

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: P955689

Luminaire Tested: **GALN-SB8C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955689
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 44898 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

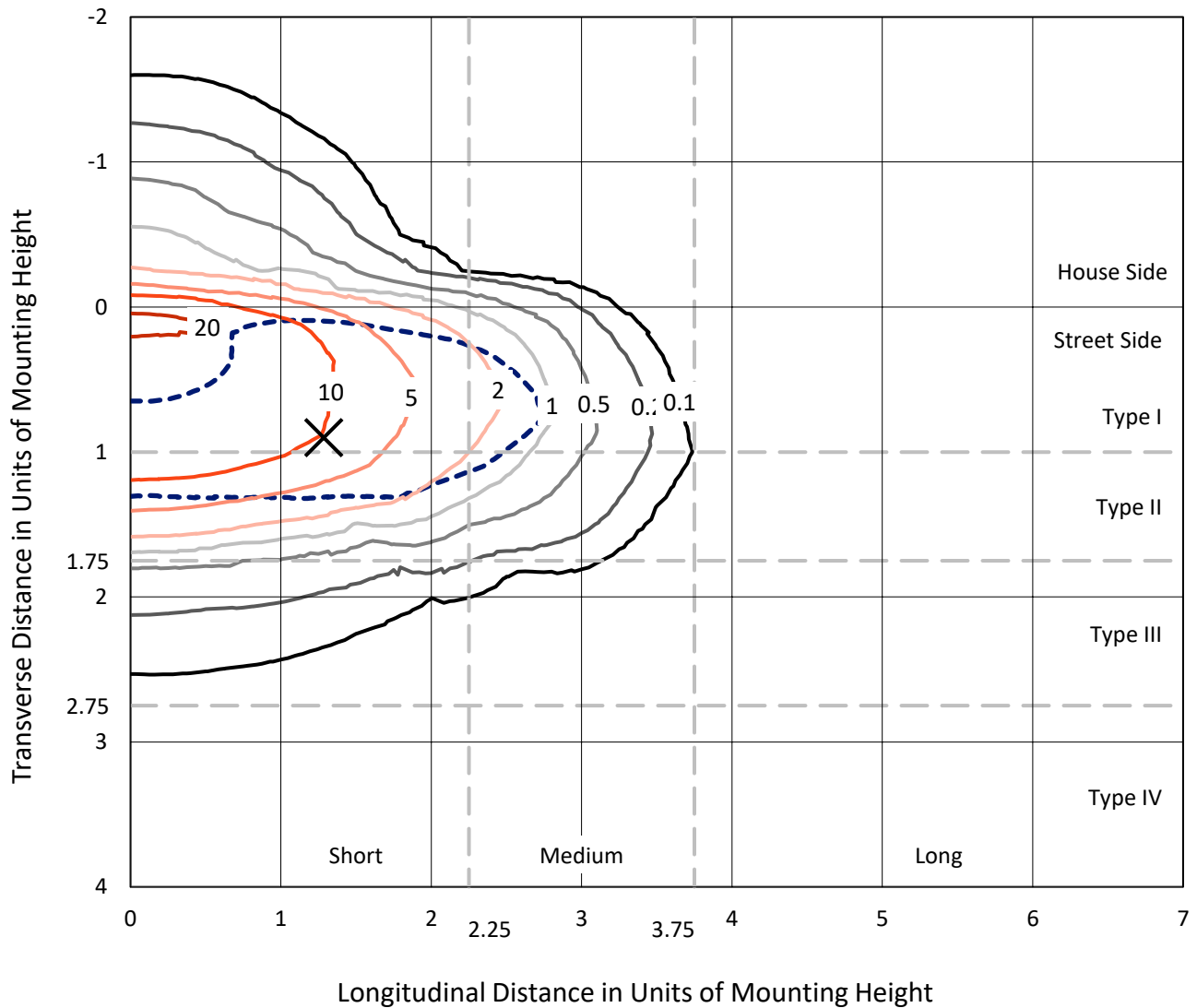
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

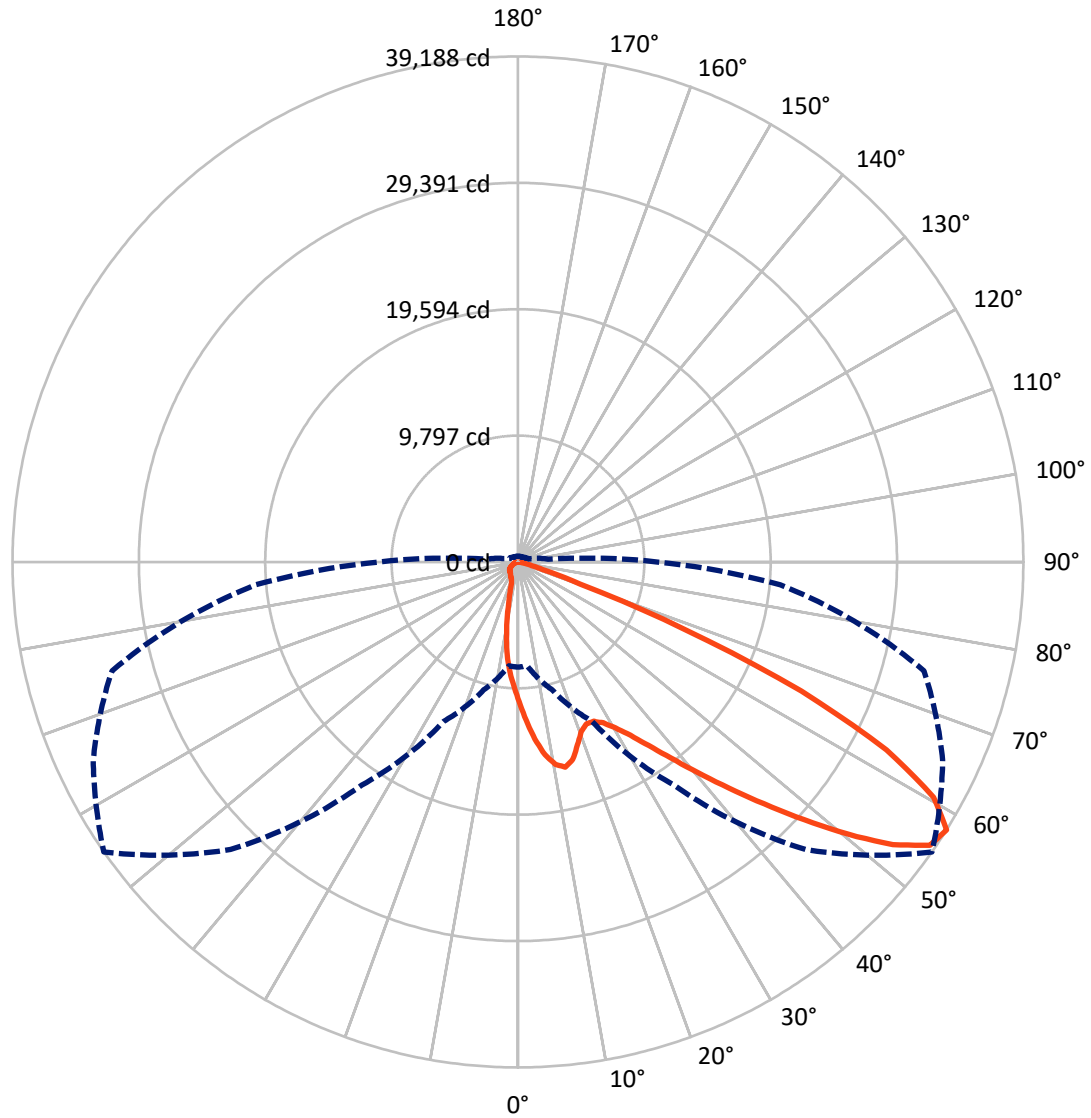
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 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	3506.3	0.0	3506.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	41391.6	0.0	41391.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	44898.0	0.0	44898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.7	2.2
10°-20°	2431.6	5.4
20°-30°	3890.6	8.7
30°-40°	6585.0	14.7
40°-50°	10811.2	24.1
50°-60°	11882.3	26.5
60°-70°	6815.7	15.2
70°-80°	1392.7	3.1
80°-90°	82.1	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°	44898.0	100.0
0°-180°	44898.0	100.0

Coefficient of Utilization



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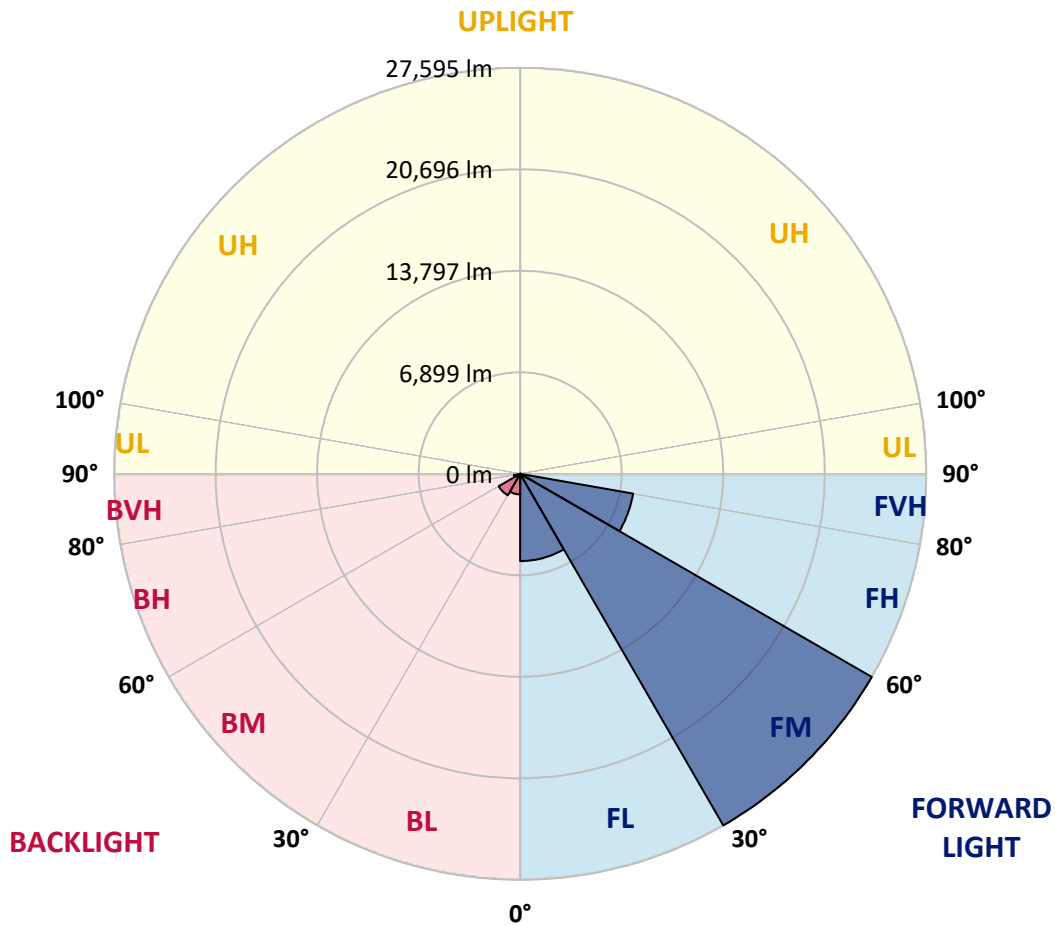
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5929.1	13.2			
FM (30°-60°)	27594.6	61.5			
FH (60°-80°)	7791.3	17.4			G4/12000
FVH (80°-90°)	76.6	0.2			G1/100
BL (0°-30°)	1399.8	3.1	B3/2500		
BM (30°-60°)	1684.0	3.8	B2/2500		
BH (60°-80°)	417.0	0.9	B1/500		G1/500
