

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: P956319

Luminaire Tested: **GALN-SB9A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956319
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-SB9A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA 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: 34836 lumens
Efficiency: N/A
Efficacy: 136.3 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

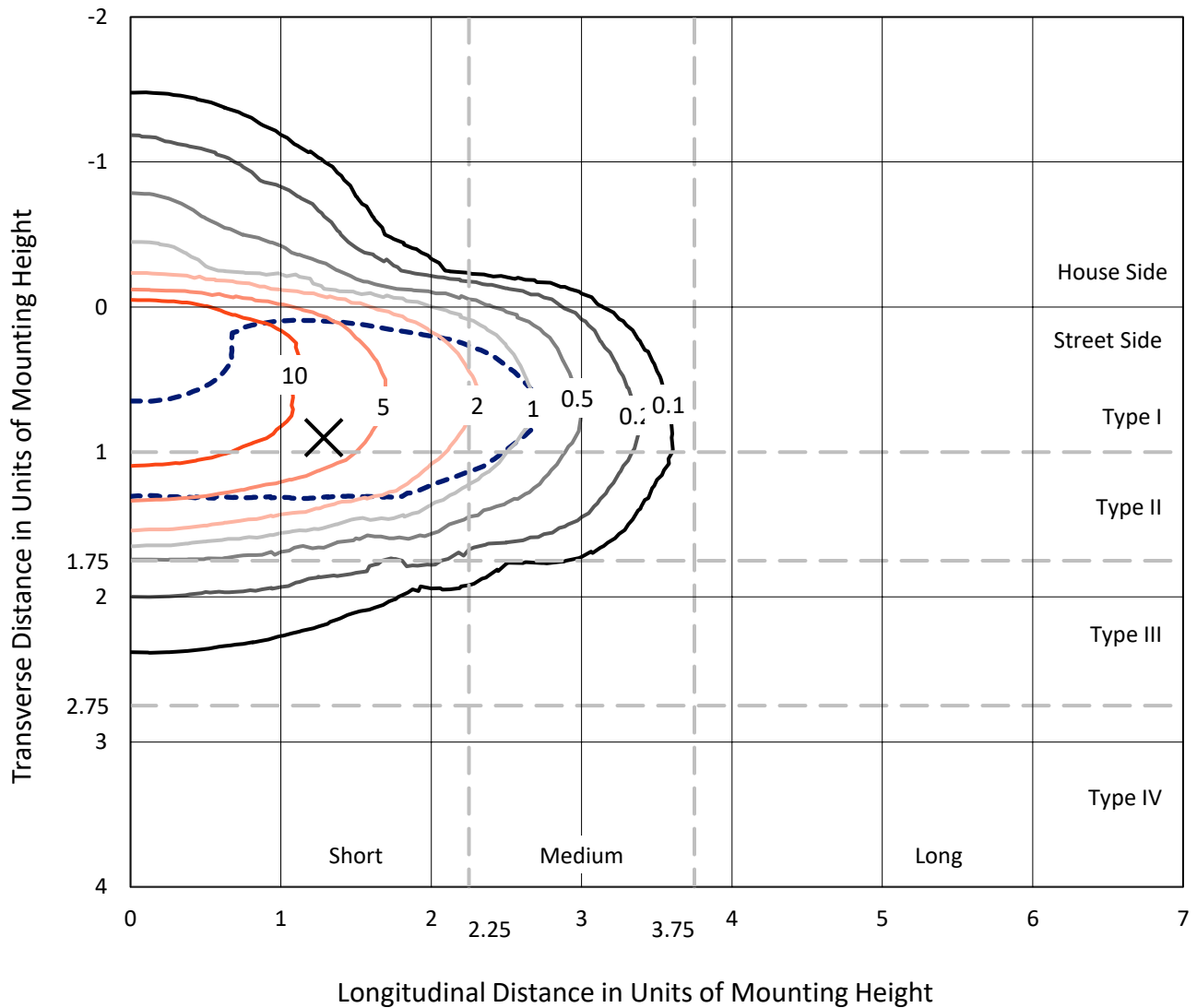
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

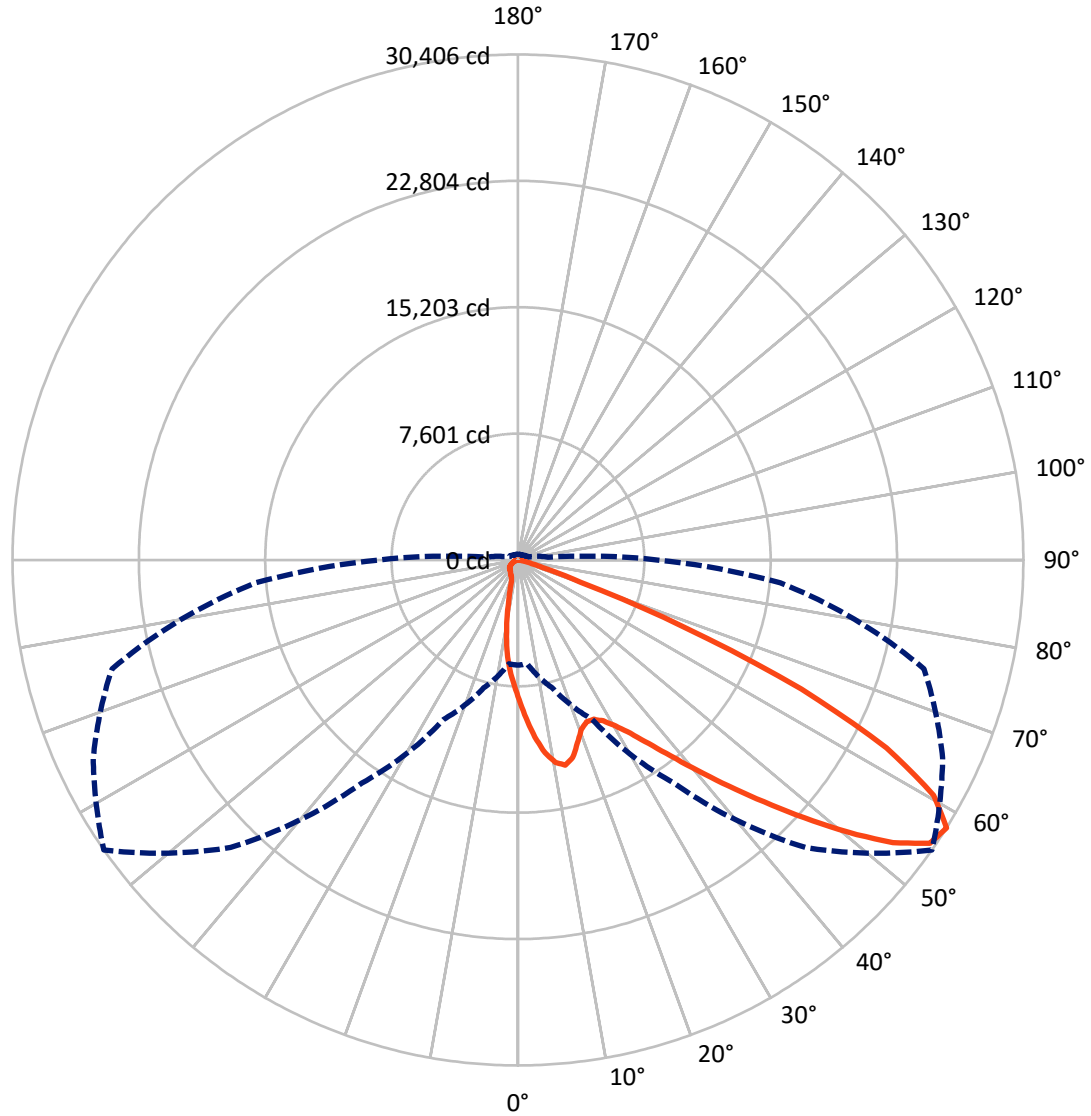
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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	2720.5	0.0	2720.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32115.5	0.0	32115.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	34836.0	0.0	34836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.1	2.2
10°-20°	1886.7	5.4
20°-30°	3018.7	8.7
30°-40°	5109.3	14.7
40°-50°	8388.4	24.1
50°-60°	9219.4	26.5
60°-70°	5288.2	15.2
70°-80°	1080.5	3.1
80°-90°	63.7	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°	34836.0	100.0
0°-180°	34836.0	100.0

Coefficient of Utilization



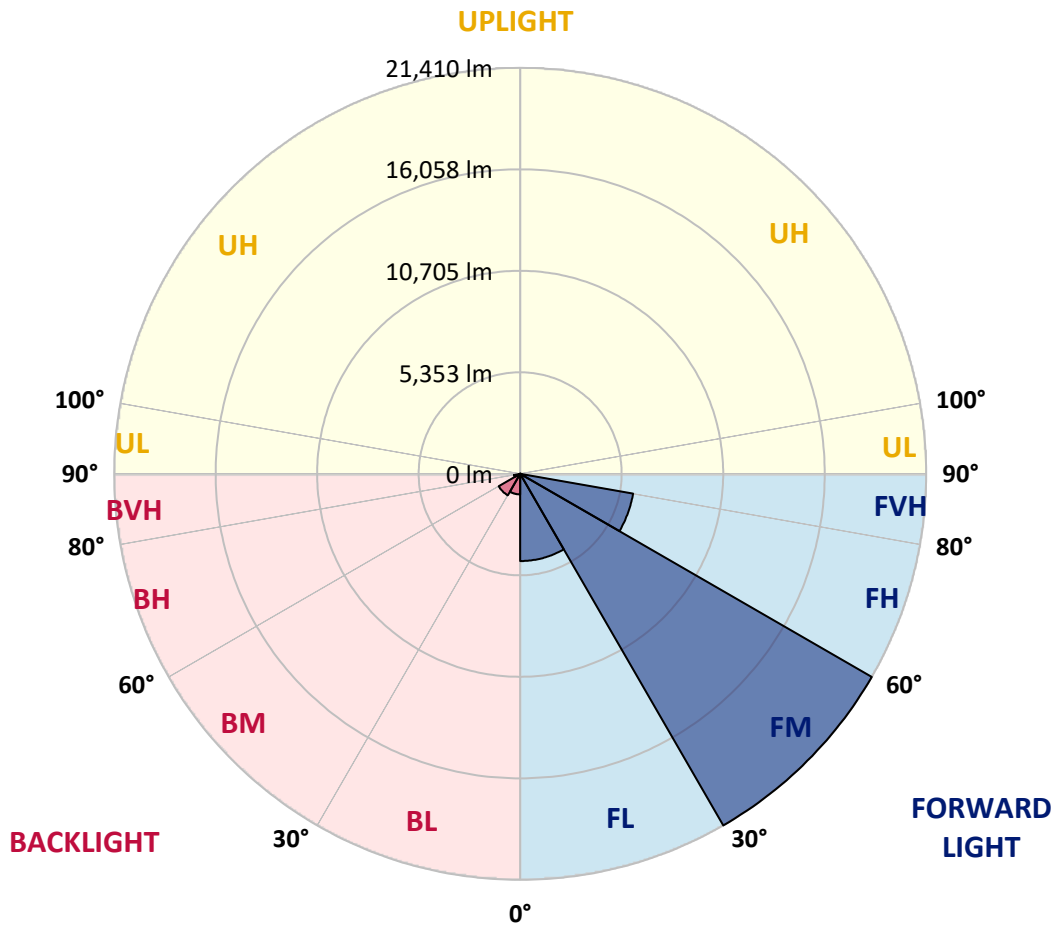
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4600.3	13.2			
FM (30°-60°)	21410.5	61.5			
FH (60°-80°)	6045.2	17.4			G3/7500
FVH (80°-90°)	59.4	0.2			G1/100
BL (0°-30°)	1086.1	3.1	B3/2500		
BM (30°-60°)	1306.6	3.8	B2/2500		
