

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: P954051

Luminaire Tested: **GALN-SB7B-935-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954051  
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-SB7B-935-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

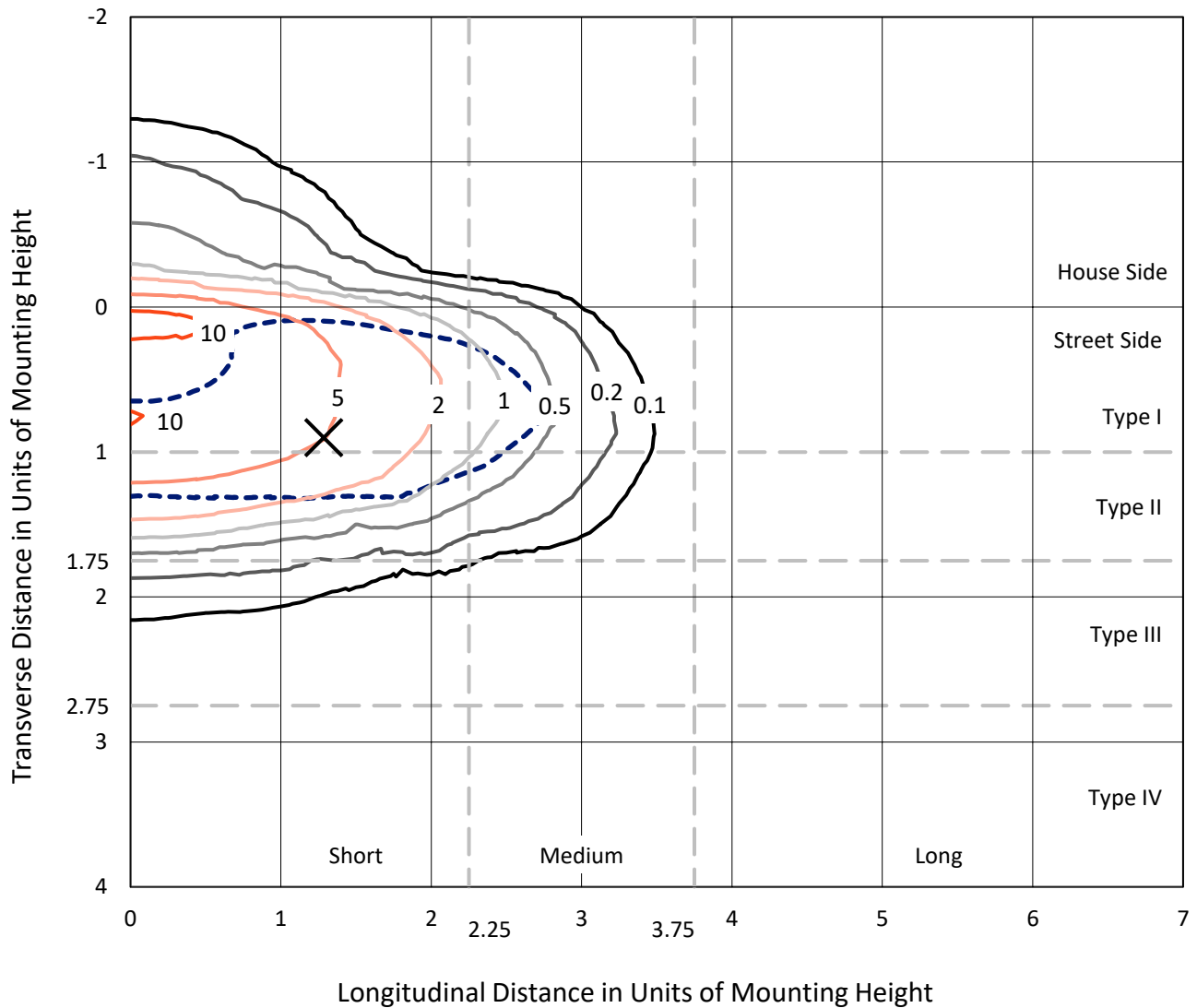
Lumens per Lamp: N/A  
Luminaire Lumens: 23753 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

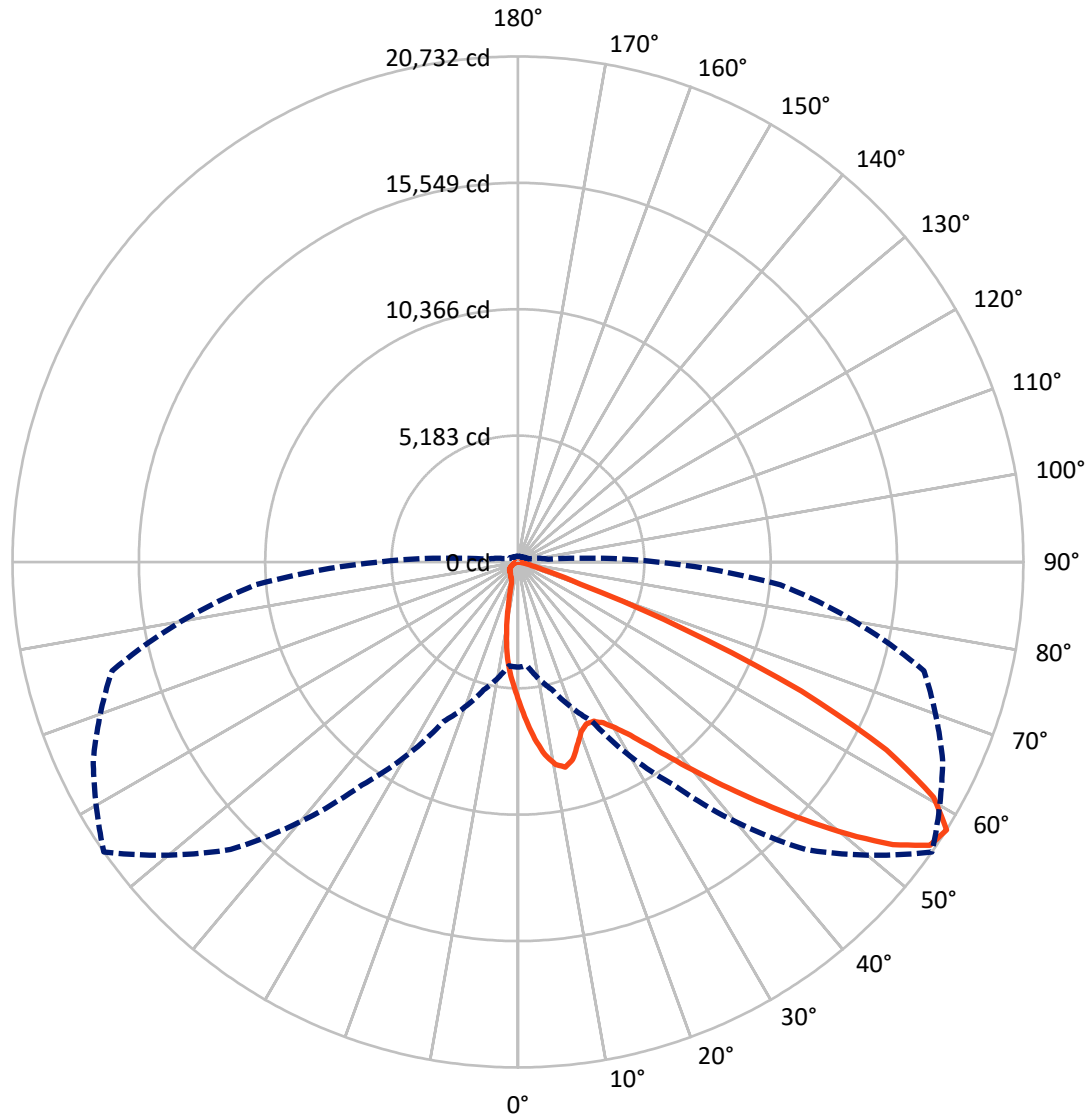
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	1855.0	0.0	1855.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	21898.0	0.0	21898.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	23753.0	0.0	23753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.6	2.2
10°-20°	1286.4	5.4
20°-30°	2058.3	8.7
30°-40°	3483.8	14.7
40°-50°	5719.6	24.1
50°-60°	6286.3	26.5
60°-70°	3605.8	15.2
70°-80°	736.8	3.1
80°-90°	43.5	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°	23753.0	100.0
0°-180°	23753.0	100.0

**Coefficient of Utilization**



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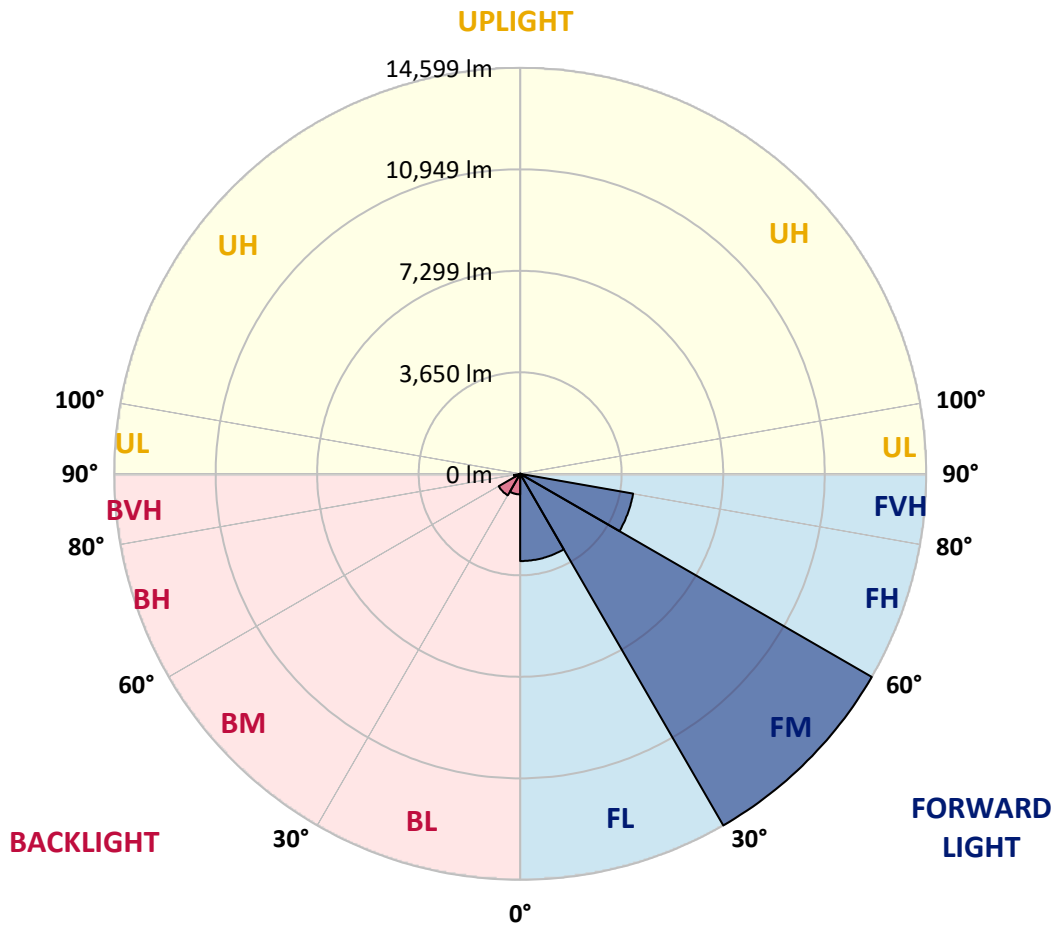
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3136.7	13.2			
FM (30°-60°)	14598.8	61.5			
FH (60°-80°)	4122.0	17.4			G2/5000
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	740.6	3.1	B2/1000		
BM (30°-60°)	890.9	3.8	B1/1000		
