

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: P954723

Luminaire Tested: **GALN-SB7D-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954723
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-SB7D-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 37558 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

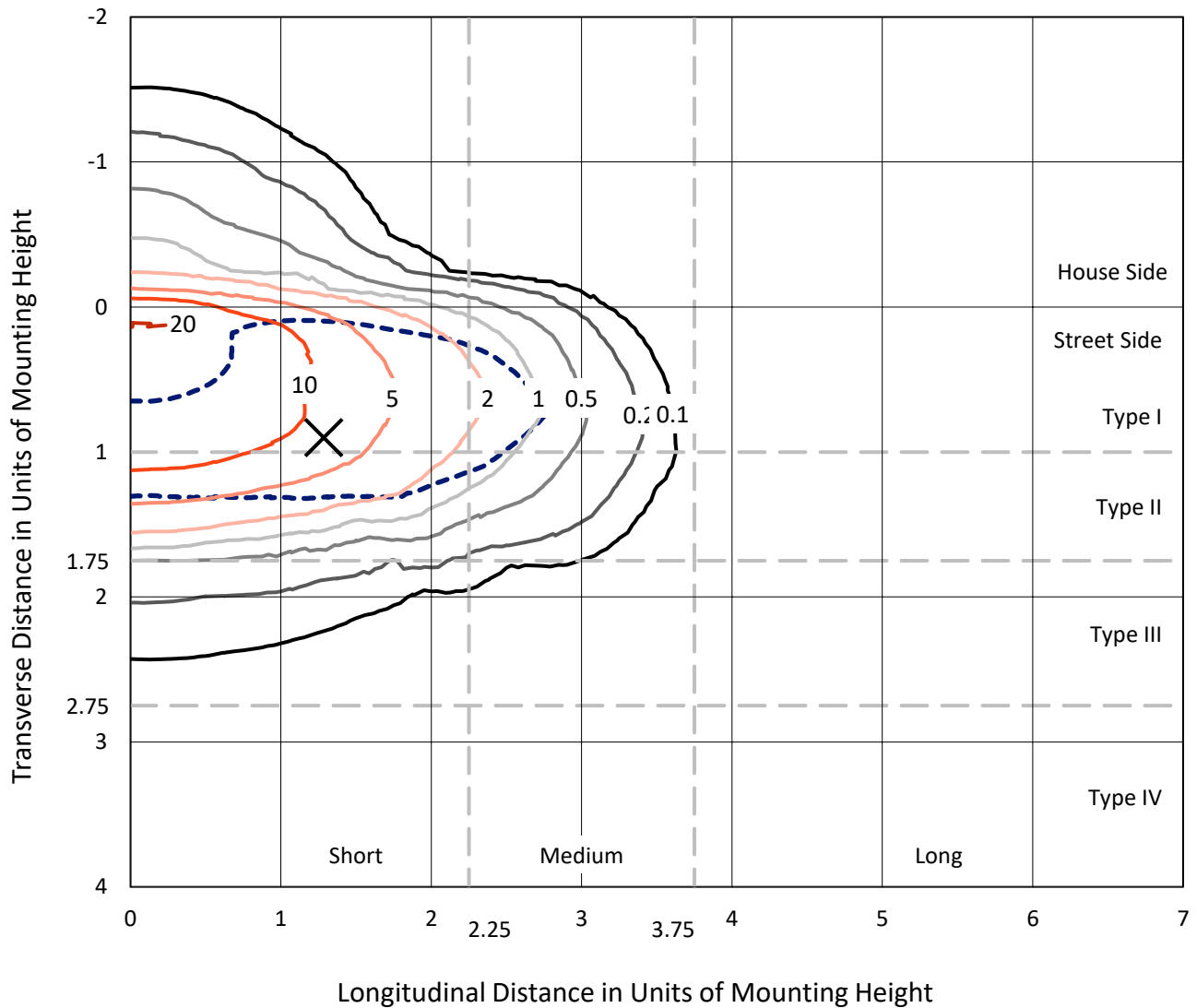
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

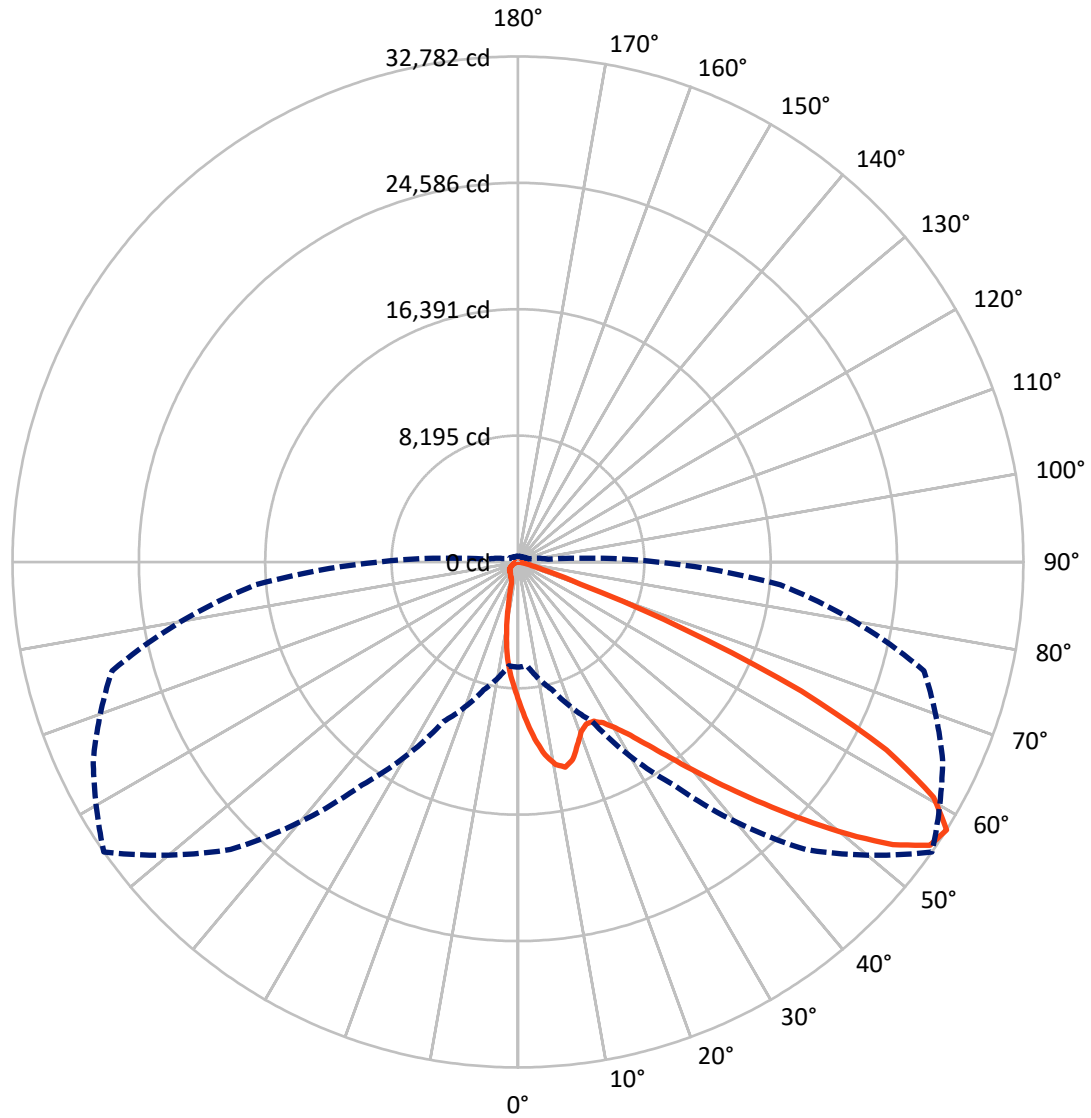
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 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	2933.1	0.0	2933.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	34624.9	0.0	34624.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	37558.0	0.0	37558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.1	2.2
10°-20°	2034.1	5.4
20°-30°	3254.5	8.7
30°-40°	5508.5	14.7
40°-50°	9043.8	24.1
50°-60°	9939.8	26.5
60°-70°	5701.5	15.2
70°-80°	1165.0	3.1
80°-90°	68.7	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°	37558.0	100.0
0°-180°	37558.0	100.0

Coefficient of Utilization



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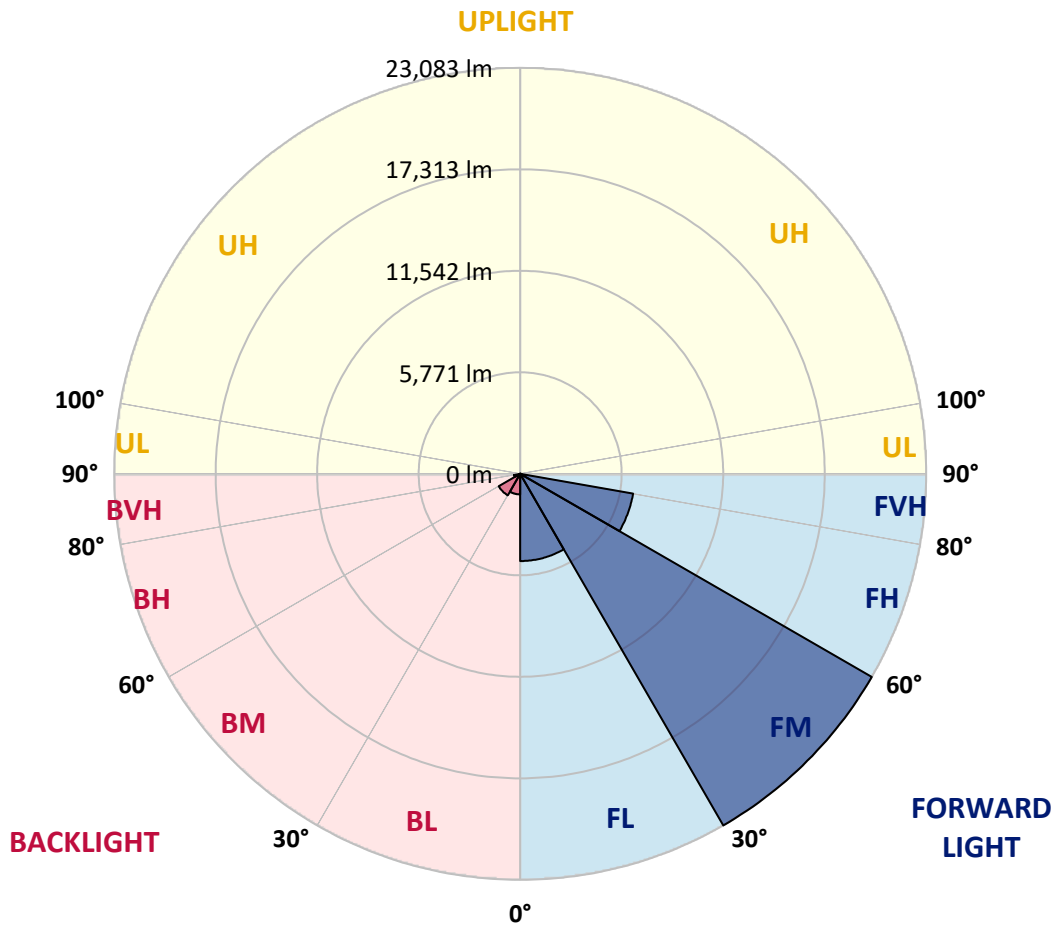
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4959.8	13.2			
FM (30°-60°)	23083.4	61.5			
FH (60°-80°)	6517.6	17.4			G3/7500
FVH (80°-90°)	64.1	0.2			G1/100
BL (0°-30°)	1171.0	3.1	B3/2500		
BM (30°-60°)	1408.7	3.8	B2/2500		
