

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: P952644

Luminaire Tested: **GALN-SB6B-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952644
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-SB6B-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 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: 21097 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

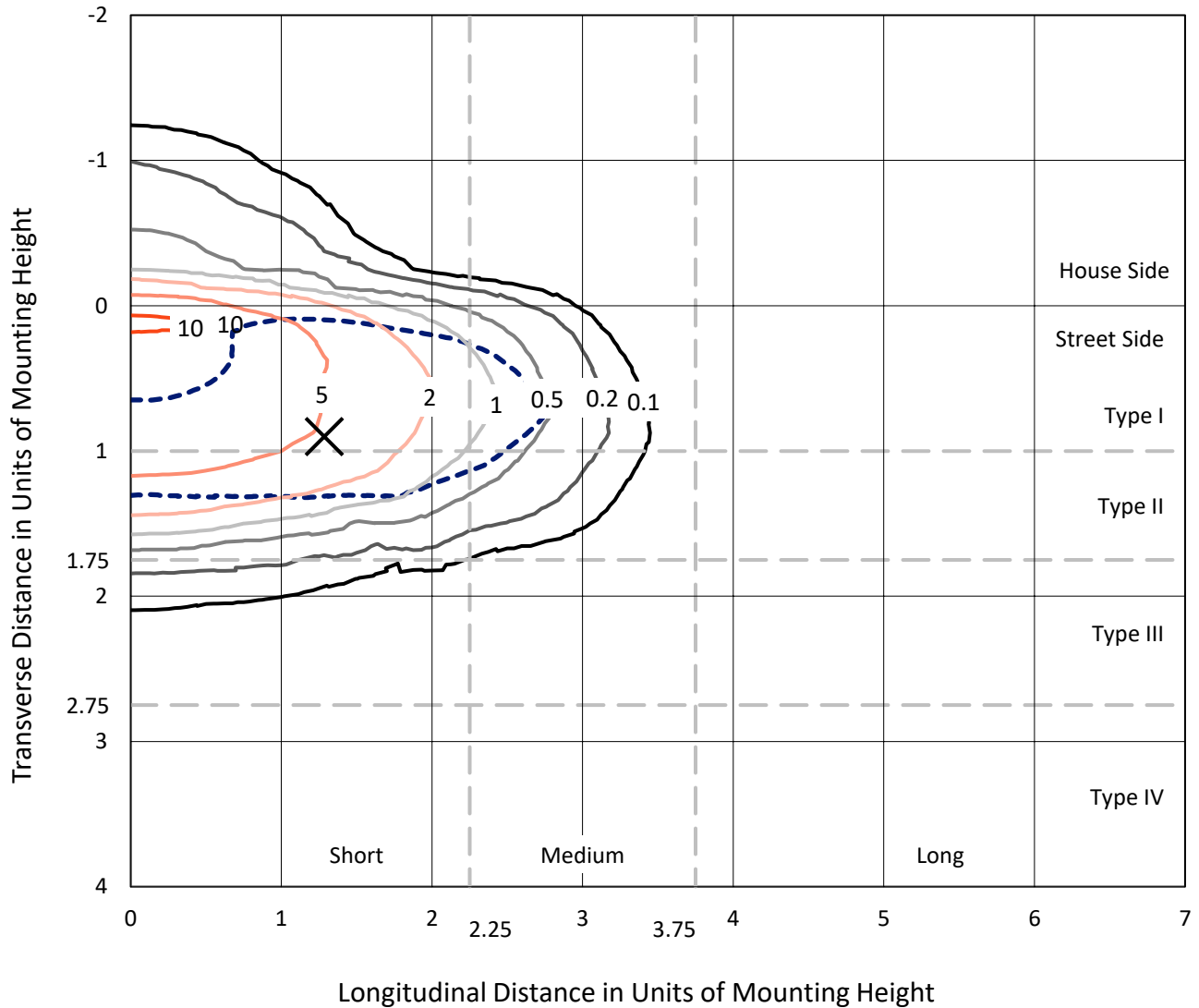
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

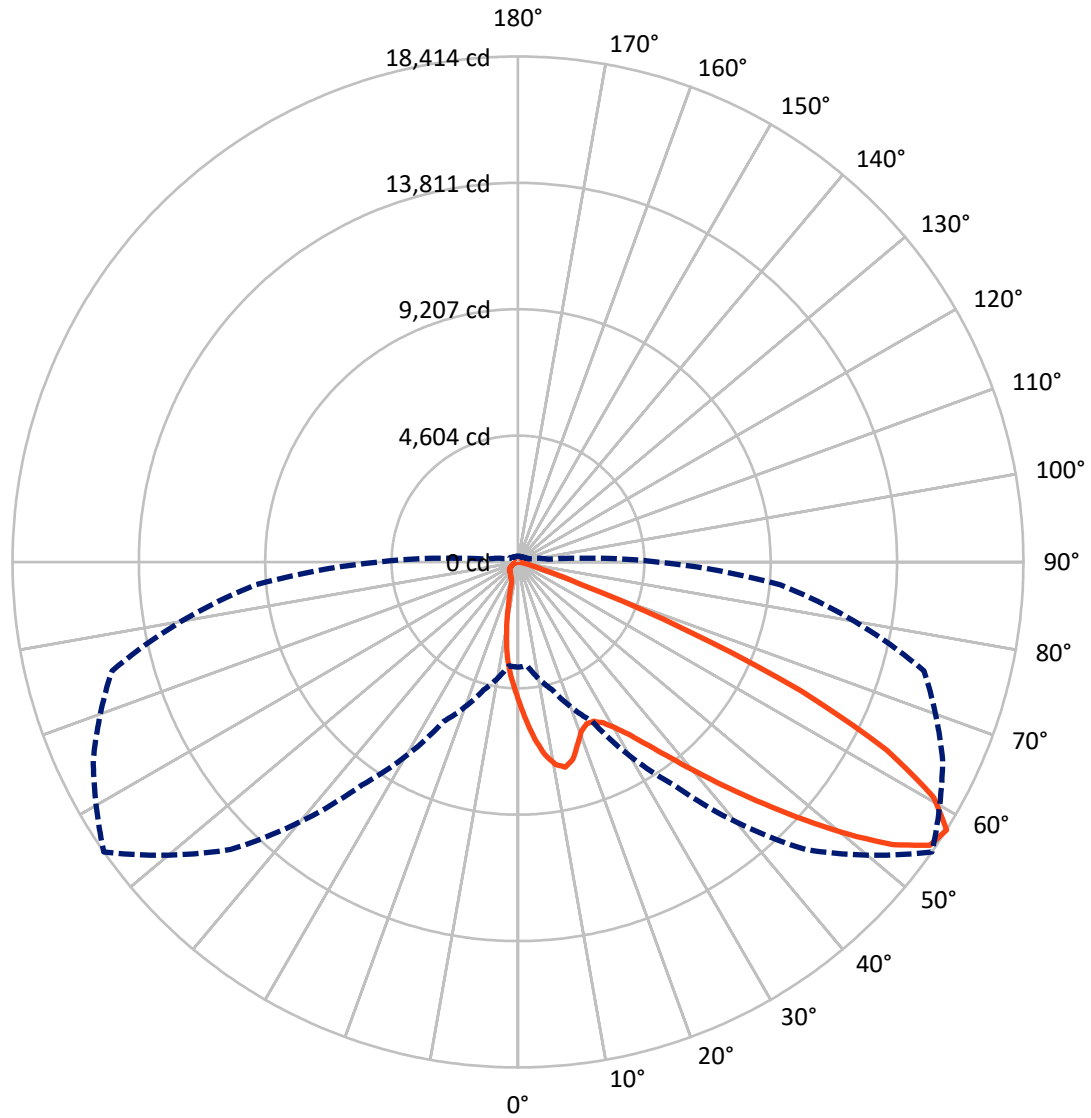
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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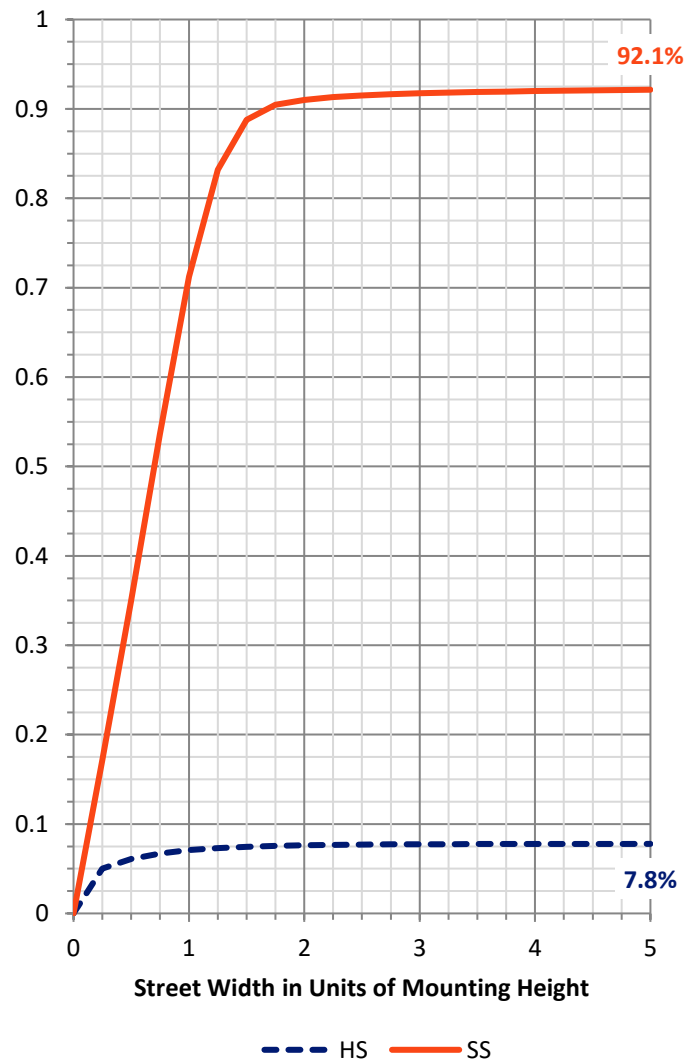
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.6	0.0	1647.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19449.4	0.0	19449.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	21097.0	0.0	21097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.0	2.2
10°-20°	1142.6	5.4
20°-30°	1828.1	8.7
30°-40°	3094.2	14.7
40°-50°	5080.1	24.1
50°-60°	5583.4	26.5
60°-70°	3202.6	15.2
70°-80°	654.4	3.1
80°-90°	38.6	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°	21097.0	100.0
