

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: P949074

Luminaire Tested: **GALN-SB3D-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949074  
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-SB3D-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

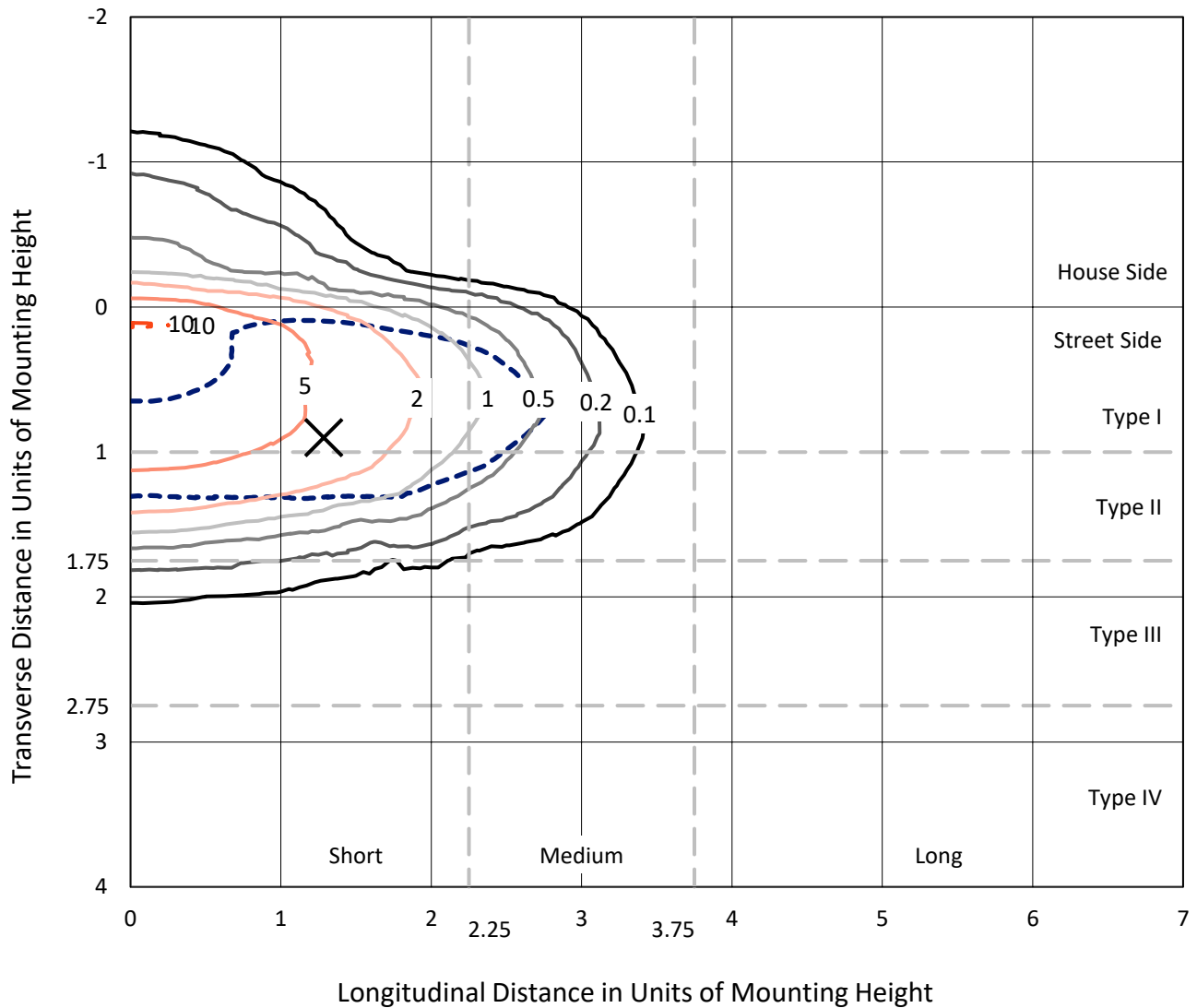
Lumens per Lamp: N/A  
Luminaire Lumens: 18864 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

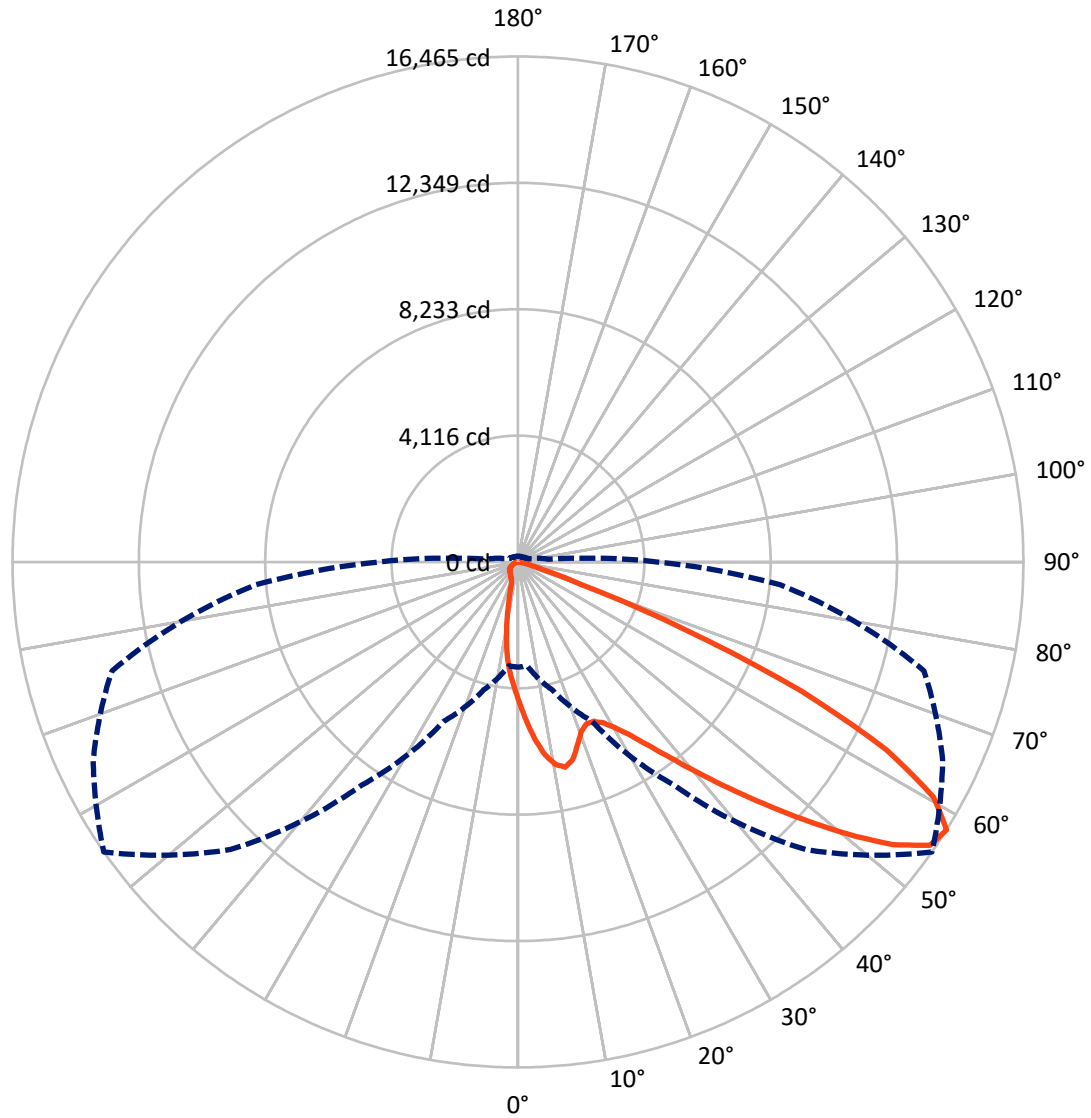
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	1473.2	0.0	1473.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	17390.8	0.0	17390.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	18864.0	0.0	18864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.0	2.2
10°-20°	1021.7	5.4
20°-30°	1634.6	8.7
30°-40°	2766.7	14.7
40°-50°	4542.4	24.1
50°-60°	4992.4	26.5
60°-70°	2863.6	15.2
70°-80°	585.1	3.1
80°-90°	34.5	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°	18864.0	100.0
0°-180°	18864.0	100.0

**Coefficient of Utilization**



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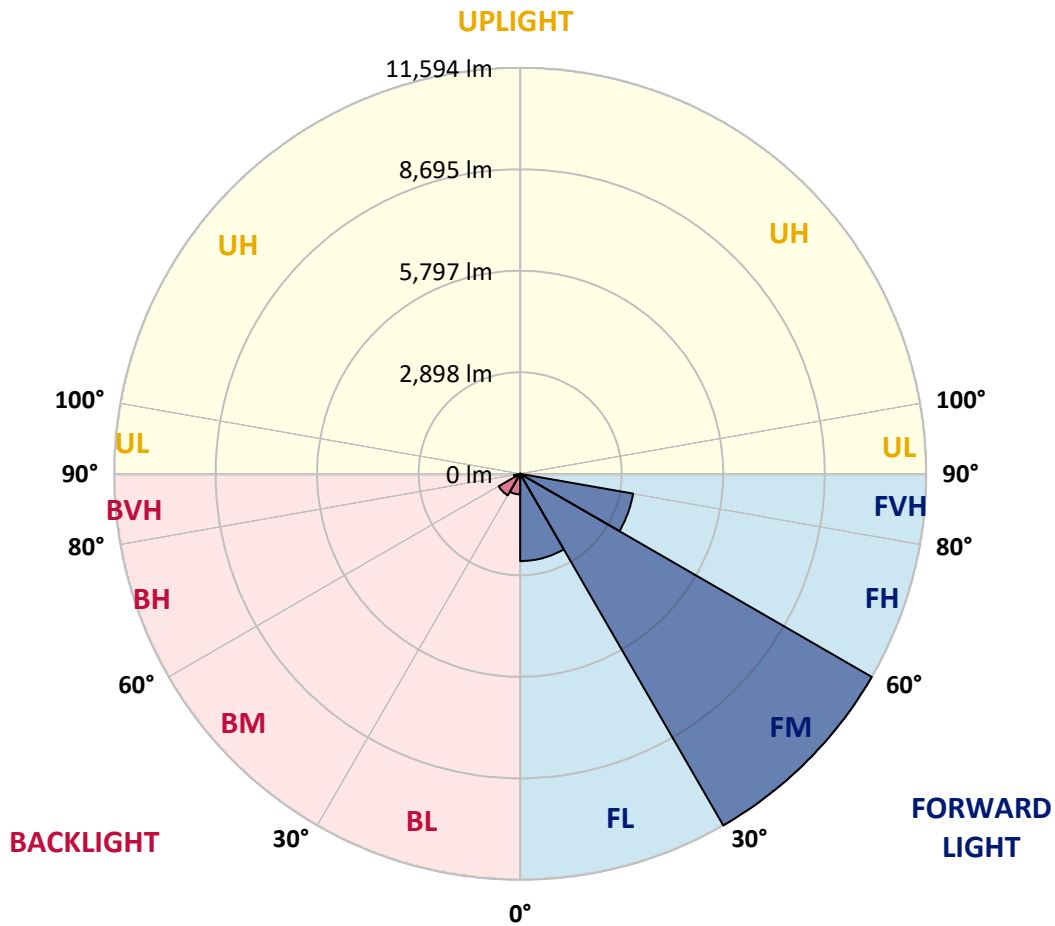
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.1	13.2			
FM (30°-60°)	11594.0	61.5			
FH (60°-80°)	3273.6	17.4			G2/5000
FVH (80°-90°)	32.2	0.2			G1/100
BL (0°-30°)	588.1	3.1	B2/1000		
BM (30°-60°)	707.5	3.8	B1/1000		