BH (60°-80°)	348.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6
2.5°	11229.8	11088.5	11067.7	11039.9	10771.3	10569.8	10278.0	9958.4	9599.4	9233.5
5°	12973.7	12862.5	12841.7	12712.0	12406.3	12063.5	11544.8	10889.4	10220.1	9432.7
7.5°	13311.8	13291.0	13385.9	13381.3	13339.6	13068.6	12630.9	11850.5	10845.4	9678.2
10°	11804.2	11857.4	12140.0	12387.8	13057.1	13446.1	13351.2	12707.4	11489.2	9958.4
12.5°	10430.8	10368.3	10569.8	10850.0	11628.2	12786.1	13649.9	13423.0	12225.7	10275.7
15°	9569.3	9543.8	9657.3	9787.0	10379.9	11547.1	13302.6	14004.3	12934.3	10650.8
17.5°	9293.7	9272.9	9307.6	9340.0	9724.5	10627.7	12475.8	14360.9	13612.9	11079.3
20°	9518.4	9490.6	9485.9	9460.5	9620.3	10236.3	11727.7	14386.4	14222.0	11468.4
22.5°	10173.8	10141.3	10027.9	9926.0	9939.9	10289.6	11394.2	14131.6	14680.5	11832.0
25°	11361.8	11308.6	11072.3	10729.6	10511.9	10660.1	11445.2	13795.8	15118.2	12116.8
27.5°	12848.6	12779.2	12475.8	11966.3	11468.4	11287.7	11813.4	13564.2	15481.8	12334.5
30°	14305.3	14215.0	13916.3	13520.2	12793.1	12223.3	12478.1	13666.1	15914.9	12561.5
32.5°	15877.8	15792.1	15396.1	14905.2	14303.0	13536.5	13388.2	14164.1	16445.2	12878.7
35°	17867.2	17732.9	17170.1	16500.8	15861.6	15085.8	14620.3	15023.3	17151.6	13362.8
37.5°	20132.2	19951.5	19344.7	18420.7	17587.0	16718.5	16121.0	16204.4	18186.8	14011.2
40°	22267.4	22103.0	21542.5	20671.8	19625.0	18571.2	17934.4	17749.1	19615.7	14800.9