0°-180°	21097.0	100.0

Coefficient of Utilization



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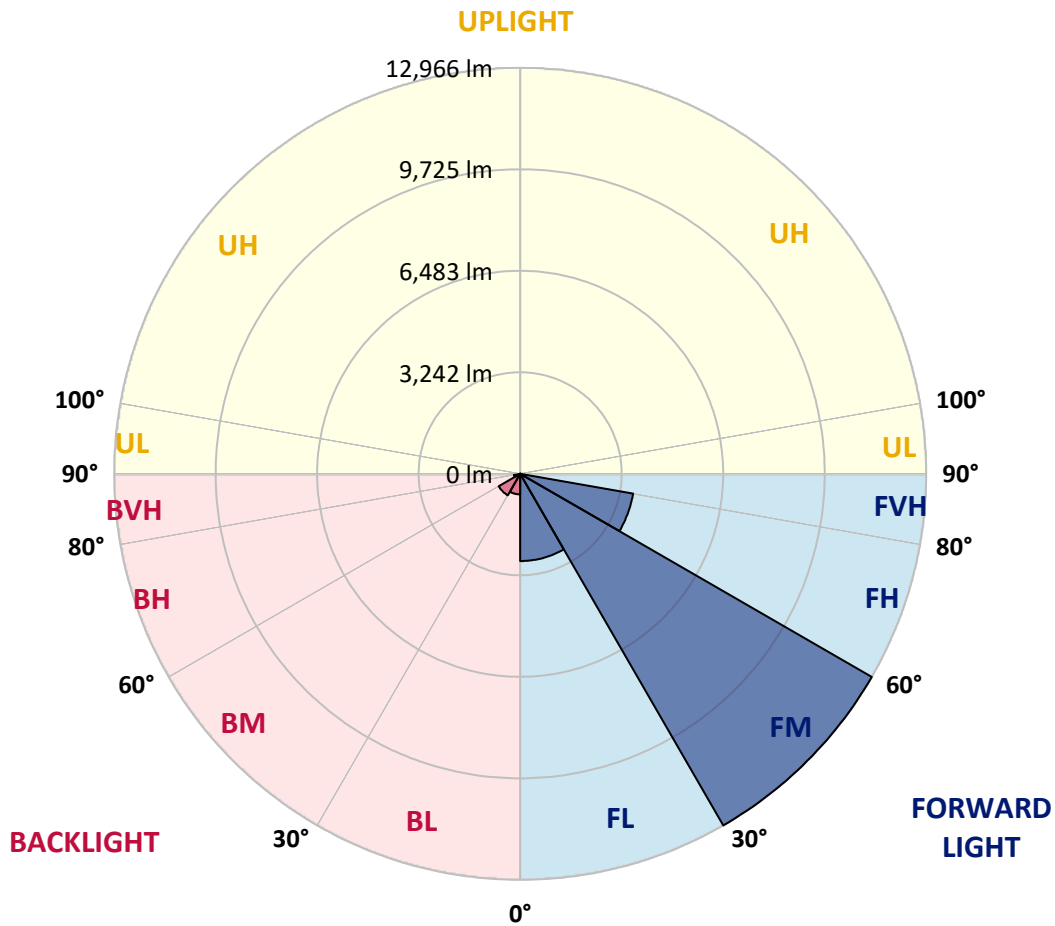
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.0	13.2			
FM (30°-60°)	12966.4	61.5			
FH (60°-80°)	3661.0	17.4			G2/5000
FVH (80°-90°)	36.0	0.2			G1/100
BL (0°-30°)	657.8	3.1	B2/1000		
BM (30°-60°)	791.3	3.8	B1/1000		
BH (60°-80°)	195.9	0.9	B1/500		G1/500
BVH (80°-90°)	2.6	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°	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9
2.5°	6308.0	6228.6	6216.9	6201.3	6050.4	5937.2	5773.3	5593.8	5392.2	5186.6
5°	7287.6	7225.1	7213.4	7140.6	6968.8	6776.3	6484.9	6116.8	5740.8	5298.5
7.5°	7477.5	7465.8	7519.1	7516.5	7493.1	7340.9	7095.0	6656.6	6092.0	5436.4
10°	6630.6	6660.5	6819.2	6958.4	7334.4	7552.9	7499.6	7138.0	6453.7	5593.8
12.5°	5859.2	5824.1	5937.2	6094.6	6531.7	7182.2	7667.4	7539.9	6867.4	5772.0
15°	5375.3	5360.9	5424.7	5497.5	5830.6	6486.2	7472.3	7866.4	7265.4	5982.8
17.5°	5220.4	5208.7	5228.3	5246.5	5462.4	5969.8	7007.9	8066.8	7646.6	6223.4
20°	5346.6	5331.0	5328.4	5314.1	5403.9	5749.9	6587.7	8081.1	7988.7	6442.0
