

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: P957642

Luminaire Tested: **GALN-SB9D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957642
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-SB9D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 57266 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

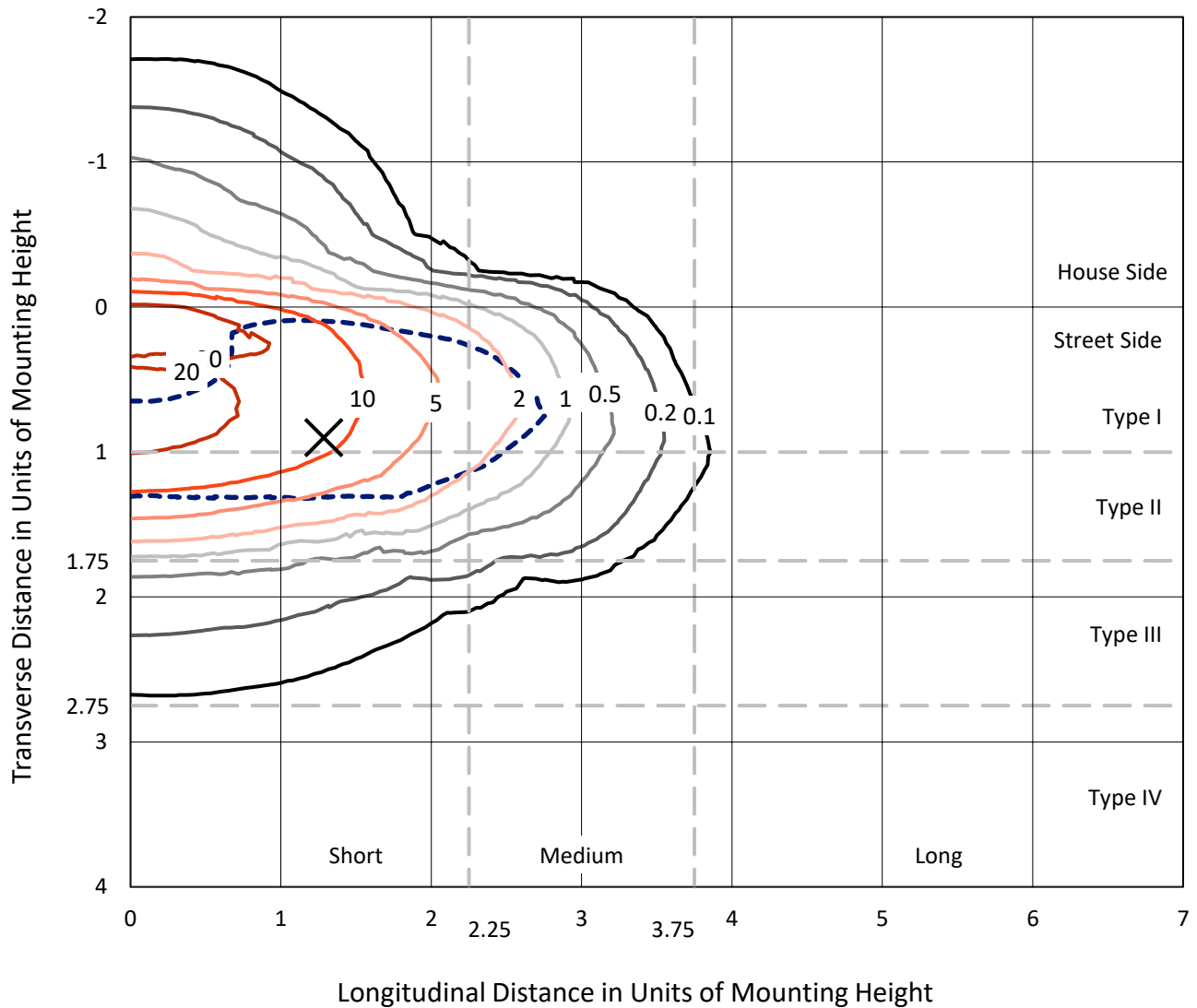
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

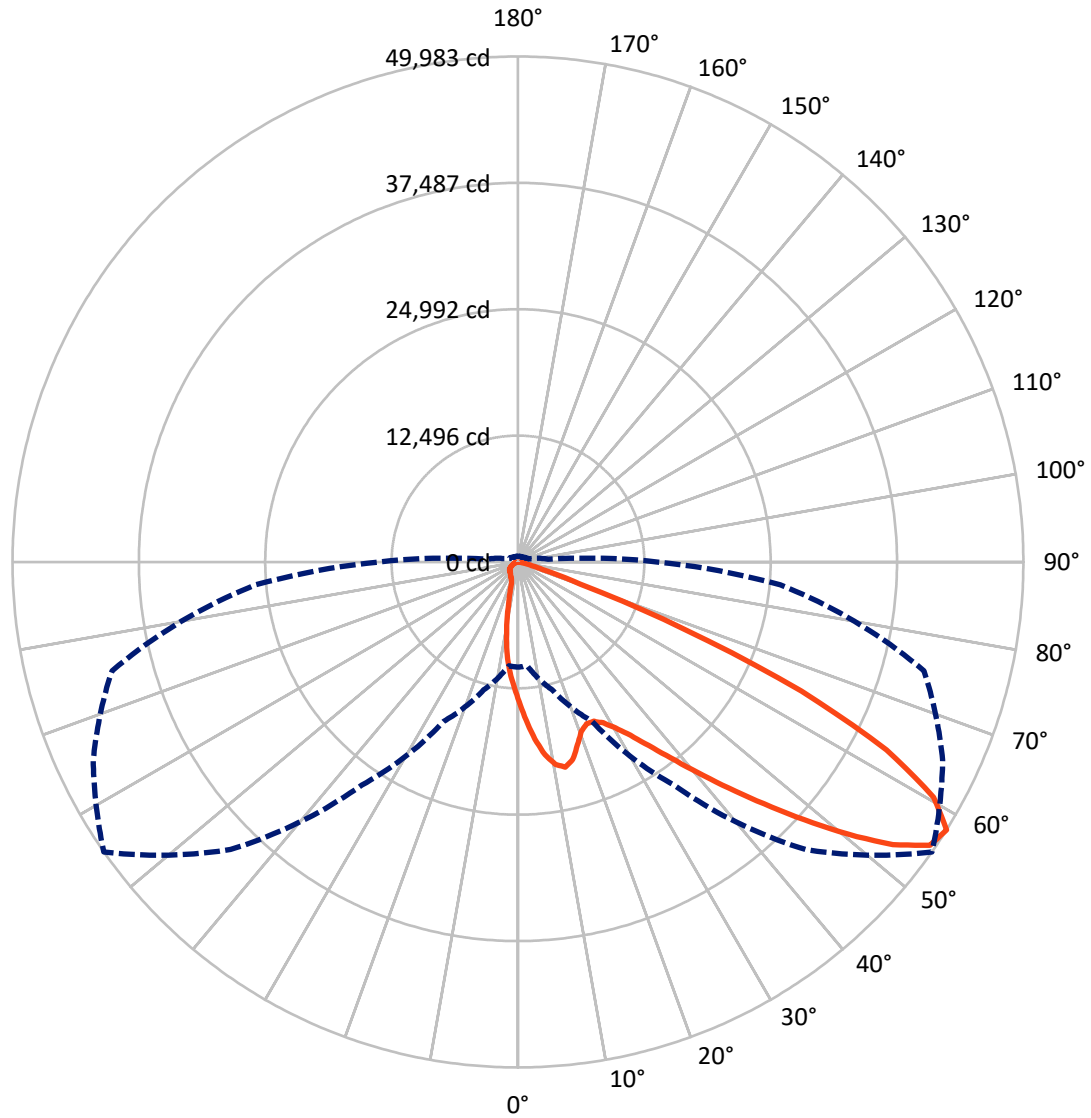
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.6 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
House Side	Lumens	4472.2	0.0	4472.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	52793.8	0.0	52793.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	57266.0	0.0	57266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1284.0	2.2
10°-20°	3101.5	5.4
20°-30°	4962.3	8.7
30°-40°	8399.0	14.7
40°-50°	13789.4	24.1
50°-60°	15155.5	26.5
60°-70°	8693.2	15.2
70°-80°	1776.3	3.1
80°-90°	104.8	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°	57266.0	100.0
0°-180°	57266.0	100.0

Coefficient of Utilization



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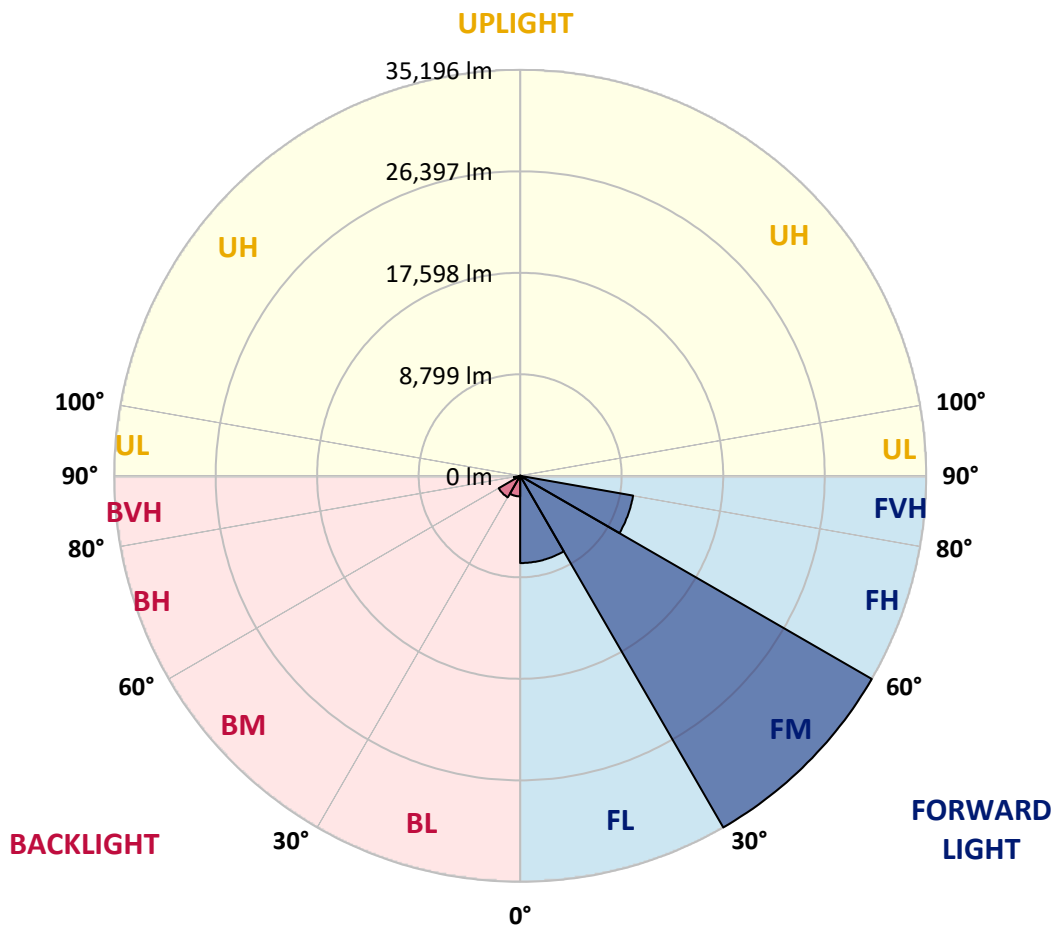
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7562.3	13.2			
FM (30°-60°)	35196.1	61.5			
FH (60°-80°)	9937.6	17.4			G4/12000
FVH (80°-90°)	97.7	0.2			G1/100
BL (0°-30°)	1785.4	3.1	B3/2500		
BM (30°-60°)	2147.9	3.8	B2/2500		