42.5°	23548.1	23399.9	23163.7	22795.4	21913.1	20838.5	20034.9	19634.2	21306.3	15745.8
45°	23619.9	23490.2	23807.5	24235.9	24062.2	23346.6	22367.0	21632.9	23003.9	16632.8
47.5°	22471.2	22383.2	23346.6	24842.7	25588.4	25889.5	24986.3	23464.7	24405.0	17269.7
50°	19340.1	19307.7	21290.1	24036.8	26169.7	28117.4	27749.2	25169.2	25491.2	17598.6
52.5°	16769.5	16651.3	17807.0	21456.8	25324.4	29289.2	30449.5	26841.3	26250.8	17661.1
55°	12718.9	12614.7	14064.5	17140.0	22598.6	28872.4	32425.0	28566.7	26795.0	17501.3
57.5°	6822.7	6757.8	8589.7	11408.1	17665.7	26371.2	32781.6	30391.6	27253.6	17077.5
60°	2656.3	2644.8	3330.3	5535.0	10736.5	21454.5	30982.2	31487.0	27540.7	16556.4
62.5°	1607.2	1642.0	1753.1	2485.0	4743.0	13328.0	26834.4	30241.1	27732.9	16079.3
65°	1329.3	1331.6	1345.5	1706.8	2271.9	5576.7	20201.6	26141.9	27258.2	15229.4
67.5°	1139.4	1160.3	1213.5	1354.8	1602.6	2445.6	11630.5	20250.3	24370.3	13251.6
70°	898.6	926.4	993.5	1113.9	1236.7	1530.8	4298.3	13473.9	18617.6	9988.5
72.5°	757.3	755.0	789.7	905.5	981.9	1076.9	1653.6	7549.8	10819.9	4768.4
75°	585.9	609.1	653.1	757.3	803.6	780.5	896.3	2758.2	3876.8	1445.1
77.5°	458.5	477.1	516.4	618.3	664.7	553.5	516.4	986.6	1246.0	518.8
80°	206.1	222.3	352.0	456.2	541.9	382.1	280.2	504.9	553.5	236.2
82.5°	37.1	62.5	206.1	240.9	277.9	247.8	145.9	261.7	271.0	95.0
85°	2.3	4.6	71.8	88.0	111.2	81.1	44.0	104.2	90.3	32.4
