

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: P956823

Luminaire Tested: **GALN-SB9B-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956823  
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-SB9B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

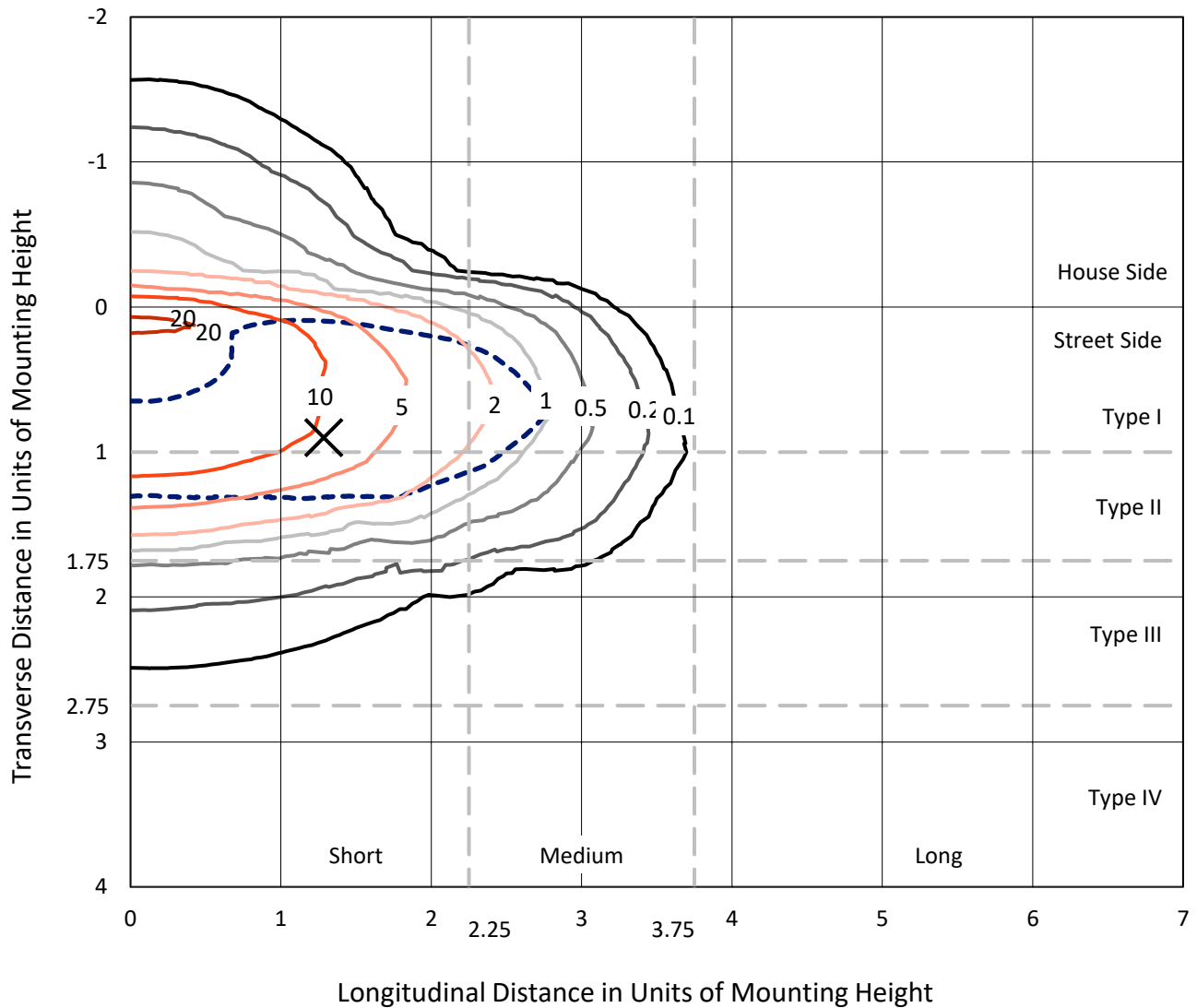
Lumens per Lamp: N/A  
Luminaire Lumens: 41829 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

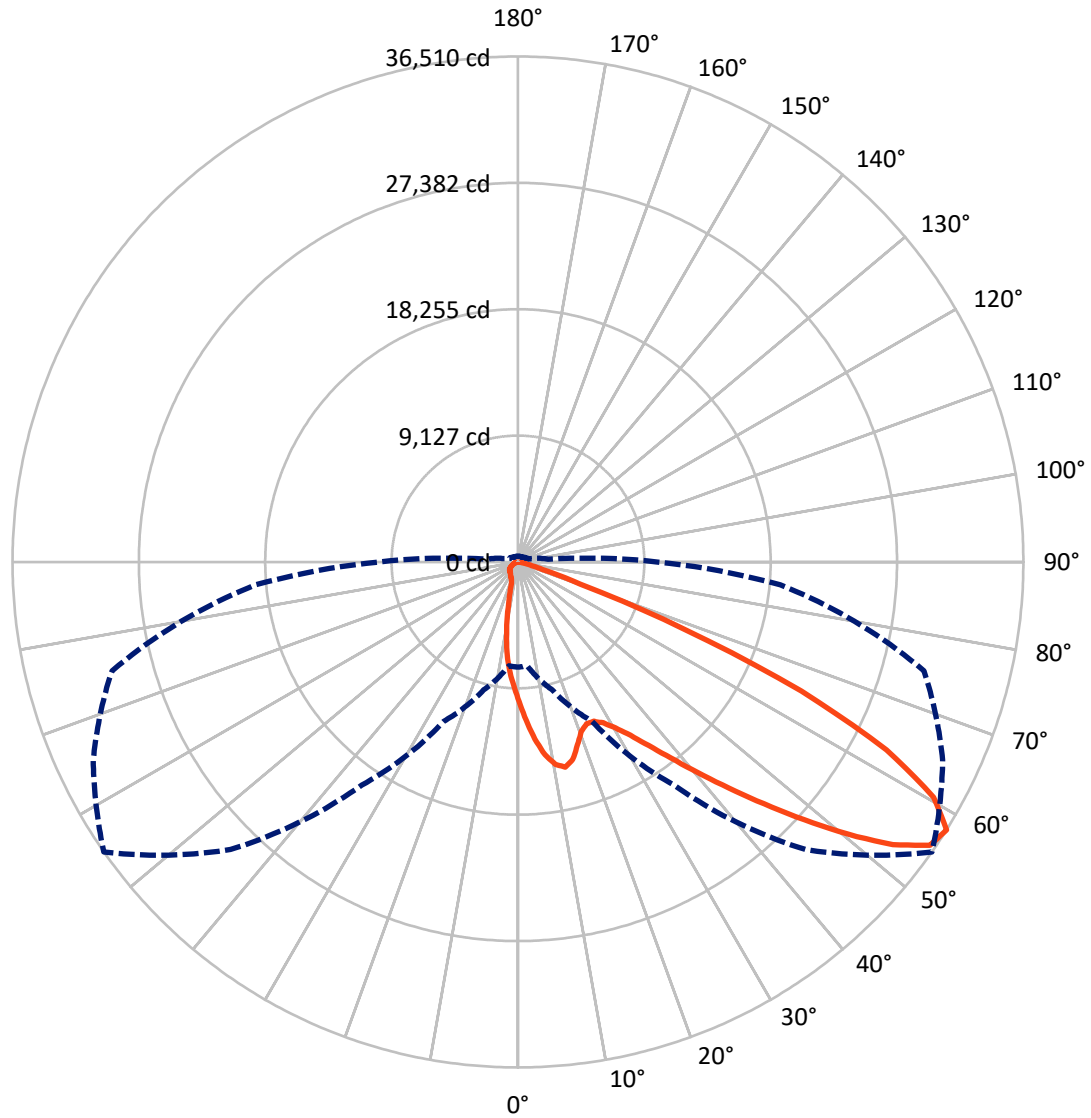
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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	3266.7	0.0	3266.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	38562.3	0.0	38562.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	41829.0	0.0	41829.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.9	2.2
10°-20°	2265.4	5.4
20°-30°	3624.6	8.7
30°-40°	6134.9	14.7
40°-50°	10072.2	24.1
50°-60°	11070.1	26.5
60°-70°	6349.8	15.2
70°-80°	1297.5	3.1
80°-90°	76.5	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°	41829.0	100.0
0°-180°	41829.0	100.0

**Coefficient of Utilization**



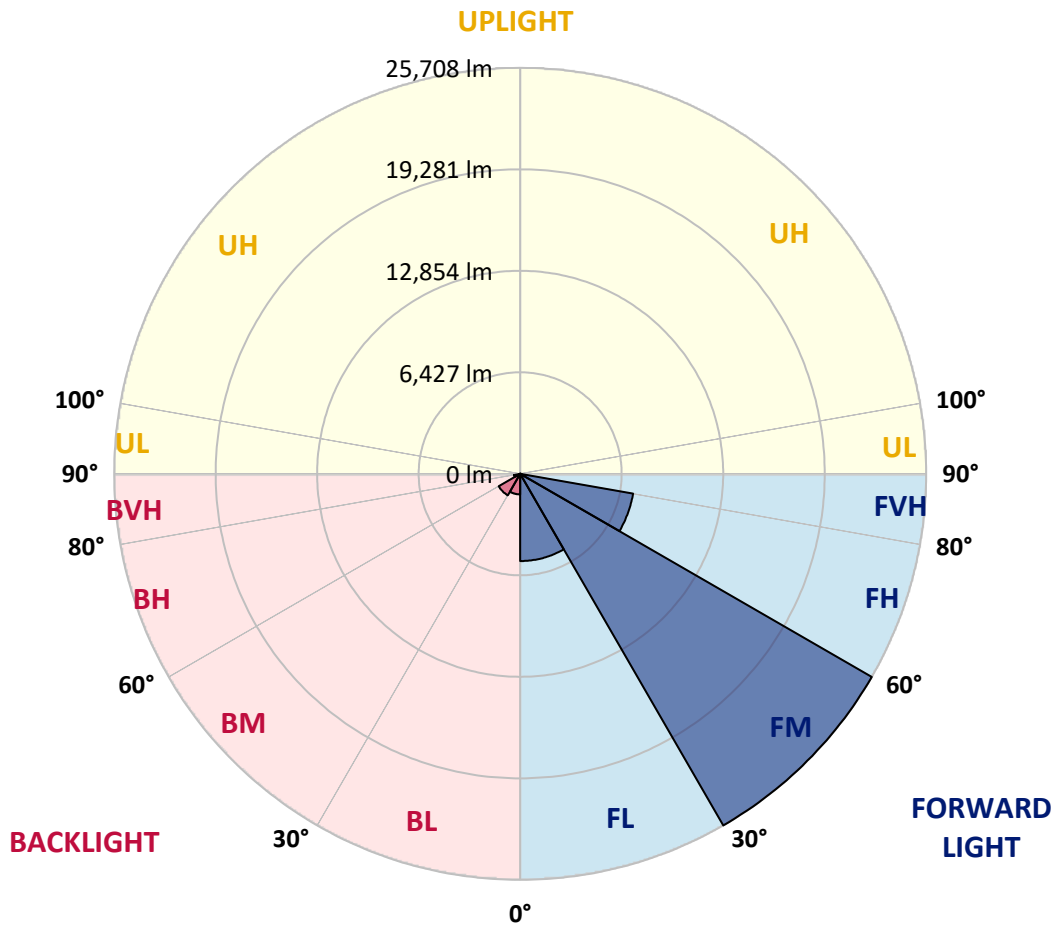
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5523.8	13.2			
FM	(30°-60°)	25708.4	61.5			
FH	(60°-80°)	7258.8	17.4			G3/7500
FVH	(80°-90°)	71.4	0.2			G1/100
BL	(0°-30°)	1304.1	3.1	B3/2500		
BM	(30°-60°)	1568.9	3.8	B2/2500		
BH	(60°-80°)	388.5	0.9	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8
