

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: P944686

Luminaire Tested: **GALN-SB9D-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72692 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

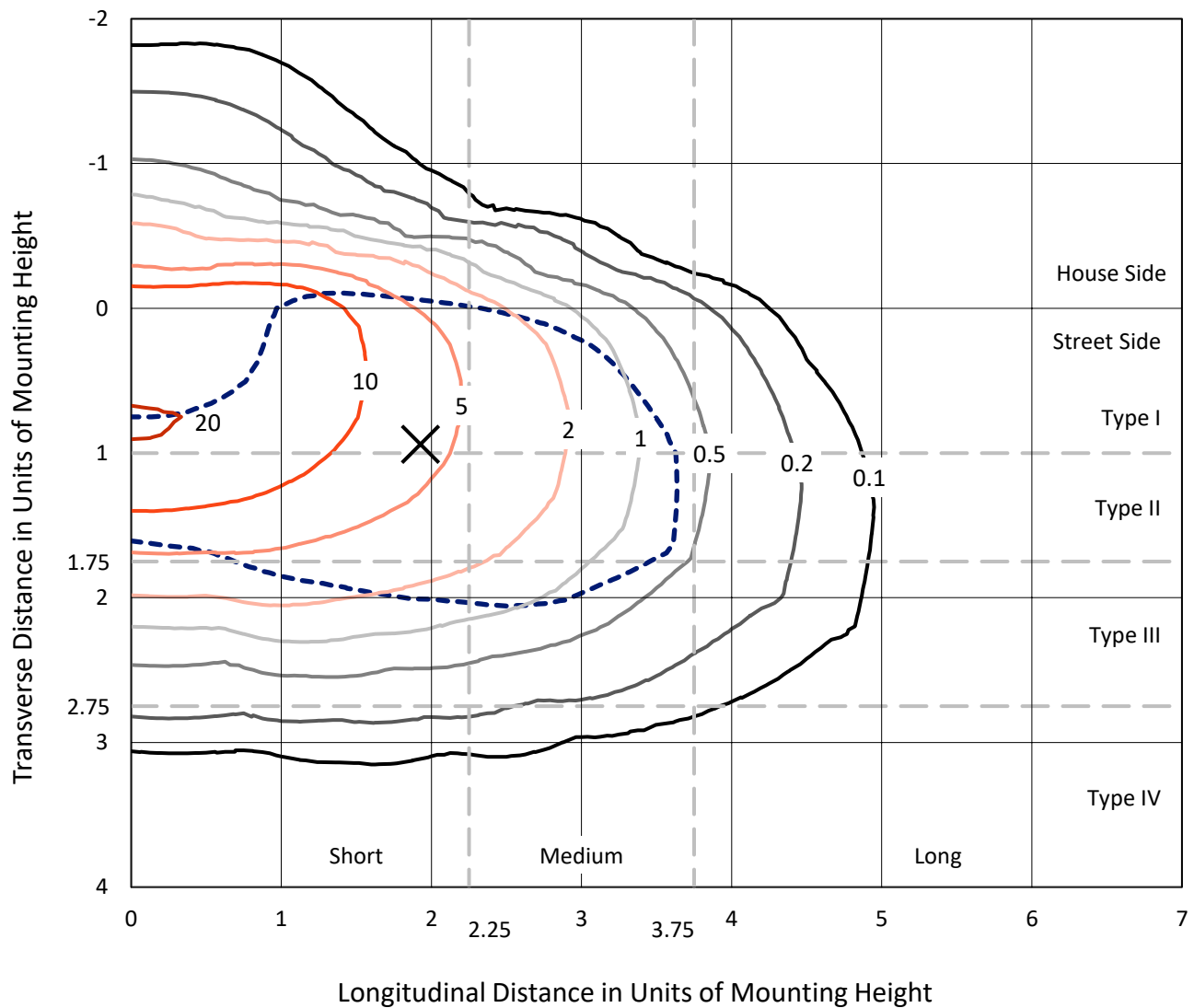


REPORT NUMBER: P944686

CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

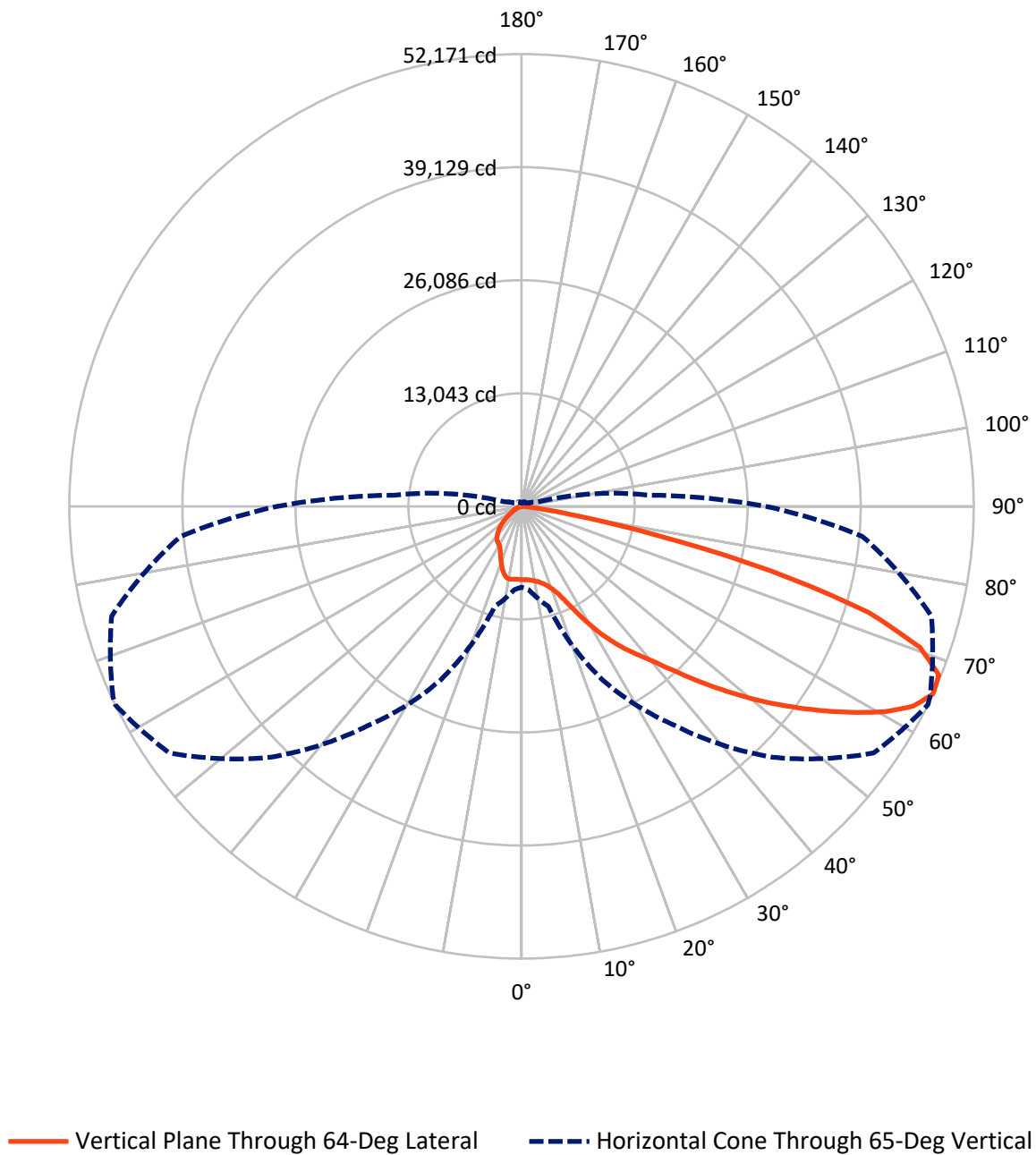


Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
