

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: P953967

Luminaire Tested: **GALN-SB7B-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953967
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-SB7B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 32660 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

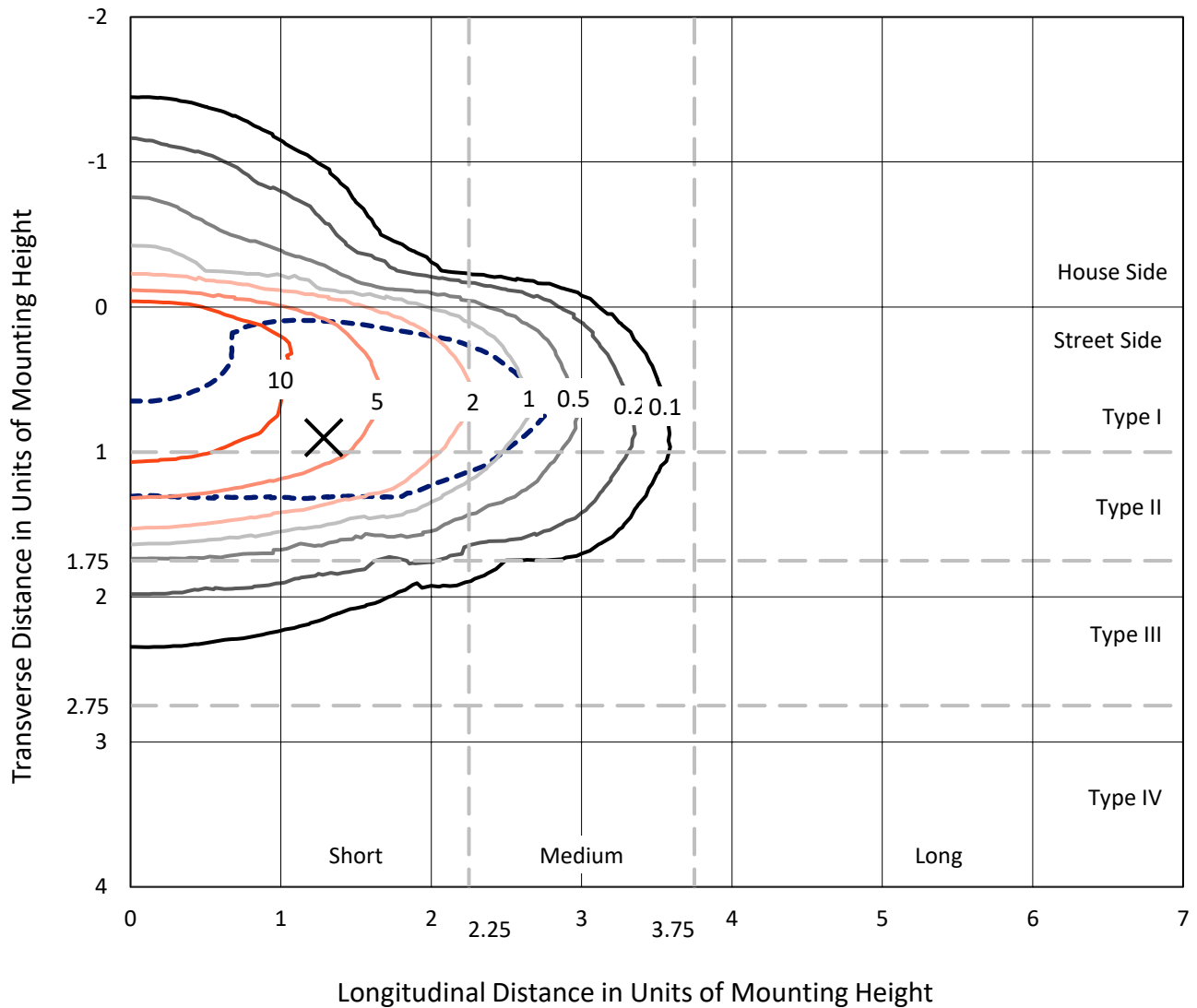
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

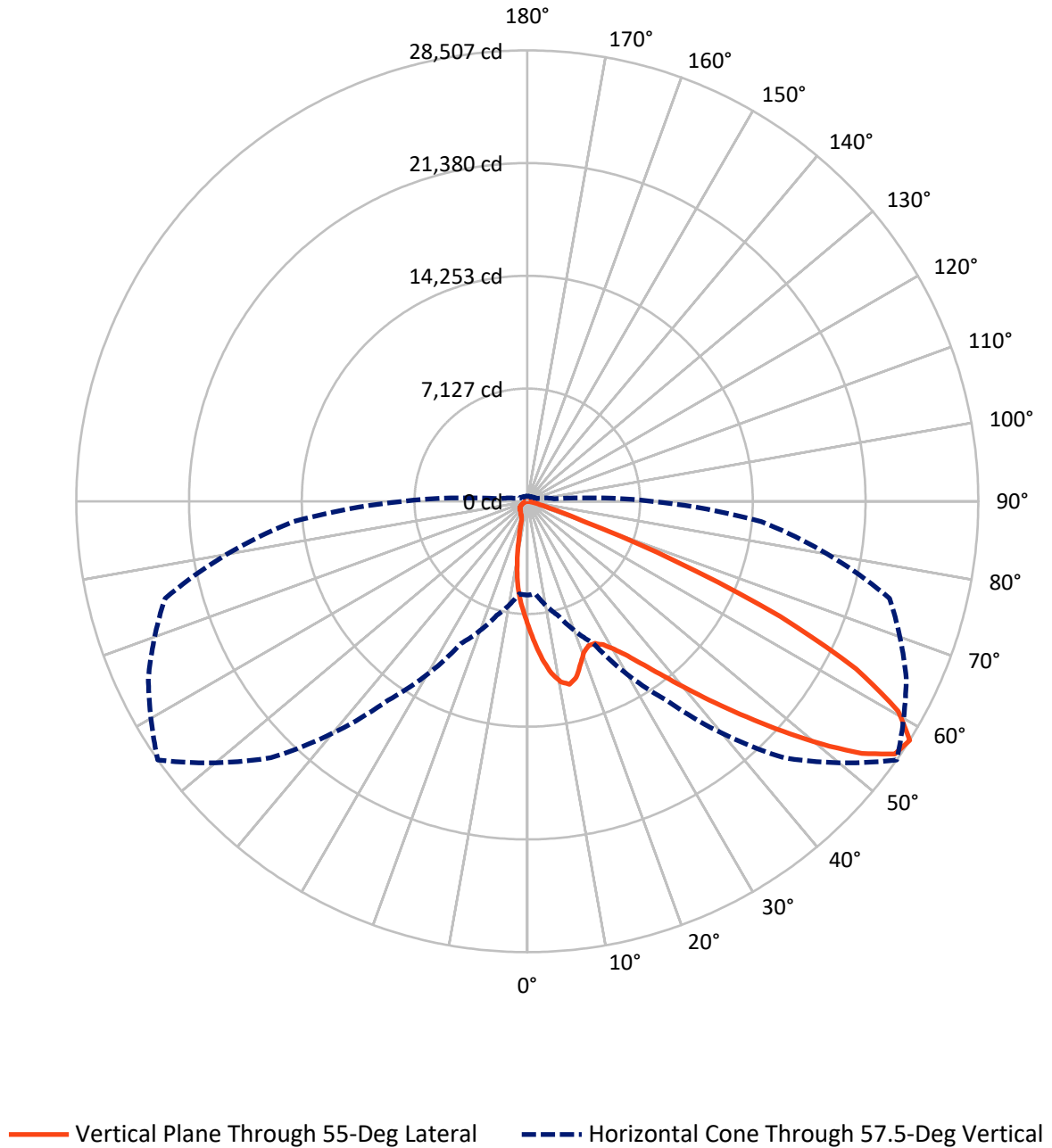
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.6	0.0	2550.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	30109.4	0.0	30109.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	32660.0	0.0	32660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.3	2.2
10°-20°	1768.8	5.4
20°-30°	2830.1	8.7
30°-40°	4790.1	14.7
40°-50°	7864.4	24.1
50°-60°	8643.5	26.5
60°-70°	4957.9	15.2
70°-80°	1013.1	3.1
80°-90°	59.8	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°	32660.0	100.0
0°-180°	32660.0	100.0

Coefficient of Utilization



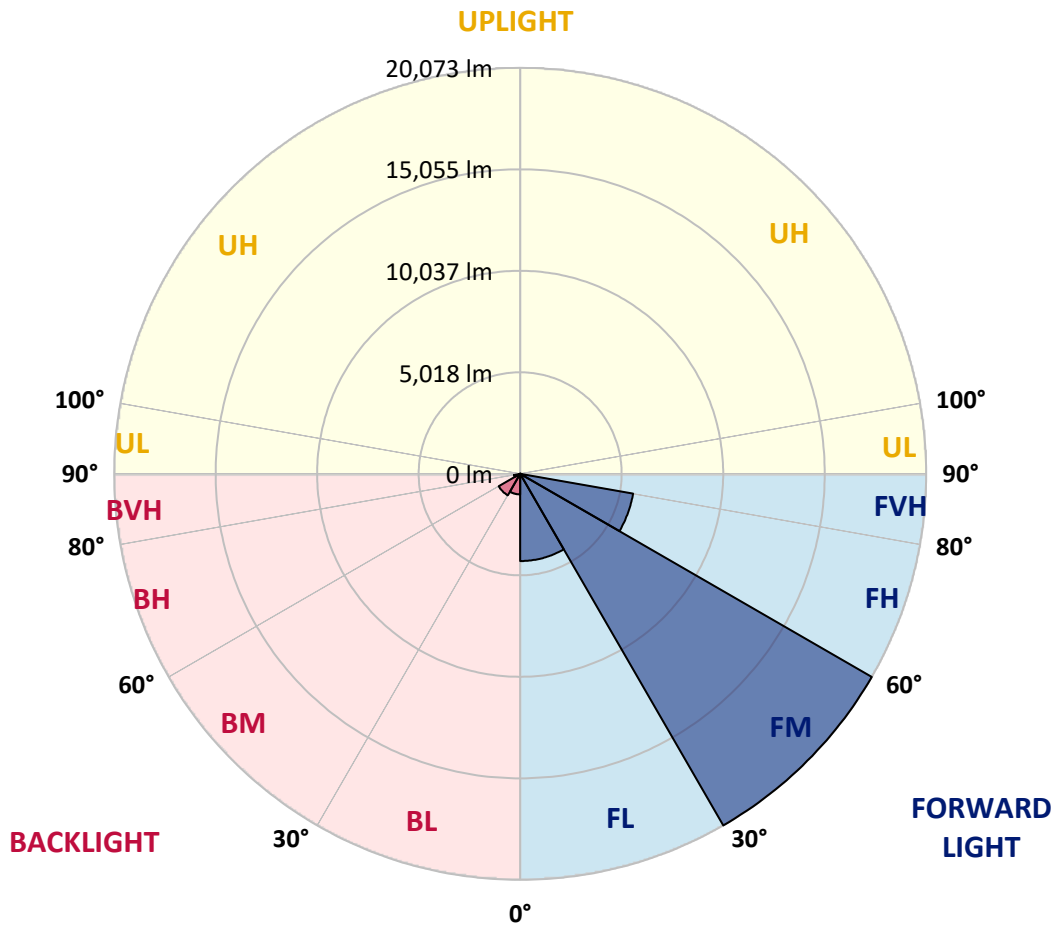
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4313.0	13.2			
FM (30°-60°)	20073.1	61.5			
FH (60°-80°)	5667.6	17.4			G3/7500
FVH (80°-90°)	55.7	0.2			G1/100
BL (0°-30°)	1018.3	3.1	B3/2500		
BM (30°-60°)	1225.0	3.8	B2/2500		
BH (60°-80°)	303.3	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	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°	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3
