

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: P956949

Luminaire Tested: **GALN-SB9B-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956949  
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-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

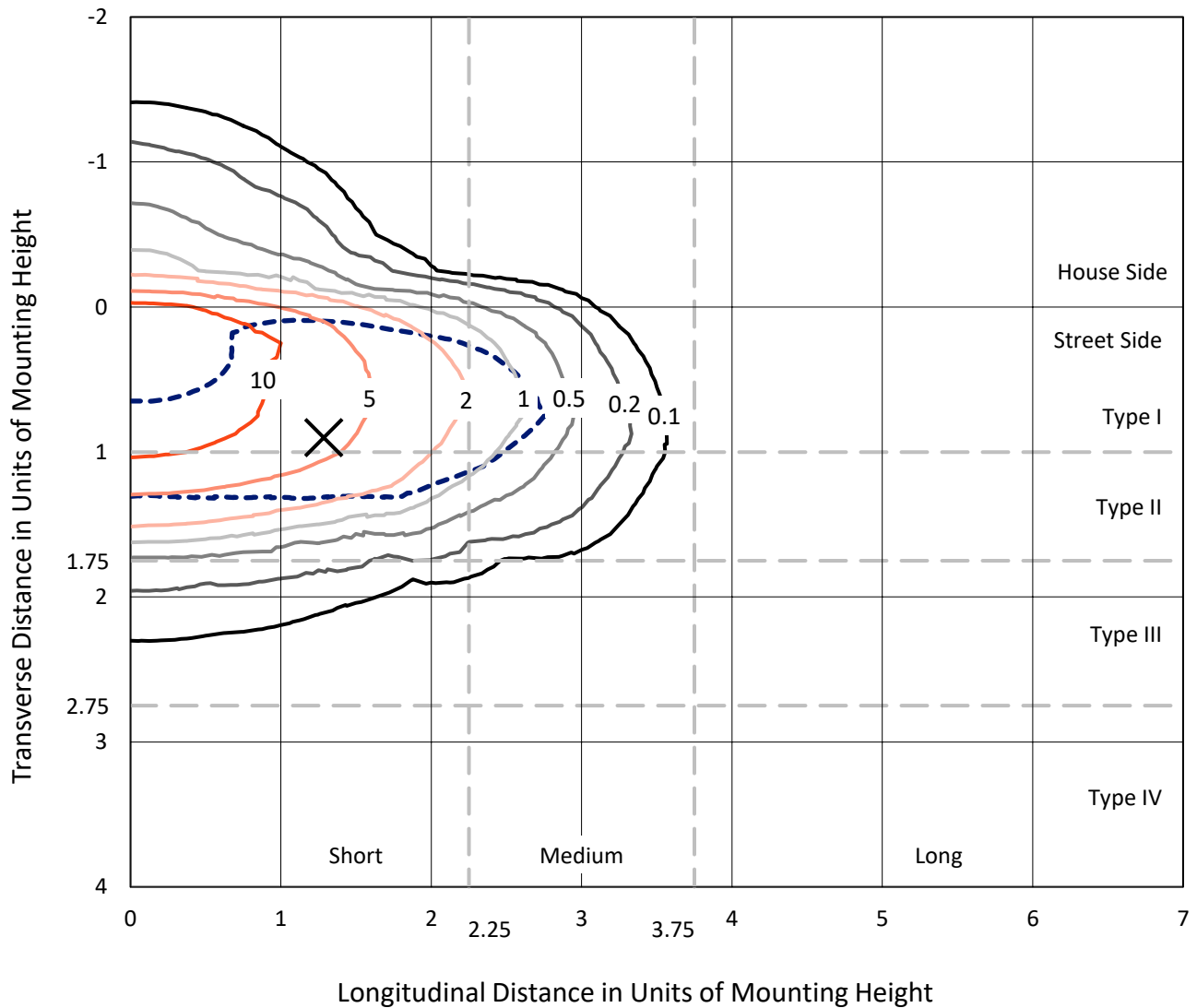
Lumens per Lamp: N/A  
Luminaire Lumens: 30421 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

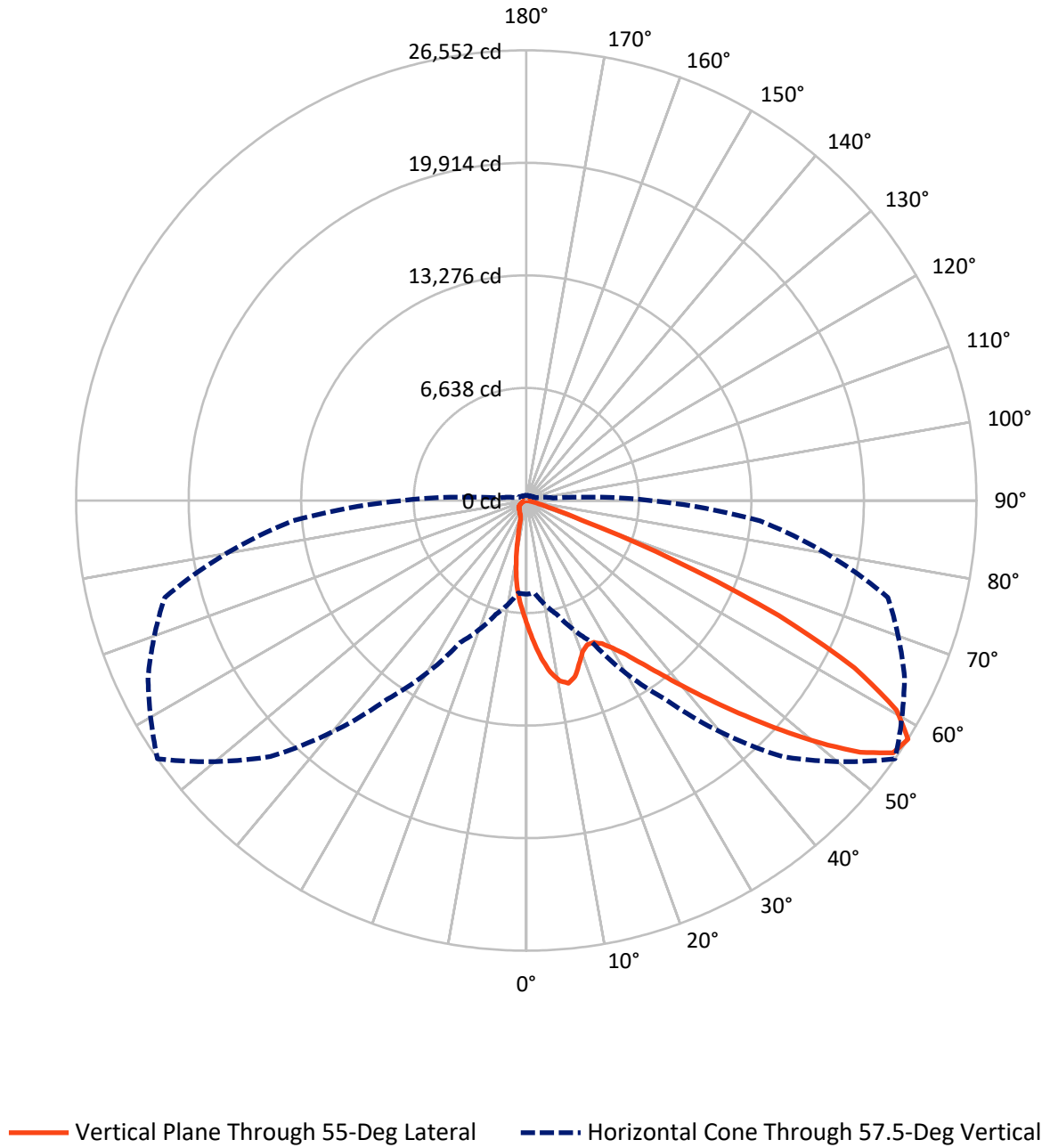
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2375.7	0.0	2375.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	28045.3	0.0	28045.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	30421.0	0.0	30421.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.1	2.2
10°-20°	1647.6	5.4
20°-30°	2636.1	8.7
30°-40°	4461.7	14.7
40°-50°	7325.2	24.1
50°-60°	8051.0	26.5
60°-70°	4618.0	15.2
70°-80°	943.6	3.1
80°-90°	55.7	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°	30421.0	100.0
0°-180°	30421.0	100.0

**Coefficient of Utilization**



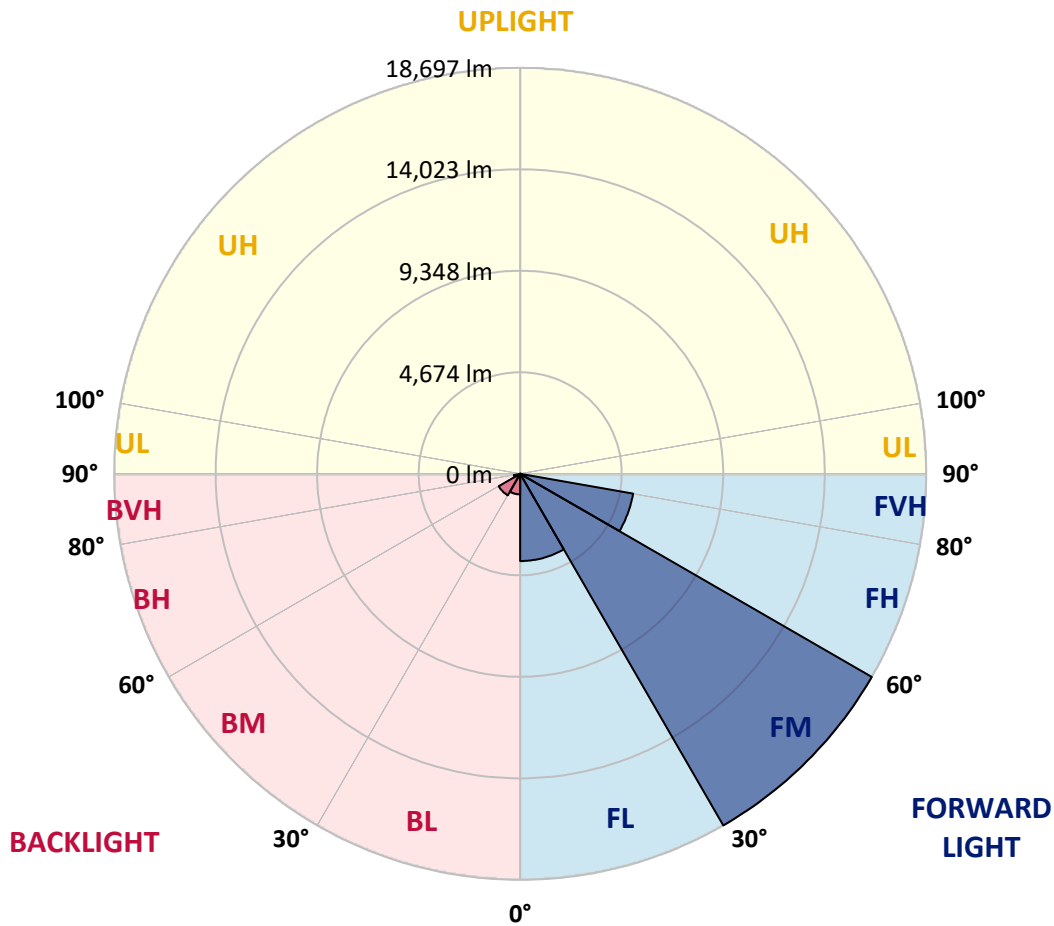
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4017.3	13.2			
FM (30°-60°)	18697.0	61.5			
FH (60°-80°)	5279.1	17.4			G3/7500
FVH (80°-90°)	51.9	0.2			G1/100
BL (0°-30°)	948.5	3.1	B2/1000		
BM (30°-60°)	1141.0	3.8	B2/2500		
BH (60°-80°)	282.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7