2.5°	12506.8	12349.5	12326.3	12295.3	11996.2	11771.8	11446.8	11090.8	10691.0	10283.5
5°	14449.0	14325.2	14302.0	14157.6	13817.1	13435.4	12857.6	12127.7	11382.3	10505.3
7.5°	14825.6	14802.4	14908.1	14903.0	14856.6	14554.8	14067.3	13198.1	12078.7	10778.7
10°	13146.5	13205.8	13520.5	13796.5	14541.9	14975.2	14869.4	14152.4	12795.7	11090.8
12.5°	11617.0	11547.4	11771.8	12083.8	12950.5	14240.1	15202.2	14949.4	13615.9	11444.2
15°	10657.5	10629.1	10755.5	10900.0	11560.3	12860.2	14815.3	15596.8	14405.2	11862.0
17.5°	10350.6	10327.4	10366.1	10402.2	10830.3	11836.2	13894.5	15994.0	15160.9	12339.2
20°	10600.8	10569.8	10564.7	10536.3	10714.3	11400.3	13061.4	16022.4	15839.3	12772.5
22.5°	11330.7	11294.6	11168.2	11054.7	11070.2	11459.7	12690.0	15738.7	16349.9	13177.5
25°	12653.9	12594.5	12331.5	11949.7	11707.3	11872.3	12746.7	15364.7	16837.4	13494.7
27.5°	14309.7	14232.4	13894.5	13327.0	12772.5	12571.3	13156.8	15106.7	17242.4	13737.2
30°	15932.1	15831.5	15498.8	15057.7	14247.8	13613.3	13897.1	15220.2	17724.7	13989.9
32.5°	17683.4	17588.0	17146.9	16600.1	15929.5	15075.8	14910.7	15774.8	18315.3	14343.3
35°	19899.0	19749.4	19122.7	18377.2	17665.4	16801.3	16282.9	16731.7	19102.0	14882.3
37.5°	22421.5	22220.3	21544.6	20515.5	19586.9	18619.7	17954.2	18047.1	20254.9	15604.5
40°	24799.6	24616.5	23992.3	23022.5	21856.7	20683.1	19973.8	19767.5	21846.4	16484.1
