

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: P955332

Luminaire Tested: **GALN-SB8B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955332
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-SB8B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA 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: 33759 lumens
Efficiency: N/A
Efficacy: 115.3 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

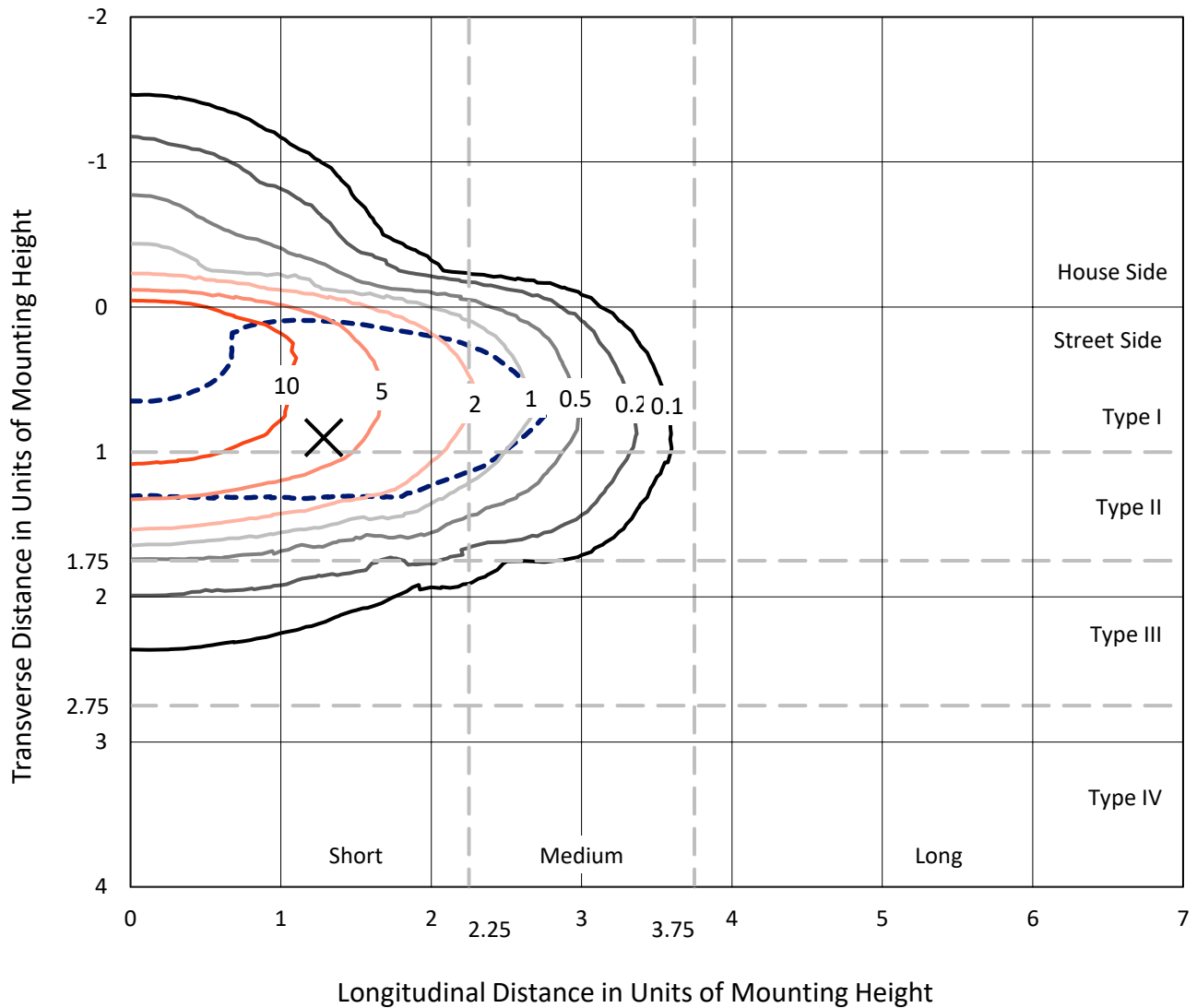
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

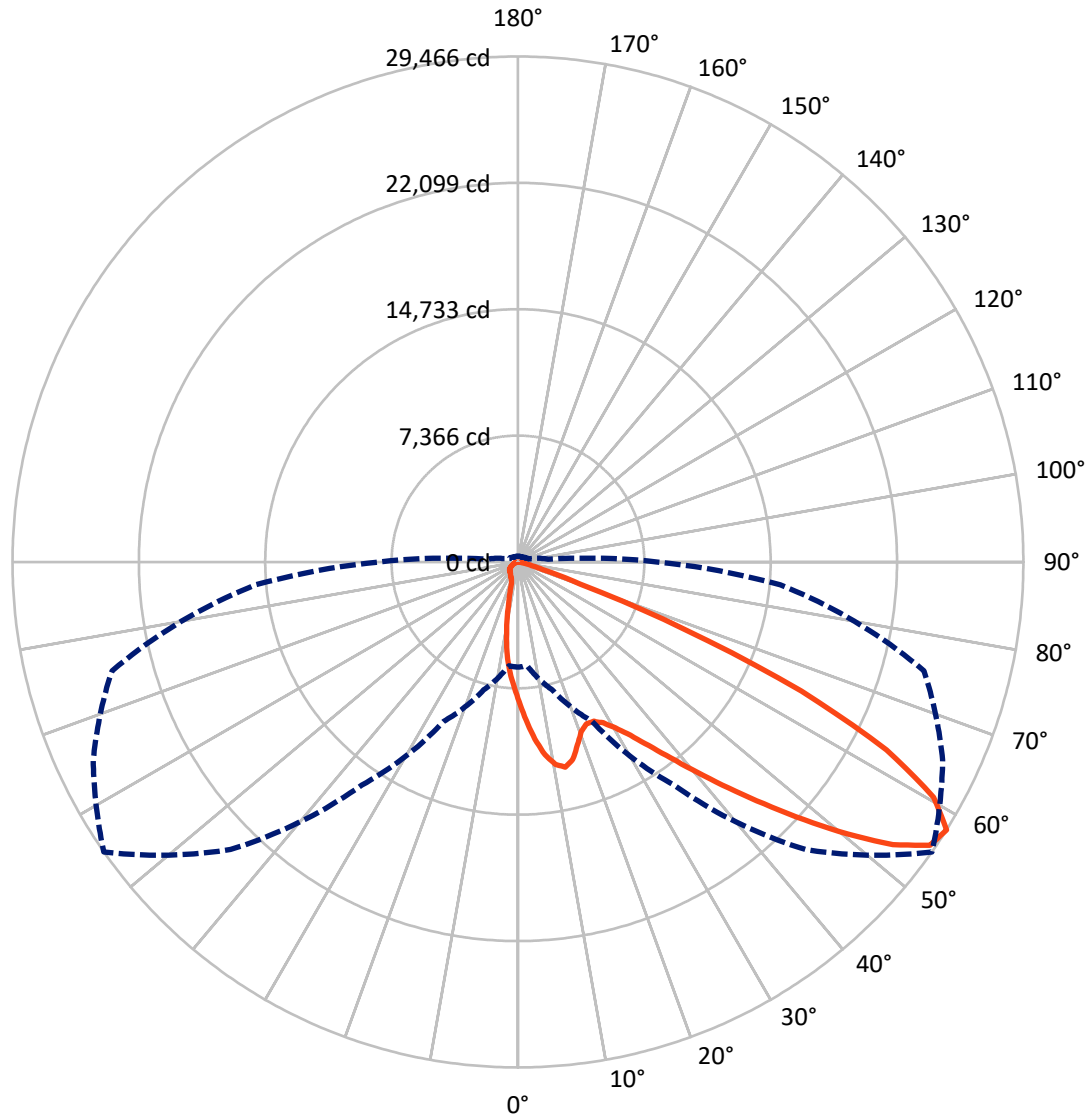
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	2636.4	0.0	2636.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	31122.6	0.0	31122.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	33759.0	0.0	33759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.9	2.2
10°-20°	1828.4	5.4
20°-30°	2925.3	8.7
30°-40°	4951.3	14.7
40°-50°	8129.0	24.1
50°-60°	8934.4	26.5
60°-70°	5124.8	15.2
70°-80°	1047.1	3.1
80°-90°	61.8	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°	33759.0	100.0
0°-180°	33759.0	100.0

Coefficient of Utilization



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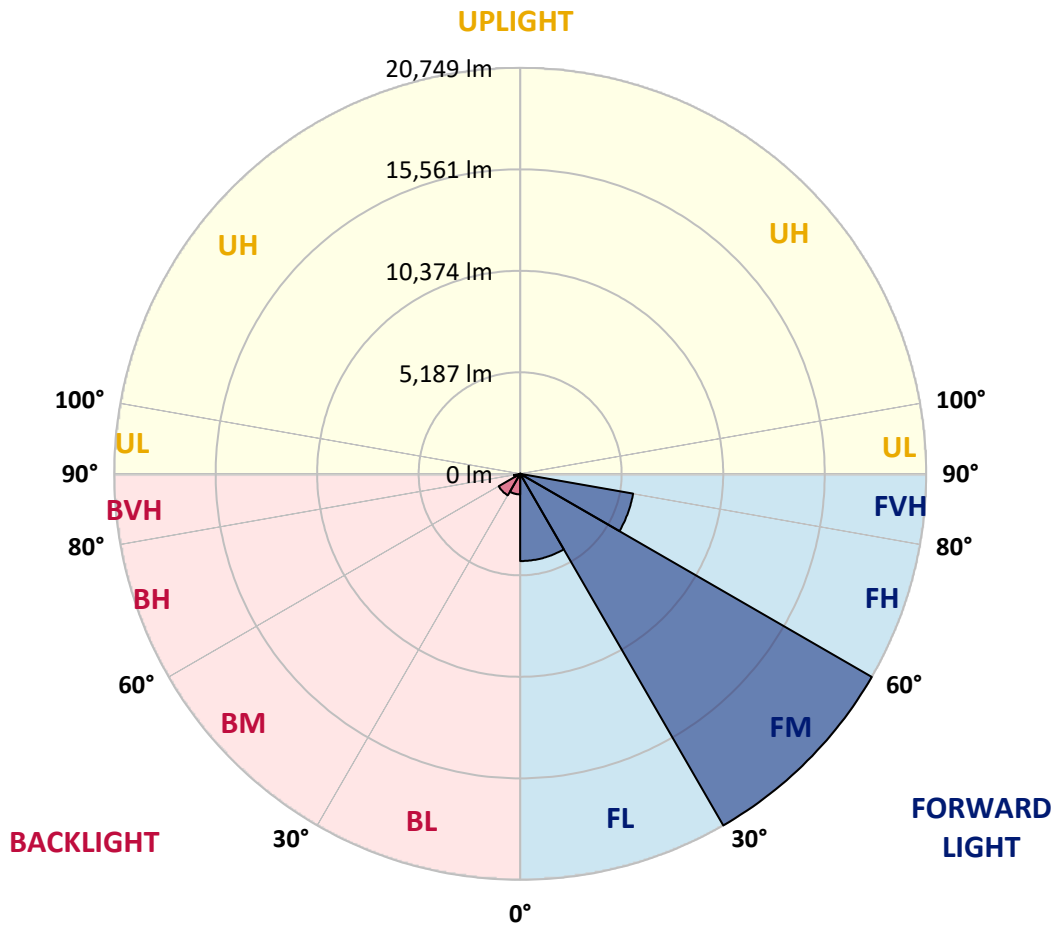
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4458.1	13.2			
FM (30°-60°)	20748.5	61.5			
FH (60°-80°)	5858.3	17.4			G3/7500
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	1052.5	3.1	B3/2500		