BVH (80°-90°)	5.5	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°	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3
2.5°	13424.5	13255.6	13230.7	13197.5	12876.3	12635.4	12286.6	11904.6	11475.4	11038.0
5°	15509.2	15376.3	15351.4	15196.3	14830.9	14421.1	13801.0	13017.5	12217.4	11276.1
7.5°	15913.4	15888.4	16001.9	15996.4	15946.6	15622.7	15099.4	14166.4	12964.9	11569.6
10°	14111.1	14174.7	14512.5	14808.7	15608.8	16073.9	15960.4	15190.8	13734.5	11904.6
12.5°	12469.3	12394.6	12635.4	12970.4	13900.7	15284.9	16317.6	16046.2	14614.9	12283.8
15°	11439.5	11409.0	11544.7	11699.7	12408.4	13803.8	15902.3	16741.1	15462.1	12732.3
17.5°	11110.0	11085.1	11126.6	11165.4	11624.9	12704.7	14913.9	17167.5	16273.3	13244.5
20°	11378.5	11345.3	11339.8	11309.3	11500.4	12236.8	14019.7	17197.9	17001.4	13709.6
22.5°	12162.0	12123.3	11987.6	11865.8	11882.4	12300.5	13621.0	16893.4	17549.5	14144.3
25°	13582.3	13518.6	13236.2	12826.5	12566.2	12743.4	13681.9	16492.0	18072.8	14484.8
27.5°	15359.7	15276.6	14913.9	14304.9	13709.6	13493.7	14122.1	16215.1	18507.4	14745.0
30°	17101.0	16993.1	16635.9	16162.5	15293.2	14612.2	14916.7	16336.9	19025.2	15016.4
32.5°	18980.9	18878.4	18405.0	17818.1	17098.3	16181.9	16004.7	16932.2	19659.1	15395.6
35°	21359.0	21198.4	20525.7	19725.6	18961.5	18034.0	17477.6	17959.3	20503.5	15974.3
37.5°	24066.6	23850.7	23125.3	22020.7	21024.0	19985.8	19271.6	19371.2	21741.1	16749.4
40°	26619.2	26422.6	25752.6	24711.7	23460.3	22200.6	21439.3	21217.8	23449.2	17693.5
