

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: P954639

Luminaire Tested: **GALN-SB7D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954639
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-SB7D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA 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: 55443 lumens
Efficiency: N/A
Efficacy: 108.1 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

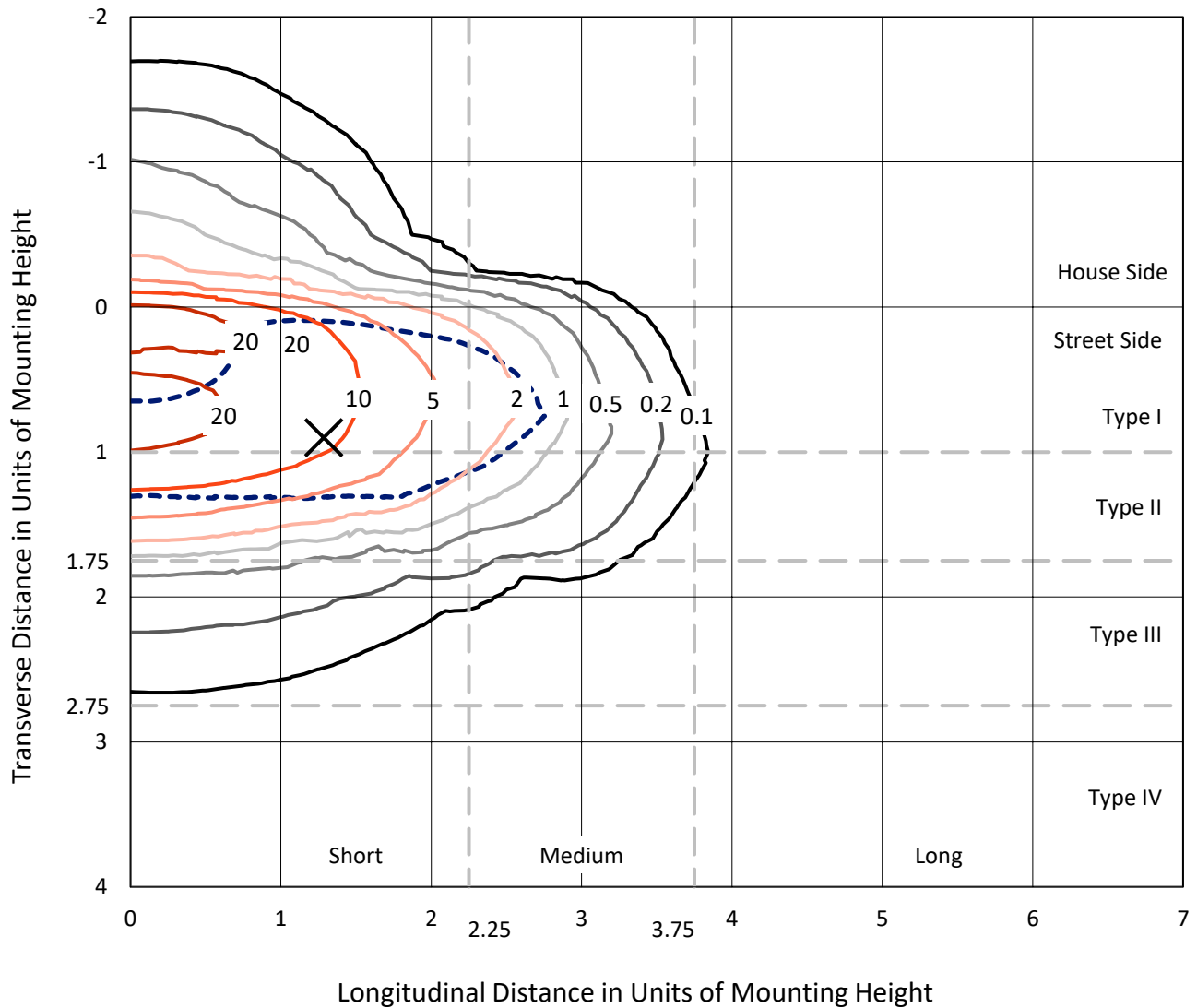
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954639
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Iso-Footcandle Lines of Horizontal Illumination