BH (60°-80°)	323.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.3	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°	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6
2.5°	10415.9	10284.9	10265.6	10239.8	9990.6	9803.7	9533.1	9236.7	8903.7	8564.3
5°	12033.4	11930.3	11911.0	11790.7	11507.2	11189.2	10708.1	10100.2	9479.4	8749.0
7.5°	12347.0	12327.7	12415.8	12411.5	12372.8	12121.5	11715.5	10991.6	10059.4	8976.7
10°	10948.7	10998.1	11260.1	11490.0	12110.8	12471.6	12383.6	11786.4	10656.5	9236.7
12.5°	9674.9	9616.9	9803.7	10063.7	10785.4	11859.4	12660.7	12450.2	11339.6	9530.9
15°	8875.8	8852.2	8957.4	9077.7	9627.6	10710.2	12338.5	12989.3	11996.9	9878.9
17.5°	8620.2	8600.8	8633.1	8663.1	9019.7	9857.4	11571.6	13320.1	12626.3	10276.3
20°	8828.5	8802.7	8798.5	8774.8	8923.0	9494.4	10877.8	13343.7	13191.2	10637.2
22.5°	9436.4	9406.4	9301.1	9206.6	9219.5	9543.8	10568.5	13107.5	13616.6	10974.4
25°	10538.4	10489.0	10269.9	9952.0	9750.0	9887.5	10615.7	12796.0	14022.5	11238.6
27.5°	11917.4	11853.0	11571.6	11099.0	10637.2	10469.6	10957.3	12581.2	14359.8	11440.6
30°	13268.6	13184.8	12907.7	12540.4	11865.9	11337.5	11573.7	12675.7	14761.5	11651.1
32.5°	14727.1	14647.6	14280.3	13824.9	13266.4	12555.4	12417.9	13137.5	15253.4	11945.4
35°	16572.3	16447.7	15925.7	15304.9	14712.1	13992.5	13560.7	13934.5	15908.5	12394.3
37.5°	18673.1	18505.5	17942.7	17085.7	16312.4	15506.8	14952.6	15030.0	16868.7	12995.8
