

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: P951132

Luminaire Tested: **GALN-SB5B-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951132
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-SB5B-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 23198 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

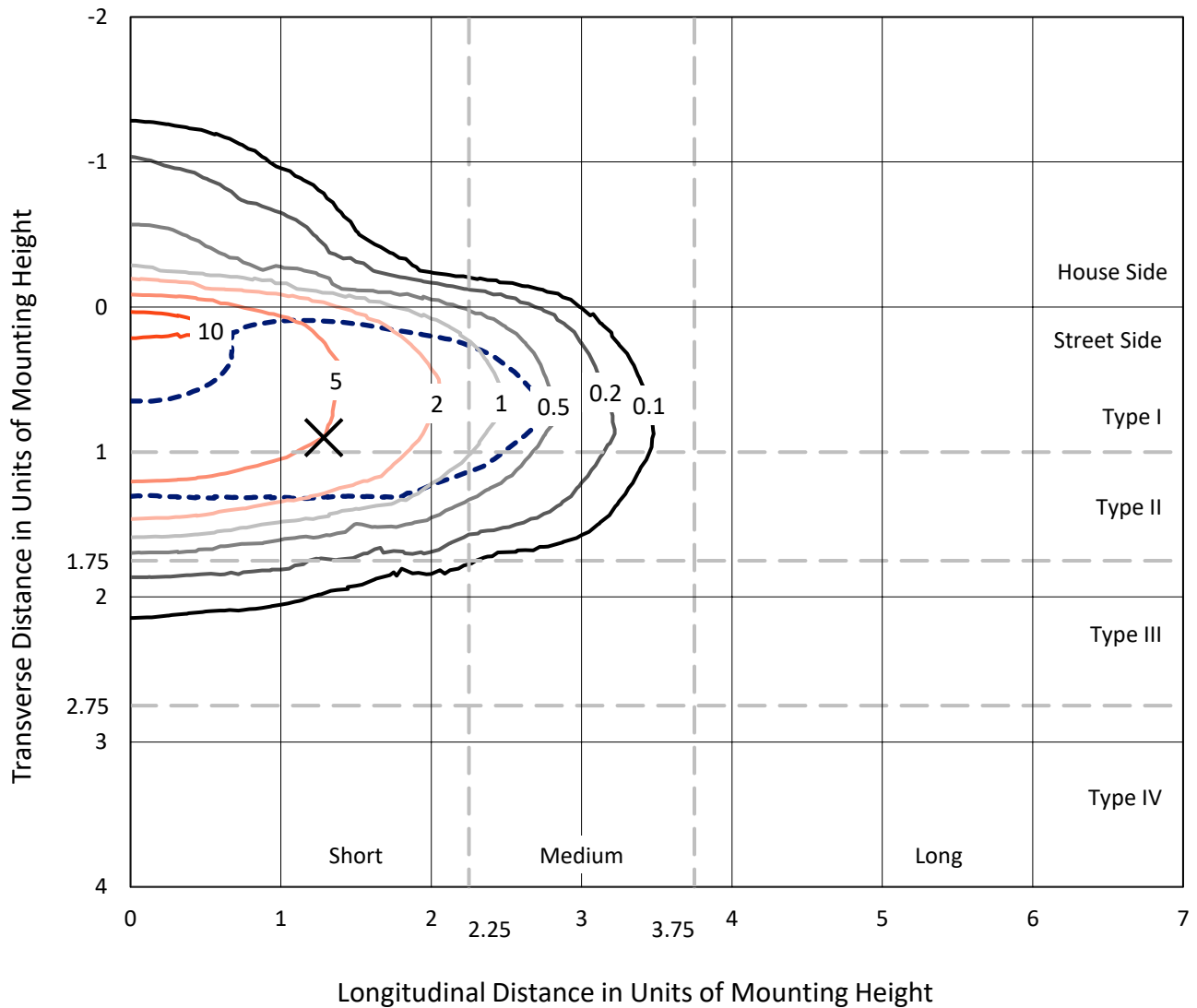
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

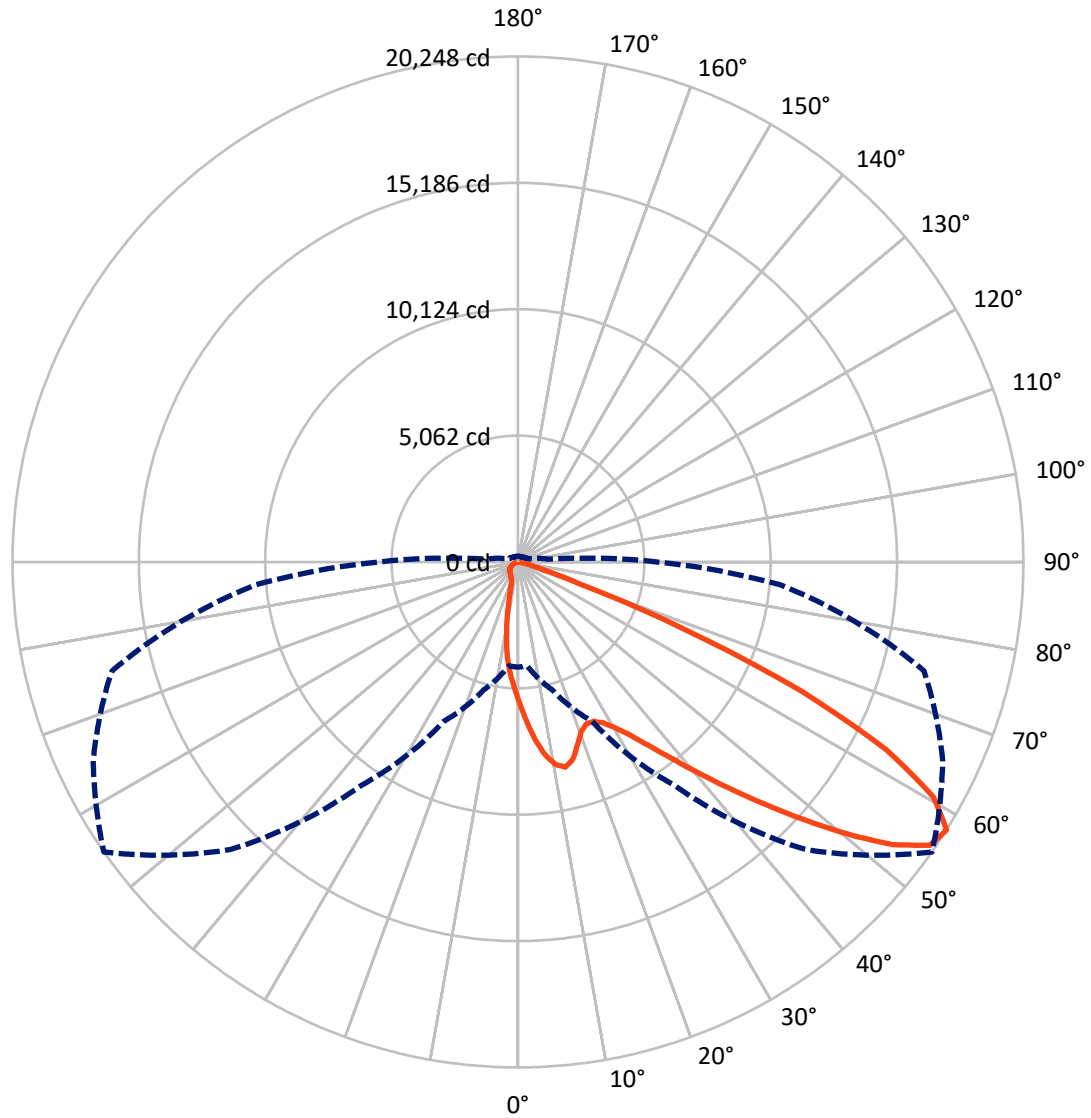
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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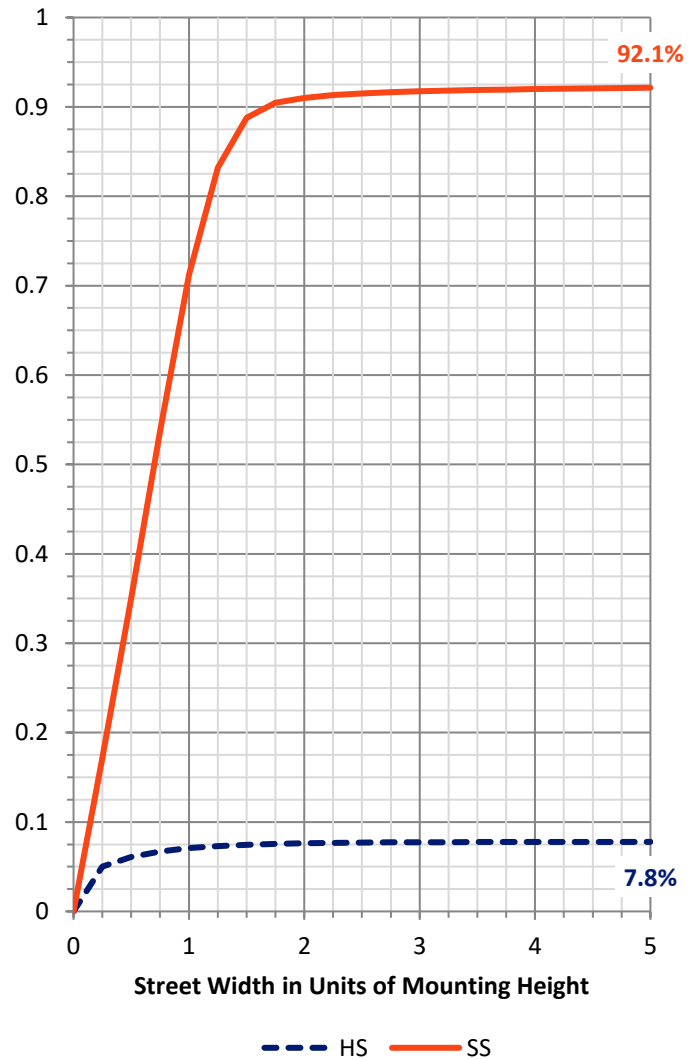
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.7	0.0	1811.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21386.3	0.0	21386.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	23198.0	0.0	23198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.1	2.2
10°-20°	1256.4	5.4
20°-30°	2010.2	8.7
30°-40°	3402.4	14.7
40°-50°	5586.0	24.1
50°-60°	6139.4	26.5
60°-70°	3521.6	15.2
70°-80°	719.6	3.1
80°-90°	42.4	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°	23198.0	100.0
0°-180°	23198.0	100.0

Coefficient of Utilization



