

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: P953001

Luminaire Tested: **GALN-SB6C-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953001  
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-SB6C-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

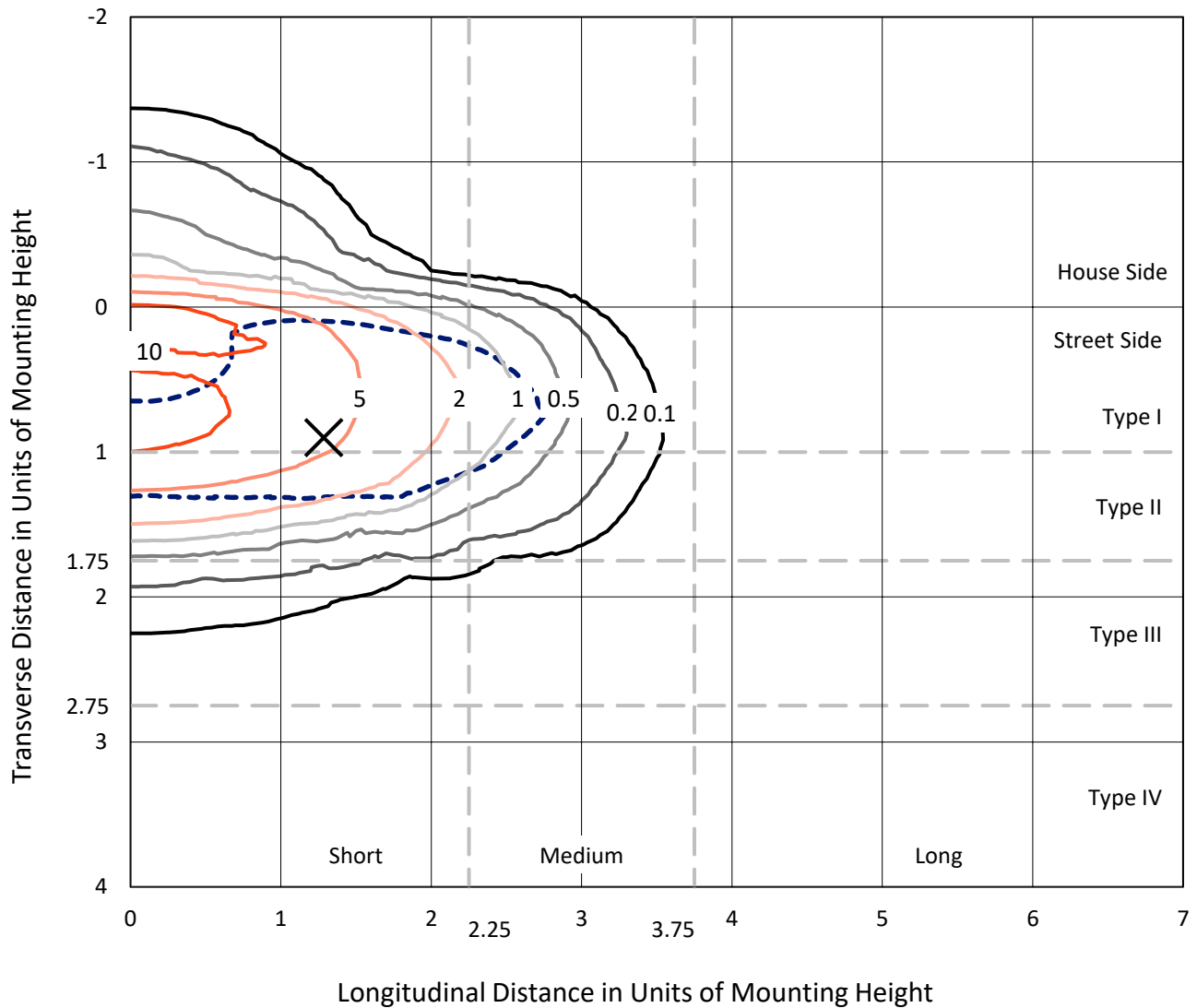
Lumens per Lamp: N/A  
Luminaire Lumens: 28059 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

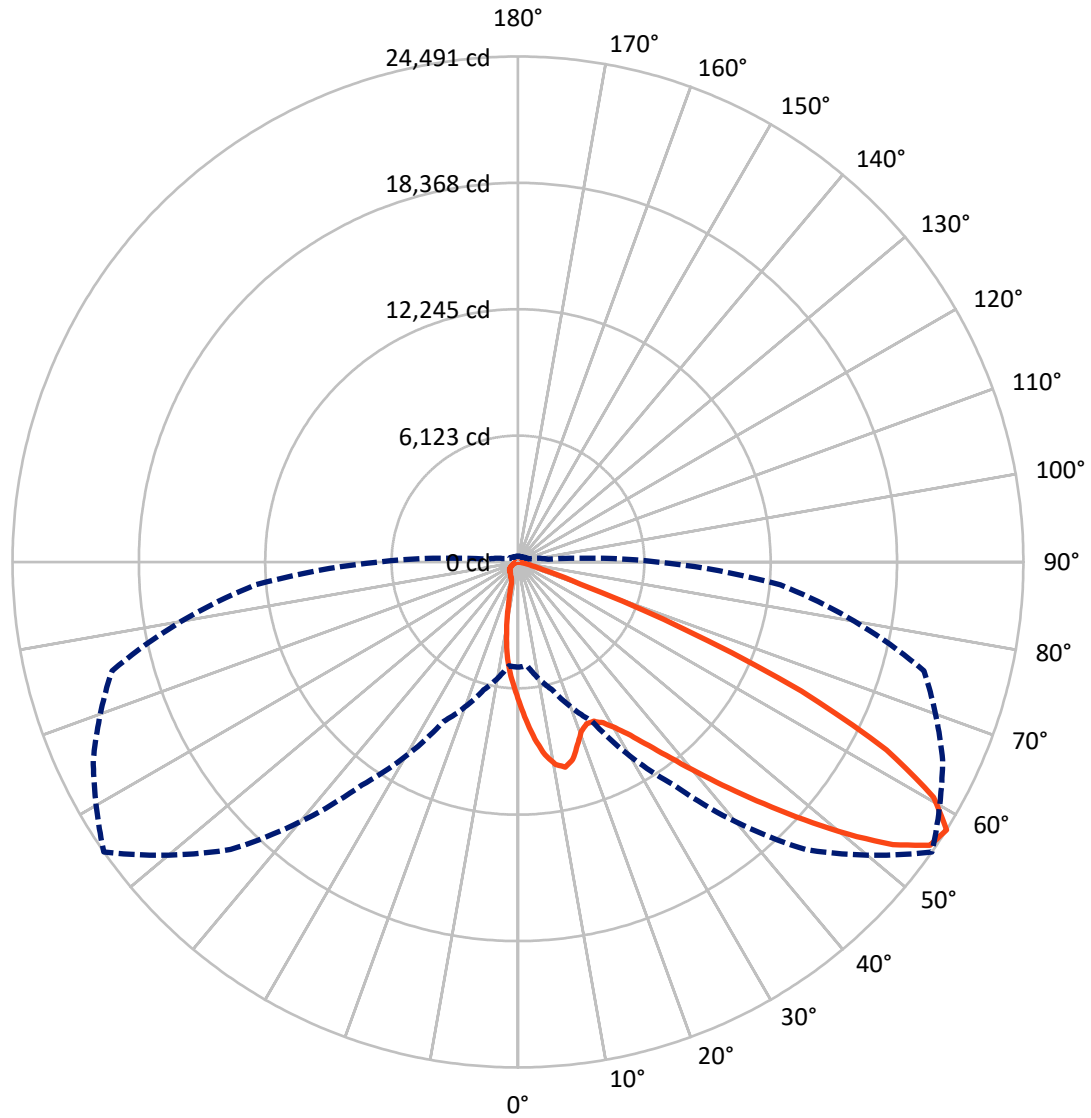
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	2191.3	0.0	2191.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	25867.7	0.0	25867.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	28059.0	0.0	28059.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.1	2.2
10°-20°	1519.6	5.4
20°-30°	2431.4	8.7
30°-40°	4115.3	14.7
40°-50°	6756.5	24.1
50°-60°	7425.9	26.5
60°-70°	4259.5	15.2
70°-80°	870.3	3.1
80°-90°	51.3	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°	28059.0	100.0
0°-180°	28059.0	100.0

**Coefficient of Utilization**



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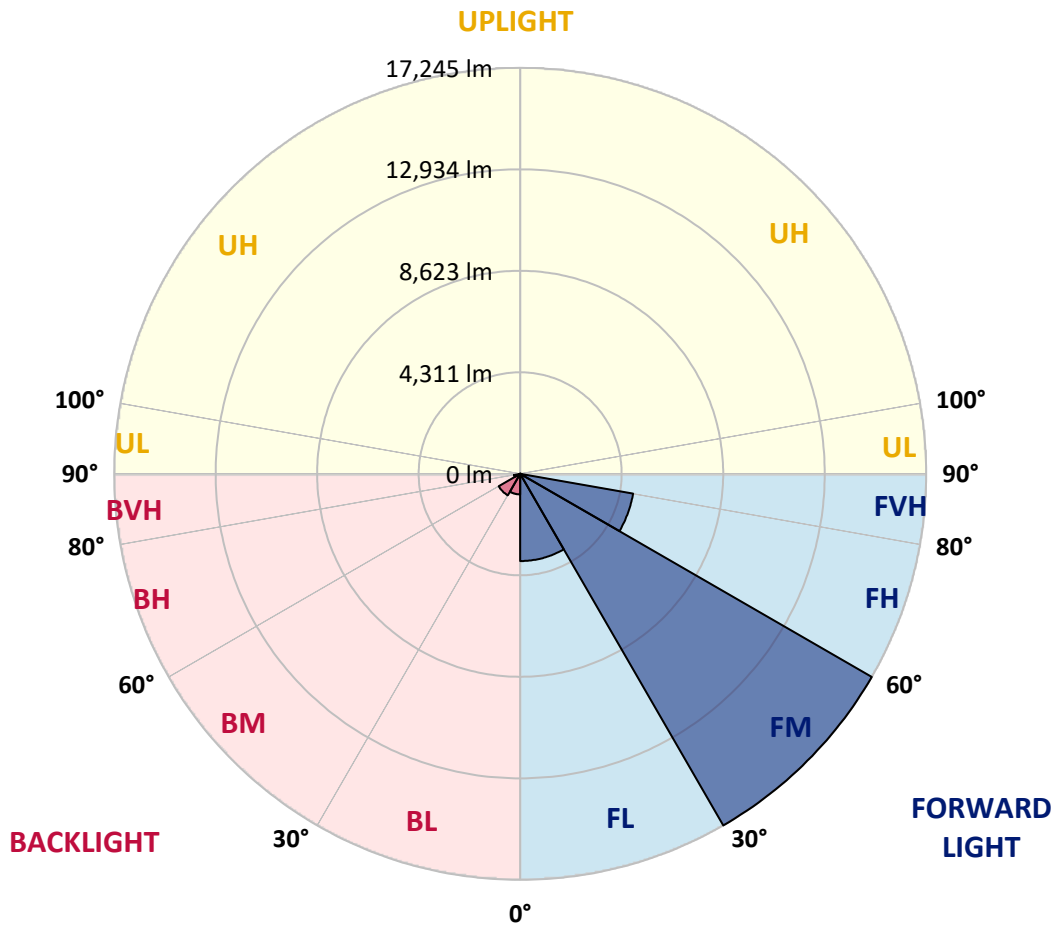
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3705.4	13.2			
FM (30°-60°)	17245.3	61.5			
FH (60°-80°)	4869.2	17.4			G2/5000
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	874.8	3.1	B2/1000		
BM (30°-60°)	1052.4	3.8	B2/2500		