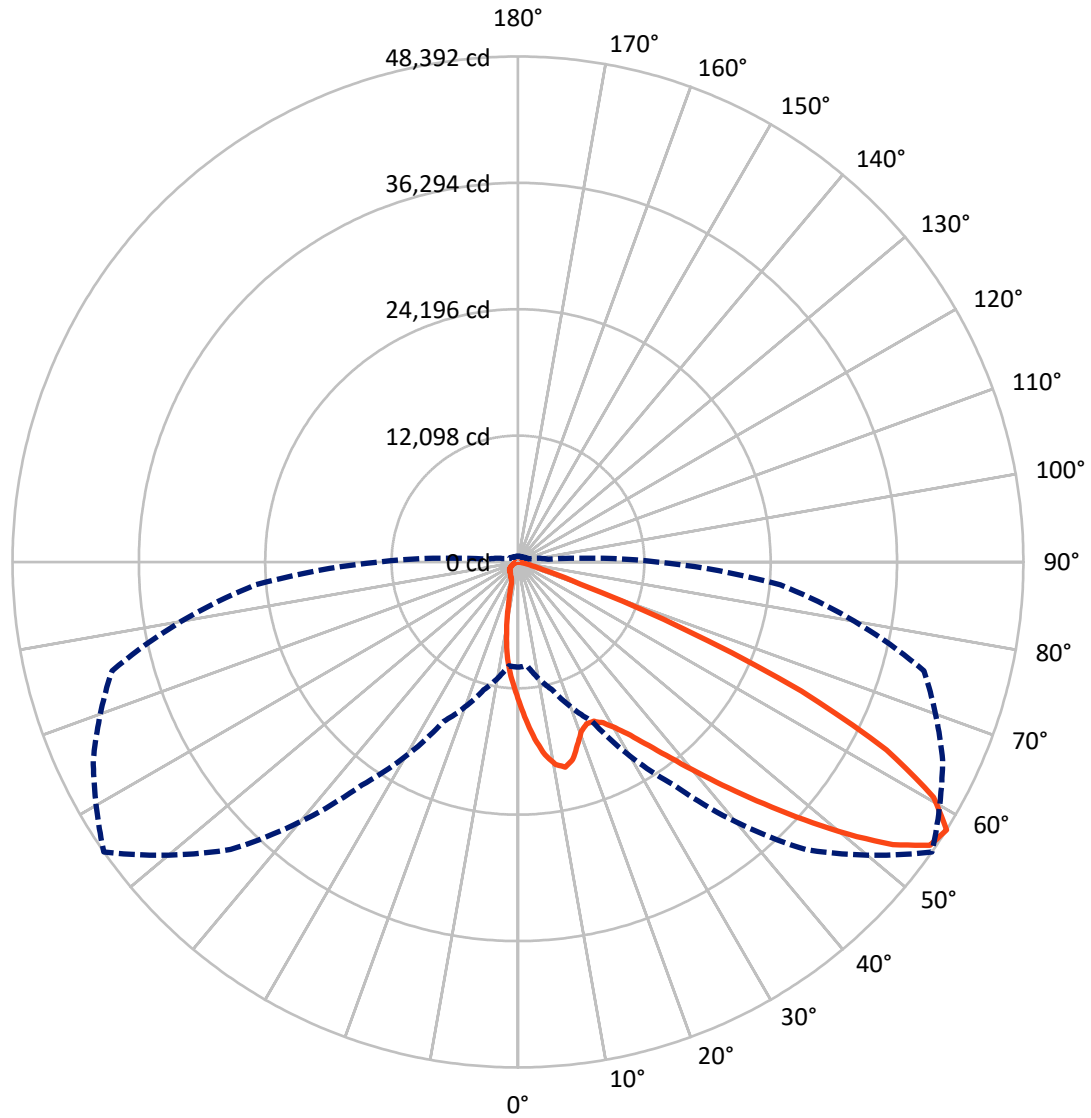
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.6 fc
 Type II - Short - N/A

REPORT NUMBER: P954639
CATALOG NUMBER: GALN-SB7D-830-U-AFL-HSS

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	4329.9	0.0	4329.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	51113.1	0.0	51113.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	55443.0	0.0	55443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1243.1	2.2
10°-20°	3002.7	5.4
20°-30°	4804.3	8.7
30°-40°	8131.6	14.7
40°-50°	13350.4	24.1
50°-60°	14673.1	26.5
60°-70°	8416.5	15.2
70°-80°	1719.7	3.1
80°-90°	101.4	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°	55443.0	100.0
0°-180°	55443.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954639

