

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: P954429

Luminaire Tested: **GALN-SB7C-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954429
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-SB7C-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA 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: 32906 lumens
Efficiency: N/A
Efficacy: 93.9 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

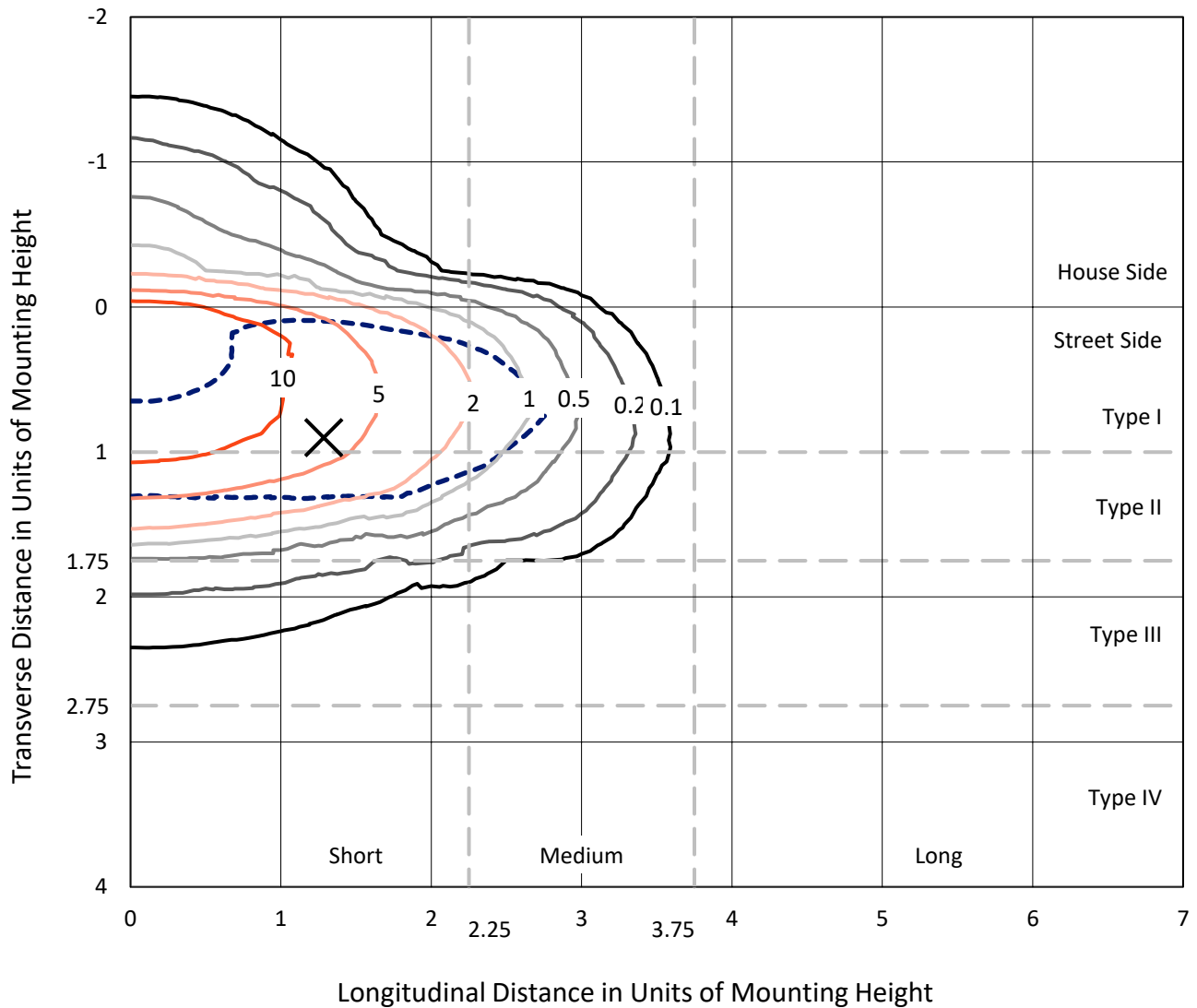
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

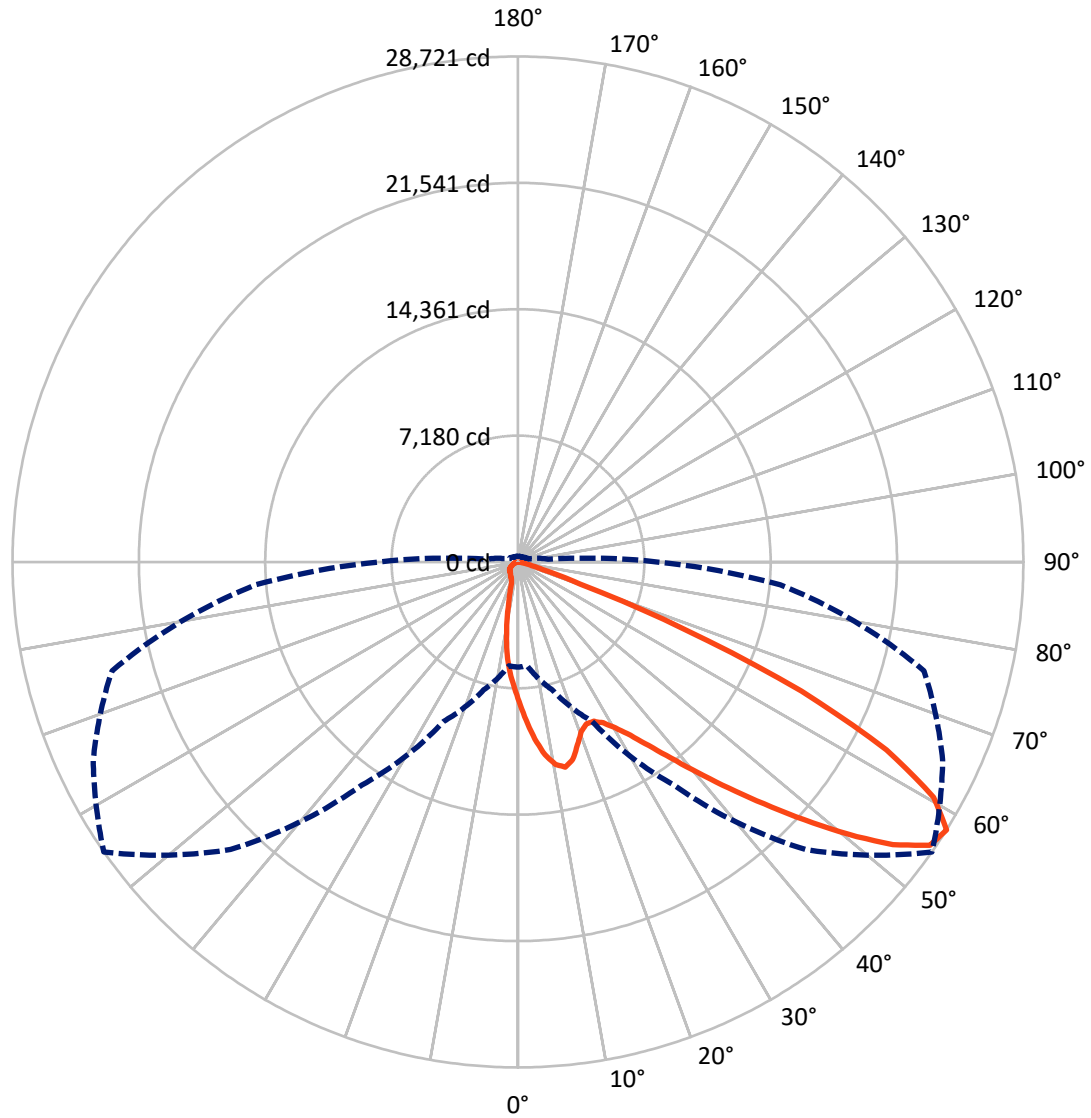
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	2569.8	0.0	2569.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	30336.2	0.0	30336.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	32906.0	0.0	32906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	2.2
10°-20°	1782.2	5.4
20°-30°	2851.4	8.7
30°-40°	4826.2	14.7
40°-50°	7923.6	24.1
50°-60°	8708.6	26.5
60°-70°	4995.3	15.2
70°-80°	1020.7	3.1
80°-90°	60.2	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°	32906.0	100.0
0°-180°	32906.0	100.0

Coefficient of Utilization



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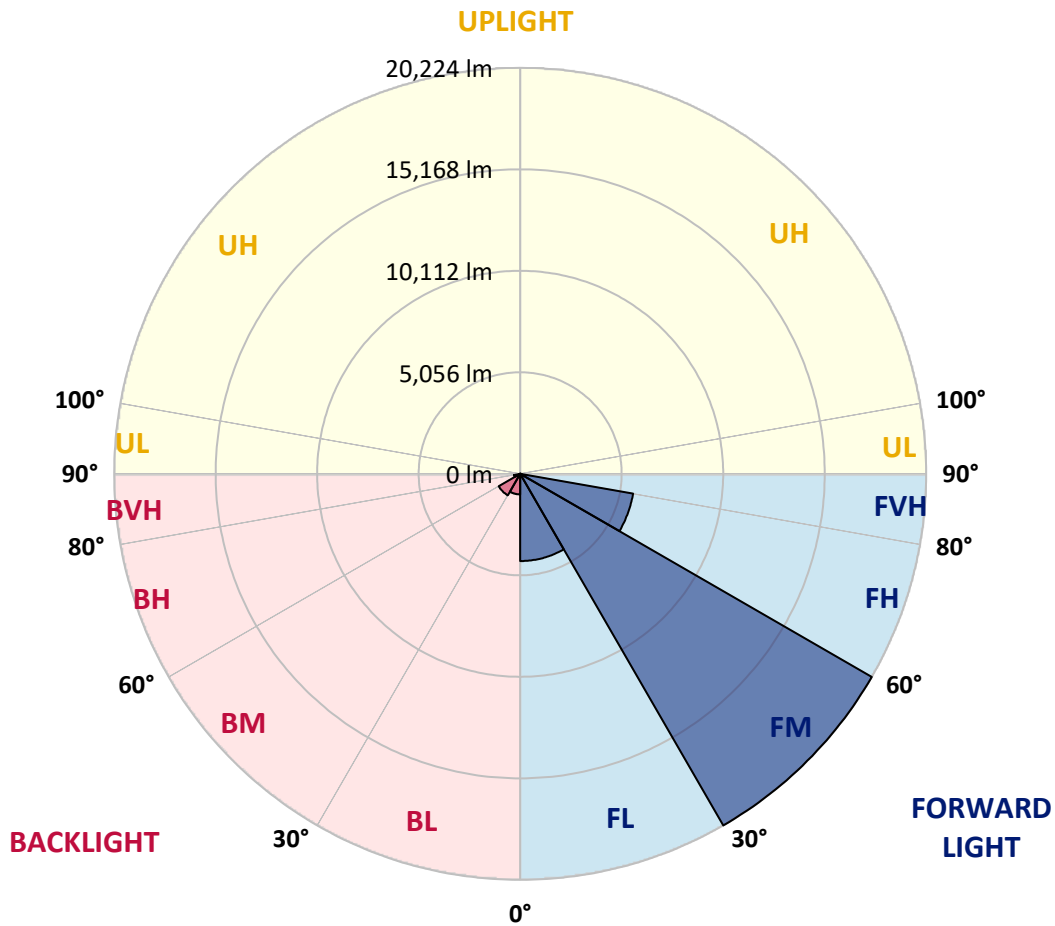
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4345.4	13.2			
FM (30°-60°)	20224.3	61.5			
FH (60°-80°)	5710.3	17.4			G3/7500
FVH (80°-90°)	56.1	0.2			G1/100
BL (0°-30°)	1025.9	3.1	B3/2500		
BM (30°-60°)	1234.2	3.8	B2/2500		