2.5°	9765.3	9642.5	9624.3	9600.2	9366.6	9191.4	8937.6	8659.7	8347.5	8029.4
5°	11281.8	11185.1	11167.0	11054.2	10788.4	10490.3	10039.2	9469.3	8887.3	8202.5
7.5°	11575.8	11557.7	11640.2	11636.2	11600.0	11364.3	10983.7	10305.0	9431.0	8416.0
10°	10264.8	10311.1	10556.8	10772.3	11354.3	11692.6	11610.0	11050.2	9990.9	8659.7
12.5°	9070.5	9016.2	9191.4	9435.0	10111.7	11118.6	11869.8	11672.5	10631.3	8935.6
15°	8321.4	8299.2	8397.9	8510.7	9026.2	10041.2	11567.7	12178.0	11247.5	9261.8
17.5°	8081.7	8063.6	8093.8	8122.0	8456.3	9241.7	10848.8	12488.1	11837.6	9634.4
20°	8277.1	8252.9	8248.9	8226.7	8365.7	8901.4	10198.3	12510.2	12367.3	9972.7
22.5°	8847.0	8818.8	8720.1	8631.5	8643.6	8947.7	9908.3	12288.7	12766.0	10288.9
25°	9880.1	9833.8	9628.4	9330.3	9141.0	9269.9	9952.6	11996.7	13146.6	10536.6
27.5°	11173.0	11112.6	10848.8	10405.7	9972.7	9815.7	10272.8	11795.3	13462.8	10725.9
30°	12439.8	12361.2	12101.4	11757.0	11124.7	10629.3	10850.8	11883.9	13839.4	10923.3
32.5°	13807.2	13732.7	13388.3	12961.4	12437.7	11771.1	11642.3	12316.9	14300.6	11199.2
35°	15537.1	15420.3	14930.9	14348.9	13793.1	13118.4	12713.6	13064.1	14914.8	11620.1
37.5°	17506.7	17349.6	16822.0	16018.4	15293.4	14538.2	14018.6	14091.1	15815.0	12184.0
40°	19363.5	19220.5	18733.1	17975.9	17065.6	16149.3	15595.5	15434.4	17057.6	12870.7
