

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: P955857

Luminaire Tested: **GALN-SB8C-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955857  
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-SB8C-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

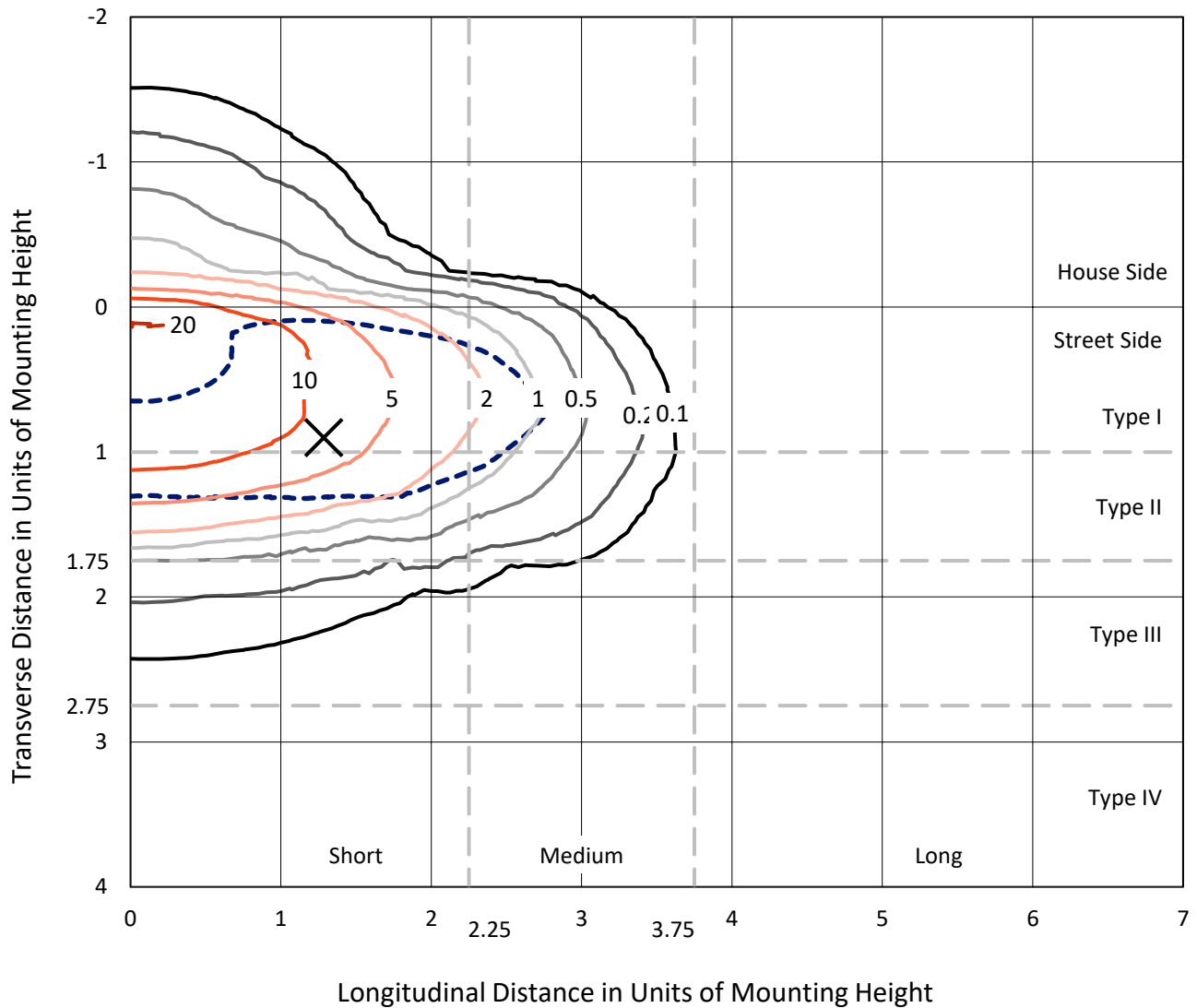
Lumens per Lamp: N/A  
Luminaire Lumens: 37415 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

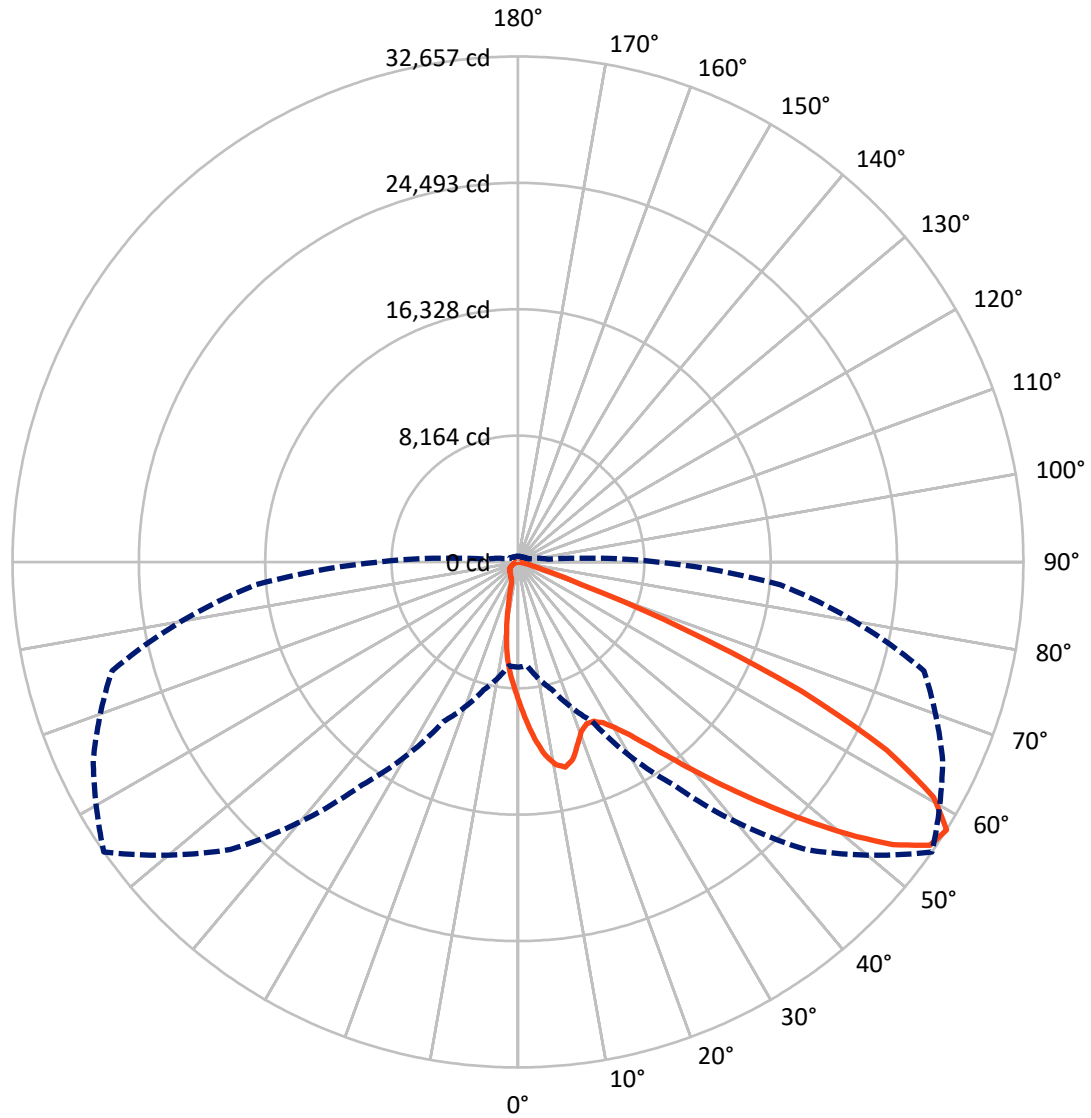
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2922.0	0.0	2922.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	34493.0	0.0	34493.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	37415.0	0.0	37415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.9	2.2
10°-20°	2026.4	5.4
20°-30°	3242.1	8.7
30°-40°	5487.5	14.7
40°-50°	9009.4	24.1
50°-60°	9901.9	26.5
60°-70°	5679.8	15.2
70°-80°	1160.5	3.1
80°-90°	68.5	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°	37415.0	100.0
0°-180°	37415.0	100.0

**Coefficient of Utilization**



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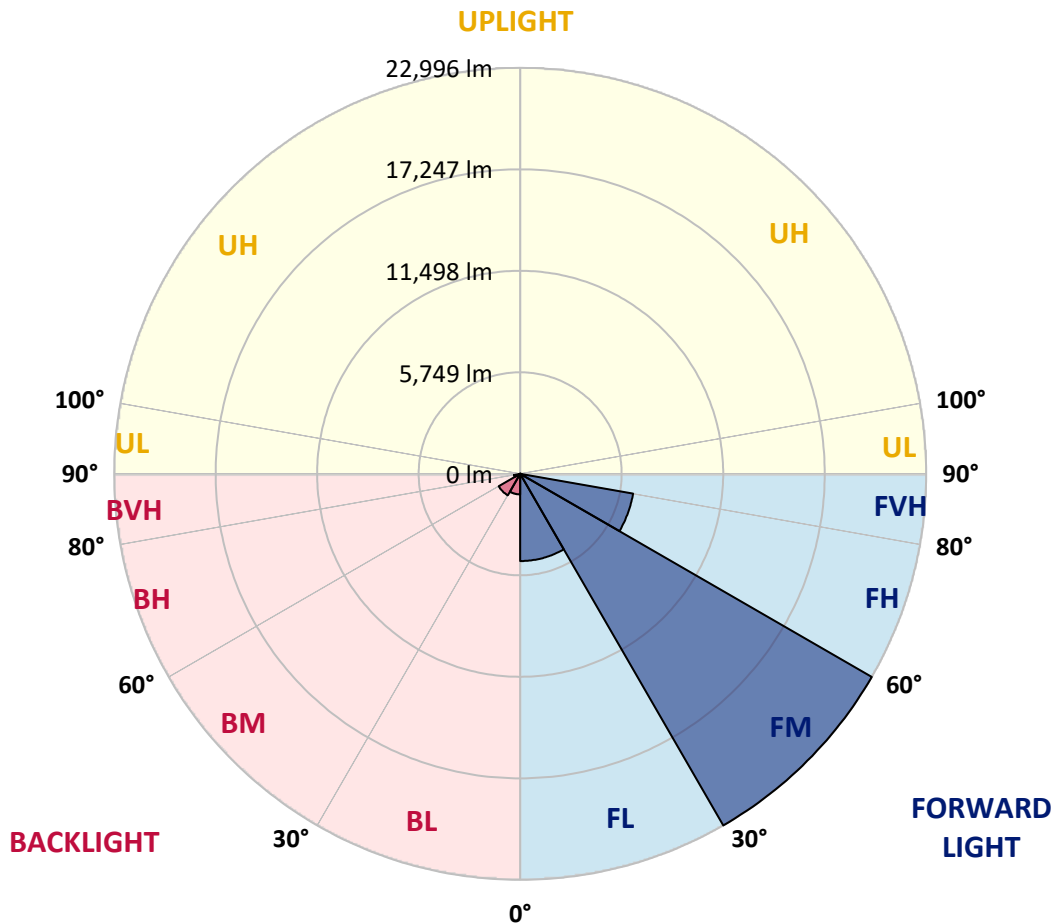
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4940.9	13.2			
FM (30°-60°)	22995.5	61.5			
FH (60°-80°)	6492.8	17.4			G3/7500
FVH (80°-90°)	63.8	0.2			G1/100
BL (0°-30°)	1166.5	3.1	B3/2500		
BM (30°-60°)	1403.3	3.8	B2/2500		
BH (60°-80°)	347.5	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°	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1