BH (60°-80°)	305.6	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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°	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5
2.5°	9838.9	9715.1	9696.8	9672.5	9437.1	9260.6	9004.9	8724.9	8410.4	8089.8
5°	11366.7	11269.4	11251.1	11137.5	10869.6	10569.3	10114.8	9540.6	8954.2	8264.3
7.5°	11663.0	11644.7	11727.9	11723.9	11687.3	11449.9	11066.4	10382.7	9502.1	8479.4
10°	10342.1	10388.7	10636.3	10853.4	11439.8	11780.7	11697.5	11133.4	10066.1	8724.9
12.5°	9138.8	9084.1	9260.6	9506.1	10187.9	11202.4	11959.2	11760.4	10711.4	9002.9
15°	8384.0	8361.7	8461.1	8574.8	9094.2	10116.9	11654.9	12269.7	11332.3	9331.6
17.5°	8142.6	8124.3	8154.8	8183.2	8520.0	9311.3	10930.5	12582.2	11926.8	9707.0
20°	8339.4	8315.1	8311.0	8288.7	8428.7	8968.4	10275.1	12604.5	12460.4	10047.9
22.5°	8913.6	8885.2	8785.8	8696.5	8708.7	9015.1	9982.9	12381.3	12862.2	10366.4
25°	9954.5	9907.9	9700.9	9400.6	9209.9	9339.7	10027.6	12087.1	13245.7	10616.0
27.5°	11257.2	11196.3	10930.5	10484.1	10047.9	9889.6	10350.2	11884.2	13564.2	10806.7
30°	12533.5	12454.3	12192.6	11845.6	11208.5	10709.3	10932.5	11973.4	13943.6	11005.6
32.5°	13911.2	13836.1	13489.1	13059.0	12531.4	11859.8	11729.9	12409.7	14408.3	11283.6
35°	15654.1	15536.5	15043.4	14457.0	13897.0	13217.2	12809.4	13162.5	15027.2	11707.6
37.5°	17638.5	17480.3	16948.7	16139.1	15408.6	14647.7	14124.2	14197.3	15934.1	12275.8
