

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: P953358

Luminaire Tested: **GALN-SB6D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953358
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-SB6D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 38126 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

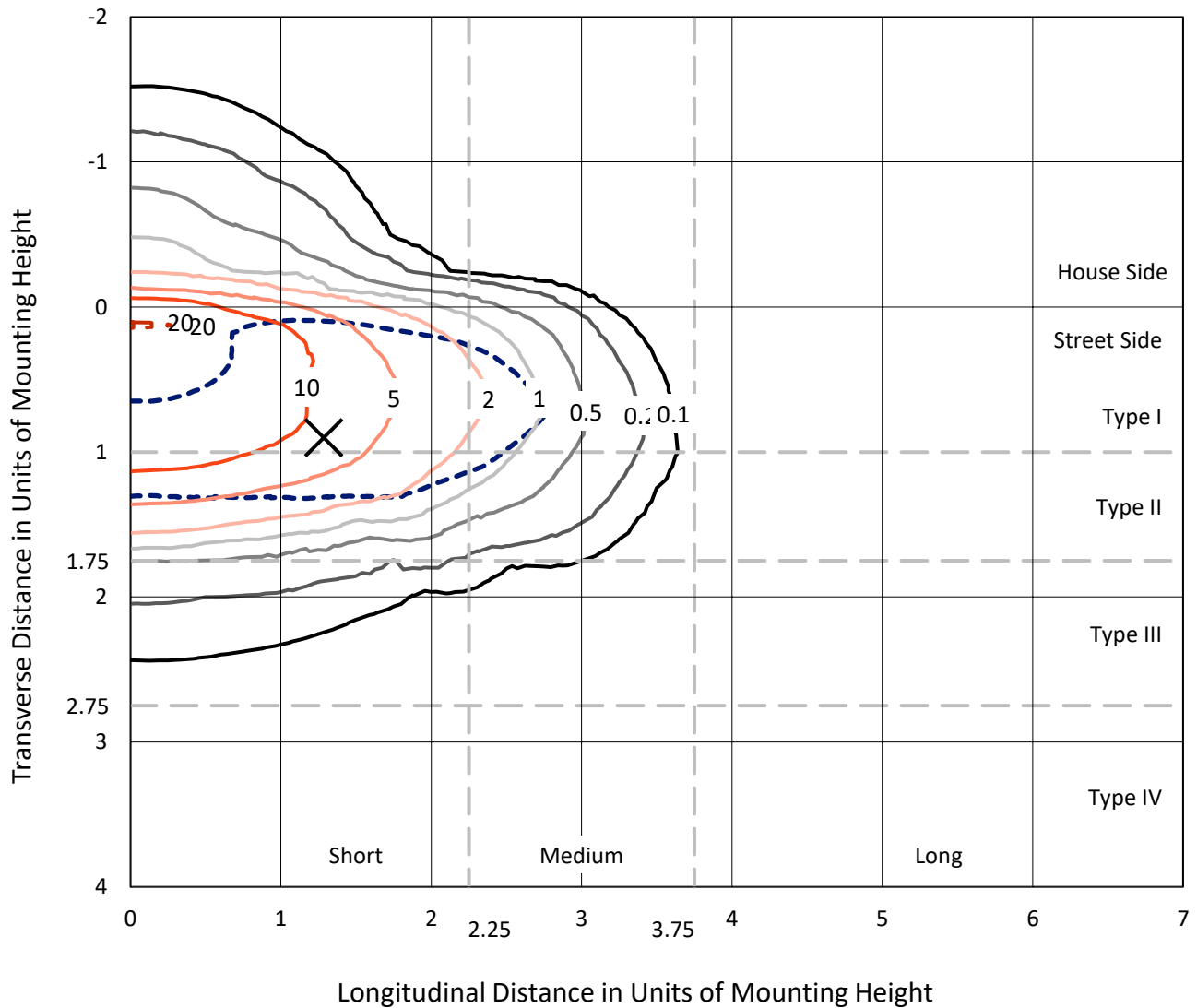
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

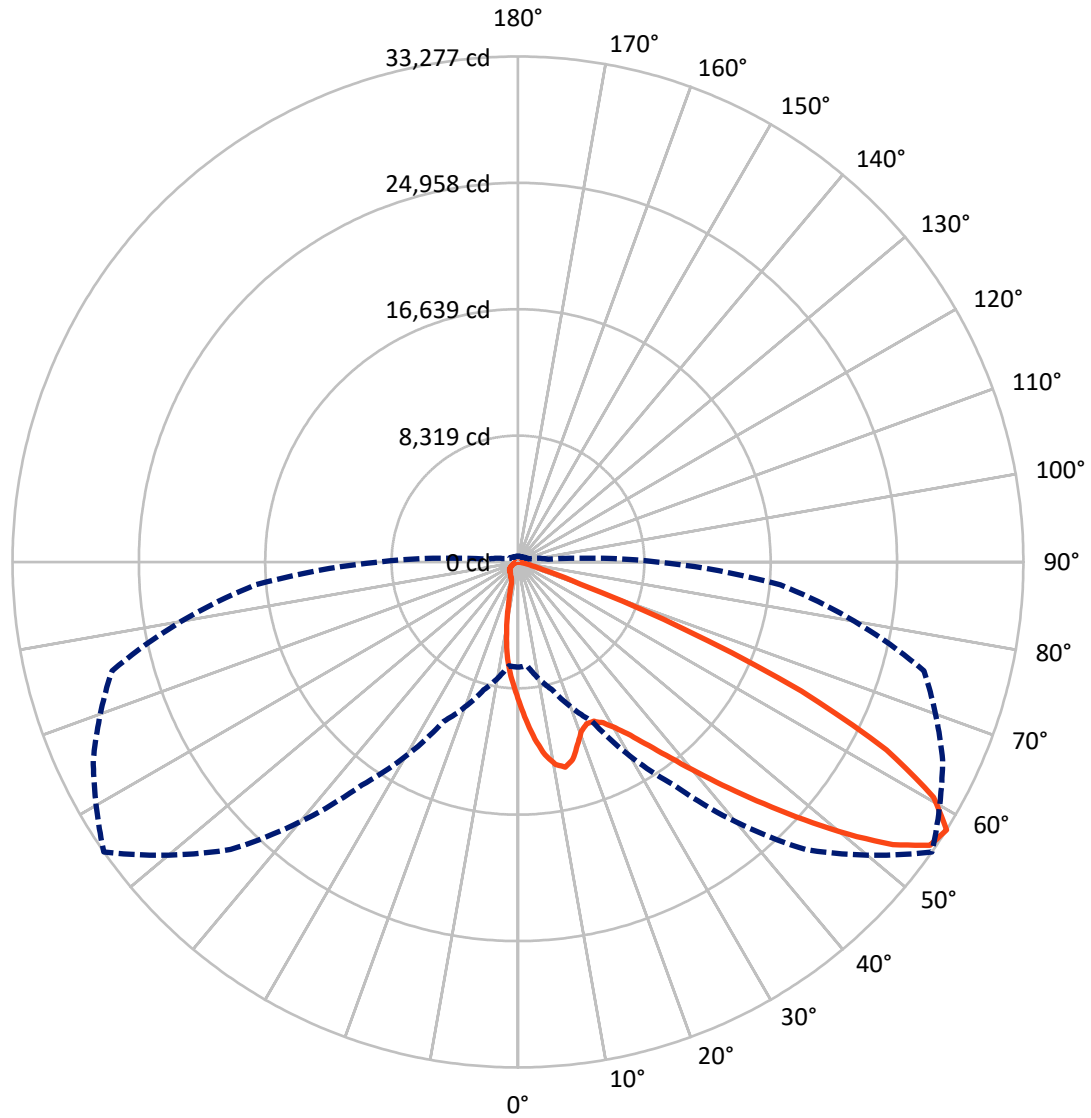
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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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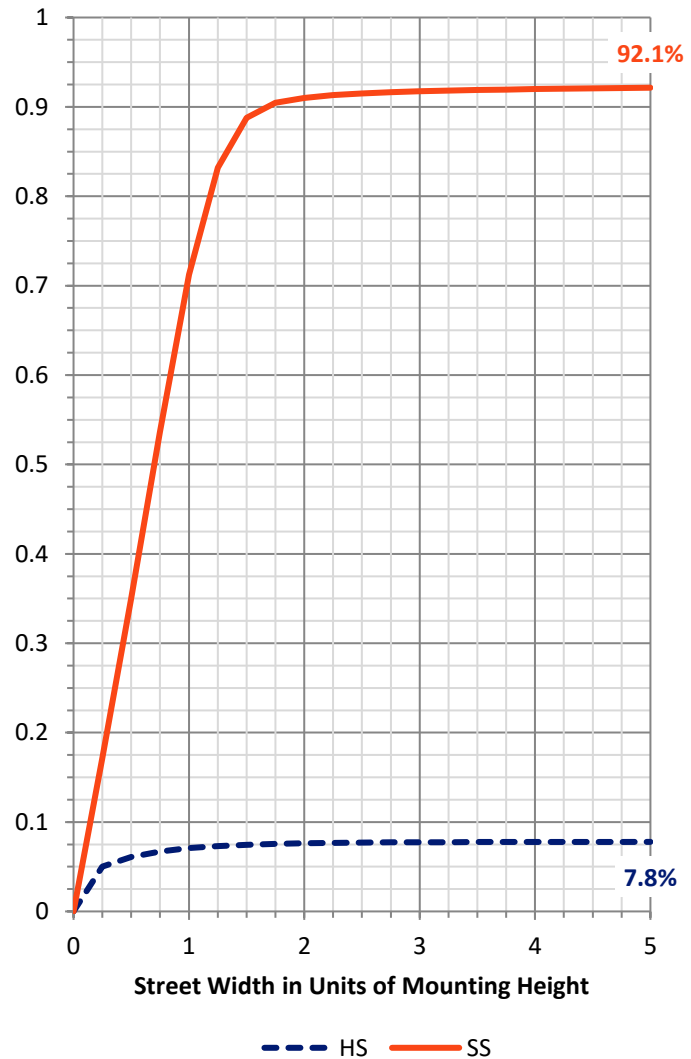
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.5	0.0	2977.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	35148.5	0.0	35148.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	38126.0	0.0	38126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.8	2.2
10°-20°	2064.9	5.4
20°-30°	3303.8	8.7
30°-40°	5591.8	14.7
40°-50°	9180.6	24.1
50°-60°	10090.1	26.5
60°-70°	5787.7	15.2
70°-80°	1182.6	3.1
80°-90°	69.8	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°	38126.0	100.0
0°-180°	38126.0	100.0

Coefficient of Utilization