2.5°	11187.1	11046.3	11025.6	10997.9	10730.3	10529.5	10238.8	9920.5	9562.9	9198.4
5°	12924.3	12813.6	12792.8	12663.6	12359.1	12017.6	11500.8	10847.9	10181.2	9396.8
7.5°	13261.1	13240.4	13335.0	13330.3	13288.8	13018.9	12582.8	11805.4	10804.1	9641.3
10°	11759.2	11812.3	12093.7	12340.6	13007.4	13394.9	13300.4	12659.0	11445.5	9920.5
12.5°	10391.1	10328.8	10529.5	10808.7	11583.9	12737.4	13598.0	13371.9	12179.1	10236.5
15°	9532.9	9507.5	9620.5	9749.7	10340.4	11503.1	13251.9	13951.0	12885.1	10610.3
17.5°	9258.3	9237.6	9272.2	9304.5	9687.5	10587.2	12428.3	14306.2	13561.1	11037.1
20°	9482.1	9454.4	9449.8	9424.4	9583.6	10197.3	11683.1	14331.6	14167.8	11424.7
22.5°	10135.0	10102.7	9989.7	9888.2	9902.0	10250.4	11350.9	14077.8	14624.6	11786.9
25°	11318.6	11265.5	11030.2	10688.7	10471.9	10619.5	11401.6	13743.3	15060.7	12070.7
27.5°	12799.7	12730.5	12428.3	11920.7	11424.7	11244.7	11768.4	13512.6	15422.9	12287.5
30°	14250.9	14160.9	13863.3	13468.8	12744.3	12176.8	12430.6	13614.1	15854.3	12513.6
32.5°	15817.4	15732.0	15337.5	14848.4	14248.6	13484.9	13337.3	14110.1	16382.6	12829.7
35°	17799.2	17665.4	17104.7	16438.0	15801.2	15028.4	14564.6	14966.1	17086.3	13311.9
37.5°	20055.5	19875.5	19271.1	18350.6	17520.0	16654.9	16059.6	16142.7	18117.5	13957.9
40°	22182.6	22018.8	21460.5	20593.1	19550.2	18500.5	17866.1	17681.5	19541.0	14744.6
