

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: P956487

Luminaire Tested: **GALN-SB9A-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956487  
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-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

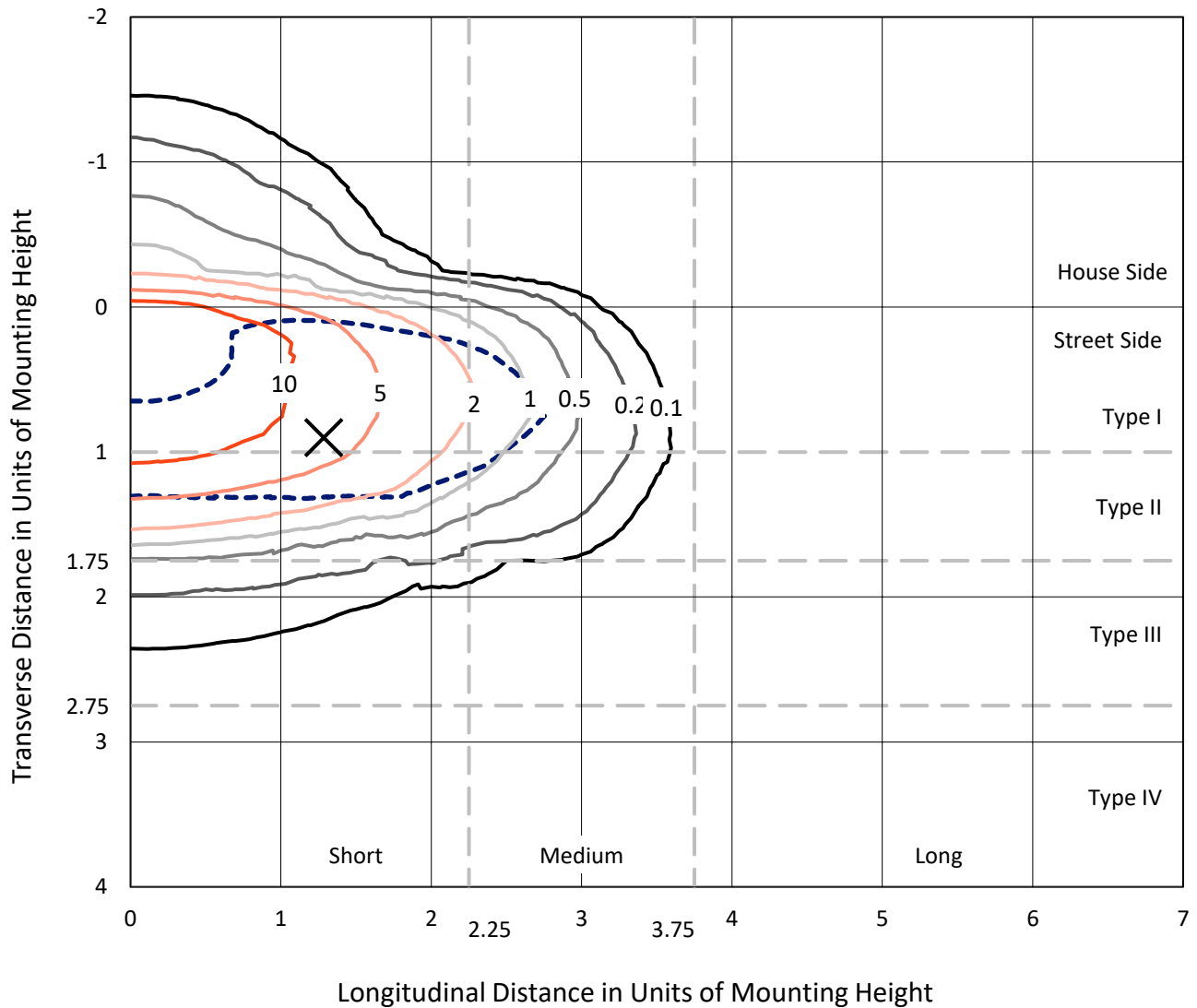
Lumens per Lamp: N/A  
Luminaire Lumens: 33322 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

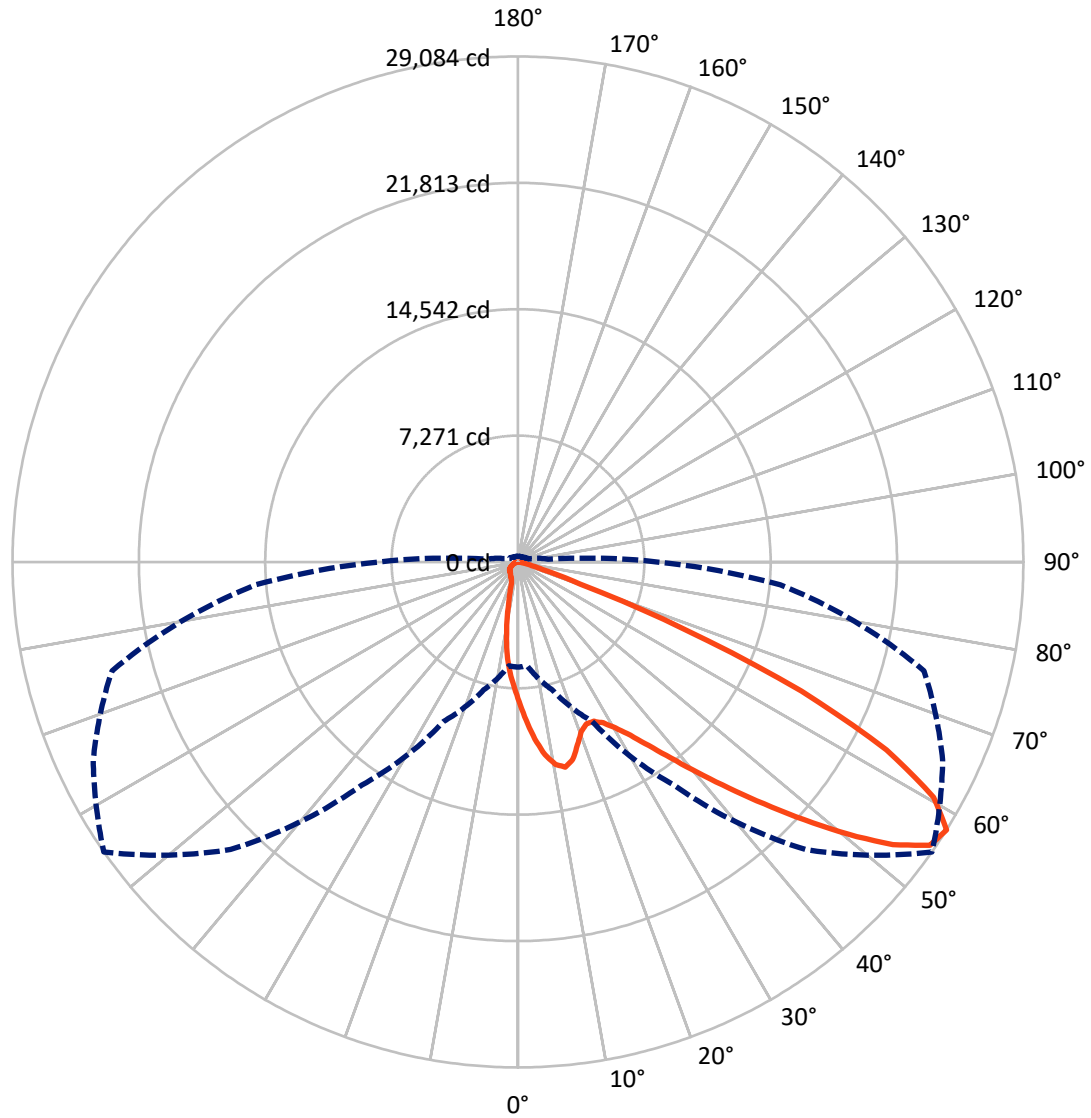
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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
<b>House Side</b>	Lumens	2602.3	0.0	2602.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	30719.7	0.0	30719.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	33322.0	0.0	33322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.1	2.2
10°-20°	1804.7	5.4
20°-30°	2887.5	8.7
30°-40°	4887.2	14.7
40°-50°	8023.8	24.1
50°-60°	8818.7	26.5
60°-70°	5058.4	15.2
70°-80°	1033.6	3.1
80°-90°	61.0	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°	33322.0	100.0
0°-180°	33322.0	100.0

**Coefficient of Utilization**



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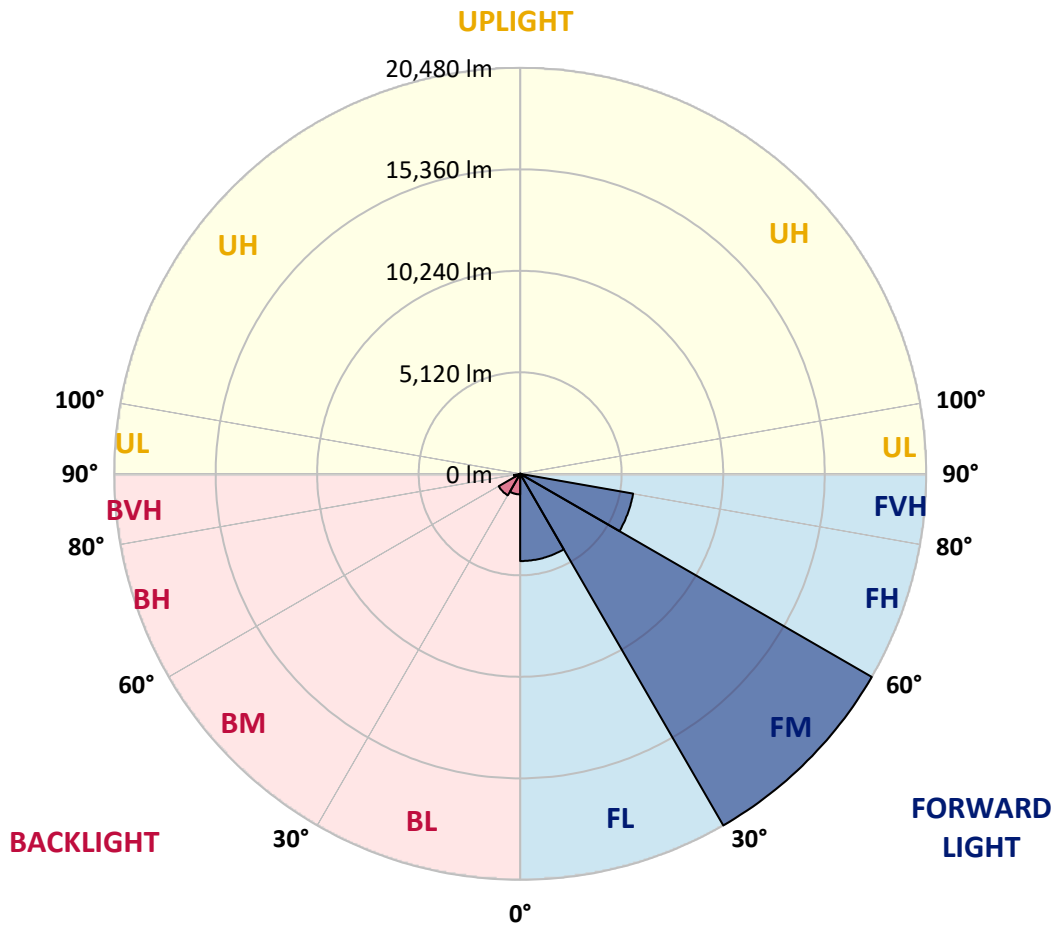
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4400.4	13.2			
FM (30°-60°)	20479.9	61.5			
FH (60°-80°)	5782.5	17.4			G3/7500
FVH (80°-90°)	56.9	0.2			G1/100
BL (0°-30°)	1038.9	3.1	B3/2500		
BM (30°-60°)	1249.8	3.8	B2/2500		