BH (60°-80°)	260.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	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°	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5
2.5°	8389.6	8284.1	8268.5	8247.7	8047.0	7896.5	7678.5	7439.8	7171.6	6898.2
5°	9692.4	9609.4	9593.8	9496.9	9268.6	9012.5	8624.9	8135.3	7635.3	7047.0
7.5°	9945.1	9929.5	10000.4	9997.0	9965.8	9763.4	9436.4	8853.3	8102.4	7230.4
10°	8818.7	8858.5	9069.6	9254.7	9754.7	10045.4	9974.5	9493.5	8583.4	7439.8
12.5°	7792.7	7746.0	7896.5	8105.9	8687.2	9552.3	10197.7	10028.1	9133.6	7676.8
15°	7149.1	7130.1	7214.8	7311.7	7754.6	8626.7	9938.1	10462.4	9663.0	7957.1
17.5°	6943.2	6927.6	6953.6	6977.8	7265.0	7939.8	9320.5	10728.8	10170.0	8277.2
20°	7111.0	7090.3	7086.8	7067.8	7187.2	7647.4	8761.6	10747.9	10625.0	8567.8
22.5°	7600.7	7576.4	7491.7	7415.5	7425.9	7687.2	8512.5	10557.5	10967.6	8839.5
25°	8488.2	8448.4	8272.0	8015.9	7853.3	7964.0	8550.5	10306.7	11294.6	9052.3
27.5°	9599.0	9547.1	9320.5	8939.8	8567.8	8432.9	8825.6	10133.6	11566.2	9214.9
30°	10687.3	10619.8	10396.6	10100.8	9557.5	9131.9	9322.2	10209.8	11889.8	9384.5
32.5°	11862.1	11798.1	11502.2	11135.4	10685.6	10112.9	10002.1	10581.8	12286.0	9621.5
35°	13348.3	13248.0	12827.5	12327.5	11850.0	11270.4	10922.6	11223.7	12813.7	9983.1
37.5°	15040.4	14905.5	14452.2	13761.8	13139.0	12490.1	12043.8	12106.0	13587.1	10467.6
40°	16635.6	16512.8	16094.1	15443.6	14661.5	13874.3	13398.5	13260.1	14654.6	11057.6