42.5°	26225.9	26060.9	25797.8	25387.7	24405.0	23208.2	22313.2	21867.0	23729.2	17536.4
45°	26305.9	26161.5	26514.8	26992.0	26798.5	26001.5	24910.5	24092.9	25619.8	18524.3
47.5°	25026.6	24928.6	26001.5	27667.7	28498.3	28833.6	27827.7	26133.1	27180.3	19233.6
50°	21539.4	21503.3	23711.2	26770.2	29145.7	31314.8	30904.7	28031.4	28389.9	19599.8
52.5°	18676.4	18544.9	19831.9	23896.9	28204.2	32619.9	33912.1	29893.7	29235.9	19669.5
55°	14165.3	14049.2	15663.9	19089.1	25168.4	32155.7	36112.3	31815.2	29842.1	19491.5
57.5°	7598.5	7526.3	9566.5	12705.4	19674.6	29370.1	36509.5	33847.7	30352.8	19019.5
60°	2958.4	2945.5	3709.0	6164.4	11957.5	23894.3	34505.4	35067.7	30672.6	18439.1
62.5°	1790.0	1828.7	1952.5	2767.5	5282.3	14843.7	29885.9	33680.0	30886.7	17907.8
65°	1480.5	1483.1	1498.6	1900.9	2530.3	6210.9	22498.9	29114.7	30357.9	16961.2
67.5°	1269.0	1292.2	1351.5	1508.9	1784.8	2723.7	12953.1	22553.1	27141.6	14758.5
70°	1000.8	1031.7	1106.5	1240.6	1377.3	1704.9	4787.1	15006.1	20734.7	11124.4
72.5°	843.4	840.8	879.5	1008.5	1093.6	1199.4	1841.6	8408.4	12050.3	5310.7
75°	652.6	678.3	727.4	843.4	895.0	869.2	998.2	3071.9	4317.7	1609.5
77.5°	510.7	531.3	575.2	688.7	740.2	616.4	575.2	1098.8	1387.6	577.8
80°	229.6	247.6	392.0	508.1	603.5	425.6	312.1	562.3	616.4	263.1
82.5°	41.3	69.6	229.6	268.2	309.5	276.0	162.5	291.5	301.8	105.7
85°	2.6	5.2	80.0	98.0	123.8	90.3	49.0	116.1	100.6	36.1
87.5°	0.0	0.0	0.0	2.6	2.6	12.9	15.5	20.6	15.5	12.9