42.5°	20477.2	20348.3	20142.9	19822.7	19055.4	18120.9	17422.1	17073.7	18527.7	13692.4
45°	20539.6	20426.8	20702.7	21075.3	20924.2	20302.0	19450.1	18811.7	20003.9	14463.7
47.5°	19540.7	19464.2	20302.0	21602.9	22251.4	22513.2	21727.8	20404.7	21222.3	15017.5
50°	16817.9	16789.7	18513.6	20902.1	22756.9	24450.6	24130.3	21886.9	22166.8	15303.5
52.5°	14582.5	14479.8	15484.7	18658.6	22021.8	25469.6	26478.5	23340.9	22827.4	15357.9
55°	11060.2	10969.6	12230.3	14904.7	19651.5	25107.1	28196.4	24841.2	23300.6	15218.9
57.5°	5932.9	5876.5	7469.5	9920.4	15361.9	22932.1	28506.5	26428.2	23699.4	14850.4
60°	2309.9	2299.9	2896.0	4813.2	9336.4	18656.6	26941.7	27380.8	23949.1	14397.3
62.5°	1397.6	1427.8	1524.5	2160.9	4124.4	11589.9	23334.9	26297.3	24116.2	13982.4
65°	1156.0	1158.0	1170.1	1484.2	1975.6	4849.4	17567.1	22732.7	23703.4	13243.3
67.5°	990.8	1009.0	1055.3	1178.1	1393.6	2126.7	10113.7	17609.4	21192.1	11523.4
70°	781.4	805.6	864.0	968.7	1075.4	1331.2	3737.8	11716.8	16189.6	8685.9
72.5°	658.5	656.5	686.7	787.4	853.9	936.5	1437.9	6565.3	9408.9	4146.6
75°	509.5	529.7	567.9	658.5	698.8	678.7	779.4	2398.5	3371.2	1256.7
77.5°	398.7	414.9	449.1	537.7	578.0	481.3	449.1	857.9	1083.5	451.1
80°	179.2	193.3	306.1	396.7	471.2	332.3	243.7	439.0	481.3	205.4
82.5°	32.2	54.4	179.2	209.4	241.7	215.5	126.9	227.6	235.6	82.6
85°	2.0	4.0	62.4	76.5	96.7	70.5	38.3	90.6	78.5	28.2