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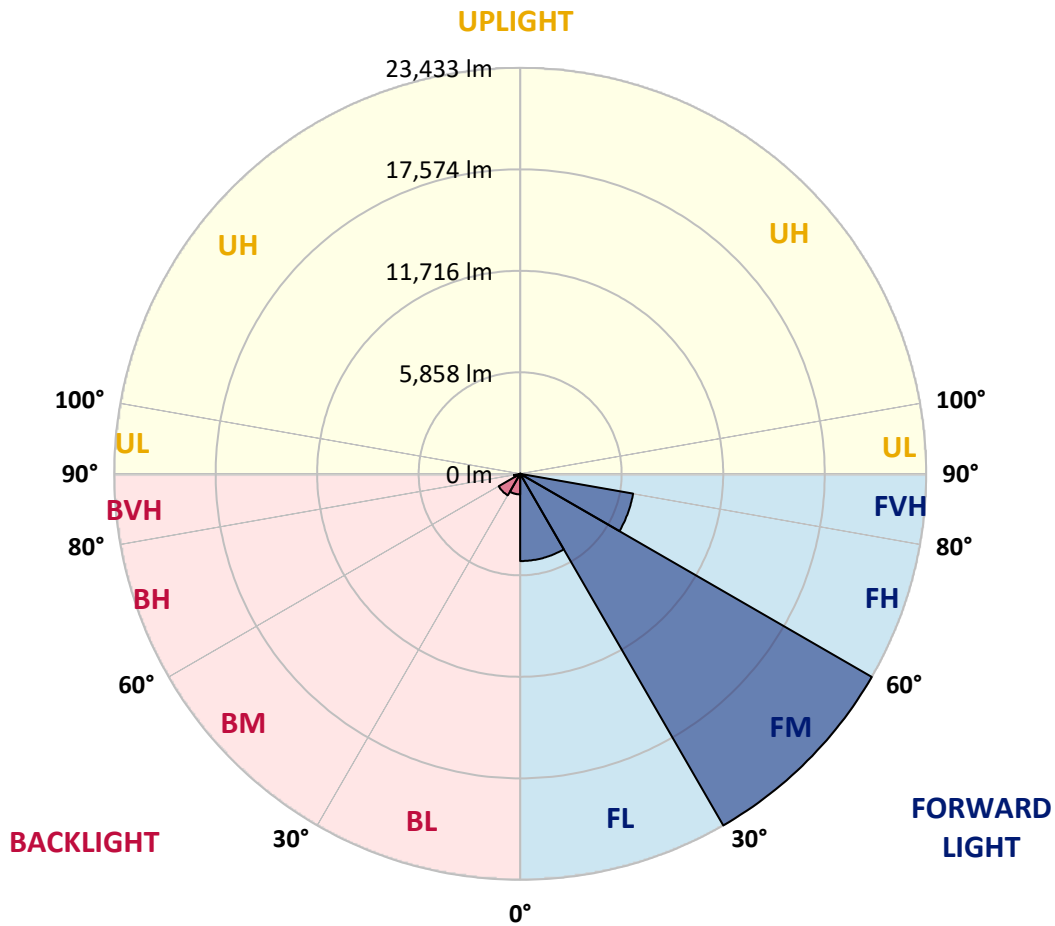
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5034.8	13.2			
FM (30°-60°)	23432.5	61.5			
FH (60°-80°)	6616.2	17.4			G3/7500
FVH (80°-90°)	65.1	0.2			G1/100
BL (0°-30°)	1188.7	3.1	B3/2500		
BM (30°-60°)	1430.0	3.8	B2/2500		
BH (60°-80°)	354.1	0.9	B1/500		G1/500
BVH (80°-90°)	4.7	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°	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4
2.5°	11399.6	11256.2	11235.1	11206.9	10934.2	10729.6	10433.4	10109.0	9744.6	9373.1
5°	13169.9	13057.1	13035.9	12904.2	12593.9	12246.0	11719.4	11054.1	10374.6	9575.3
7.5°	13513.1	13492.0	13588.4	13583.7	13541.3	13266.3	12822.0	12029.7	11009.4	9824.5
10°	11982.7	12036.8	12323.6	12575.1	13254.5	13649.5	13553.1	12899.5	11663.0	10109.0
12.5°	10588.6	10525.1	10729.6	11014.1	11804.0	12979.5	13856.4	13626.0	12410.5	10431.1
15°	9714.0	9688.2	9803.4	9935.0	10536.9	11721.7	13503.7	14216.1	13129.9	10811.9
17.5°	9434.3	9413.1	9448.4	9481.3	9871.5	10788.4	12664.4	14578.1	13818.8	11246.8
20°	9662.3	9634.1	9629.4	9603.5	9765.8	10391.1	11905.1	14604.0	14437.0	11641.8
22.5°	10327.6	10294.7	10179.5	10076.1	10090.2	10445.2	11566.6	14345.4	14902.5	12010.9