2.5°	9095.9	8981.4	8964.6	8942.0	8724.4	8561.3	8324.9	8066.0	7775.3	7478.9
5°	10508.4	10418.3	10401.4	10296.4	10048.8	9771.2	9351.0	8820.1	8278.0	7640.2
7.5°	10782.2	10765.3	10842.2	10838.5	10804.7	10585.3	10230.7	9598.6	8784.5	7839.1
10°	9561.1	9604.2	9833.1	10033.8	10575.9	10891.0	10814.1	10292.6	9306.0	8066.0
12.5°	8448.7	8398.1	8561.3	8788.2	9418.5	10356.4	11056.1	10872.3	9902.5	8323.0
15°	7750.9	7730.3	7822.2	7927.2	8407.4	9352.8	10774.7	11343.1	10476.5	8626.9
17.5°	7527.7	7510.8	7538.9	7565.2	7876.6	8608.1	10105.1	11632.0	11026.1	8973.9
20°	7709.6	7687.1	7683.4	7662.7	7792.2	8291.1	9499.2	11652.6	11519.4	9289.1
22.5°	8240.5	8214.2	8122.3	8039.8	8051.0	8334.3	9229.0	11446.3	11890.8	9583.6
25°	9202.8	9159.6	8968.3	8690.7	8514.4	8634.4	9270.3	11174.3	12245.4	9814.3
27.5°	10407.1	10350.8	10105.1	9692.4	9289.1	9142.8	9568.6	10986.7	12539.9	9990.6
30°	11587.0	11513.8	11271.8	10951.0	10362.0	9900.6	10106.9	11069.2	12890.6	10174.5
32.5°	12860.6	12791.2	12470.5	12072.8	11585.1	10964.2	10844.1	11472.5	13320.2	10431.4
35°	14472.0	14363.2	13907.3	13365.2	12847.5	12219.1	11842.1	12168.5	13892.3	10823.5
37.5°	16306.5	16160.2	15668.7	14920.3	14245.0	13541.6	13057.6	13125.1	14730.8	11348.7
40°	18036.0	17902.8	17448.9	16743.6	15895.7	15042.2	14526.4	14376.3	15888.2	11988.4
42.5°	19073.4	18953.3	18762.0	18463.7	17749.0	16878.6	16227.7	15903.2	17257.6	12753.7