BH (60°-80°)	175.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8
2.5°	5640.3	5569.4	5558.9	5544.9	5410.0	5308.8	5162.3	5001.7	4821.4	4637.7
5°	6516.2	6460.4	6449.9	6384.8	6231.2	6059.1	5798.5	5469.3	5133.2	4737.7
7.5°	6686.0	6675.6	6723.3	6720.9	6700.0	6563.9	6344.1	5952.1	5447.2	4861.0
10°	5928.8	5955.5	6097.5	6221.9	6558.1	6753.5	6705.8	6382.4	5770.6	5001.7
12.5°	5239.0	5207.6	5308.8	5449.6	5840.4	6422.0	6855.9	6741.9	6140.5	5161.1
15°	4806.3	4793.5	4850.5	4915.7	5213.4	5799.7	6681.4	7033.8	6496.4	5349.5
17.5°	4667.9	4657.4	4674.9	4691.2	4884.2	5337.9	6266.1	7213.0	6837.2	5564.7
20°	4780.7	4766.8	4764.4	4751.6	4831.9	5141.3	5890.4	7225.8	7143.2	5760.1
22.5°	5109.9	5093.6	5036.6	4985.4	4992.4	5168.1	5722.9	7097.8	7373.5	5942.8
25°	5706.6	5679.9	5561.2	5389.1	5279.7	5354.2	5748.5	6929.1	7593.3	6085.8
27.5°	6453.4	6418.5	6266.1	6010.2	5760.1	5669.4	5933.4	6812.8	7775.9	6195.2
30°	7185.0	7139.7	6989.6	6790.7	6425.5	6139.3	6267.3	6864.0	7993.5	6309.2
32.5°	7974.9	7931.8	7732.9	7486.3	7183.9	6798.9	6724.4	7114.1	8259.8	6468.5
35°	8974.0	8906.6	8623.9	8287.8	7966.7	7577.0	7343.2	7545.6	8614.6	6711.6
37.5°	10111.6	10020.9	9716.2	9252.0	8833.3	8397.1	8097.0	8138.9	9134.6	7037.3
40°	11184.1	11101.5	10820.0	10382.7	9856.9	9327.6	9007.8	8914.7	9852.2	7434.0
42.5°	11827.3	11752.9	11634.3	11449.3	11006.1	10466.4	10062.8	9861.6	10701.4	7908.6