25°	11533.7	11479.6	11239.8	10891.8	10670.9	10821.3	11618.3	14004.5	15346.9	12300.1
27.5°	13042.9	12972.4	12664.4	12147.2	11641.8	11458.4	11992.1	13769.4	15716.0	12521.0
30°	14521.7	14430.0	14126.7	13724.7	12986.5	12408.2	12666.8	13872.8	16155.6	12751.4
32.5°	16118.0	16031.0	15629.0	15130.6	14519.3	13741.2	13590.7	14378.3	16693.9	13073.5
35°	18137.4	18001.1	17429.8	16750.4	16101.5	15313.9	14841.4	15250.5	17411.0	13564.9
37.5°	20436.6	20253.2	19637.3	18699.3	17852.9	16971.3	16364.8	16449.4	18461.8	14223.1
40°	22604.2	22437.3	21868.3	20984.4	19921.8	18852.1	18205.6	18017.5	19912.4	15024.8
42.5°	23904.2	23753.8	23514.0	23140.2	22244.5	21153.6	20337.9	19931.2	21628.5	15984.0
45°	23977.1	23845.5	24167.5	24602.5	24426.1	23699.7	22705.3	21960.0	23351.8	16884.4
47.5°	22811.1	22721.7	23699.7	25218.4	25975.4	26281.0	25364.2	23819.6	24774.1	17530.9
50°	19632.6	19599.7	21612.1	24400.3	26565.5	28542.6	28168.8	25549.9	25876.7	17864.7
52.5°	17023.1	16903.2	18076.3	21781.3	25707.4	29732.2	30910.0	27247.3	26647.8	17928.2
55°	12911.3	12805.5	14277.2	17399.2	22940.4	29309.0	32915.3	28998.7	27200.2	17766.0
57.5°	6925.8	6860.0	8719.6	11580.7	17932.9	26770.0	33277.4	30851.2	27665.7	17335.7