BH (60°-80°)	531.9	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7
2.5°	17122.5	16907.1	16875.3	16832.9	16423.3	16116.1	15671.2	15183.9	14636.6	14078.7
5°	19781.4	19612.0	19580.2	19382.4	18916.3	18393.7	17602.7	16603.4	15582.9	14382.3
7.5°	20297.0	20265.2	20410.0	20402.9	20339.4	19926.2	19258.8	18068.8	16536.3	14756.6
10°	17998.2	18079.4	18510.2	18888.1	19908.6	20501.8	20357.0	19375.4	17518.0	15183.9
12.5°	15904.3	15808.9	16116.1	16543.4	17729.9	19495.4	20812.5	20466.5	18640.9	15667.7
15°	14590.7	14551.8	14724.9	14922.6	15826.6	17606.3	20282.9	21352.8	19721.4	16239.7
17.5°	14170.5	14138.7	14191.7	14241.1	14827.3	16204.4	19022.3	21896.6	20756.0	16893.0
20°	14513.0	14470.6	14463.5	14424.7	14668.4	15607.6	17881.7	21935.4	21684.7	17486.2
22.5°	15512.3	15462.9	15289.8	15134.5	15155.7	15688.9	17373.2	21547.0	22383.9	18040.6
25°	17323.8	17242.6	16882.4	16359.8	16027.8	16253.8	17450.9	21035.0	23051.3	18474.9
27.5°	19590.8	19484.8	19022.3	18245.4	17486.2	17210.8	18012.3	20681.9	23605.7	18806.9
30°	21811.9	21674.1	21218.6	20614.8	19506.0	18637.4	19025.8	20837.3	24266.0	19152.9
32.5°	24209.5	24078.8	23475.0	22726.4	21808.3	20639.5	20413.5	21596.5	25074.6	19636.7
35°	27242.7	27037.9	26179.9	25159.4	24184.8	23001.8	22292.1	22906.5	26151.6	20374.7
37.5°	30696.2	30420.8	29495.6	28086.7	26815.5	25491.3	24580.3	24707.4	27730.0	21363.4
40°	33951.9	33701.2	32846.7	31519.0	29922.9	28316.2	27345.1	27062.7	29908.8	22567.5