45°	19131.5	19026.5	19283.4	19630.5	19489.8	18910.2	18116.7	17522.1	18632.5	13472.2
47.5°	18201.1	18129.8	18910.2	20121.9	20726.0	20969.8	20238.2	19005.8	19767.4	13988.0
50°	15665.0	15638.7	17244.4	19469.2	21196.8	22774.4	22476.1	20386.4	20647.2	14254.4
52.5°	13582.8	13487.2	14423.2	17379.5	20512.1	23723.5	24663.3	21740.8	21262.4	14305.0
55°	10302.0	10217.6	11391.9	13883.0	18304.3	23385.9	26263.4	23138.3	21703.3	14175.6
57.5°	5526.2	5473.6	6957.4	9240.3	14308.8	21360.0	26552.3	24616.4	22074.7	13832.3
60°	2151.6	2142.2	2697.4	4483.2	8696.3	17377.6	25094.7	25503.7	22307.3	13410.2
62.5°	1301.8	1330.0	1420.0	2012.8	3841.7	10795.4	21735.1	24494.5	22463.0	13023.8
65°	1076.7	1078.6	1089.9	1382.5	1840.2	4517.0	16362.8	21174.3	22078.4	12335.4
67.5°	922.9	939.8	982.9	1097.4	1298.1	1980.9	9420.4	16402.2	19739.3	10733.5
70°	727.8	750.3	804.7	902.3	1001.7	1239.9	3481.5	10913.5	15079.7	8090.4
72.5°	613.4	611.5	639.7	733.4	795.3	872.3	1339.3	6115.2	8763.8	3862.3
75°	474.6	493.3	529.0	613.4	650.9	632.2	725.9	2234.1	3140.1	1170.5
77.5°	371.4	386.4	418.3	500.8	538.4	448.3	418.3	799.1	1009.2	420.2
80°	166.9	180.1	285.1	369.5	438.9	309.5	227.0	408.9	448.3	191.3
82.5°	30.0	50.6	166.9	195.1	225.1	200.7	118.2	212.0	219.5	76.9
85°	1.9	3.8	58.2	71.3	90.0	65.7	35.6	84.4	73.2	26.3
87.5°	0.0	0.0	0.0	1.9	1.9	9.4	11.3	15.0	11.3	9.4