42.5°	28150.1	27973.0	27690.6	27250.4	26195.6	24911.0	23950.3	23471.4	25470.2	18823.1
45°	28236.0	28080.9	28460.2	28972.4	28764.8	27909.3	26738.2	25860.6	27499.5	19883.4
47.5°	26862.8	26757.6	27909.3	29697.7	30589.2	30949.1	29869.4	28050.5	29174.5	20644.7
50°	23119.8	23081.0	25450.9	28734.3	31284.1	33612.4	33172.2	30088.1	30472.9	21037.9
52.5°	20046.7	19905.5	21287.0	25650.2	30273.6	35013.3	36400.3	32087.0	31381.0	21112.6
55°	15204.6	15080.0	16813.1	20489.7	27015.1	34514.9	38761.8	34149.5	32031.6	20921.6
57.5°	8156.0	8078.5	10268.4	13637.6	21118.1	31524.9	39188.2	36331.1	32579.7	20414.9
60°	3175.5	3161.6	3981.1	6616.7	12834.8	25647.4	37037.0	37640.6	32923.0	19792.0
62.5°	1921.3	1962.9	2095.8	2970.6	5669.9	15932.7	32078.6	36151.1	33152.8	19221.7
65°	1589.1	1591.9	1608.5	2040.4	2715.9	6666.6	24149.7	31250.9	32585.3	18205.7
67.5°	1362.1	1387.0	1450.7	1619.6	1915.8	2923.5	13903.4	24207.8	29133.0	15841.4
70°	1074.2	1107.4	1187.7	1331.7	1478.4	1830.0	5138.3	16107.2	22256.0	11940.6
72.5°	905.3	902.5	944.1	1082.5	1173.8	1287.4	1976.7	9025.3	12934.4	5700.3
75°	700.4	728.1	780.7	905.3	960.7	933.0	1071.4	3297.3	4634.5	1727.5
77.5°	548.2	570.3	617.4	739.2	794.6	661.7	617.4	1179.4	1489.5	620.1
80°	246.4	265.8	420.8	545.4	647.8	456.8	335.0	603.5	661.7	282.4
82.5°	44.3	74.7	246.4	287.9	332.2	296.2	174.4	312.8	323.9	113.5
85°	2.8	5.5	85.8	105.2	132.9	96.9	52.6	124.6	108.0	38.8
87.5°	0.0	0.0	0.0	2.8	2.8	13.8	16.6	22.1	16.6	13.8