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°
10079.8	0°	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8	10079.8
10103.0	2.5°	9917.3	9551.0	9195.1	8903.6	8733.4	8444.5	8253.6	8222.7	8142.7	8212.4
10128.8	5°	9726.4	9071.3	8408.4	7815.2	7327.7	6698.3	6228.9	6030.3	5857.5	5916.8
10195.8	7.5°	9636.1	8601.8	7570.1	6556.5	5514.5	4508.6	3760.6	3448.5	3211.2	3244.7
10270.6	10°	9514.9	8114.4	6497.2	4949.6	3554.2	2561.2	2045.4	1854.5	1748.7	1751.3
10381.5	12.5°	9422.0	7531.4	5251.4	3355.6	2164.0	1635.3	1475.3	1428.9	1398.0	1400.5
10549.2	15°	9375.6	6845.4	4021.1	2236.2	1547.6	1385.1	1346.4	1325.7	1305.1	1302.5
10734.9	17.5°	9298.2	6081.9	2942.9	1632.7	1354.1	1297.4	1263.8	1240.6	1214.8	1209.7
10894.8	20°	9182.2	5215.3	2151.1	1379.9	1269.0	1225.1	1178.7	1147.8	1116.8	1111.7
10995.4	22.5°	8968.1	4299.6	1653.3	1276.7	1207.1	1158.1	1101.3	1065.2	1034.3	1029.1
10946.4	25°	8570.9	3440.7	1392.8	1212.3	1152.9	1093.6	1031.7	982.7	954.3	949.2
10840.6	27.5°	8067.9	2703.1	1263.8	1152.9	1083.3	1029.1	959.5	913.1	887.3	882.1
10701.4	30°	7474.7	2081.5	1189.0	1085.9	1000.8	954.3	892.4	853.7	838.3	838.3
10603.3	32.5°	6835.0	1663.6	1158.1	1018.8	928.5	876.9	827.9	812.5	807.3	804.7
10657.5	35°	6234.1	1444.4	1142.6	964.6	864.1	815.0	794.4	797.0	807.3	807.3
10825.2	37.5°	5700.2	1374.7	1134.9	926.0	807.3	763.5	776.4	799.6	789.3	789.3
11119.2	40°	5217.8	1382.5	1129.7	897.6	760.9	735.1	760.9	742.8	717.0	714.5