42.5°	35904.6	35678.6	35318.5	34757.0	33411.6	31773.2	30547.9	29937.0	32486.5	24008.2
45°	36014.1	35816.4	36300.1	36953.4	36688.5	35597.4	34103.7	32984.4	35074.8	25360.6
47.5°	34262.7	34128.5	35597.4	37878.5	39015.6	39474.6	38097.5	35777.5	37211.2	26331.7
50°	29488.5	29439.1	32461.8	36649.7	39901.9	42871.6	42310.1	38376.4	38867.3	26833.1
52.5°	25569.0	25388.9	27150.9	32716.0	38613.0	44658.3	46427.4	40925.9	40025.5	26928.5
55°	19393.0	19234.1	21444.6	26134.0	34456.9	44022.7	49439.5	43556.6	40855.3	26684.8
57.5°	10402.7	10303.9	13097.0	17394.4	26935.5	40209.1	49983.3	46339.1	41554.5	26038.6
60°	4050.2	4032.6	5077.8	8439.4	16370.4	32712.5	47239.6	48009.4	41992.3	25244.1
62.5°	2450.6	2503.6	2673.1	3788.9	7231.8	20321.7	40915.3	46109.6	42285.4	24516.7
65°	2026.9	2030.4	2051.6	2602.5	3464.0	8503.0	30802.1	39859.5	41561.5	23220.8
67.5°	1737.3	1769.1	1850.3	2065.7	2443.5	3728.9	17733.4	30876.3	37158.2	20205.2
70°	1370.1	1412.5	1514.9	1698.5	1885.6	2334.1	6553.8	20544.2	28386.8	15229.8
72.5°	1154.7	1151.2	1204.1	1380.7	1497.2	1642.0	2521.2	11511.5	16497.5	7270.6
75°	893.4	928.7	995.8	1154.7	1225.3	1190.0	1366.6	4205.6	5911.1	2203.4
77.5°	699.2	727.4	787.4	942.8	1013.4	843.9	787.4	1504.3	1899.8	791.0
80°	314.3	339.0	536.7	695.6	826.3	582.6	427.3	769.8	843.9	360.2
82.5°	56.5	95.3	314.3	367.2	423.7	377.8	222.5	399.0	413.1	144.8
85°	3.5	7.1	109.5	134.2	169.5	123.6	67.1	158.9	137.7	49.4
87.5°	0.0	0.0	0.0	3.5	3.5	17.7	21.2	28.2	21.2	17.7