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°
10819.3	0°	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3	10819.3
10844.2	2.5°	10644.9	10251.8	9869.7	9556.9	9374.2	9064.1	8859.2	8826.0	8740.2	8814.9
10871.9	5°	10440.0	9736.8	9025.3	8388.6	7865.3	7189.8	6685.9	6472.8	6287.3	6350.9
10943.9	7.5°	10343.1	9233.0	8125.6	7037.5	5919.1	4839.3	4036.5	3701.5	3446.8	3482.8
11024.2	10°	10213.0	8709.7	6973.9	5312.8	3815.0	2749.1	2195.4	1990.6	1877.0	1879.8
11143.2	12.5°	10113.3	8084.0	5636.7	3601.8	2322.8	1755.2	1583.6	1533.8	1500.5	1503.3
11323.2	15°	10063.5	7347.6	4316.1	2400.3	1661.1	1486.7	1445.2	1423.0	1400.9	1398.1
11522.5	17.5°	9980.5	6528.1	3158.9	1752.5	1453.5	1392.6	1356.6	1331.7	1304.0	1298.4
11694.2	20°	9855.9	5597.9	2308.9	1481.1	1362.1	1315.0	1265.2	1232.0	1198.8	1193.2
11802.1	22.5°	9626.1	4615.1	1774.6	1370.4	1295.7	1243.1	1182.2	1143.4	1110.2	1104.6
11749.5	25°	9199.7	3693.2	1495.0	1301.2	1237.5	1173.8	1107.4	1054.8	1024.3	1018.8
11636.0	27.5°	8659.9	2901.4	1356.6	1237.5	1162.8	1104.6	1029.9	980.1	952.4	946.8
11486.5	30°	8023.1	2234.2	1276.3	1165.5	1074.2	1024.3	957.9	916.4	899.8	899.8
11381.3	32.5°	7336.5	1785.7	1243.1	1093.6	996.7	941.3	888.7	872.1	866.5	863.8
11439.5	35°	6691.5	1550.4	1226.4	1035.4	927.4	874.8	852.7	855.5	866.5	866.5
11619.4	37.5°	6118.4	1475.6	1218.1	993.9	866.5	819.5	833.3	858.2	847.2	847.2
11935.0	40°	5600.7	1483.9	1212.6	963.4	816.7	789.0	816.7	797.3	769.6	766.9