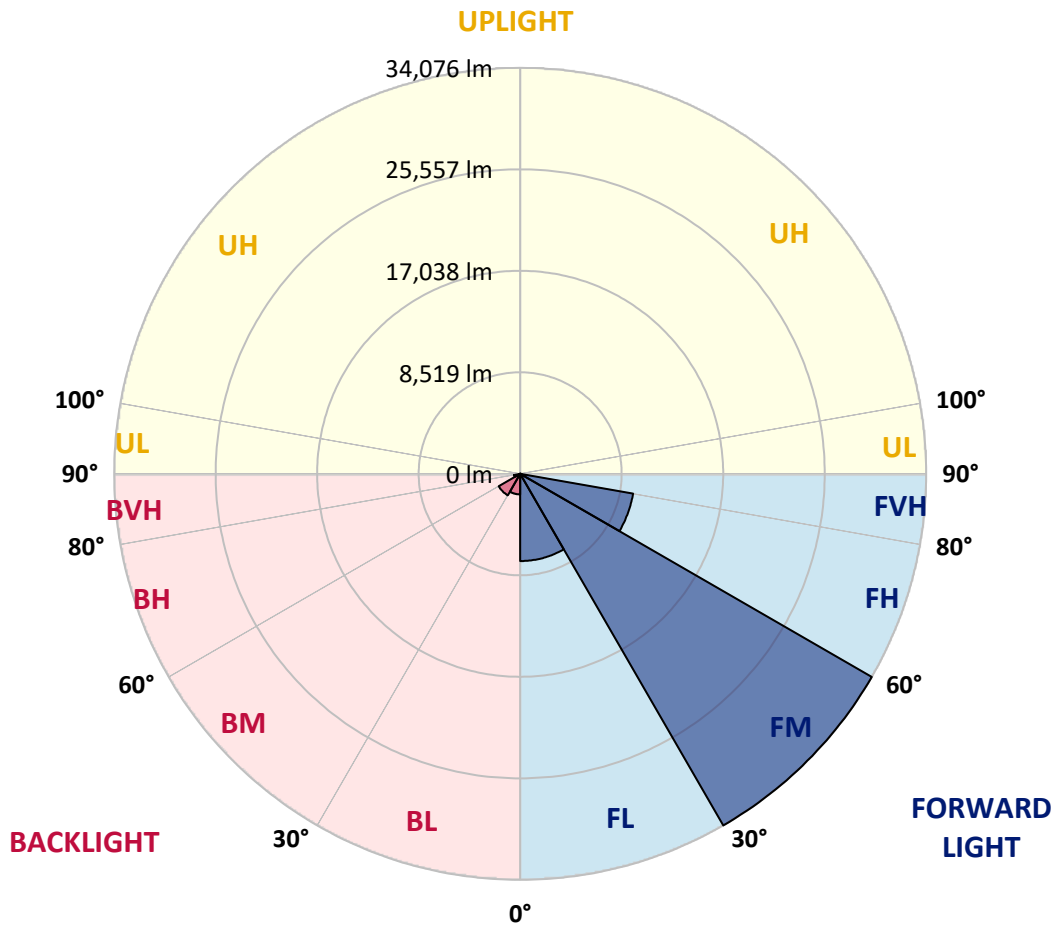
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7321.6	13.2			
FM (30°-60°)	34075.7	61.5			
FH (60°-80°)	9621.3	17.4			G4/12000
FVH (80°-90°)	94.6	0.2			G1/100
BL (0°-30°)	1728.6	3.1	B3/2500		
BM (30°-60°)	2079.5	3.8	B2/2500		
BH (60°-80°)	514.9	0.9	B2/1000		G2/1000
BVH (80°-90°)	6.8	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