40°	20653.6	20501.1	19981.3	19173.6	18202.7	17225.3	16634.6	16462.7	18194.1	13728.2
42.5°	21841.5	21704.0	21484.9	21143.4	20324.9	19328.2	18582.9	18211.3	19762.1	14604.7
45°	21908.1	21787.8	22082.1	22479.4	22318.3	21654.6	20746.0	20065.0	21336.7	15427.4
47.5°	20842.6	20761.0	21654.6	23042.2	23733.9	24013.2	23175.4	21764.1	22636.3	16018.1
50°	17938.4	17908.4	19747.1	22294.7	24273.1	26079.6	25738.1	23345.1	23643.7	16323.1
52.5°	15554.1	15444.5	16516.4	19901.8	23489.0	27166.5	28242.7	24896.0	24348.3	16381.1
55°	11797.1	11700.5	13045.2	15897.8	20960.8	26779.9	30075.0	26496.3	24853.1	16232.9
57.5°	6328.2	6268.0	7967.2	10581.3	16385.4	24460.0	30405.8	28189.0	25278.4	15839.8
60°	2463.8	2453.1	3088.9	5133.9	9958.4	19899.6	28736.7	29205.0	25544.7	15356.5
62.5°	1490.8	1523.0	1626.1	2304.9	4399.2	12362.1	24889.6	28049.4	25723.0	14914.0
65°	1233.0	1235.1	1248.0	1583.1	2107.2	5172.5	18737.5	24247.3	25282.7	14125.6
67.5°	1056.8	1076.2	1125.6	1256.6	1486.5	2268.4	10787.6	18782.6	22604.0	12291.2
70°	833.4	859.2	921.5	1033.2	1147.1	1419.9	3986.8	12497.4	17268.3	9264.6
72.5°	702.4	700.3	732.5	839.9	910.8	998.8	1533.7	7002.7	10035.7	4422.9
75°	543.5	564.9	605.8	702.4	745.4	723.9	831.3	2558.3	3595.9	1340.4
77.5°	425.3	442.5	479.0	573.5	616.5	513.4	479.0	915.1	1155.7	481.2
80°	191.2	206.2	326.5	423.2	502.6	354.4	259.9	468.3	513.4	219.1
82.5°	34.4	58.0	191.2	223.4	257.8	229.8	135.3	242.7	251.3	88.1