45°	11863.4	11798.3	11957.6	12172.8	12085.6	11726.2	11234.1	10865.4	11554.0	8354.1
47.5°	11286.5	11242.3	11726.2	12477.6	12852.1	13003.3	12549.7	11785.5	12257.7	8673.9
50°	9713.8	9697.5	10693.2	12072.8	13144.1	14122.3	13937.4	12641.6	12803.3	8839.1
52.5°	8422.7	8363.4	8943.8	10777.0	12719.5	14710.9	15293.7	13481.4	13184.8	8870.5
55°	6388.3	6335.9	7064.1	8608.8	11350.4	14501.5	16285.9	14348.0	13458.1	8790.3
57.5°	3426.8	3394.2	4314.3	5729.9	8872.8	13245.3	16465.0	15264.6	13688.5	8577.4
60°	1334.2	1328.4	1672.7	2780.0	5392.6	10775.8	15561.2	15814.8	13832.7	8315.7
62.5°	807.3	824.7	880.5	1248.1	2382.2	6694.2	13477.9	15189.0	13929.2	8076.1
65°	667.7	668.8	675.8	857.3	1141.1	2801.0	10146.5	13130.1	13690.8	7649.2
67.5°	572.3	582.8	609.5	680.5	804.9	1228.3	5841.6	10171.0	12240.3	6655.8
70°	451.3	465.3	499.0	559.5	621.1	768.9	2158.9	6767.5	9350.9	5016.9
72.5°	380.4	379.2	396.6	454.8	493.2	540.9	830.5	3792.0	5434.4	2395.0
75°	294.3	305.9	328.0	380.4	403.6	392.0	450.2	1385.4	1947.2	725.8
77.5°	230.3	239.6	259.4	310.6	333.8	278.0	259.4	495.5	625.8	260.6
80°	103.5	111.7	176.8	229.1	272.2	191.9	140.7	253.6	278.0	118.6
82.5°	18.6	31.4	103.5	121.0	139.6	124.5	73.3	131.4	136.1	47.7
85°	1.2	2.3	36.1	44.2	55.8	40.7	22.1	52.3	45.4	16.3
87.5°	0.0	0.0	0.0	1.2	1.2	5.8	7.0	9.3	7.0	5.8