87.5°	0.0	0.0	0.0	2.0	2.0	10.1	12.1	16.1	12.1	10.1
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°
7870.3	0°	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3	7870.3
7888.4	2.5°	7743.4	7457.4	7179.5	6951.9	6819.0	6593.5	6444.4	6420.3	6357.8	6412.2
7908.5	5°	7594.4	7082.8	6565.3	6102.1	5721.4	5230.1	4863.5	4708.5	4573.5	4619.8
7960.9	7.5°	7523.9	6716.3	5910.7	5119.3	4305.7	3520.3	2936.2	2692.6	2507.3	2533.5
8019.3	10°	7429.2	6335.7	5073.0	3864.6	2775.1	1999.8	1597.0	1448.0	1365.4	1367.4
8105.9	12.5°	7356.7	5880.5	4100.3	2620.1	1689.6	1276.8	1151.9	1115.7	1091.5	1093.5
8236.8	15°	7320.5	5344.8	3139.6	1746.0	1208.3	1081.5	1051.2	1035.1	1019.0	1017.0
8381.8	17.5°	7260.0	4748.7	2297.8	1274.8	1057.3	1013.0	986.8	968.7	948.5	944.5
8506.6	20°	7169.4	4072.1	1679.6	1077.4	990.8	956.6	920.3	896.2	872.0	868.0
8585.2	22.5°	7002.3	3357.1	1290.9	996.9	942.5	904.2	859.9	831.7	807.6	803.5
8546.9	25°	6692.1	2686.5	1087.5	946.5	900.2	853.9	805.6	767.3	745.1	741.1
8464.4	27.5°	6299.4	2110.5	986.8	900.2	845.8	803.5	749.2	712.9	692.8	688.7
8355.6	30°	5836.2	1625.2	928.4	847.8	781.4	745.1	696.8	666.6	654.5	654.5
8279.1	32.5°	5336.8	1299.0	904.2	795.5	725.0	684.7	646.5	634.4	630.3	628.3
8321.4	35°	4867.6	1127.8	892.2	753.2	674.7	636.4	620.3	622.3	630.3	630.3
8452.3	37.5°	4450.7	1073.4	886.1	723.0	630.3	596.1	606.2	624.3	616.2	616.2
8681.8	40°	4074.1	1079.4	882.1	700.8	594.1	574.0	594.1	580.0	559.9	557.8