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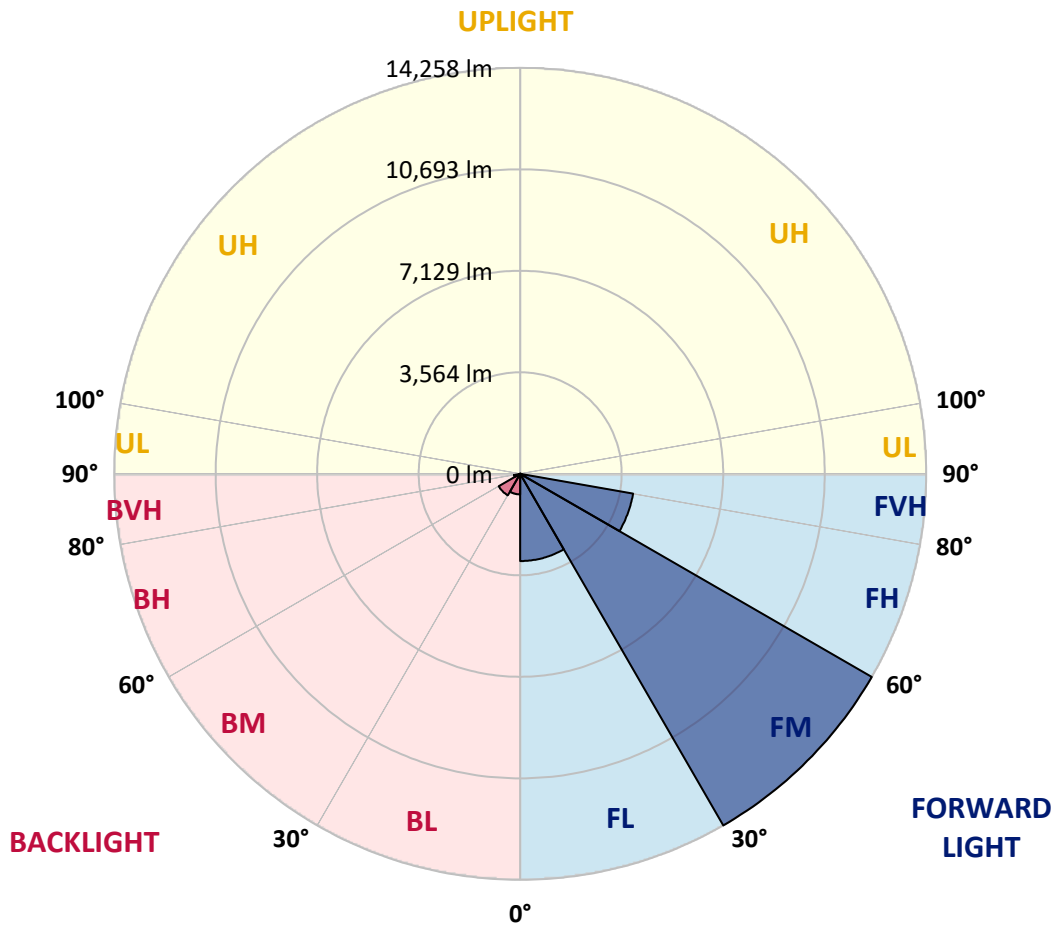
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3063.4	13.2			
FM (30°-60°)	14257.7	61.5			
FH (60°-80°)	4025.7	17.4			G2/5000
FVH (80°-90°)	39.6	0.2			G1/100
BL (0°-30°)	723.3	3.1	B2/1000		
BM (30°-60°)	870.1	3.8	B1/1000		
BH (60°-80°)	215.5	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1
2.5°	6936.2	6848.9	6836.1	6818.9	6653.0	6528.5	6348.3	6150.9	5929.2	5703.2
5°	8013.3	7944.6	7931.8	7851.7	7662.8	7451.1	7130.7	6725.9	6312.5	5826.2
7.5°	8222.1	8209.3	8267.9	8265.1	8239.3	8072.0	7801.6	7319.5	6698.7	5977.8
10°	7290.9	7323.8	7498.3	7651.4	8064.8	8305.1	8246.5	7848.8	7096.4	6150.9
12.5°	6442.7	6404.1	6528.5	6701.6	7182.2	7897.4	8431.0	8290.8	7551.3	6346.8
15°	5910.6	5894.8	5964.9	6045.0	6411.2	7132.2	8216.4	8649.9	7989.0	6578.6
17.5°	5740.3	5727.5	5748.9	5769.0	6006.4	6564.3	7705.8	8870.1	8408.1	6843.2
20°	5879.1	5861.9	5859.1	5843.3	5942.0	6322.5	7243.7	8885.9	8784.3	7083.5
22.5°	6283.9	6263.9	6193.8	6130.9	6139.4	6355.4	7037.7	8728.5	9067.5	7308.1
25°	7017.7	6984.8	6838.9	6627.2	6492.8	6584.3	7069.2	8521.1	9337.9	7484.0