22.5°	5714.8	5696.6	5632.8	5575.6	5583.4	5779.8	6400.4	7938.0	8246.3	6646.2
25°	6382.1	6352.2	6219.5	6027.0	5904.7	5988.0	6429.0	7749.4	8492.2	6806.2
27.5°	7217.3	7178.3	7007.9	6721.7	6442.0	6340.5	6635.8	7619.3	8696.4	6928.5
30°	8035.6	7984.8	7817.0	7594.6	7186.1	6866.1	7009.2	7676.5	8939.7	7056.0
32.5°	8918.9	8870.7	8648.3	8372.5	8034.3	7603.7	7520.4	7956.2	9237.6	7234.2
35°	10036.3	9960.9	9644.8	9268.8	8909.8	8474.0	8212.5	8438.8	9634.4	7506.1
37.5°	11308.6	11207.1	10866.3	10347.2	9878.9	9391.1	9055.5	9102.3	10215.8	7870.4
40°	12508.0	12415.6	12100.8	11611.7	11023.7	10431.8	10074.1	9970.0	11018.5	8314.0
42.5°	13227.4	13144.1	13011.4	12804.6	12309.0	11705.4	11254.0	11028.9	11968.1	8844.7
45°	13267.7	13194.9	13373.1	13613.8	13516.2	13114.2	12563.9	12151.6	12921.7	9343.0
47.5°	12622.5	12573.0	13114.2	13954.6	14373.5	14542.6	14035.2	13180.6	13708.7	9700.7
50°	10863.7	10845.5	11959.0	13501.9	14700.0	15794.0	15587.2	14138.0	14318.8	9885.4
52.5°	9419.7	9353.4	10002.5	12052.7	14225.2	16452.3	17104.0	15077.3	14745.5	9920.5
55°	7144.5	7085.9	7900.3	9627.8	12694.0	16218.1	18213.7	16046.4	15051.2	9830.8
57.5°	3832.4	3796.0	4825.0	6408.2	9923.1	14813.2	18414.0	17071.5	15308.8	9592.7
