

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: P951342

Luminaire Tested: **GALN-SB5C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951342
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-SB5C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 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: 34125 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

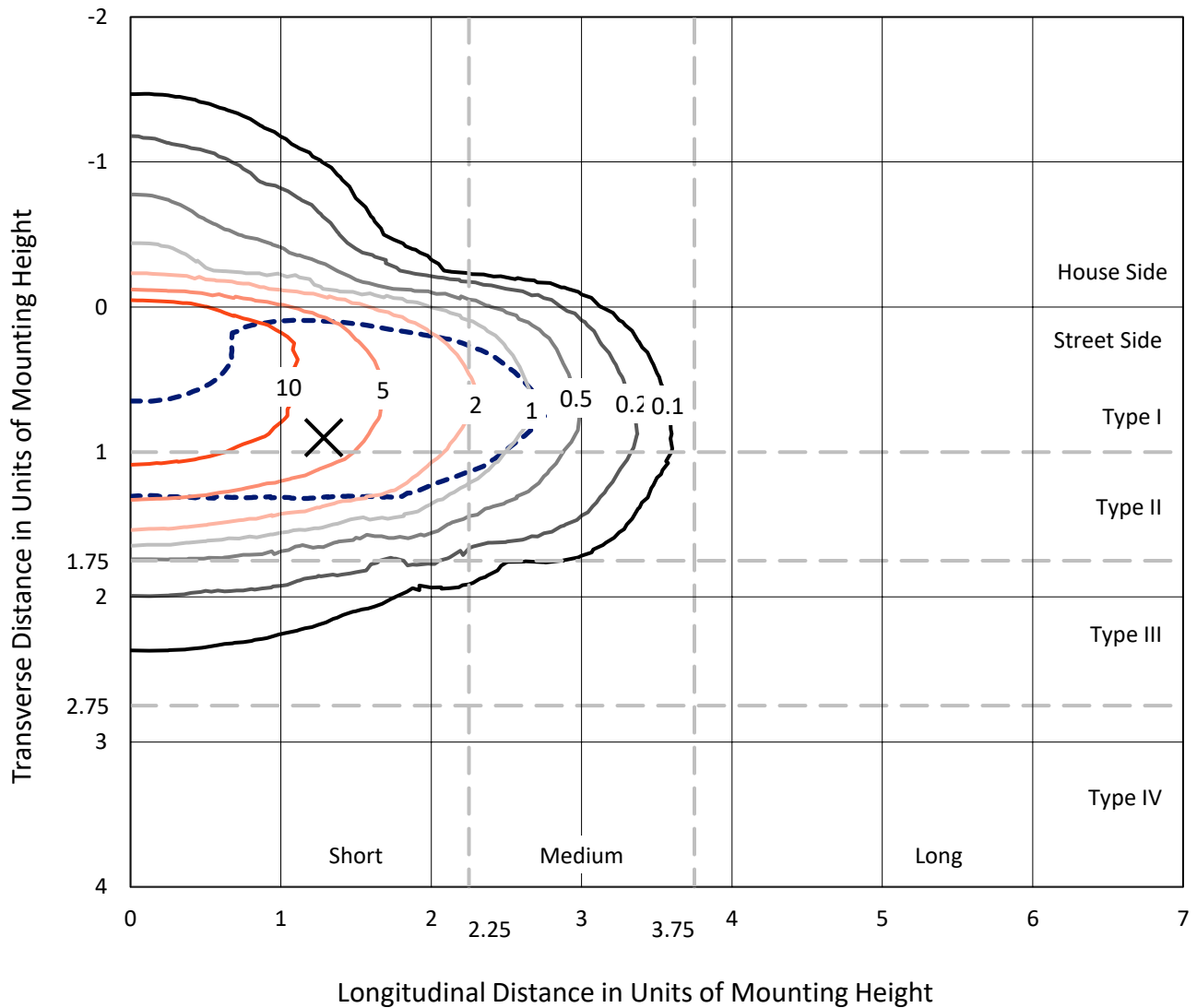
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

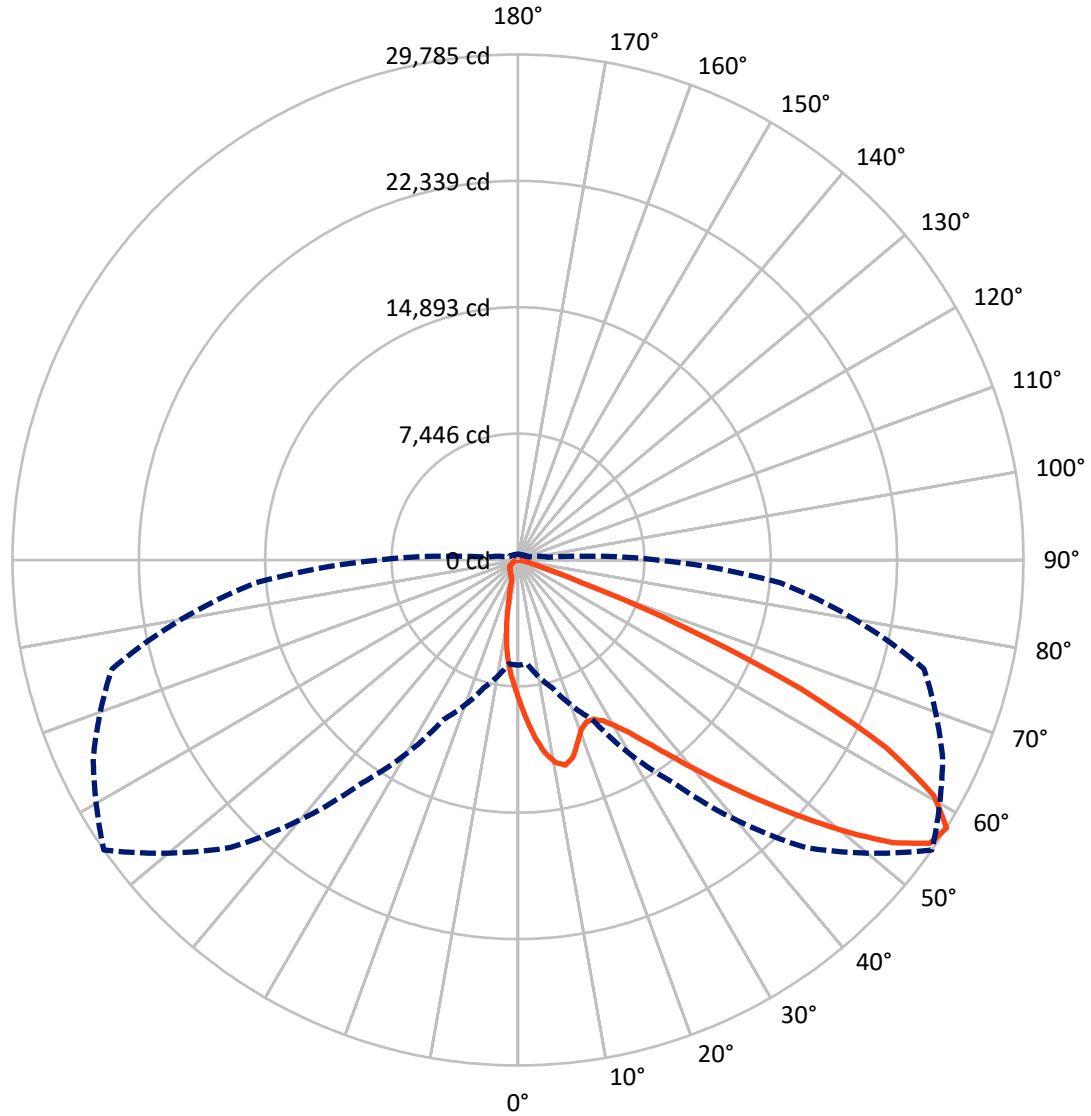
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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	2665.0	0.0	2665.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	31460.0	0.0	31460.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	34125.0	0.0	34125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.1	2.2
10°-20°	1848.2	5.4
20°-30°	2957.1	8.7
30°-40°	5005.0	14.7
40°-50°	8217.2	24.1
50°-60°	9031.2	26.5
60°-70°	5180.3	15.2
70°-80°	1058.5	3.1
80°-90°	62.4	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°	34125.0	100.0
0°-180°	34125.0	100.0

Coefficient of Utilization



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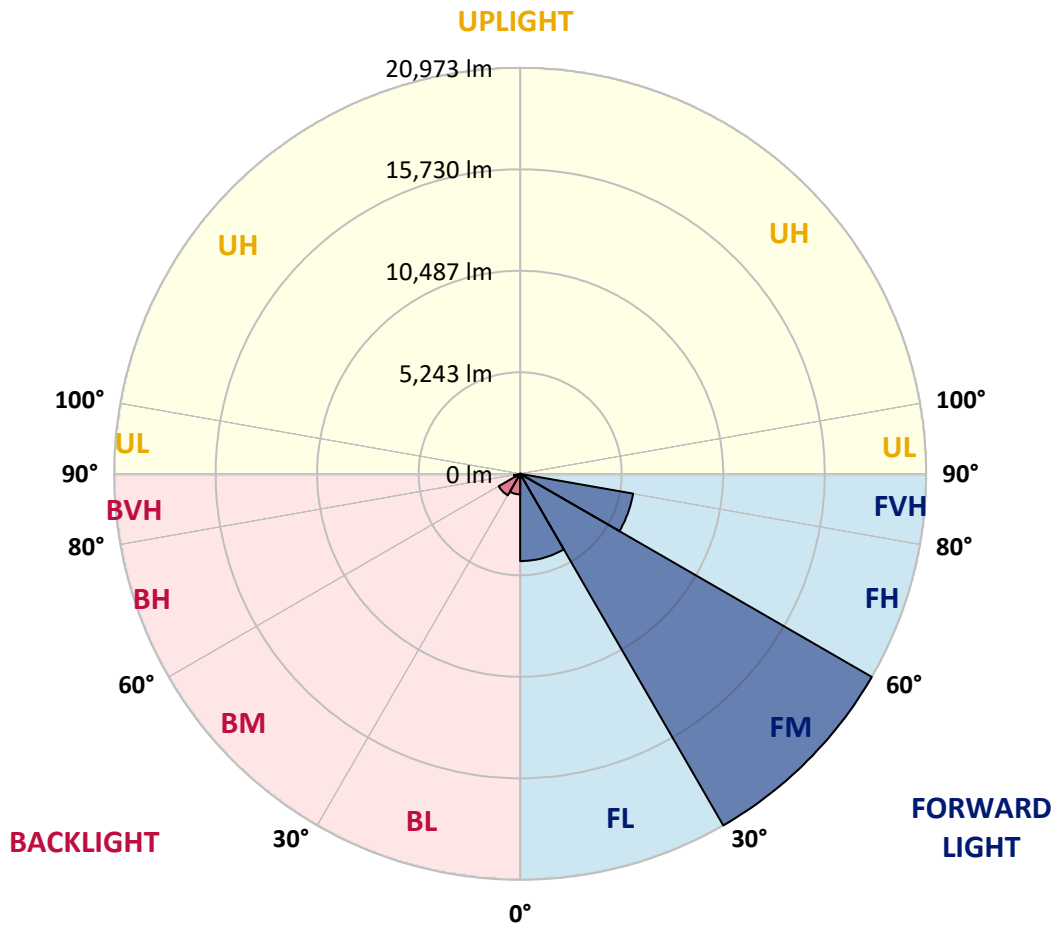
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4506.4	13.2			
FM (30°-60°)	20973.5	61.5			
FH (60°-80°)	5921.9	17.4			G3/7500
FVH (80°-90°)	58.2	0.2			G1/100
BL (0°-30°)	1063.9	3.1	B3/2500		