87.5°	0.0	0.0	0.0	2.3	2.3	11.6	13.9	18.5	13.9	11.6
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°
9050.6	0°	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6	9050.6
9071.4	2.5°	8904.7	8575.8	8256.2	7994.5	7841.7	7582.3	7410.9	7383.1	7311.3	7373.8
9094.6	5°	8733.3	8145.0	7549.8	7017.2	6579.5	6014.4	5592.9	5414.6	5259.4	5312.7
9154.8	7.5°	8652.2	7723.5	6797.2	5887.0	4951.4	4048.2	3376.6	3096.4	2883.3	2913.4
9221.9	10°	8543.4	7285.8	5833.8	4444.2	3191.3	2299.7	1836.5	1665.1	1570.2	1572.5
9321.5	12.5°	8460.0	6762.4	4715.2	3013.0	1943.0	1468.3	1324.7	1283.0	1255.2	1257.5
9472.0	15°	8418.3	6146.4	3610.5	2007.9	1389.5	1243.6	1208.9	1190.4	1171.8	1169.5
9638.8	17.5°	8348.8	5460.9	2642.4	1466.0	1215.8	1164.9	1134.8	1113.9	1090.8	1086.2
9782.4	20°	8244.6	4682.8	1931.5	1239.0	1139.4	1100.1	1058.4	1030.6	1002.8	998.2
9872.7	22.5°	8052.4	3860.6	1484.5	1146.4	1083.8	1039.8	988.9	956.5	928.7	924.0
9828.7	25°	7695.7	3089.4	1250.6	1088.5	1035.2	981.9	926.4	882.4	856.9	852.3
9733.7	27.5°	7244.1	2427.1	1134.8	1035.2	972.7	924.0	861.5	819.8	796.7	792.0
9608.7	30°	6711.5	1868.9	1067.6	975.0	898.6	856.9	801.3	766.6	752.7	752.7
9520.7	32.5°	6137.1	1493.8	1039.8	914.8	833.7	787.4	743.4	729.5	724.9	722.6
9569.3	35°	5597.5	1296.9	1025.9	866.1	775.8	731.8	713.3	715.6	724.9	724.9
9719.8	37.5°	5118.1	1234.4	1019.0	831.4	724.9	685.5	697.1	717.9	708.7	708.7
9983.9	40°	4685.1	1241.3	1014.4	805.9	683.2	660.0	683.2	667.0	643.8	641.5