60°	1492.1	1485.6	1870.7	3109.1	6030.9	12051.4	17403.2	17686.8	15470.1	9300.0
62.5°	902.8	922.3	984.8	1395.8	2664.2	7486.6	15073.3	16987.0	15578.1	9032.0
65°	746.7	748.0	755.8	958.8	1276.2	3132.5	11347.6	14684.4	15311.4	8554.6
67.5°	640.0	651.7	681.7	761.0	900.2	1373.7	6533.0	11374.9	13689.2	7443.7
70°	504.7	520.4	558.1	625.7	694.7	859.9	2414.4	7568.5	10457.8	5610.7
72.5°	425.4	424.1	443.6	508.6	551.6	604.9	928.8	4240.9	6077.7	2678.5
75°	329.1	342.1	366.8	425.4	451.4	438.4	503.4	1549.4	2177.7	811.8
77.5°	257.6	268.0	290.1	347.3	373.4	310.9	290.1	554.2	699.9	291.4
80°	115.8	124.9	197.7	256.3	304.4	214.6	157.4	283.6	310.9	132.7
82.5°	20.8	35.1	115.8	135.3	156.1	139.2	82.0	147.0	152.2	53.3
85°	1.3	2.6	40.3	49.4	62.4	45.5	24.7	58.5	50.7	18.2
87.5°	0.0	0.0	0.0	1.3	1.3	6.5	7.8	10.4	7.8	6.5
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°
5083.9	0°	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9	5083.9
5095.6	2.5°	5001.9	4817.2	4637.7	4490.7	4404.8	4259.1	4162.8	4147.2	4106.9	4142.0
5108.6	5°	4905.6	4575.2	4240.9	3941.7	3695.8	3378.4	3141.6	3041.5	2954.3	2984.2
5142.4	7.5°	4860.1	4338.5	3818.1	3306.8	2781.3	2273.9	1896.7	1739.3	1619.6	1636.5