42.5°	23458.5	23310.8	23075.5	22708.6	21829.6	20759.2	19958.6	19559.5	21225.2	15685.9
45°	23530.0	23400.8	23716.8	24143.7	23970.6	23257.7	22281.8	21550.5	22916.3	16569.5
47.5°	22385.7	22298.0	23257.7	24748.1	25491.0	25790.9	24891.2	23375.4	24312.1	17203.9
50°	19266.5	19234.2	21209.0	23945.2	26070.1	28010.3	27643.5	25073.4	25394.1	17531.5
52.5°	16705.6	16587.9	17739.2	21375.2	25228.0	29177.7	30333.6	26739.1	26150.8	17593.8
55°	12670.5	12566.7	14010.9	17074.7	22512.5	28762.4	32301.5	28457.9	26693.0	17434.7
57.5°	6796.7	6732.1	8557.0	11364.7	17598.5	26270.8	32656.8	30275.9	27149.8	17012.5
60°	2646.2	2634.7	3317.6	5513.9	10695.7	21372.8	30864.2	31367.1	27435.9	16493.4
62.5°	1601.1	1635.7	1746.5	2475.5	4724.9	13277.3	26732.2	30125.9	27627.4	16018.1
65°	1324.3	1326.6	1340.4	1700.3	2263.3	5555.5	20124.7	26042.4	27154.4	15171.4
67.5°	1135.1	1155.9	1208.9	1349.6	1596.5	2436.3	11586.2	20173.2	24277.5	13201.1
70°	895.1	922.8	989.7	1109.7	1232.0	1525.0	4282.0	13422.6	18546.7	9950.5
72.5°	754.4	752.1	786.7	902.1	978.2	1072.8	1647.3	7521.1	10778.7	4750.3
75°	583.7	606.8	650.6	754.4	800.6	777.5	892.8	2747.7	3862.1	1439.6
77.5°	456.8	475.3	514.5	616.0	662.1	551.4	514.5	982.8	1241.2	516.8
80°	205.3	221.5	350.7	454.5	539.9	380.7	279.2	502.9	551.4	235.3
82.5°	36.9	62.3	205.3	239.9	276.9	246.9	145.3	260.7	269.9	94.6
85°	2.3	4.6	71.5	87.7	110.7	80.7	43.8	103.8	90.0	32.3