42.5°	17592.4	17481.7	17305.2	17030.1	16370.9	15568.1	14967.8	14668.4	15917.6	11763.5
45°	17646.1	17549.2	17786.2	18106.3	17976.5	17441.9	16710.0	16161.6	17185.8	12426.1
47.5°	16787.9	16722.2	17441.9	18559.6	19116.7	19341.6	18666.9	17530.1	18232.6	12901.9
50°	14448.7	14424.5	15905.5	17957.5	19551.0	21006.1	20731.0	18803.6	19044.0	13147.6
52.5°	12528.2	12440.0	13303.3	16030.1	18919.5	21881.5	22748.4	20052.7	19611.5	13194.3
55°	9502.1	9424.3	10507.4	12805.0	16883.1	21570.1	24224.2	21341.7	20018.1	13074.9
57.5°	5097.1	5048.7	6417.2	8522.8	13197.8	19701.5	24490.6	22705.1	20360.7	12758.3
60°	1984.5	1975.9	2488.0	4135.1	8021.1	16028.3	23146.3	23523.5	20575.3	12369.0
62.5°	1200.7	1226.7	1309.7	1856.5	3543.4	9957.2	20047.5	22592.6	20718.9	12012.6
65°	993.1	994.9	1005.2	1275.1	1697.3	4166.3	15092.3	19530.2	20364.2	11377.6
67.5°	851.2	866.8	906.6	1012.2	1197.3	1827.1	8688.9	15128.7	18206.6	9900.1
70°	671.3	692.1	742.2	832.2	923.9	1143.6	3211.2	10066.2	13908.9	7462.2
72.5°	565.8	564.0	590.0	676.5	733.6	804.5	1235.3	5640.4	8083.4	3562.4
75°	437.7	455.0	487.9	565.8	600.4	583.1	669.6	2060.6	2896.3	1079.6
77.5°	342.6	356.4	385.8	462.0	496.6	413.5	385.8	737.1	930.8	387.6
80°	154.0	166.1	263.0	340.8	404.9	285.5	209.4	377.2	413.5	176.5
82.5°	27.7	46.7	154.0	179.9	207.6	185.1	109.0	195.5	202.4	70.9
85°	1.7	3.5	53.6	65.7	83.0	60.6	32.9	77.9	67.5	24.2