27.5°	7936.1	7893.1	7705.8	7391.1	7083.5	6971.9	7296.7	8378.1	9562.5	7618.5
30°	8835.8	8780.0	8595.5	8350.9	7901.7	7549.8	7707.2	8441.0	9830.0	7758.7
32.5°	9807.1	9754.1	9509.5	9206.3	8834.4	8360.9	8269.4	8748.6	10157.5	7954.7
35°	11035.8	10952.9	10605.3	10191.9	9797.1	9317.9	9030.3	9279.2	10593.8	8253.6
37.5°	12434.8	12323.2	11948.4	11377.7	10862.7	10326.3	9957.3	10008.8	11233.2	8654.1
40°	13753.6	13652.1	13305.9	12768.1	12121.5	11470.7	11077.3	10962.9	12115.8	9141.9
42.5°	14544.7	14453.1	14307.2	14079.8	13534.8	12871.1	12374.7	12127.2	13160.0	9725.5
45°	14589.0	14508.9	14704.9	14969.5	14862.2	14420.2	13815.2	13361.7	14208.5	10273.4
47.5°	13879.5	13825.2	14420.2	15344.3	15804.9	15990.9	15433.0	14493.2	15073.9	10666.8
50°	11945.6	11925.6	13150.0	14846.5	16163.9	17366.9	17139.5	15546.0	15744.8	10869.9
52.5°	10357.8	10284.8	10998.6	13253.0	15641.8	18090.7	18807.4	16578.8	16214.0	10908.5
55°	7856.0	7791.6	8687.0	10586.7	13958.2	17833.3	20027.5	17644.4	16550.2	10809.8
57.5°	4214.1	4174.0	5305.5	7046.3	10911.4	16288.4	20247.8	18771.6	16833.4	10548.0
60°	1640.7	1633.6	2057.0	3418.7	6631.5	13251.6	19136.4	19448.2	17010.8	10226.2