87.5°	0.0	0.0	0.0	2.3	2.3	11.5	13.8	18.5	13.8	11.5
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°
9016.1	0°	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1	9016.1
9036.9	2.5°	8870.7	8543.1	8224.8	7964.1	7811.8	7553.4	7382.7	7355.0	7283.5	7345.8
9059.9	5°	8700.0	8114.0	7521.1	6990.5	6554.4	5991.5	5571.6	5394.0	5239.4	5292.5
9119.9	7.5°	8619.3	7694.1	6771.3	5864.6	4932.6	4032.8	3363.7	3084.6	2872.3	2902.3
9186.8	10°	8510.8	7258.1	5811.6	4427.3	3179.2	2290.9	1829.5	1658.8	1564.2	1566.5
9286.0	12.5°	8427.8	6736.7	4697.2	3001.5	1935.6	1462.7	1319.7	1278.1	1250.4	1252.7
9436.0	15°	8386.3	6123.0	3596.7	2000.2	1384.3	1238.9	1204.3	1185.8	1167.4	1165.1
9602.1	17.5°	8317.0	5440.1	2632.4	1460.4	1211.2	1160.5	1130.5	1109.7	1086.6	1082.0
9745.1	20°	8213.2	4664.9	1924.1	1234.3	1135.1	1095.9	1054.3	1026.7	999.0	994.4
9835.1	22.5°	8021.7	3845.9	1478.8	1142.0	1079.7	1035.9	985.1	952.8	925.1	920.5
9791.3	25°	7666.4	3077.7	1245.8	1084.3	1031.3	978.2	922.8	879.0	853.6	849.0
9696.7	27.5°	7216.6	2417.8	1130.5	1031.3	969.0	920.5	858.2	816.7	793.6	789.0
9572.1	30°	6685.9	1861.8	1063.6	971.3	895.1	853.6	798.3	763.6	749.8	749.8
9484.4	32.5°	6113.8	1488.1	1035.9	911.3	830.6	784.4	740.6	726.7	722.1	719.8
9532.9	35°	5576.2	1292.0	1022.0	862.9	772.9	729.0	710.6	712.9	722.1	722.1
9682.8	37.5°	5098.7	1229.7	1015.1	828.2	722.1	682.9	694.4	715.2	706.0	706.0
9945.8	40°	4667.2	1236.6	1010.5	802.9	680.6	657.5	680.6	664.4	641.4	639.1