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°
4545.8	0°	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8	4545.8
4556.2	2.5°	4472.5	4307.3	4146.8	4015.3	3938.6	3808.3	3722.2	3708.3	3672.2	3703.6
4567.9	5°	4386.4	4091.0	3792.0	3524.5	3304.6	3020.8	2809.1	2719.5	2641.6	2668.4
4598.1	7.5°	4345.7	3879.2	3414.0	2956.8	2486.9	2033.3	1695.9	1555.2	1448.2	1463.3
4631.8	10°	4291.0	3659.4	2930.1	2232.2	1602.9	1155.1	922.4	836.3	788.6	789.8
4681.9	12.5°	4249.1	3396.5	2368.3	1513.3	975.9	737.5	665.3	644.4	630.5	631.6
4757.5	15°	4228.2	3087.1	1813.4	1008.5	697.9	624.6	607.2	597.9	588.6	587.4
4841.2	17.5°	4193.3	2742.8	1327.2	736.3	610.7	585.1	570.0	559.5	547.9	545.5
4913.3	20°	4141.0	2352.0	970.1	622.3	572.3	552.5	531.6	517.6	503.7	501.3
4958.7	22.5°	4044.4	1939.0	745.6	575.8	544.4	522.3	496.7	480.4	466.4	464.1
4936.6	25°	3865.3	1551.7	628.1	546.7	519.9	493.2	465.3	443.2	430.4	428.1
4888.9	27.5°	3638.5	1219.0	570.0	519.9	488.5	464.1	432.7	411.8	400.1	397.8
4826.1	30°	3370.9	938.7	536.2	489.7	451.3	430.4	402.5	385.0	378.0	378.0
4781.9	32.5°	3082.5	750.3	522.3	459.5	418.7	395.5	373.4	366.4	364.1	362.9
4806.3	35°	2811.4	651.4	515.3	435.0	389.7	367.6	358.3	359.4	364.1	364.1
4881.9	37.5°	2570.7	620.0	511.8	417.6	364.1	344.3	350.1	360.6	355.9	355.9
5014.5	40°	2353.1	623.5	509.5	404.8	343.1	331.5	343.1	335.0	323.4	322.2