BM (30°-60°)	1279.9	3.8	B2/2500		
BH (60°-80°)	316.9	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°	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3
2.5°	10203.4	10075.0	10056.1	10030.8	9786.7	9603.7	9338.5	9048.1	8722.0	8389.5
5°	11787.8	11686.8	11667.9	11550.1	11272.3	10960.9	10489.5	9894.0	9285.9	8570.5
7.5°	12095.0	12076.1	12162.4	12158.2	12120.3	11874.1	11476.4	10767.3	9854.1	8793.5
10°	10725.2	10773.6	11030.3	11255.5	11863.6	12217.1	12130.8	11545.8	10439.0	9048.1
12.5°	9477.4	9420.6	9603.7	9858.3	10565.3	11617.4	12402.3	12196.0	11108.2	9336.4
15°	8694.6	8671.5	8774.6	8892.4	9431.1	10491.6	12086.6	12724.2	11752.1	9677.3
17.5°	8444.2	8425.3	8456.9	8486.3	8835.6	9656.3	11335.4	13048.3	12368.6	10066.6
20°	8648.3	8623.1	8618.9	8595.7	8740.9	9300.6	10655.8	13071.4	12922.0	10420.1
22.5°	9243.8	9214.4	9111.3	9018.7	9031.3	9349.0	10352.8	12839.9	13338.6	10750.4
25°	10323.3	10274.9	10060.3	9748.8	9551.0	9685.7	10399.0	12534.8	13736.3	11009.3
27.5°	11674.2	11611.1	11335.4	10872.5	10420.1	10256.0	10733.6	12324.4	14066.7	11207.1
30°	12997.8	12915.7	12644.2	12284.4	11623.7	11106.1	11337.5	12417.0	14460.2	11413.3
32.5°	14426.5	14348.7	13988.8	13542.7	12995.7	12299.2	12164.5	12869.4	14942.1	11701.6
35°	16234.0	16112.0	15600.7	14992.6	14411.8	13706.9	13283.9	13650.1	15583.8	12141.3
37.5°	18292.0	18127.8	17576.5	16737.0	15979.4	15190.3	14647.5	14723.2	16524.4	12730.5