85°	2.1	4.3	66.6	81.6	103.1	75.2	40.8	96.7	83.8	30.1
87.5°	0.0	0.0	0.0	2.1	2.1	10.7	12.9	17.2	12.9	10.7
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°
8394.6	0°	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6	8394.6
8413.9	2.5°	8259.3	7954.3	7657.8	7415.1	7273.3	7032.7	6873.8	6848.0	6781.4	6839.4
8435.4	5°	8100.3	7554.7	7002.7	6508.6	6102.6	5578.5	5187.6	5022.2	4878.2	4927.6
8491.3	7.5°	8025.2	7163.8	6304.6	5460.4	4592.6	3754.8	3131.9	2872.0	2674.3	2702.3
8553.6	10°	7924.2	6757.8	5411.0	4122.1	2960.0	2133.0	1703.4	1544.5	1456.4	1458.5
8645.9	12.5°	7846.9	6272.3	4373.4	2794.6	1802.2	1361.9	1228.7	1190.0	1164.2	1166.4
8785.6	15°	7808.2	5701.0	3348.8	1862.4	1288.8	1153.5	1121.3	1104.1	1086.9	1084.8
8940.2	17.5°	7743.8	5065.1	2450.9	1359.7	1127.7	1080.5	1052.5	1033.2	1011.7	1007.4
9073.4	20°	7647.1	4343.4	1791.5	1149.2	1056.8	1020.3	981.7	955.9	930.1	925.8
9157.2	22.5°	7468.8	3580.8	1376.9	1063.3	1005.3	964.5	917.2	887.1	861.4	857.1
9116.4	25°	7138.0	2865.5	1160.0	1009.6	960.2	910.8	859.2	818.4	794.8	790.5
9028.3	27.5°	6719.1	2251.2	1052.5	960.2	902.2	857.1	799.1	760.4	738.9	734.6
8912.3	30°	6225.1	1733.5	990.3	904.3	833.4	794.8	743.2	711.0	698.1	698.1
8830.7	32.5°	5692.4	1385.5	964.5	848.5	773.3	730.3	689.5	676.6	672.3	670.2
8875.8	35°	5191.9	1202.9	951.6	803.4	719.6	678.8	661.6	663.8	672.3	672.3
9015.4	37.5°	4747.2	1144.9	945.1	771.2	672.3	635.8	646.6	665.9	657.3	657.3