BM (30°-60°)	1266.2	3.8	B2/2500		
BH (60°-80°)	313.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.2	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°	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1
2.5°	10093.9	9966.9	9948.2	9923.2	9681.8	9500.6	9238.4	8951.1	8628.4	8299.5
5°	11661.4	11561.5	11542.7	11426.2	11151.4	10843.3	10377.0	9787.9	9186.3	8478.6
7.5°	11965.3	11946.6	12031.9	12027.8	11990.3	11746.7	11353.3	10651.8	9748.4	8699.2
10°	10610.2	10658.0	10912.0	11134.7	11736.3	12086.1	12000.7	11422.0	10327.1	8951.1
12.5°	9375.8	9319.5	9500.6	9752.5	10452.0	11492.8	12269.2	12065.2	10989.0	9236.3
15°	8601.4	8578.5	8680.5	8797.1	9330.0	10379.1	11957.0	12587.7	11626.0	9573.5
17.5°	8353.7	8334.9	8366.2	8395.3	8740.8	9552.7	11213.8	12908.3	12235.9	9958.6
20°	8555.6	8530.6	8526.4	8503.5	8647.2	9200.9	10541.5	12931.2	12783.4	10308.3
22.5°	9144.7	9115.5	9013.5	8922.0	8934.4	9248.8	10241.7	12702.2	13195.6	10635.1
25°	10212.6	10164.7	9952.4	9644.3	9448.6	9581.8	10287.5	12400.4	13589.0	10891.2
27.5°	11549.0	11486.5	11213.8	10755.9	10308.3	10146.0	10618.5	12192.2	13915.8	11086.9
30°	12858.4	12777.2	12508.6	12152.7	11499.0	10986.9	11215.9	12283.8	14305.1	11290.9
32.5°	14271.8	14194.8	13838.8	13397.5	12856.3	12167.2	12034.0	12731.4	14781.8	11576.1
35°	16059.9	15939.2	15433.4	14831.8	14257.2	13559.9	13141.5	13503.7	15416.7	12011.1
37.5°	18095.8	17933.4	17388.0	16557.4	15808.0	15027.4	14490.4	14565.3	16347.2	12594.0