40°	20232.1	20082.7	19573.4	18782.2	17831.1	16873.7	16295.1	16126.7	17822.7	13448.1
42.5°	21395.7	21261.0	21046.4	20711.8	19910.1	18933.8	18203.6	17839.6	19358.8	14306.6
45°	21460.9	21343.1	21631.4	22020.6	21862.8	21212.6	20322.5	19655.5	20901.2	15112.5
47.5°	20417.2	20337.3	21212.6	22571.9	23249.5	23523.1	22702.4	21319.9	22174.2	15691.2
50°	17572.3	17542.9	19344.1	21839.7	23777.7	25547.3	25212.7	22868.6	23161.1	15990.0
52.5°	15236.6	15129.3	16179.3	19495.6	23009.6	26612.0	27666.3	24387.9	23851.3	16046.8
55°	11556.4	11461.7	12778.9	15573.3	20533.0	26233.3	29461.2	25955.5	24345.8	15901.6
57.5°	6199.0	6140.1	7804.5	10365.4	16051.0	23960.7	29785.2	27613.7	24762.4	15516.5
60°	2413.5	2403.0	3025.9	5029.1	9755.2	19493.5	28150.2	28608.9	25023.4	15043.1
62.5°	1460.3	1491.9	1592.9	2257.8	4309.4	12109.8	24381.6	27476.9	25198.0	14609.6
65°	1207.8	1209.9	1222.6	1550.8	2064.2	5067.0	18355.1	23752.4	24766.6	13837.3
67.5°	1035.3	1054.2	1102.6	1231.0	1456.1	2222.1	10567.4	18399.3	22142.7	12040.3
70°	816.4	841.7	902.7	1012.1	1123.7	1390.9	3905.4	12242.3	16915.8	9075.5
72.5°	688.1	686.0	717.5	822.7	892.2	978.5	1502.4	6859.8	9830.9	4332.6
75°	532.4	553.4	593.4	688.1	730.2	709.1	814.3	2506.1	3522.5	1313.0
77.5°	416.6	433.5	469.2	561.8	603.9	502.9	469.2	896.4	1132.1	471.3
80°	187.3	202.0	319.8	414.5	492.4	347.2	254.6	458.7	502.9	214.6
82.5°	33.7	56.8	187.3	218.8	252.5	225.2	132.6	237.8	246.2	86.3