5180.1	10°	4799.0	4092.6	3276.9	2496.4	1792.6	1291.8	1031.6	935.3	882.0	883.3
5236.1	12.5°	4752.1	3798.6	2648.6	1692.5	1091.4	824.8	744.1	720.7	705.1	706.4
5320.6	15°	4728.7	3452.5	2028.1	1127.9	780.5	698.6	679.1	668.7	658.2	656.9
5414.3	17.5°	4689.7	3067.5	1484.3	823.5	683.0	654.3	637.4	625.7	612.7	610.1
5494.9	20°	4631.1	2630.4	1084.9	696.0	640.0	617.9	594.5	578.9	563.3	560.7
5545.7	22.5°	4523.2	2168.6	833.9	643.9	608.8	584.1	555.5	537.3	521.7	519.1
5521.0	25°	4322.8	1735.4	702.5	611.4	581.5	551.6	520.4	495.6	481.3	478.7
5467.6	27.5°	4069.2	1363.3	637.4	581.5	546.4	519.1	483.9	460.5	447.5	444.9
5397.4	30°	3770.0	1049.8	599.7	547.7	504.7	481.3	450.1	430.6	422.8	422.8
5347.9	32.5°	3447.3	839.1	584.1	513.8	468.3	442.3	417.6	409.8	407.2	405.9
5375.3	35°	3144.2	728.5	576.3	486.5	435.8	411.1	400.7	402.0	407.2	407.2
5459.8	37.5°	2875.0	693.4	572.4	467.0	407.2	385.1	391.6	403.3	398.1	398.1
5608.1	40°	2631.7	697.3	569.8	452.7	383.8	370.8	383.8	374.7	361.6	360.3
5788.9	42.5°	2445.7	729.8	564.6	441.0	369.5	360.3	355.1	340.8	339.5	342.1
5976.3	45°	2310.4	758.4	563.3	435.8	353.8	336.9	330.4	316.1	342.1	348.6
6053.0	47.5°	2150.4	758.4	563.3	417.6	327.8	321.3	310.9	295.3	321.3	327.8