40°	20015.1	19867.3	19363.5	18580.8	17639.9	16692.7	16120.3	15953.8	17631.6	13303.8
42.5°	21166.2	21033.0	20820.7	20489.7	19696.6	18730.7	18008.4	17648.2	19151.2	14153.1
45°	21230.7	21114.2	21399.4	21784.5	21628.3	20985.1	20104.6	19444.7	20677.0	14950.4
47.5°	20198.2	20119.1	20985.1	22329.9	23000.1	23270.8	22458.9	21091.3	21936.4	15522.9
50°	17383.9	17354.7	19136.6	21605.4	23522.6	25273.3	24942.3	22623.4	22912.7	15818.5
52.5°	15073.2	14967.1	16005.8	19286.5	22762.8	26326.6	27369.5	24126.3	23595.5	15874.7
55°	11432.4	11338.7	12641.9	15406.3	20312.7	25951.9	29145.2	25677.1	24084.7	15731.0
57.5°	6132.5	6074.3	7720.8	10254.2	15878.8	23703.7	29465.8	27317.5	24496.9	15350.1
60°	2387.7	2377.2	2993.4	4975.1	9650.5	19284.4	27848.3	28302.1	24755.0	14881.7
62.5°	1444.7	1475.9	1575.8	2233.6	4263.2	11979.9	24120.1	27182.2	24927.8	14452.9
65°	1194.9	1196.9	1209.4	1534.2	2042.1	5012.6	18158.2	23497.7	24501.0	13688.9
67.5°	1024.2	1042.9	1090.8	1217.8	1440.5	2198.2	10454.0	18201.9	21905.2	11911.2
70°	807.7	832.7	893.0	1001.3	1111.6	1376.0	3863.5	12111.0	16734.4	8978.2
72.5°	680.7	678.6	709.8	813.9	882.6	968.0	1486.3	6786.2	9725.5	4286.1
75°	526.7	547.5	587.0	680.7	722.3	701.5	805.6	2479.2	3484.7	1298.9
77.5°	412.2	428.8	464.2	555.8	597.4	497.5	464.2	886.8	1119.9	466.3
80°	185.3	199.8	316.4	410.1	487.1	343.5	251.9	453.8	497.5	212.3
82.5°	33.3	56.2	185.3	216.5	249.8	222.7	131.1	235.2	243.6	85.3