87.5°	0.0	0.0	0.0	1.7	1.7	8.7	10.4	13.8	10.4	8.7
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°
6761.5	0°	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5	6761.5
6777.1	2.5°	6652.5	6406.8	6168.1	5972.6	5858.4	5664.6	5536.6	5515.8	5462.2	5508.9
6794.4	5°	6524.5	6085.0	5640.4	5242.4	4915.4	4493.3	4178.4	4045.2	3929.2	3969.0
6839.4	7.5°	6463.9	5770.1	5078.1	4398.1	3699.1	3024.3	2522.6	2313.2	2154.1	2176.6
6889.6	10°	6382.6	5443.1	4358.3	3320.2	2384.2	1718.1	1372.0	1244.0	1173.1	1174.8
6964.0	12.5°	6320.3	5052.1	3522.6	2251.0	1451.6	1096.9	989.7	958.5	937.8	939.5
7076.4	15°	6289.2	4591.9	2697.3	1500.1	1038.1	929.1	903.2	889.3	875.5	873.7
7201.0	17.5°	6237.3	4079.8	1974.1	1095.2	908.3	870.3	847.8	832.2	814.9	811.5
7308.3	20°	6159.4	3498.4	1443.0	925.6	851.2	821.8	790.7	769.9	749.2	745.7
7375.7	22.5°	6015.8	2884.2	1109.0	856.4	809.7	776.8	738.8	714.6	693.8	690.3
7342.9	25°	5749.4	2308.1	934.3	813.2	773.4	733.6	692.1	659.2	640.2	636.7
7271.9	27.5°	5412.0	1813.2	847.8	773.4	726.7	690.3	643.6	612.5	595.2	591.7
7178.5	30°	5014.0	1396.3	797.6	728.4	671.3	640.2	598.6	572.7	562.3	562.3
7112.8	32.5°	4585.0	1116.0	776.8	683.4	622.9	588.3	555.4	545.0	541.5	539.8
7149.1	35°	4181.8	968.9	766.5	647.1	579.6	546.7	532.9	534.6	541.5	541.5
7261.5	37.5°	3823.7	922.2	761.3	621.1	541.5	512.1	520.8	536.4	529.4	529.4
7458.8	40°	3500.1	927.4	757.8	602.1	510.4	493.1	510.4	498.3	481.0	479.3