10266.5	42.5°	4337.3	1294.3	1001.3	782.1	655.2	639.1	629.8	604.5	602.1	606.8
10598.8	45°	4097.4	1345.0	999.0	772.9	627.5	597.5	586.0	560.6	606.8	618.3
10734.9	47.5°	3813.6	1345.0	999.0	740.6	581.4	569.9	551.4	523.7	569.9	581.4
10605.7	50°	3446.8	1259.7	959.7	703.7	544.5	537.6	505.3	470.6	461.4	468.3
10303.4	52.5°	2983.1	1105.1	860.5	652.9	507.6	493.7	454.5	429.1	422.2	422.2
9761.3	55°	2454.7	925.1	726.7	579.1	468.3	443.0	415.3	403.7	396.8	392.2
9002.3	57.5°	1995.6	759.0	583.7	514.5	431.4	399.1	389.9	376.1	364.5	357.6
8367.8	60°	1638.0	597.5	482.2	456.8	394.5	364.5	362.2	343.8	313.8	309.1
7844.1	62.5°	1264.3	438.3	406.0	396.8	357.6	332.2	327.6	290.7	244.6	235.3
7101.2	65°	892.8	341.4	327.6	348.4	318.4	295.3	283.8	228.4	180.0	173.0
5943.1	67.5°	627.5	286.1	258.4	304.5	276.9	246.9	239.9	193.8	150.0	145.3
4494.2	70°	447.6	233.0	212.3	260.7	221.5	216.9	203.0	161.5	122.3	117.7
2224.0	72.5°	316.1	177.6	163.8	226.1	152.3	186.9	166.1	124.6	92.3	87.7
756.7	75°	233.0	126.9	115.4	131.5	110.7	140.7	117.7	83.1	57.7	55.4
341.4	77.5°	170.7	80.7	69.2	64.6	64.6	87.7	64.6	34.6	25.4	23.1
173.0	80°	120.0	36.9	32.3	27.7	25.4	20.8	9.2	4.6	2.3	2.3
60.0	82.5°	71.5	16.1	16.1	11.5	6.9	0.0	0.0	0.0	0.0	0.0
23.1	85°	16.1	6.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.2	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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