85°	2.1	4.2	64.5	79.1	99.9	72.9	39.6	93.7	81.2	29.1
87.5°	0.0	0.0	0.0	2.1	2.1	10.4	12.5	16.7	12.5	10.4
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°
8135.1	0°	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1	8135.1
8153.8	2.5°	8003.9	7708.3	7421.1	7185.9	7048.5	6815.3	6661.3	6636.3	6571.8	6628.0
8174.6	5°	7849.9	7321.2	6786.2	6307.4	5914.0	5406.0	5027.2	4866.9	4727.4	4775.3
8228.8	7.5°	7777.0	6942.3	6109.6	5291.6	4450.6	3638.7	3035.0	2783.2	2591.7	2618.7
8289.1	10°	7679.2	6548.9	5243.7	3994.7	2868.5	2067.1	1650.7	1496.7	1411.4	1413.4
8378.6	12.5°	7604.3	6078.4	4238.2	2708.2	1746.5	1319.8	1190.7	1153.2	1128.3	1130.3
8513.9	15°	7566.8	5524.7	3245.3	1804.8	1249.0	1117.8	1086.6	1070.0	1053.3	1051.2
8663.8	17.5°	7504.3	4908.5	2375.2	1317.7	1092.9	1047.1	1020.0	1001.3	980.5	976.3
8792.9	20°	7410.7	4209.1	1736.1	1113.7	1024.2	988.8	951.3	926.3	901.4	897.2
8874.1	22.5°	7237.9	3470.1	1334.3	1030.4	974.2	934.7	888.9	859.7	834.7	830.6
8834.5	25°	6917.3	2776.9	1124.1	978.4	930.5	882.6	832.7	793.1	770.2	766.0
8749.2	27.5°	6511.4	2181.6	1020.0	930.5	874.3	830.6	774.4	736.9	716.1	711.9
8636.8	30°	6032.6	1679.9	959.6	876.4	807.7	770.2	720.3	689.0	676.5	676.5
8557.7	32.5°	5516.4	1342.7	934.7	822.3	749.4	707.8	668.2	655.7	651.6	649.5
8601.4	35°	5031.3	1165.7	922.2	778.5	697.4	657.8	641.1	643.2	651.6	651.6
8736.7	37.5°	4600.4	1109.5	915.9	747.3	651.6	616.2	626.6	645.3	637.0	637.0