40°	19509.3	19365.3	18874.2	18111.3	17194.2	16271.0	15713.0	15550.7	17186.1	12967.7
42.5°	20631.4	20501.5	20294.6	19972.0	19198.9	18257.4	17553.3	17202.3	18667.3	13795.5
45°	20694.3	20580.7	20858.7	21234.0	21081.8	20454.9	19596.6	18953.4	20154.6	14572.7
47.5°	19687.9	19610.8	20454.9	21765.6	22419.0	22682.8	21891.4	20558.4	21382.1	15130.6
50°	16944.6	16916.2	18653.1	21059.5	22928.3	24634.7	24312.1	22051.7	22333.8	15418.8
52.5°	14692.4	14588.9	15601.4	18799.2	22187.7	25661.4	26678.0	23516.7	22999.3	15473.6
55°	11143.6	11052.2	12322.4	15017.0	19799.5	25296.2	28408.8	25028.4	23476.1	15333.5
57.5°	5977.6	5920.8	7525.8	9995.1	15477.6	23104.8	28721.2	26627.2	23877.9	14962.2
60°	2327.3	2317.2	2917.8	4849.4	9406.7	18797.1	27144.7	27587.0	24129.5	14505.7
62.5°	1408.2	1438.6	1536.0	2177.2	4155.5	11677.2	23510.6	26495.4	24297.9	14087.7
65°	1164.7	1166.7	1178.9	1495.4	1990.5	4886.0	17699.4	22903.9	23881.9	13343.0
67.5°	998.3	1016.6	1063.2	1187.0	1404.1	2142.7	10189.9	17742.0	21351.7	11610.2
70°	787.3	811.6	870.5	976.0	1083.5	1341.2	3765.9	11805.0	16311.5	8751.3
72.5°	663.5	661.5	691.9	793.4	860.3	943.5	1448.7	6614.7	9479.7	4177.8
75°	513.4	533.6	572.2	663.5	704.1	683.8	785.2	2416.6	3396.6	1266.1
77.5°	401.8	418.0	452.5	541.8	582.3	484.9	452.5	864.4	1091.6	454.5
80°	180.6	194.8	308.4	399.7	474.8	334.8	245.5	442.3	484.9	207.0
82.5°	32.5	54.8	180.6	211.0	243.5	217.1	127.8	229.3	237.4	83.2