60°	2696.5	2684.8	3380.6	5618.7	10898.9	21779.0	31450.7	31963.2	27957.2	16806.8
62.5°	1631.5	1666.8	1779.7	2522.5	4814.7	13529.6	27240.2	30698.4	28152.4	16322.5
65°	1349.4	1351.8	1365.9	1732.6	2306.3	5661.0	20507.1	26537.3	27670.4	15459.7
67.5°	1156.7	1177.8	1231.9	1375.3	1626.8	2482.6	11806.4	20556.5	24738.8	13452.0
70°	912.2	940.4	1008.5	1130.8	1255.4	1554.0	4363.3	13677.7	18899.1	10139.6
72.5°	768.8	766.4	801.7	919.2	996.8	1093.2	1678.6	7664.0	10983.5	4840.6
75°	594.8	618.3	663.0	768.8	815.8	792.3	909.8	2800.0	3935.5	1467.0
77.5°	465.5	484.3	524.3	627.7	674.7	561.9	524.3	1001.5	1264.8	526.6
80°	209.2	225.7	357.3	463.1	550.1	387.9	284.5	512.5	561.9	239.8
82.5°	37.6	63.5	209.2	244.5	282.1	251.5	148.1	265.7	275.1	96.4
85°	2.4	4.7	72.9	89.3	112.8	82.3	44.7	105.8	91.7	32.9
87.5°	0.0	0.0	0.0	2.4	2.4	11.8	14.1	18.8	14.1	11.8
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°
9187.4	0°	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4	9187.4
9208.6	2.5°	9039.3	8705.5	8381.1	8115.4	7960.2	7696.9	7523.0	7494.8	7421.9	7485.4
9232.1	5°	8865.3	8268.2	7664.0	7123.3	6679.0	6105.4	5677.5	5496.5	5339.0	5393.0
9293.2	7.5°	8783.1	7840.3	6900.0	5976.1	5026.3	4109.4	3427.7	3143.2	2926.9	2957.5