8974.0	40°	4211.2	1115.8	911.8	724.4	614.1	593.3	614.1	599.5	578.7	576.6
9263.3	42.5°	3913.5	1167.8	903.4	705.7	591.2	576.6	568.3	545.4	543.3	547.5
9563.1	45°	3697.0	1213.6	901.4	697.4	566.2	539.1	528.7	505.8	547.5	557.9
9685.9	47.5°	3441.0	1213.6	901.4	668.2	524.6	514.2	497.5	472.5	514.2	524.6
9569.3	50°	3110.0	1136.6	866.0	634.9	491.3	485.0	455.9	424.7	416.3	422.6
9296.6	52.5°	2691.6	997.1	776.5	589.1	458.0	445.5	410.1	387.2	380.9	380.9
8807.5	55°	2214.9	834.7	655.7	522.5	422.6	399.7	374.7	364.3	358.0	353.9
8122.6	57.5°	1800.6	684.9	526.7	464.2	389.3	360.1	351.8	339.3	328.9	322.7
7550.1	60°	1478.0	539.1	435.1	412.2	356.0	328.9	326.8	310.2	283.1	278.9
7077.6	62.5°	1140.7	395.5	366.4	358.0	322.7	299.8	295.6	262.3	220.7	212.3
6407.3	65°	805.6	308.1	295.6	314.3	287.3	266.5	256.0	206.1	162.4	156.1
5362.3	67.5°	566.2	258.1	233.1	274.8	249.8	222.7	216.5	174.9	135.3	131.1
4055.1	70°	403.8	210.2	191.5	235.2	199.8	195.7	183.2	145.7	110.3	106.2
2006.7	72.5°	285.2	160.3	147.8	204.0	137.4	168.6	149.9	112.4	83.3	79.1
682.8	75°	210.2	114.5	104.1	118.7	99.9	127.0	106.2	74.9	52.0	50.0
308.1	77.5°	154.0	72.9	62.4	58.3	58.3	79.1	58.3	31.2	22.9	20.8
156.1	80°	108.2	33.3	29.1	25.0	22.9	18.7	8.3	4.2	2.1	2.1
54.1	82.5°	64.5	14.6	14.6	10.4	6.2	0.0	0.0	0.0	0.0	0.0
20.8	85°	14.6	6.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.3	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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