	777.1	774.2	780.1
13626.4	45°	5267.8	1729.3	1284.3	993.7	806.8	768.2	753.4	720.8	780.1	794.9
13801.4	47.5°	4903.0	1729.3	1284.3	952.1	747.5	732.6	708.9	673.3	732.6	747.5
13635.3	50°	4431.4	1619.5	1233.9	904.7	700.0	691.1	649.6	605.1	593.2	602.1
13246.7	52.5°	3835.2	1420.8	1106.4	839.4	652.5	634.8	584.3	551.7	542.8	542.8
12549.7	55°	3156.0	1189.4	934.3	744.5	602.1	569.5	533.9	519.1	510.2	504.2
11573.8	57.5°	2565.7	975.9	750.4	661.4	554.7	513.1	501.3	483.5	468.6	459.8
10758.2	60°	2106.0	768.2	619.9	587.3	507.2	468.6	465.7	442.0	403.4	397.5
10084.8	62.5°	1625.4	563.6	522.0	510.2	459.8	427.1	421.2	373.7	314.4	302.5
9129.7	65°	1147.9	439.0	421.2	447.9	409.3	379.7	364.8	293.6	231.4	222.5
7640.8	67.5°	806.8	367.8	332.2	391.5	355.9	317.4	308.5	249.2	192.8	186.9
5778.0	70°	575.4	299.6	272.9	335.2	284.7	278.8	261.0	207.6	157.2	151.3
2859.3	72.5°	406.4	228.4	210.6	290.7	195.8	240.3	213.6	160.2	118.6	112.7
972.9	75°	299.6	163.1	148.3	169.1	142.4	180.9	151.3	106.8	74.2	71.2
439.0	77.5°	219.5	103.8	89.0	83.1	83.1	112.7	83.1	44.5	32.6	29.7
222.5	80°	154.2	47.5	41.5	35.6	32.6	26.7	11.9	5.9	3.0	3.0
77.1	82.5°	92.0	20.8	20.8	14.8	8.9	0.0	0.0	0.0	0.0	0.0
29.7	85°	20.8	8.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11.9	87.5°	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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