9361.4	10°	8672.6	7396.0	5922.0	4511.4	3239.6	2334.5	1864.3	1690.3	1593.9	1596.3
9462.5	12.5°	8587.9	6864.7	4786.5	3058.6	1972.4	1490.5	1344.7	1302.4	1274.2	1276.6
9615.3	15°	8545.6	6239.4	3665.1	2038.3	1410.6	1262.4	1227.2	1208.4	1189.6	1187.2
9784.6	17.5°	8475.1	5543.5	2682.4	1488.1	1234.2	1182.5	1152.0	1130.8	1107.3	1102.6
9930.3	20°	8369.3	4753.6	1960.7	1257.7	1156.7	1116.7	1074.4	1046.2	1018.0	1013.2
10022.0	22.5°	8174.2	3919.0	1506.9	1163.7	1100.2	1055.6	1003.8	970.9	942.7	938.0
9977.3	25°	7812.1	3136.1	1269.5	1104.9	1050.9	996.8	940.4	895.7	869.8	865.1
9881.0	27.5°	7353.7	2463.8	1152.0	1050.9	987.4	938.0	874.5	832.2	808.7	804.0
9754.0	30°	6813.0	1897.2	1083.8	989.7	912.2	869.8	813.4	778.2	764.1	764.1
9664.7	32.5°	6230.0	1516.3	1055.6	928.6	846.3	799.3	754.6	740.5	735.8	733.5
9714.0	35°	5682.2	1316.5	1041.5	879.2	787.6	742.9	724.1	726.4	735.8	735.8
9866.8	37.5°	5195.6	1253.0	1034.4	844.0	735.8	695.9	707.6	728.8	719.4	719.4
10134.9	40°	4755.9	1260.1	1029.7	818.1	693.5	670.0	693.5	677.1	653.6	651.2
10461.6	42.5°	4419.7	1318.9	1020.3	797.0	667.7	651.2	641.8	615.9	613.6	618.3
10800.2	45°	4175.2	1370.6	1018.0	787.6	639.5	608.9	597.1	571.3	618.3	630.0