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°
7330.7	0°	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7	7330.7
7347.6	2.5°	7212.5	6946.2	6687.3	6475.3	6351.5	6141.4	6002.6	5980.1	5922.0	5972.6
7366.4	5°	7073.7	6597.3	6115.2	5683.7	5329.2	4871.5	4530.1	4385.7	4260.0	4303.1
7415.1	7.5°	7008.1	6255.9	5505.5	4768.3	4010.5	3278.9	2734.9	2508.0	2335.4	2359.8
7469.5	10°	6919.9	5901.3	4725.2	3599.7	2584.9	1862.7	1487.5	1348.7	1271.8	1273.7
7550.2	12.5°	6852.4	5477.4	3819.2	2440.4	1573.8	1189.3	1073.0	1039.2	1016.7	1018.6
7672.1	15°	6818.6	4978.4	2924.4	1626.3	1125.5	1007.3	979.2	964.2	949.2	947.3
7807.2	17.5°	6762.3	4423.2	2140.3	1187.4	984.8	943.5	919.2	902.3	883.5	879.8
7923.5	20°	6677.9	3792.9	1564.4	1003.6	922.9	891.0	857.3	834.7	812.2	808.5
7996.6	22.5°	6522.2	3127.0	1202.4	928.5	877.9	842.2	801.0	774.7	752.2	748.5
7961.0	25°	6233.4	2502.3	1012.9	881.6	838.5	795.3	750.3	714.7	694.1	690.3
7884.1	27.5°	5867.6	1965.9	919.2	838.5	787.8	748.5	697.8	664.0	645.3	641.5
7782.8	30°	5436.1	1513.8	864.8	789.7	727.8	694.1	649.0	620.9	609.6	609.6
7711.5	32.5°	4970.9	1209.9	842.2	740.9	675.3	637.8	602.1	590.9	587.1	585.3
7750.9	35°	4533.9	1050.5	831.0	701.6	628.4	592.8	577.8	579.6	587.1	587.1
7872.8	37.5°	4145.6	999.8	825.4	673.4	587.1	555.2	564.6	581.5	574.0	574.0
8086.7	40°	3794.8	1005.4	821.6	652.8	553.4	534.6	553.4	540.2	521.5	519.6