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°
13799.7	0°	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7	13799.7
13831.5	2.5°	13577.2	13075.8	12588.5	12189.5	11956.4	11561.0	11299.6	11257.3	11147.8	11243.1
13866.8	5°	13315.9	12419.0	11511.5	10699.4	10032.0	9170.4	8527.7	8255.8	8019.2	8100.4
13958.6	7.5°	13192.3	11776.4	10363.9	8976.2	7549.6	6172.4	5148.4	4721.1	4396.3	4442.2
14061.0	10°	13026.4	11109.0	8894.9	6776.3	4865.9	3506.4	2800.2	2538.9	2394.1	2397.6
14212.8	12.5°	12899.3	10310.9	7189.4	4594.0	2962.6	2238.7	2019.8	1956.3	1913.9	1917.4
14442.4	15°	12835.7	9371.6	5505.0	3061.5	2118.7	1896.2	1843.3	1815.0	1786.8	1783.2
14696.6	17.5°	12729.8	8326.4	4029.0	2235.2	1853.8	1776.2	1730.3	1698.5	1663.2	1656.1
14915.5	20°	12570.9	7140.0	2945.0	1889.2	1737.3	1677.3	1613.7	1571.4	1529.0	1521.9
15053.2	22.5°	12277.8	5886.4	2263.5	1747.9	1652.6	1585.5	1507.8	1458.4	1416.0	1408.9
14986.2	25°	11734.0	4710.5	1906.8	1659.6	1578.4	1497.2	1412.5	1345.4	1306.5	1299.5
14841.4	27.5°	11045.4	3700.6	1730.3	1578.4	1483.1	1408.9	1313.6	1250.0	1214.7	1207.6
14650.7	30°	10233.2	2849.6	1627.9	1486.6	1370.1	1306.5	1221.8	1168.8	1147.6	1147.6
14516.5	32.5°	9357.5	2277.6	1585.5	1394.8	1271.2	1200.6	1133.5	1112.3	1105.2	1101.7
14590.7	35°	8534.8	1977.4	1564.3	1320.6	1182.9	1115.8	1087.6	1091.1	1105.2	1105.2
14820.2	37.5°	7803.8	1882.1	1553.7	1267.7	1105.2	1045.2	1062.9	1094.7	1080.5	1080.5
15222.7	40°	7143.5	1892.7	1546.6	1228.8	1041.7	1006.4	1041.7	1017.0	981.7	978.1