REPORT NUMBER: P954639

CATALOG NUMBER: GALN-SB7D-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4
2.5°	16577.4	16368.9	16338.1	16297.1	15900.5	15603.1	15172.3	14700.5	14170.6	13630.5
5°	19151.7	18987.6	18956.9	18765.4	18314.1	17808.2	17042.4	16074.9	15086.9	13924.5
7.5°	19650.9	19620.1	19760.3	19753.4	19691.9	19291.9	18645.8	17493.6	16009.9	14286.9
10°	17425.3	17503.9	17921.0	18286.8	19274.8	19849.1	19709.0	18758.6	16960.3	14700.5
12.5°	15398.0	15305.7	15603.1	16016.7	17165.4	18874.8	20150.0	19815.0	18047.5	15168.9
15°	14126.2	14088.6	14256.1	14447.6	15322.7	17045.8	19637.2	20673.1	19093.6	15722.7
17.5°	13719.4	13688.6	13739.9	13787.7	14355.2	15688.6	18416.7	21199.5	20095.3	16355.2
20°	14051.0	14010.0	14003.1	13965.5	14201.4	15110.8	17312.4	21237.2	20994.4	16929.6
22.5°	15018.5	14970.6	14803.1	14652.7	14673.2	15189.4	16820.2	20861.1	21671.3	17466.3
25°	16772.3	16693.7	16344.9	15839.0	15517.6	15736.4	16895.4	20365.4	22317.5	17886.8
27.5°	18967.1	18864.6	18416.7	17664.6	16929.6	16662.9	17438.9	20023.5	22854.2	18208.2
30°	21117.5	20984.2	20543.1	19958.5	18885.1	18044.1	18420.1	20173.9	23493.5	18543.2
32.5°	23438.8	23312.3	22727.7	22002.9	21114.1	19982.5	19763.7	20909.0	24276.4	19011.6
35°	26375.5	26177.2	25346.5	24358.5	23414.9	22269.6	21582.4	22177.3	25319.1	19726.1
37.5°	29719.0	29452.4	28556.7	27192.6	25961.8	24679.8	23797.8	23920.9	26847.3	20683.3
40°	32871.1	32628.4	31801.0	30515.6	28970.3	27414.8	26474.6	26201.1	28956.6	21849.1
42.5°	34761.6	34542.8	34194.1	33650.6	32348.0	30761.7	29575.4	28984.0	31452.3	23243.9
45°	34867.6	34676.2	35144.5	35777.0	35520.6	34464.2	33018.1	31934.4	33958.2	24553.3
47.5°	33171.9	33042.0	34464.2	36672.7	37773.5	38218.0	36884.7	34638.6	36026.6	25493.5
50°	28549.8	28502.0	31428.4	35483.0	38631.6	41506.8	40963.2	37154.8	37630.0	25978.9
52.5°	24755.0	24580.7	26286.6	31674.5	37383.8	43236.7	44949.5	39623.1	38751.3	26071.2
55°	18775.7	18621.8	20761.9	25302.0	33360.0	42621.3	47865.6	42170.0	39554.7	25835.3
57.5°	10071.6	9975.9	12680.1	16840.7	26078.1	38929.1	48392.1	44864.0	40231.6	25209.7
60°	3921.3	3904.2	4916.1	8170.8	15849.2	31671.1	45735.8	46481.1	40655.5	24440.5
62.5°	2372.6	2423.9	2588.0	3668.3	7001.6	19674.8	39612.8	44641.8	40939.3	23736.2
65°	1962.4	1965.8	1986.3	2519.6	3353.8	8232.3	29821.6	38590.6	40238.5	22481.6
67.5°	1682.0	1712.8	1791.4	2000.0	2365.8	3610.2	17168.9	29893.4	35975.3	19562.0
70°	1326.5	1367.5	1466.6	1644.4	1825.6	2259.8	6345.2	19890.2	27483.2	14745.0
72.5°	1117.9	1114.5	1165.8	1336.7	1449.5	1589.7	2441.0	11145.1	15972.3	7039.2
75°	864.9	899.1	964.1	1117.9	1186.3	1152.1	1323.0	4071.7	5723.0	2133.3
77.5°	676.9	704.3	762.4	912.8	981.2	817.1	762.4	1456.4	1839.3	765.8
80°	304.3	328.2	519.6	673.5	800.0	564.1	413.7	745.3	817.1	348.7
82.5°	54.7	92.3	304.3	355.5	410.2	365.8	215.4	386.3	400.0	140.2
85°	3.4	6.8	106.0	129.9	164.1	119.7	65.0	153.8	133.3	47.9
87.5°	0.0	0.0	0.0	3.4	3.4	17.1	20.5	27.3	20.5	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954639