BH (60°-80°)	220.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9
2.5°	7102.1	7012.8	6999.6	6982.0	6812.1	6684.7	6500.2	6298.0	6071.0	5839.6
5°	8205.0	8134.7	8121.5	8039.5	7846.2	7629.4	7301.3	6886.8	6463.5	5965.6
7.5°	8418.9	8405.7	8465.7	8462.8	8436.4	8265.1	7988.3	7494.7	6859.0	6120.8
10°	7465.4	7499.1	7677.7	7834.5	8257.7	8503.8	8443.8	8036.6	7266.2	6298.0
12.5°	6596.8	6557.3	6684.7	6861.9	7354.1	8086.4	8632.7	8489.2	7731.9	6498.7
15°	6052.0	6035.9	6107.6	6189.6	6564.6	7302.8	8413.0	8856.8	8180.1	6736.0
17.5°	5877.7	5864.5	5886.5	5907.0	6150.1	6721.3	7890.1	9082.4	8609.3	7006.9
20°	6019.7	6002.2	5999.2	5983.1	6084.2	6473.8	7417.0	9098.5	8994.5	7253.0
22.5°	6434.2	6413.7	6342.0	6277.5	6286.3	6507.5	7206.1	8937.3	9284.5	7482.9
25°	7185.6	7151.9	7002.5	6785.8	6648.1	6741.8	7238.3	8725.0	9561.3	7663.1
27.5°	8125.9	8082.0	7890.1	7567.9	7253.0	7138.7	7471.2	8578.5	9791.2	7800.8
30°	9047.2	8990.1	8801.1	8550.7	8090.8	7730.5	7891.6	8643.0	10065.1	7944.3
32.5°	10041.7	9987.5	9737.1	9426.5	9045.7	8560.9	8467.2	8957.9	10400.5	8145.0
35°	11299.8	11214.9	10859.0	10435.7	10031.4	9540.8	9246.4	9501.2	10847.3	8451.1
37.5°	12732.3	12618.0	12234.3	11649.9	11122.6	10573.4	10195.5	10248.2	11502.0	8861.2
40°	14082.7	13978.7	13624.3	13073.5	12411.5	11745.1	11342.3	11225.1	12405.7	9360.6
42.5°	14892.7	14798.9	14649.5	14416.6	13858.6	13179.0	12670.8	12417.4	13474.9	9958.2