10938.9	47.5°	3886.1	1370.6	1018.0	754.6	592.4	580.7	561.9	533.7	580.7	592.4
10807.2	50°	3512.3	1283.6	978.0	717.0	554.8	547.8	514.9	479.6	470.2	477.2
10499.2	52.5°	3039.7	1126.1	876.9	665.3	517.2	503.1	463.1	437.3	430.2	430.2
9946.8	55°	2501.4	942.7	740.5	590.1	477.2	451.4	423.2	411.4	404.4	399.7
9173.3	57.5°	2033.6	773.5	594.8	524.3	439.6	406.7	397.3	383.2	371.4	364.4
8526.8	60°	1669.2	608.9	491.3	465.5	402.0	371.4	369.1	350.3	319.7	315.0
7993.2	62.5°	1288.3	446.7	413.8	404.4	364.4	338.5	333.8	296.2	249.2	239.8
7236.2	65°	909.8	347.9	333.8	355.0	324.4	300.9	289.2	232.7	183.4	176.3
6056.0	67.5°	639.5	291.5	263.3	310.3	282.1	251.5	244.5	197.5	152.8	148.1
4579.6	70°	456.1	237.4	216.3	265.7	225.7	221.0	206.9	164.6	124.6	119.9
2266.3	72.5°	322.1	181.0	166.9	230.4	155.2	190.4	169.3	127.0	94.0	89.3
771.1	75°	237.4	129.3	117.5	134.0	112.8	143.4	119.9	84.6	58.8	56.4
347.9	77.5°	174.0	82.3	70.5	65.8	65.8	89.3	65.8	35.3	25.9	23.5
176.3	80°	122.2	37.6	32.9	28.2	25.9	21.2	9.4	4.7	2.4	2.4
61.1	82.5°	72.9	16.5	16.5	11.8	7.1	0.0	0.0	0.0	0.0	0.0
23.5	85°	16.5	7.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	2.4	2.4	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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