11477.7	42.5°	4849.0	1447.0	1119.4	874.4	732.5	714.5	704.1	675.8	673.2	678.3
11849.1	45°	4580.8	1503.7	1116.8	864.1	701.6	668.0	655.1	626.8	678.3	691.2
12001.3	47.5°	4263.5	1503.7	1116.8	827.9	650.0	637.1	616.4	585.5	637.1	650.0
11856.9	50°	3853.4	1408.3	1073.0	786.7	608.7	601.0	564.9	526.2	515.9	523.6
11519.0	52.5°	3335.0	1235.5	962.1	729.9	567.4	552.0	508.1	479.7	472.0	472.0
10912.9	55°	2744.3	1034.3	812.5	647.4	523.6	495.2	464.3	451.4	443.6	438.5
10064.3	57.5°	2231.1	848.6	652.6	575.2	482.3	446.2	435.9	420.4	407.5	399.8
9355.0	60°	1831.3	668.0	539.1	510.7	441.1	407.5	404.9	384.3	350.8	345.6
8769.5	62.5°	1413.4	490.1	454.0	443.6	399.8	371.4	366.3	325.0	273.4	263.1
7939.0	65°	998.2	381.7	366.3	389.5	355.9	330.1	317.2	255.3	201.2	193.4
6644.2	67.5°	701.6	319.8	288.9	340.5	309.5	276.0	268.2	216.7	167.7	162.5
5024.4	70°	500.4	260.5	237.3	291.5	247.6	242.5	227.0	180.5	136.7	131.5
2486.4	72.5°	353.4	198.6	183.1	252.8	170.2	208.9	185.7	139.3	103.2	98.0
846.0	75°	260.5	141.9	129.0	147.0	123.8	157.3	131.5	92.9	64.5	61.9
381.7	77.5°	190.9	90.3	77.4	72.2	72.2	98.0	72.2	38.7	28.4	25.8
193.4	80°	134.1	41.3	36.1	31.0	28.4	23.2	10.3	5.2	2.6	2.6
67.1	82.5°	80.0	18.1	18.1	12.9	7.7	0.0	0.0	0.0	0.0	0.0
25.8	85°	18.1	7.7	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	2.6	2.6	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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