45°	14938.1	14856.0	15056.7	15327.7	15217.8	14765.2	14145.7	13681.4	14548.5	10519.2
47.5°	14211.6	14155.9	14765.2	15711.4	16183.0	16373.4	15802.2	14839.9	15434.6	10922.0
50°	12231.4	12210.9	13464.6	15201.7	16550.6	17782.4	17549.5	15917.9	16121.5	11129.9
52.5°	10605.6	10530.9	11261.8	13570.1	16016.0	18523.5	19257.3	16975.4	16601.9	11169.5
55°	8043.9	7978.0	8894.9	10839.9	14292.1	18259.9	20506.7	18066.6	16946.1	11068.4
57.5°	4314.9	4273.9	5432.4	7214.9	11172.4	16678.1	20732.2	19220.7	17236.1	10800.4
60°	1680.0	1672.6	2106.2	3500.5	6790.2	13568.6	19594.2	19913.5	17417.7	10470.8
62.5°	1016.5	1038.4	1108.7	1571.6	2999.6	8429.1	16971.0	19125.5	17539.3	10169.1
65°	840.7	842.2	851.0	1079.5	1436.8	3526.9	12776.2	16533.1	17239.0	9631.6
67.5°	720.6	733.8	767.5	856.8	1013.5	1546.7	7355.5	12807.0	15412.6	8380.8
70°	568.3	585.9	628.3	704.5	782.1	968.1	2718.4	8521.4	11774.4	6317.1
72.5°	478.9	477.5	499.4	572.7	621.0	681.1	1045.8	4774.8	6842.9	3015.7
75°	370.6	385.2	413.0	478.9	508.2	493.6	566.8	1744.4	2451.8	913.9
77.5°	290.0	301.7	326.6	391.1	420.4	350.1	326.6	623.9	788.0	328.1
80°	130.4	140.6	222.6	288.5	342.7	241.7	177.2	319.3	350.1	149.4
82.5°	23.4	39.5	130.4	152.3	175.8	156.7	92.3	165.5	171.4	60.1
85°	1.5	2.9	45.4	55.7	70.3	51.3	27.8	65.9	57.1	20.5
87.5°	0.0	0.0	0.0	1.5	1.5	7.3	8.8	11.7	8.8	7.3