8961.8	42.5°	3786.1	1129.8	874.0	682.7	571.9	557.8	549.8	527.6	525.6	529.7
9251.8	45°	3576.7	1174.1	872.0	674.7	547.8	521.6	511.5	489.4	529.7	539.7
9370.6	47.5°	3328.9	1174.1	872.0	646.5	507.5	497.4	481.3	457.2	497.4	507.5
9257.8	50°	3008.7	1099.6	837.8	614.2	475.3	469.2	441.0	410.8	402.8	408.8
8994.0	52.5°	2604.0	964.6	751.2	569.9	443.1	431.0	396.7	374.6	368.5	368.5
8520.7	55°	2142.8	807.6	634.4	505.5	408.8	386.7	362.5	352.4	346.4	342.4
7858.2	57.5°	1742.0	662.6	509.5	449.1	376.6	348.4	340.3	328.3	318.2	312.2
7304.4	60°	1429.9	521.6	420.9	398.7	344.4	318.2	316.2	300.1	273.9	269.9
6847.2	62.5°	1103.6	382.6	354.4	346.4	312.2	290.0	286.0	253.7	213.5	205.4
6198.7	65°	779.4	298.1	286.0	304.1	277.9	257.8	247.7	199.4	157.1	151.0
5187.8	67.5°	547.8	249.7	225.6	265.8	241.7	215.5	209.4	169.2	130.9	126.9
3923.0	70°	390.7	203.4	185.3	227.6	193.3	189.3	177.2	141.0	106.7	102.7
1941.4	72.5°	275.9	155.1	143.0	197.4	132.9	163.1	145.0	108.7	80.6	76.5
660.6	75°	203.4	110.8	100.7	114.8	96.7	122.8	102.7	72.5	50.3	48.3
298.1	77.5°	149.0	70.5	60.4	56.4	56.4	76.5	56.4	30.2	22.2	20.1
151.0	80°	104.7	32.2	28.2	24.2	22.2	18.1	8.1	4.0	2.0	2.0
52.4	82.5°	62.4	14.1	14.1	10.1	6.0	0.0	0.0	0.0	0.0	0.0
20.1	85°	14.1	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	2.0	2.0	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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