62.5°	992.7	1014.2	1082.8	1534.9	2929.5	8232.2	16574.5	18678.6	17129.5	9931.5
65°	821.1	822.5	831.1	1054.2	1403.3	3444.5	12477.7	16146.8	16836.2	9406.6
67.5°	703.8	716.6	749.5	836.8	989.9	1510.5	7183.7	12507.7	15052.5	8185.0
70°	555.0	572.2	613.7	688.0	763.9	945.5	2654.9	8322.3	11499.3	6169.5
72.5°	467.8	466.3	487.8	559.3	606.5	665.2	1021.3	4663.2	6683.0	2945.3
75°	361.9	376.2	403.4	467.8	496.4	482.1	553.6	1703.7	2394.6	892.6
77.5°	283.2	294.7	319.0	381.9	410.5	341.9	319.0	609.4	769.6	320.4
80°	127.3	137.3	217.4	281.8	334.7	236.0	173.1	311.8	341.9	145.9
82.5°	22.9	38.6	127.3	148.8	171.7	153.1	90.1	161.6	167.4	58.6
85°	1.4	2.9	44.3	54.4	68.7	50.1	27.2	64.4	55.8	20.0
87.5°	0.0	0.0	0.0	1.4	1.4	7.2	8.6	11.4	8.6	7.2
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°
5590.1	0°	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1	5590.1
5603.0	2.5°	5500.0	5296.9	5099.5	4937.9	4843.5	4683.2	4577.4	4560.2	4515.9	4554.5
5617.3	5°	5394.2	5030.8	4663.2	4334.2	4063.9	3714.8	3454.5	3344.4	3248.5	3281.4
5654.5	7.5°	5344.1	4770.5	4198.3	3636.2	3058.3	2500.4	2085.6	1912.5	1780.9	1799.5