BH (60°-80°)	309.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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°	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8
2.5°	9963.3	9837.9	9819.4	9794.8	9556.4	9377.7	9118.8	8835.2	8516.7	8192.1
5°	11510.4	11411.8	11393.3	11278.3	11007.0	10702.9	10242.7	9661.2	9067.4	8368.8
7.5°	11810.4	11791.9	11876.2	11872.1	11835.1	11594.7	11206.4	10513.9	9622.2	8586.6
10°	10472.8	10520.1	10770.8	10990.6	11584.4	11929.6	11845.4	11274.2	10193.4	8835.2
12.5°	9254.4	9198.9	9377.7	9626.3	10316.7	11344.0	12110.4	11909.1	10846.8	9116.7
15°	8490.0	8467.4	8568.1	8683.2	9209.2	10244.8	11802.2	12424.8	11475.5	9449.6
17.5°	8245.5	8227.0	8257.9	8286.6	8627.7	9429.0	11068.7	12741.2	12077.5	9829.7
20°	8444.8	8420.2	8416.1	8393.5	8535.2	9081.8	10405.0	12763.8	12617.9	10174.9
22.5°	9026.3	8997.5	8896.9	8806.5	8818.8	9129.0	10109.1	12537.8	13024.8	10497.5
25°	10080.4	10033.1	9823.5	9519.4	9326.3	9457.8	10154.3	12239.9	13413.1	10750.2
27.5°	11399.5	11337.9	11068.7	10616.7	10174.9	10014.6	10481.0	12034.4	13735.7	10943.4
30°	12691.9	12611.8	12346.7	11995.4	11350.2	10844.7	11070.7	12124.8	14119.9	11144.7
32.5°	14087.0	14011.0	13659.7	13224.1	12689.8	12009.7	11878.2	12566.6	14590.4	11426.2
35°	15852.0	15732.9	15233.6	14639.8	14072.7	13384.3	12971.3	13328.9	15217.1	11855.6
37.5°	17861.5	17701.3	17162.9	16343.1	15603.4	14832.9	14302.8	14376.8	16135.6	12431.0