85°	2.1	4.2	65.2	80.0	101.0	73.6	40.0	94.7	82.1	29.5
87.5°	0.0	0.0	0.0	2.1	2.1	10.5	12.6	16.8	12.6	10.5
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°
8223.3	0°	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3	8223.3
8242.2	2.5°	8090.7	7791.9	7501.5	7263.8	7124.9	6889.2	6733.5	6708.2	6643.0	6699.8
8263.3	5°	7935.0	7400.5	6859.8	6375.8	5978.1	5464.7	5081.7	4919.7	4778.7	4827.1
8318.0	7.5°	7861.4	7017.6	6175.9	5348.9	4498.8	3678.2	3067.9	2813.3	2619.8	2647.1
8379.0	10°	7762.5	6619.9	5300.5	4038.0	2899.6	2089.5	1668.6	1512.9	1426.7	1428.8
8469.5	12.5°	7686.7	6144.3	4284.2	2737.6	1765.4	1334.1	1203.6	1165.7	1140.5	1142.6
8606.3	15°	7648.8	5584.6	3280.5	1824.4	1262.5	1130.0	1098.4	1081.6	1064.7	1062.6
8757.8	17.5°	7585.7	4961.7	2400.9	1332.0	1104.7	1058.4	1031.1	1012.1	991.1	986.9
8888.2	20°	7491.0	4254.7	1754.9	1125.8	1035.3	999.5	961.6	936.4	911.1	906.9
8970.3	22.5°	7316.4	3507.7	1348.8	1041.6	984.8	944.8	898.5	869.0	843.8	839.6
8930.3	25°	6992.3	2807.0	1136.3	989.0	940.6	892.2	841.7	801.7	778.6	774.4
8844.0	27.5°	6582.0	2205.2	1031.1	940.6	883.8	839.6	782.8	744.9	723.9	719.6
8730.4	30°	6098.0	1698.1	970.0	885.9	816.4	778.6	728.1	696.5	683.9	683.9
8650.4	32.5°	5576.2	1357.2	944.8	831.2	757.5	715.4	675.5	662.8	658.6	656.5
8694.6	35°	5085.9	1178.4	932.2	787.0	704.9	664.9	648.1	650.2	658.6	658.6
8831.4	37.5°	4650.3	1121.5	925.9	755.4	658.6	622.8	633.4	652.3	643.9	643.9