10305.8	42.5°	4353.9	1299.2	1005.1	785.1	657.7	641.5	632.2	606.8	604.5	609.1
10639.3	45°	4113.0	1350.2	1002.8	775.8	629.9	599.8	588.2	562.8	609.1	620.7
10775.9	47.5°	3828.2	1350.2	1002.8	743.4	583.6	572.0	553.5	525.7	572.0	583.6
10646.2	50°	3460.0	1264.5	963.4	706.4	546.6	539.6	507.2	472.4	463.2	470.1
10342.8	52.5°	2994.5	1109.3	863.8	655.4	509.5	495.6	456.2	430.8	423.8	423.8
9798.6	55°	2464.1	928.7	729.5	581.3	470.1	444.7	416.9	405.3	398.3	393.7
9036.7	57.5°	2003.3	761.9	585.9	516.4	433.1	400.7	391.4	377.5	365.9	359.0
8399.8	60°	1644.3	599.8	484.0	458.5	396.0	365.9	363.6	345.1	315.0	310.3
7874.1	62.5°	1269.1	440.0	407.6	398.3	359.0	333.5	328.9	291.8	245.5	236.2
7128.4	65°	896.3	342.8	328.9	349.7	319.6	296.4	284.9	229.3	180.6	173.7
5965.8	67.5°	629.9	287.2	259.4	305.7	277.9	247.8	240.9	194.5	150.5	145.9
4511.4	70°	449.3	233.9	213.1	261.7	222.3	217.7	203.8	162.1	122.7	118.1
2232.5	72.5°	317.3	178.3	164.4	227.0	152.8	187.6	166.7	125.1	92.6	88.0
759.6	75°	233.9	127.4	115.8	132.0	111.2	141.3	118.1	83.4	57.9	55.6
342.8	77.5°	171.4	81.1	69.5	64.8	64.8	88.0	64.8	34.7	25.5	23.2
173.7	80°	120.4	37.1	32.4	27.8	25.5	20.8	9.3	4.6	2.3	2.3
60.2	82.5°	71.8	16.2	16.2	11.6	6.9	0.0	0.0	0.0	0.0	0.0
23.2	85°	16.2	6.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	2.3	2.3	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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