8347.4	42.5°	3526.5	1052.3	814.1	635.9	532.7	519.6	512.1	491.5	489.6	493.3
8617.5	45°	3331.5	1093.6	812.2	628.4	510.2	485.8	476.5	455.8	493.3	502.7
8728.2	47.5°	3100.7	1093.6	812.2	602.1	472.7	463.3	448.3	425.8	463.3	472.7
8623.2	50°	2802.5	1024.2	780.3	572.1	442.7	437.1	410.8	382.7	375.2	380.8
8377.4	52.5°	2425.4	898.5	699.7	530.9	412.7	401.4	369.5	348.9	343.3	343.3
7936.6	55°	1995.9	752.2	590.9	470.8	380.8	360.2	337.6	328.3	322.6	318.9
7319.5	57.5°	1622.6	617.1	474.6	418.3	350.8	324.5	317.0	305.8	296.4	290.8
6803.6	60°	1331.8	485.8	392.0	371.4	320.8	296.4	294.5	279.5	255.1	251.4
6377.8	62.5°	1028.0	356.4	330.1	322.6	290.8	270.1	266.4	236.4	198.8	191.3
5773.8	65°	725.9	277.6	266.4	283.2	258.9	240.1	230.7	185.7	146.3	140.7
4832.1	67.5°	510.2	232.6	210.1	247.6	225.1	200.7	195.1	157.6	121.9	118.2
3654.1	70°	363.9	189.5	172.6	212.0	180.1	176.3	165.1	131.3	99.4	95.7
1808.3	72.5°	257.0	144.4	133.2	183.8	123.8	151.9	135.1	101.3	75.0	71.3
615.3	75°	189.5	103.2	93.8	106.9	90.0	114.4	95.7	67.5	46.9	45.0
277.6	77.5°	138.8	65.7	56.3	52.5	52.5	71.3	52.5	28.1	20.6	18.8
140.7	80°	97.5	30.0	26.3	22.5	20.6	16.9	7.5	3.8	1.9	1.9
48.8	82.5°	58.2	13.1	13.1	9.4	5.6	0.0	0.0	0.0	0.0	0.0
18.8	85°	13.1	5.6	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	1.9	1.9	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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