7699.3	42.5°	3252.7	970.6	750.9	586.5	491.4	479.3	472.3	453.3	451.6	455.0
7948.4	45°	3072.8	1008.7	749.2	579.6	470.6	448.1	439.5	420.4	455.0	463.7
8050.5	47.5°	2860.0	1008.7	749.2	555.4	436.0	427.4	413.5	392.7	427.4	436.0
7953.6	50°	2584.9	944.7	719.8	527.7	408.3	403.1	378.9	353.0	346.0	351.2
7727.0	52.5°	2237.1	828.8	645.4	489.6	380.6	370.3	340.8	321.8	316.6	316.6
7320.4	55°	1840.9	693.8	545.0	434.3	351.2	332.2	311.4	302.8	297.6	294.1
6751.1	57.5°	1496.6	569.2	437.7	385.8	323.5	299.3	292.4	282.0	273.4	268.2
6275.3	60°	1228.4	448.1	361.6	342.6	295.9	273.4	271.6	257.8	235.3	231.8
5882.6	62.5°	948.1	328.7	304.5	297.6	268.2	249.1	245.7	218.0	183.4	176.5
5325.5	65°	669.6	256.1	245.7	261.3	238.8	221.5	212.8	171.3	135.0	129.8
4456.9	67.5°	470.6	214.5	193.8	228.4	207.6	185.1	179.9	145.3	112.5	109.0
3370.4	70°	335.7	174.7	159.2	195.5	166.1	162.6	152.3	121.1	91.7	88.2
1667.9	72.5°	237.0	133.2	122.8	169.6	114.2	140.1	124.6	93.4	69.2	65.7
567.5	75°	174.7	95.2	86.5	98.6	83.0	105.5	88.2	62.3	43.3	41.5
256.1	77.5°	128.0	60.6	51.9	48.4	48.4	65.7	48.4	26.0	19.0	17.3
129.8	80°	90.0	27.7	24.2	20.8	19.0	15.6	6.9	3.5	1.7	1.7
45.0	82.5°	53.6	12.1	12.1	8.7	5.2	0.0	0.0	0.0	0.0	0.0
17.3	85°	12.1	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	1.7	1.7	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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