5696.0	10°	5276.9	4500.2	3603.3	2745.0	1971.1	1420.4	1134.3	1028.5	969.8	971.3
5757.5	12.5°	5225.4	4176.9	2912.4	1861.0	1200.1	906.9	818.2	792.5	775.3	776.7
5850.5	15°	5199.6	3796.4	2230.1	1240.2	858.3	768.1	746.7	735.2	723.8	722.4
5953.5	17.5°	5156.7	3373.0	1632.1	905.5	751.0	719.5	700.9	688.0	673.7	670.9
6042.2	20°	5092.4	2892.3	1193.0	765.3	703.8	679.5	653.7	636.5	619.4	616.5
6098.0	22.5°	4973.6	2384.5	916.9	708.1	669.4	642.3	610.8	590.8	573.6	570.7
6070.8	25°	4753.3	1908.2	772.4	672.3	639.4	606.5	572.2	545.0	529.3	526.4
6012.1	27.5°	4474.4	1499.1	700.9	639.4	600.8	570.7	532.1	506.4	492.1	489.2
5934.9	30°	4145.4	1154.4	659.4	602.2	555.0	529.3	494.9	473.5	464.9	464.9
5880.5	32.5°	3790.7	922.6	642.3	565.0	515.0	486.3	459.2	450.6	447.7	446.3
5910.6	35°	3457.4	801.0	633.7	535.0	479.2	452.0	440.6	442.0	447.7	447.7
6003.5	37.5°	3161.3	762.4	629.4	513.5	447.7	423.4	430.6	443.4	437.7	437.7
6166.6	40°	2893.8	766.7	626.5	497.8	422.0	407.7	422.0	412.0	397.7	396.2
6365.4	42.5°	2689.2	802.5	620.8	484.9	406.2	396.2	390.5	374.8	373.3	376.2
6571.4	45°	2540.5	833.9	619.4	479.2	389.1	370.5	363.3	347.6	376.2	383.4
6655.8	47.5°	2364.5	833.9	619.4	459.2	360.5	353.3	341.9	324.7	353.3	360.5