40°	19756.0	19610.1	19112.9	18340.3	17411.6	16476.7	15911.6	15747.2	17403.3	13131.6
42.5°	20892.2	20760.7	20551.1	20224.4	19441.6	18488.2	17775.2	17419.8	18903.3	13969.9
45°	20955.9	20840.9	21122.4	21502.5	21348.4	20713.5	19844.3	19193.0	20409.4	14756.9
47.5°	19936.8	19858.7	20713.5	22040.8	22702.4	22969.5	22168.2	20818.3	21652.5	15321.9
50°	17158.8	17130.1	18888.9	21325.8	23218.1	24946.2	24619.5	22330.5	22616.1	15613.7
52.5°	14878.1	14773.3	15798.6	19036.8	22468.2	25985.8	27015.2	23814.0	23290.1	15669.2
55°	11284.4	11192.0	12478.2	15206.9	20049.8	25616.0	28767.9	25344.8	23772.9	15527.4
57.5°	6053.2	5995.6	7620.9	10121.5	15673.3	23396.9	29084.3	26963.9	24179.7	15151.4
60°	2356.7	2346.5	2954.7	4910.7	9525.6	19034.8	27487.8	27935.7	24434.5	14689.1
62.5°	1426.0	1456.8	1555.4	2204.7	4208.0	11824.8	23807.8	26830.3	24605.1	14265.8
65°	1179.4	1181.5	1193.8	1514.3	2015.7	4947.7	17923.2	23193.5	24183.9	13511.7
67.5°	1010.9	1029.4	1076.7	1202.0	1421.9	2169.8	10318.7	17966.3	21621.6	11757.0
70°	797.2	821.9	881.5	988.3	1097.2	1358.2	3813.5	11954.3	16517.8	8861.9
72.5°	671.9	669.8	700.7	803.4	871.2	955.4	1467.1	6698.3	9599.6	4230.6
75°	519.8	540.4	579.4	671.9	713.0	692.4	795.2	2447.2	3439.6	1282.1
77.5°	406.8	423.3	458.2	548.6	589.7	491.1	458.2	875.3	1105.4	460.3
80°	182.9	197.3	312.3	404.8	480.8	339.0	248.6	447.9	491.1	209.6
82.5°	32.9	55.5	182.9	213.7	246.6	219.9	129.4	232.2	240.4	84.2