85°	2.0	4.1	62.9	77.1	97.4	71.0	38.6	91.3	79.1	28.4
87.5°	0.0	0.0	0.0	2.0	2.0	10.1	12.2	16.2	12.2	10.1
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°
7929.5	0°	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5	7929.5
7947.8	2.5°	7801.7	7513.6	7233.6	7004.3	6870.4	6643.1	6493.0	6468.6	6405.7	6460.5
7968.1	5°	7651.6	7136.2	6614.7	6148.0	5764.5	5269.4	4900.2	4743.9	4608.0	4654.6
8020.8	7.5°	7580.5	6766.9	5955.3	5157.9	4338.1	3546.8	2958.4	2712.8	2526.2	2552.5
8079.7	10°	7485.2	6383.4	5111.2	3893.8	2796.0	2014.8	1609.0	1458.9	1375.7	1377.7
8166.9	12.5°	7412.1	5924.8	4131.1	2639.8	1702.4	1286.4	1160.6	1124.1	1099.7	1101.8
8298.8	15°	7375.6	5385.1	3163.3	1759.2	1217.4	1089.6	1059.2	1042.9	1026.7	1024.7
8444.9	17.5°	7314.7	4784.5	2315.1	1284.4	1065.3	1020.6	994.2	976.0	955.7	951.6
8570.7	20°	7223.4	4102.7	1692.2	1085.5	998.3	963.8	927.3	902.9	878.6	874.5
8649.8	22.5°	7055.0	3382.4	1300.6	1004.4	949.6	911.0	866.4	838.0	813.6	809.6
8611.3	25°	6742.5	2706.8	1095.7	953.7	907.0	860.3	811.6	773.1	750.7	746.7
8528.1	27.5°	6346.9	2126.4	994.2	907.0	852.2	809.6	754.8	718.3	698.0	693.9
8418.5	30°	5880.2	1637.4	935.4	854.2	787.3	750.7	702.1	671.6	659.4	659.4
8341.4	32.5°	5377.0	1308.7	911.0	801.5	730.5	689.9	651.3	639.2	635.1	633.1
8384.0	35°	4904.2	1136.3	898.9	758.9	679.7	641.2	624.9	627.0	635.1	635.1
8515.9	37.5°	4484.2	1081.5	892.8	728.4	635.1	600.6	610.7	629.0	620.9	620.9