6575.7	50°	2137.1	781.0	595.1	436.3	337.6	333.3	313.3	291.8	286.1	290.4
6388.3	52.5°	1849.6	685.2	533.6	404.8	314.7	306.1	281.8	266.1	261.8	261.8
6052.2	55°	1522.0	573.6	450.6	359.0	290.4	274.6	257.5	250.3	246.0	243.2
5581.6	57.5°	1237.3	470.6	361.9	319.0	267.5	247.5	241.7	233.2	226.0	221.7
5188.2	60°	1015.6	370.5	299.0	283.2	244.6	226.0	224.6	213.1	194.5	191.7
4863.5	62.5°	783.9	271.8	251.8	246.0	221.7	206.0	203.1	180.2	151.6	145.9
4402.9	65°	553.6	211.7	203.1	216.0	197.4	183.1	175.9	141.6	111.6	107.3
3684.8	67.5°	389.1	177.4	160.2	188.8	171.7	153.1	148.8	120.2	93.0	90.1
2786.5	70°	277.5	144.5	131.6	161.6	137.3	134.5	125.9	100.1	75.8	73.0
1378.9	72.5°	196.0	110.1	101.6	140.2	94.4	115.9	103.0	77.2	57.2	54.4
469.2	75°	144.5	78.7	71.5	81.5	68.7	87.3	73.0	51.5	35.8	34.3
211.7	77.5°	105.9	50.1	42.9	40.1	40.1	54.4	40.1	21.5	15.7	14.3
107.3	80°	74.4	22.9	20.0	17.2	15.7	12.9	5.7	2.9	1.4	1.4
37.2	82.5°	44.3	10.0	10.0	7.2	4.3	0.0	0.0	0.0	0.0	0.0
14.3	85°	10.0	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	1.4	1.4	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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