Type III - Short - N/A

REPORT NUMBER: P944686

CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944686

CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

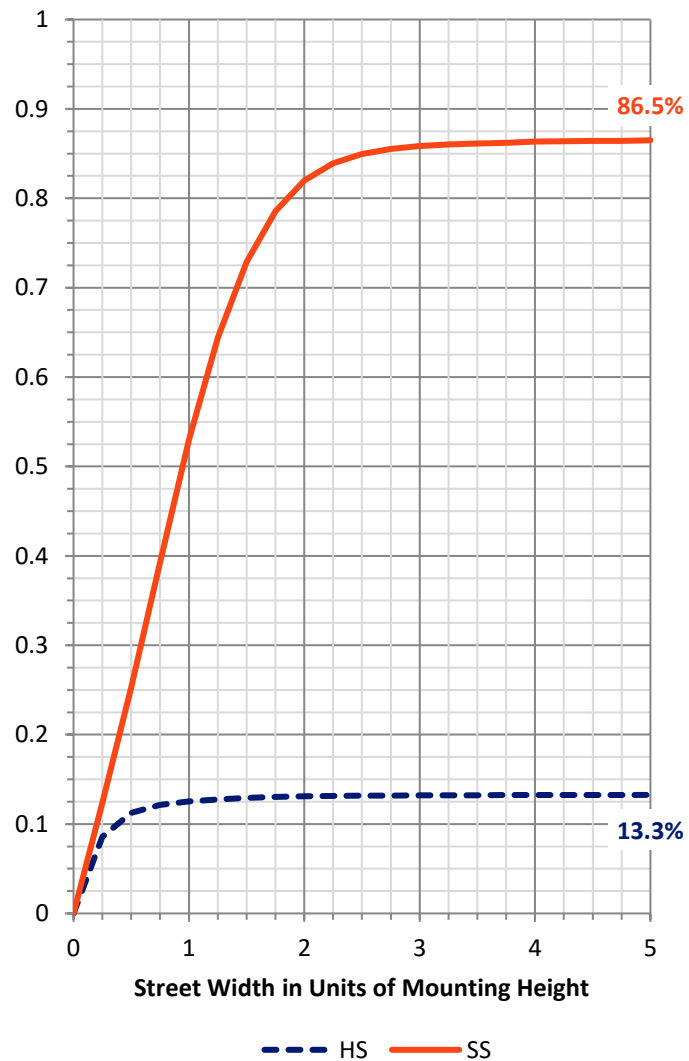
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9721.1	0.0	9721.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	62970.9	0.0	62970.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	72692.0	0.0	72692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.0	1.1
10°-20°	2115.7	2.9
20°-30°	4009.1	5.5
30°-40°	8112.5	11.2
40°-50°	13819.7	19.0
50°-60°	18793.7	25.9
60°-70°	17648.2	24.3
70°-80°	7070.6	9.7
80°-90°	342.5	0.5
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°	72692.0	100.0
0°-180°	72692.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944686