9260.3	40°	4345.5	1151.4	940.9	747.5	633.7	612.2	633.7	618.6	597.2	595.0
9558.9	42.5°	4038.4	1205.1	932.3	728.2	610.0	595.0	586.4	562.8	560.6	564.9
9868.2	45°	3815.0	1252.3	930.1	719.6	584.3	556.3	545.6	522.0	564.9	575.7
9994.9	47.5°	3550.7	1252.3	930.1	689.5	541.3	530.6	513.4	487.6	530.6	541.3
9874.6	50°	3209.2	1172.8	893.6	655.2	506.9	500.5	470.4	438.2	429.6	436.1
9593.2	52.5°	2777.4	1028.9	801.2	607.9	472.6	459.7	423.2	399.5	393.1	393.1
9088.4	55°	2285.5	861.4	676.6	539.2	436.1	412.4	386.7	375.9	369.5	365.2
8381.7	57.5°	1858.1	706.7	543.5	479.0	401.7	371.6	363.0	350.1	339.4	332.9
7791.0	60°	1525.1	556.3	448.9	425.3	367.3	339.4	337.2	320.1	292.1	287.8
7303.4	62.5°	1177.1	408.1	378.1	369.5	332.9	309.3	305.0	270.7	227.7	219.1
6611.7	65°	831.3	317.9	305.0	324.4	296.4	275.0	264.2	212.7	167.5	161.1
5533.4	67.5°	584.3	266.4	240.6	283.5	257.8	229.8	223.4	180.4	139.6	135.3
4184.4	70°	416.7	217.0	197.6	242.7	206.2	201.9	189.0	150.4	113.8	109.6
2070.7	72.5°	294.3	165.4	152.5	210.5	141.8	174.0	154.7	116.0	85.9	81.6
704.6	75°	217.0	118.1	107.4	122.4	103.1	131.0	109.6	77.3	53.7	51.6
317.9	77.5°	159.0	75.2	64.4	60.1	60.1	81.6	60.1	32.2	23.6	21.5
161.1	80°	111.7	34.4	30.1	25.8	23.6	19.3	8.6	4.3	2.1	2.1
55.8	82.5°	66.6	15.0	15.0	10.7	6.4	0.0	0.0	0.0	0.0	0.0
21.5	85°	15.0	6.4	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	2.1	2.1	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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