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°
5723.9	0°	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9	5723.9
5737.1	2.5°	5631.6	5423.6	5221.5	5056.0	4959.3	4795.3	4686.9	4669.3	4623.9	4663.5
5751.7	5°	5523.2	5151.2	4774.8	4437.9	4161.1	3803.7	3537.2	3424.4	3326.2	3359.9
5789.8	7.5°	5472.0	4884.6	4298.8	3723.2	3131.4	2560.2	2135.5	1958.2	1823.5	1842.5
5832.3	10°	5403.1	4607.8	3689.5	2810.7	2018.3	1454.4	1161.5	1053.1	993.0	994.5
5895.3	12.5°	5350.4	4276.8	2982.0	1905.5	1228.8	928.6	837.8	811.4	793.8	795.3
5990.5	15°	5324.0	3887.2	2283.4	1269.9	878.8	786.5	764.6	752.8	741.1	739.7
6095.9	17.5°	5280.1	3453.7	1671.2	927.1	768.9	736.7	717.7	704.5	689.9	686.9
6186.7	20°	5214.2	2961.5	1221.5	783.6	720.6	695.7	669.3	651.8	634.2	631.3
6243.8	22.5°	5092.6	2441.6	938.8	725.0	685.5	657.6	625.4	604.9	587.3	584.4
6216.0	25°	4867.1	1953.9	790.9	688.4	654.7	621.0	585.9	558.0	541.9	539.0
6156.0	27.5°	4581.5	1535.0	717.7	654.7	615.2	584.4	544.9	518.5	503.8	500.9
6076.9	30°	4244.6	1182.0	675.2	616.6	568.3	541.9	506.8	484.8	476.0	476.0
6021.2	32.5°	3881.3	944.7	657.6	578.5	527.3	498.0	470.2	461.4	458.4	457.0
6052.0	35°	3540.1	820.2	648.8	547.8	490.7	462.8	451.1	452.6	458.4	458.4
6147.2	37.5°	3236.9	780.7	644.4	525.8	458.4	433.5	440.9	454.0	448.2	448.2
6314.1	40°	2963.0	785.1	641.5	509.7	432.1	417.4	432.1	421.8	407.2	405.7