5980.2	50°	1943.5	710.3	541.2	396.8	307.0	303.1	284.9	265.4	260.2	264.1
5809.8	52.5°	1682.0	623.1	485.2	368.2	286.2	278.4	256.3	242.0	238.1	238.1
5504.0	55°	1384.1	521.7	409.8	326.5	264.1	249.8	234.2	227.7	223.8	221.2
5076.1	57.5°	1125.3	428.0	329.1	290.1	243.3	225.1	219.8	212.0	205.5	201.6
4718.3	60°	923.6	336.9	271.9	257.6	222.5	205.5	204.2	193.8	176.9	174.3
4423.0	62.5°	712.9	247.2	229.0	223.8	201.6	187.3	184.7	163.9	137.9	132.7
4004.1	65°	503.4	192.5	184.7	196.4	179.5	166.5	160.0	128.8	101.5	97.6
3351.1	67.5°	353.8	161.3	145.7	171.7	156.1	139.2	135.3	109.3	84.6	82.0
2534.1	70°	252.4	131.4	119.7	147.0	124.9	122.3	114.5	91.1	68.9	66.3
1254.1	72.5°	178.2	100.2	92.4	127.5	85.9	105.4	93.7	70.2	52.0	49.4
426.7	75°	131.4	71.5	65.0	74.2	62.4	79.4	66.3	46.8	32.5	31.2
192.5	77.5°	96.3	45.5	39.0	36.4	36.4	49.4	36.4	19.5	14.3	13.0
97.6	80°	67.6	20.8	18.2	15.6	14.3	11.7	5.2	2.6	1.3	1.3
33.8	82.5°	40.3	9.1	9.1	6.5	3.9	0.0	0.0	0.0	0.0	0.0
13.0	85°	9.1	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	1.3	1.3	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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