 CATALOG NUMBER: GALN-SB7D-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
13360.4	0°	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4	13360.4
13391.2	2.5°	13145.0	12659.6	12187.8	11801.5	11575.8	11192.9	10939.9	10898.9	10792.9	10885.2
13425.4	5°	12892.0	12023.7	11145.1	10358.8	9712.6	8878.4	8256.2	7993.0	7763.9	7842.6
13514.2	7.5°	12772.4	11401.5	10034.0	8690.4	7309.2	5975.9	4984.5	4570.8	4256.3	4300.8
13613.4	10°	12611.7	10755.3	8611.8	6560.5	4711.0	3394.8	2711.1	2458.1	2317.9	2321.3
13760.4	12.5°	12488.6	9982.7	6960.5	4447.8	2868.3	2167.5	1955.5	1894.0	1853.0	1856.4
13982.6	15°	12427.1	9073.3	5329.8	2964.0	2051.2	1835.9	1784.6	1757.2	1729.9	1726.5
14228.8	17.5°	12324.5	8061.4	3900.8	2164.1	1794.8	1719.6	1675.2	1644.4	1610.2	1603.4
14440.7	20°	12170.7	6912.7	2851.2	1829.0	1682.0	1623.9	1562.4	1521.3	1480.3	1473.5
14574.0	22.5°	11886.9	5699.0	2191.4	1692.3	1600.0	1535.0	1459.8	1411.9	1370.9	1364.1
14509.1	25°	11360.4	4560.6	1846.1	1606.8	1528.2	1449.5	1367.5	1302.5	1264.9	1258.1
14368.9	27.5°	10693.8	3582.8	1675.2	1528.2	1435.9	1364.1	1271.8	1210.2	1176.0	1169.2
14184.3	30°	9907.5	2758.9	1576.0	1439.3	1326.5	1264.9	1182.9	1131.6	1111.1	1111.1
14054.4	32.5°	9059.6	2205.1	1535.0	1350.4	1230.7	1162.4	1097.4	1076.9	1070.1	1066.6
14126.2	35°	8263.1	1914.5	1514.5	1278.6	1145.3	1080.3	1053.0	1056.4	1070.1	1070.1
14348.4	37.5°	7555.4	1822.2	1504.2	1227.3	1070.1	1011.9	1029.0	1059.8	1046.1	1046.1
14738.1	40°	6916.1	1832.4	1497.4	1189.7	1008.5	974.3	1008.5	984.6	950.4	947.0
15213.3	42.5°	6427.2	1917.9	1483.7	1158.9	970.9	947.0	933.3	895.7	892.3	899.1
15705.6	45°	6071.7	1993.1	1480.3	1145.3	929.9	885.5	868.4	830.8	899.1	916.2
15907.4	47.5°	5651.2	1993.1	1480.3	1097.4	861.5	844.4	817.1	776.1	844.4	861.5
15715.9	50°	5107.6	1866.6	1422.2	1042.7	806.8	796.6	748.7	697.4	683.7	694.0
15268.0	52.5°	4420.4	1637.6	1275.2	967.5	752.1	731.6	673.5	635.9	625.6	625.6
14464.6	55°	3637.5	1370.9	1076.9	858.1	694.0	656.4	615.4	598.3	588.0	581.2
13339.9	57.5°	2957.2	1124.8	864.9	762.4	639.3	591.4	577.8	557.3	540.2	529.9
12399.7	60°	2427.3	885.5	714.5	676.9	584.6	540.2	536.7	509.4	464.9	458.1
11623.7	62.5°	1873.5	649.6	601.7	588.0	529.9	492.3	485.5	430.8	362.4	348.7
10522.9	65°	1323.0	506.0	485.5	516.2	471.8	437.6	420.5	338.5	266.7	256.4
8806.6	67.5°	929.9	423.9	382.9	451.3	410.2	365.8	355.5	287.2	222.2	215.4
6659.7	70°	663.2	345.3	314.5	386.3	328.2	321.4	300.8	239.3	181.2	174.4
3295.7	72.5°	468.4	263.2	242.7	335.0	225.6	276.9	246.1	184.6	136.7	129.9
1121.3	75°	345.3	188.0	170.9	194.9	164.1	208.5	174.4	123.1	85.5	82.0
506.0	77.5°	253.0	119.7	102.6	95.7	95.7	129.9	95.7	51.3	37.6	34.2
256.4	80°	177.8	54.7	47.9	41.0	37.6	30.8	13.7	6.8	3.4	3.4
88.9	82.5°	106.0	23.9	23.9	17.1	10.3	0.0	0.0	0.0	0.0	0.0
34.2	85°	23.9	10.3	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	3.4	3.4	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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