6517.7	42.5°	2753.6	821.7	635.7	496.5	416.0	405.7	399.9	383.7	382.3	385.2
6728.6	45°	2601.2	853.9	634.2	490.7	398.4	379.3	372.0	355.9	385.2	392.5
6815.1	47.5°	2421.1	853.9	634.2	470.2	369.1	361.8	350.1	332.5	361.8	369.1
6733.0	50°	2188.2	799.7	609.3	446.7	345.7	341.3	320.8	298.8	292.9	297.3
6541.2	52.5°	1893.8	701.6	546.3	414.5	322.2	313.4	288.5	272.4	268.0	268.0
6197.0	55°	1558.4	587.3	461.4	367.6	297.3	281.2	263.6	256.3	251.9	249.0
5715.1	57.5°	1266.9	481.9	370.6	326.6	273.9	253.4	247.5	238.7	231.4	227.0
5312.3	60°	1039.9	379.3	306.1	290.0	250.5	231.4	230.0	218.2	199.2	196.3
4979.8	62.5°	802.6	278.3	257.8	251.9	227.0	210.9	208.0	184.5	155.3	149.4
4508.2	65°	566.8	216.8	208.0	221.2	202.1	187.5	180.2	145.0	114.2	109.8
3773.0	67.5°	398.4	181.6	164.0	193.3	175.8	156.7	152.3	123.0	95.2	92.3
2853.2	70°	284.1	147.9	134.7	165.5	140.6	137.7	128.9	102.5	77.6	74.7
1411.9	72.5°	200.7	112.8	104.0	143.5	96.7	118.6	105.5	79.1	58.6	55.7
480.4	75°	147.9	80.6	73.2	83.5	70.3	89.3	74.7	52.7	36.6	35.2
216.8	77.5°	108.4	51.3	43.9	41.0	41.0	55.7	41.0	22.0	16.1	14.6
109.8	80°	76.2	23.4	20.5	17.6	16.1	13.2	5.9	2.9	1.5	1.5
38.1	82.5°	45.4	10.3	10.3	7.3	4.4	0.0	0.0	0.0	0.0	0.0
14.6	85°	10.3	4.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	1.5	1.5	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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