15713.6	42.5°	6638.5	1981.0	1532.5	1197.1	1002.8	978.1	964.0	925.2	921.6	928.7
16222.1	45°	6271.3	2058.7	1529.0	1182.9	960.5	914.6	896.9	858.1	928.7	946.3
16430.4	47.5°	5837.0	2058.7	1529.0	1133.5	889.8	872.2	843.9	801.6	872.2	889.8
16232.7	50°	5275.5	1928.0	1469.0	1077.0	833.3	822.8	773.3	720.4	706.2	716.8
15770.1	52.5°	4565.8	1691.4	1317.1	999.3	776.9	755.7	695.6	656.8	646.2	646.2
14940.3	55°	3757.1	1416.0	1112.3	886.3	716.8	678.0	635.6	617.9	607.4	600.3
13778.5	57.5°	3054.4	1161.7	893.4	787.4	660.3	610.9	596.8	575.6	557.9	547.3
12807.4	60°	2507.1	914.6	738.0	699.2	603.8	557.9	554.4	526.1	480.2	473.2
12005.9	62.5°	1935.1	670.9	621.5	607.4	547.3	508.5	501.4	444.9	374.3	360.2
10868.8	65°	1366.6	522.6	501.4	533.2	487.3	452.0	434.3	349.6	275.4	264.8
9096.2	67.5°	960.5	437.9	395.5	466.1	423.7	377.8	367.2	296.6	229.5	222.5
6878.7	70°	685.0	356.6	324.9	399.0	339.0	331.9	310.7	247.2	187.2	180.1
3404.0	72.5°	483.8	271.9	250.7	346.1	233.1	286.0	254.2	190.7	141.2	134.2
1158.2	75°	356.6	194.2	176.6	201.3	169.5	215.4	180.1	127.1	88.3	84.7
522.6	77.5°	261.3	123.6	105.9	98.9	98.9	134.2	98.9	53.0	38.8	35.3
264.8	80°	183.6	56.5	49.4	42.4	38.8	31.8	14.1	7.1	3.5	3.5
91.8	82.5°	109.5	24.7	24.7	17.7	10.6	0.0	0.0	0.0	0.0	0.0
35.3	85°	24.7	10.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	3.5	3.5	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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