85°	2.1	4.1	63.7	78.1	98.6	71.9	39.0	92.5	80.1	28.8
87.5°	0.0	0.0	0.0	2.1	2.1	10.3	12.3	16.4	12.3	10.3
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°
8029.8	0°	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8	8029.8
8048.3	2.5°	7900.3	7608.6	7325.0	7092.8	6957.2	6727.1	6575.1	6550.4	6486.7	6542.2
8068.8	5°	7748.3	7226.4	6698.3	6225.8	5837.4	5336.1	4962.1	4803.9	4666.2	4713.5
8122.2	7.5°	7676.4	6852.4	6030.6	5223.1	4393.0	3591.6	2995.8	2747.1	2558.1	2584.8
8181.8	10°	7579.8	6464.1	5175.8	3943.0	2831.4	2040.3	1629.4	1477.3	1393.1	1395.1
8270.2	12.5°	7505.8	5999.7	4183.4	2673.2	1723.9	1302.7	1175.3	1138.3	1113.6	1115.7
8403.7	15°	7468.8	5453.2	3203.3	1781.4	1232.8	1103.4	1072.6	1056.1	1039.7	1037.6
8551.7	17.5°	7407.2	4845.0	2344.4	1300.6	1078.7	1033.5	1006.8	988.3	967.8	963.7
8679.1	20°	7314.7	4154.6	1713.6	1099.3	1010.9	976.0	939.0	914.3	889.7	885.6
8759.2	22.5°	7144.2	3425.2	1317.1	1017.1	961.6	922.6	877.4	848.6	823.9	819.8
8720.2	25°	6827.8	2741.0	1109.5	965.7	918.5	871.2	821.9	782.8	760.2	756.1
8635.9	27.5°	6427.1	2153.3	1006.8	918.5	863.0	819.8	764.3	727.4	706.8	702.7
8525.0	30°	5954.5	1658.1	947.2	865.0	797.2	760.2	710.9	680.1	667.8	667.8
8446.9	32.5°	5445.0	1325.3	922.6	811.6	739.7	698.6	659.6	647.2	643.1	641.1
8490.0	35°	4966.2	1150.6	910.2	768.5	688.3	649.3	632.8	634.9	643.1	643.1
8623.6	37.5°	4540.9	1095.2	904.1	737.6	643.1	608.2	618.5	637.0	628.7	628.7