8747.2	40°	4104.8	1087.6	888.7	706.1	598.6	578.3	598.6	584.4	564.1	562.0
9029.3	42.5°	3814.6	1138.3	880.6	687.8	576.3	562.0	553.9	531.6	529.6	533.6
9321.5	45°	3603.6	1182.9	878.6	679.7	551.9	525.5	515.4	493.1	533.6	543.8
9441.2	47.5°	3354.0	1182.9	878.6	651.3	511.3	501.2	484.9	460.6	501.2	511.3
9327.6	50°	3031.4	1107.9	844.1	618.9	478.9	472.8	444.4	413.9	405.8	411.9
9061.7	52.5°	2623.6	971.9	756.8	574.2	446.4	434.2	399.7	377.4	371.3	371.3
8584.9	55°	2158.9	813.6	639.2	509.3	411.9	389.6	365.2	355.1	349.0	344.9
7917.4	57.5°	1755.1	667.6	513.4	452.5	379.4	351.0	342.9	330.7	320.6	314.5
7359.4	60°	1440.6	525.5	424.1	401.8	347.0	320.6	318.6	302.3	276.0	271.9
6898.8	62.5°	1111.9	385.5	357.1	349.0	314.5	292.2	288.1	255.7	215.1	207.0
6245.4	65°	785.2	300.3	288.1	306.4	280.0	259.7	249.6	200.9	158.3	152.2
5226.8	67.5°	551.9	251.6	227.3	267.8	243.5	217.1	211.0	170.4	131.9	127.8
3952.6	70°	393.6	204.9	186.7	229.3	194.8	190.7	178.6	142.0	107.5	103.5
1956.0	72.5°	278.0	156.2	144.1	198.8	133.9	164.4	146.1	109.6	81.2	77.1
665.5	75°	204.9	111.6	101.5	115.7	97.4	123.8	103.5	73.0	50.7	48.7
300.3	77.5°	150.1	71.0	60.9	56.8	56.8	77.1	56.8	30.4	22.3	20.3
152.2	80°	105.5	32.5	28.4	24.3	22.3	18.3	8.1	4.1	2.0	2.0
52.8	82.5°	62.9	14.2	14.2	10.1	6.1	0.0	0.0	0.0	0.0	0.0
20.3	85°	14.2	6.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	2.0	2.0	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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