9071.3	40°	4256.8	1127.9	921.6	732.3	620.7	599.7	620.7	606.0	585.0	582.9
9363.8	42.5°	3955.9	1180.5	913.2	713.3	597.6	582.9	574.5	551.3	549.2	553.4
9666.8	45°	3737.1	1226.8	911.1	704.9	572.3	545.0	534.5	511.3	553.4	563.9
9790.9	47.5°	3478.3	1226.8	911.1	675.5	530.3	519.7	502.9	477.7	519.7	530.3
9673.1	50°	3143.7	1148.9	875.4	641.8	496.6	490.3	460.8	429.3	420.8	427.2
9397.4	52.5°	2720.8	1007.9	784.9	595.5	462.9	450.3	414.5	391.4	385.1	385.1
8902.9	55°	2238.9	843.8	662.8	528.2	427.2	404.0	378.8	368.2	361.9	357.7
8210.7	57.5°	1820.1	692.3	532.4	469.2	393.5	364.0	355.6	343.0	332.5	326.2
7632.0	60°	1494.0	545.0	439.8	416.6	359.8	332.5	330.4	313.5	286.2	282.0
7154.3	62.5°	1153.1	399.8	370.3	361.9	326.2	303.0	298.8	265.1	223.0	214.6
6476.8	65°	814.3	311.4	298.8	317.7	290.4	269.3	258.8	208.3	164.1	157.8
5420.5	67.5°	572.3	260.9	235.7	277.8	252.5	225.2	218.8	176.8	136.8	132.6
4099.0	70°	408.2	212.5	193.6	237.8	202.0	197.8	185.2	147.3	111.5	107.3
2028.5	72.5°	288.3	162.0	149.4	206.2	138.9	170.4	151.5	113.6	84.2	80.0
690.2	75°	212.5	115.7	105.2	119.9	101.0	128.4	107.3	75.8	52.6	50.5
311.4	77.5°	155.7	73.6	63.1	58.9	58.9	80.0	58.9	31.6	23.1	21.0
157.8	80°	109.4	33.7	29.5	25.3	23.1	18.9	8.4	4.2	2.1	2.1
54.7	82.5°	65.2	14.7	14.7	10.5	6.3	0.0	0.0	0.0	0.0	0.0
21.0	85°	14.7	6.3	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.4	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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