8857.8	40°	4156.7	1101.3	900.0	715.0	606.1	585.6	606.1	591.8	571.2	569.2
9143.4	42.5°	3862.8	1152.7	891.7	696.5	583.5	569.2	560.9	538.3	536.3	540.4
9439.3	45°	3649.2	1197.9	889.7	688.3	558.9	532.2	521.9	499.3	540.4	550.7
9560.5	47.5°	3396.4	1197.9	889.7	659.6	517.8	507.5	491.1	466.4	507.5	517.8
9445.5	50°	3069.7	1121.9	854.8	626.7	484.9	478.7	450.0	419.2	410.9	417.1
9176.3	52.5°	2656.7	984.2	766.4	581.5	452.0	439.7	404.8	382.2	376.0	376.0
8693.4	55°	2186.2	823.9	647.2	515.7	417.1	394.5	369.8	359.6	353.4	349.3
8017.5	57.5°	1777.3	676.0	519.8	458.2	384.2	355.5	347.2	334.9	324.6	318.5
7452.4	60°	1458.8	532.2	429.4	406.8	351.4	324.6	322.6	306.2	279.4	275.3
6986.0	62.5°	1126.0	390.4	361.6	353.4	318.5	295.9	291.8	258.9	217.8	209.6
6324.4	65°	795.2	304.1	291.8	310.3	283.5	263.0	252.7	203.4	160.3	154.1
5292.9	67.5°	558.9	254.8	230.1	271.2	246.6	219.9	213.7	172.6	133.6	129.4
4002.6	70°	398.6	207.5	189.0	232.2	197.3	193.1	180.8	143.8	108.9	104.8
1980.7	72.5°	281.5	158.2	145.9	201.4	135.6	166.4	147.9	111.0	82.2	78.1
673.9	75°	207.5	113.0	102.7	117.1	98.6	125.3	104.8	74.0	51.4	49.3
304.1	77.5°	152.0	71.9	61.6	57.5	57.5	78.1	57.5	30.8	22.6	20.5
154.1	80°	106.8	32.9	28.8	24.7	22.6	18.5	8.2	4.1	2.1	2.1
53.4	82.5°	63.7	14.4	14.4	10.3	6.2	0.0	0.0	0.0	0.0	0.0
20.5	85°	14.4	6.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.2	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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