12319.8	42.5°	5204.8	1553.1	1201.5	938.5	786.3	766.9	755.8	725.3	722.6	728.1
12718.5	45°	4916.9	1614.0	1198.8	927.4	753.0	717.0	703.2	672.7	728.1	742.0
12881.8	47.5°	4576.3	1614.0	1198.8	888.7	697.7	683.8	661.7	628.5	683.8	697.7
12726.8	50°	4136.1	1511.6	1151.7	844.4	653.4	645.1	606.3	564.8	553.7	562.0
12364.1	52.5°	3579.7	1326.1	1032.7	783.5	609.1	592.5	545.4	514.9	506.6	506.6
11713.5	55°	2945.7	1110.2	872.1	694.9	562.0	531.6	498.3	484.5	476.2	470.6
10802.7	57.5°	2394.8	910.8	700.4	617.4	517.7	479.0	467.9	451.3	437.4	429.1
10041.4	60°	1965.6	717.0	578.6	548.2	473.4	437.4	434.7	412.5	376.5	371.0
9412.9	62.5°	1517.1	526.0	487.3	476.2	429.1	398.7	393.1	348.8	293.5	282.4
8521.5	65°	1071.4	409.7	393.1	418.0	382.1	354.4	340.5	274.1	215.9	207.6
7131.7	67.5°	753.0	343.3	310.1	365.4	332.2	296.2	287.9	232.6	180.0	174.4
5393.0	70°	537.1	279.6	254.7	312.8	265.8	260.2	243.6	193.8	146.7	141.2
2668.8	72.5°	379.3	213.2	196.6	271.3	182.7	224.2	199.3	149.5	110.7	105.2
908.1	75°	279.6	152.3	138.4	157.8	132.9	168.9	141.2	99.7	69.2	66.4
409.7	77.5°	204.9	96.9	83.1	77.5	77.5	105.2	77.5	41.5	30.5	27.7
207.6	80°	144.0	44.3	38.8	33.2	30.5	24.9	11.1	5.5	2.8	2.8
72.0	82.5°	85.8	19.4	19.4	13.8	8.3	0.0	0.0	0.0	0.0	0.0
27.7	85°	19.4	8.3	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
11.1	87.5°	2.8	2.8	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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