5176.2	42.5°	2186.8	652.6	504.8	394.3	330.3	322.2	317.6	304.8	303.6	305.9
5343.7	45°	2065.8	678.1	503.7	389.7	316.4	301.3	295.5	282.7	305.9	311.7
5412.3	47.5°	1922.8	678.1	503.7	373.4	293.1	287.3	278.0	264.0	287.3	293.1
5347.2	50°	1737.8	635.1	483.9	354.8	274.5	271.0	254.7	237.3	232.6	236.1
5194.8	52.5°	1504.0	557.2	433.9	329.2	255.9	248.9	229.1	216.4	212.9	212.9
4921.5	55°	1237.6	466.4	366.4	292.0	236.1	223.3	209.4	203.6	200.1	197.7
4538.8	57.5°	1006.2	382.7	294.3	259.4	217.5	201.2	196.6	189.6	183.8	180.3
4218.9	60°	825.9	301.3	243.1	230.3	198.9	183.8	182.6	173.3	158.2	155.9
3954.9	62.5°	637.4	221.0	204.7	200.1	180.3	167.5	165.2	146.6	123.3	118.6
3580.3	65°	450.2	172.2	165.2	175.6	160.5	148.9	143.1	115.2	90.7	87.2
2996.4	67.5°	316.4	144.2	130.3	153.5	139.6	124.5	121.0	97.7	75.6	73.3
2265.9	70°	225.7	117.5	107.0	131.4	111.7	109.3	102.4	81.4	61.6	59.3
1121.3	72.5°	159.4	89.6	82.6	114.0	76.8	94.2	83.7	62.8	46.5	44.2
381.5	75°	117.5	64.0	58.2	66.3	55.8	71.0	59.3	41.9	29.1	27.9
172.2	77.5°	86.1	40.7	34.9	32.6	32.6	44.2	32.6	17.4	12.8	11.6
87.2	80°	60.5	18.6	16.3	14.0	12.8	10.5	4.7	2.3	1.2	1.2
30.2	82.5°	36.1	8.1	8.1	5.8	3.5	0.0	0.0	0.0	0.0	0.0
11.6	85°	8.1	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	1.2	1.2	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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