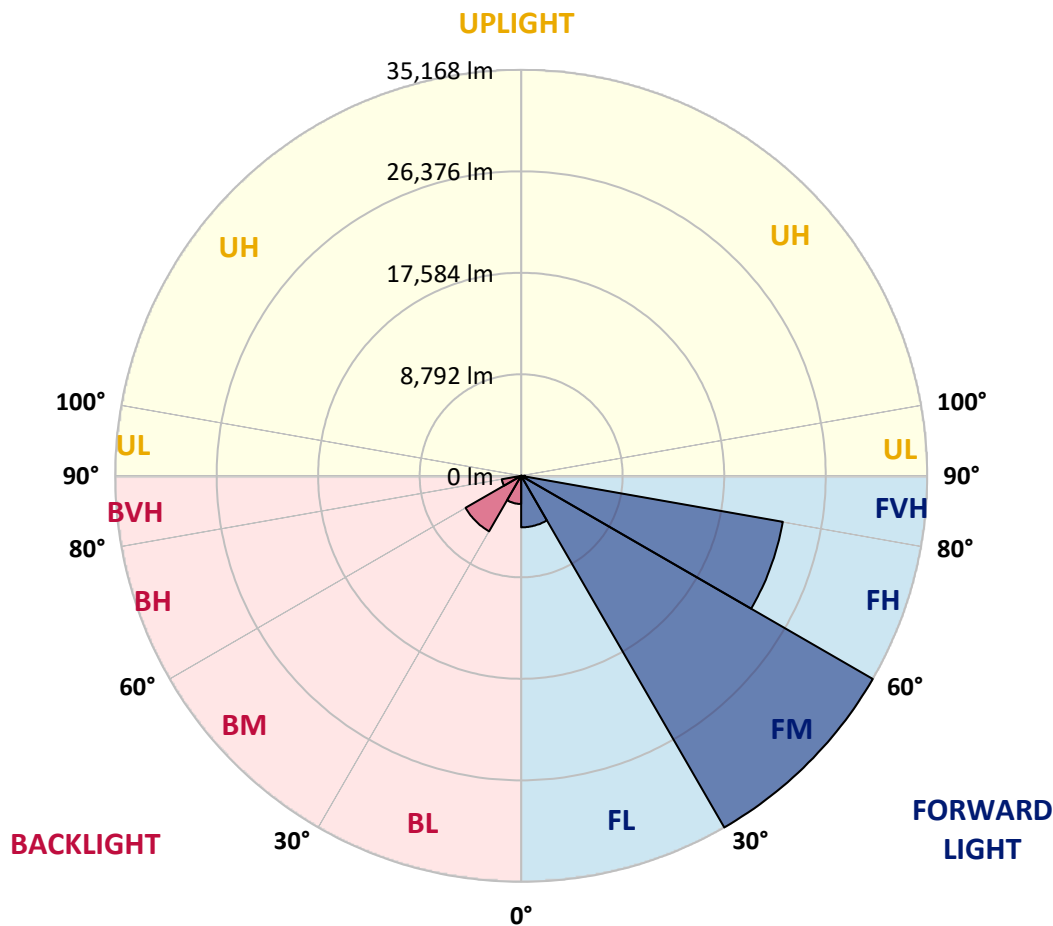
CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4464.1	6.1			
FM	(30°-60°)	35168.3	48.4			
FH	(60°-80°)	23012.6	31.7			G5
FVH	(80°-90°)	325.8	0.4			G3/500
BL	(0°-30°)	2440.7	3.4	B3/2500		
BM	(30°-60°)	5557.5	7.6	B4/8500		
BH	(60°-80°)	1706.2	2.3	B3/2500		G3/2500
BVH	(80°-90°)	16.7	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P944686

CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8
2.5°	8425.6	8484.1	8469.5	8454.8	8450.0	8459.7	8464.6	8459.7	8459.7	8459.7
5°	8264.8	8313.5	8313.5	8347.6	8396.4	8454.8	8498.7	8508.4	8518.2	8532.8
7.5°	7957.8	7996.8	8026.0	8138.1	8259.9	8415.8	8547.4	8615.6	8625.4	8679.0
10°	7748.2	7797.0	7845.7	7962.7	8138.1	8372.0	8596.2	8761.8	8786.2	8912.9
12.5°	7738.5	7787.2	7850.6	7977.3	8181.9	8430.5	8703.4	8942.1	8986.0	9171.2
15°	7840.8	7899.3	7957.8	8113.7	8333.0	8635.1	8927.5	9224.8	9268.6	9531.8
17.5°	8050.4	8128.3	8172.2	8328.1	8562.0	8898.3	9283.3	9624.4	9663.4	9970.4
20°	8464.6	8557.2	8571.8	8698.5	8927.5	9288.1	9746.2	10170.2	10218.9	10569.8
22.5°	9322.2	9453.8	9336.9	9400.2	9604.9	9965.5	10462.6	10998.6	11066.8	11466.4
25°	10832.9	11018.1	10716.0	10608.7	10696.5	11071.7	11695.4	12372.8	12450.8	12772.4
27.5°	13800.6	13561.8	13103.8	12655.4	12392.3	12606.7	13308.4	14146.6	14244.1	14556.0
30°	17060.7	16851.2	16232.3	15238.2	14614.4	14580.3	15228.4	16164.1	16276.2	16573.4
32.5°	20325.7	20125.9	19453.4	18230.3	17148.5	16612.4	17060.7	18098.7	18157.2	18347.2
35°	23537.1	23332.4	22659.9	21407.5	20077.2	18858.9	18771.2	19940.7	19960.2	20160.0
37.5°	26768.0	26597.4	25881.1	24653.0	23342.2	21660.9	20847.1	21685.3	21709.7	21904.6
40°	29072.9	29146.0	28653.8	27703.6	26577.9	24740.7	23176.5	23542.0	23395.8	23722.3
42.5°	31051.4	31197.6	30768.8	30291.2	29638.2	28020.3	26061.4	25998.0	25764.1	25939.5
45°	32761.9	32883.7	32498.7	32386.6	32372.0	31236.6	29214.3	28834.2	28507.7	28473.5
47.5°	33390.5	33624.4	33790.1	34165.3	34896.3	34418.7	32474.4	31884.7	31519.2	31251.2
50°	33629.3	33877.8	34443.1	35534.7	37264.6	37469.3	35719.8	35057.1	34608.8	34121.5
52.5°	33307.7	33751.1	34511.3	36348.5	38858.1	39915.6	38833.8	38253.9	37742.2	36947.9
55°	31412.0	31855.5	33410.0	36338.7	39652.4	41630.9	41777.1	41518.8	40943.8	39691.4
57.5°	27416.1	28073.9	30534.9	35101.0	39637.8	43107.5	44662.0	44847.2	44203.9	42410.6
60°	21880.2	22772.0	25773.8	32357.4	38414.7	43906.7	47191.1	48117.0	47434.8	45090.8
62.5°	15267.4	16300.5	19141.6	28059.3	35617.5	43331.6	49038.0	50748.5	50231.9	47488.4
65°	9312.5	9643.9	11934.2	22080.0	30861.4	40924.3	49608.2	52171.4	52000.9	48955.2
67.5°	6203.5	6481.2	7139.1	15140.7	23956.2	36114.6	48243.7	51922.9	51971.6	48716.4
70°	3737.7	3976.5	4405.3	8805.7	15525.7	28585.6	44018.7	48755.4	49038.0	45524.5
72.5°	1539.9	1700.7	2090.6	3991.1	8040.6	18142.6	35052.2	41860.0	42517.8	38278.2
75°	872.3	955.1	1228.0	2002.8	3489.1	8454.8	21232.1	29716.2	30685.9	26383.0
77.5°	579.9	618.9	794.3	1296.2	1963.9	2884.9	9073.7	15481.8	17333.6	14409.8
80°	389.8	424.0	545.8	867.4	1276.8	1237.8	2889.8	5735.6	7056.3	4951.1
82.5°	263.1	268.0	389.8	570.2	808.9	599.4	852.8	1783.6	2241.6	1432.7
85°	151.1	146.2	287.5	331.4	360.6	248.5	258.3	536.0	701.7	604.3
87.5°	19.5	29.2	112.1	87.7	48.7	53.6	53.6	92.6	136.4	146.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944686

CATALOG NUMBER: GALN-SB9D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8454.8	0°	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8	8454.8
8464.6	2.5°	8464.6	8459.7	8445.1	8430.5	8396.4	8376.9	8386.6	8376.9	8372.0	8376.9
8527.9	5°	8527.9	8513.3	8474.3	8425.6	8357.4	8274.5	8220.9	8143.0	8069.9	8026.0
8698.5	7.5°	8698.5	8683.9	8630.3	8493.8	8274.5	7928.5	7611.8	7334.0	7124.5	7002.6
8971.4	10°	8971.4	8947.0	8864.2	8562.0	7987.0	7231.7	6603.1	6081.6	5740.5	5579.7
9293.0	12.5°	9293.0	9263.8	9117.6	8498.7	7441.2	6261.9	5394.5	4814.6	4497.9	4356.6
9663.4	15°	9673.1	9634.1	9346.6	8196.6	6646.9	5189.9	4395.5	3961.8	3757.2	3630.5
10136.1	17.5°	10145.8	10077.6	9517.2	7743.4	5784.4	4371.2	3781.5	3455.0	3274.7	3152.9
10754.9	20°	10759.8	10647.7	9653.6	7202.4	4990.1	3854.6	3367.3	3094.4	2958.0	2850.8
11632.1	22.5°	11617.5	11456.7	9819.3	6617.7	4429.7	3498.9	3060.3	2860.5	2748.4	2626.6
12855.2	25°	12679.8	12489.8	10024.0	6076.8	4044.7	3191.9	2836.1	2670.5	2538.9	2397.6
14458.5	27.5°	14166.1	13825.0	10267.6	5633.3	3713.3	2928.7	2631.5	2446.3	2295.2	2178.3
16276.2	30°	15823.0	15262.6	10482.0	5365.3	3411.2	2685.1	2363.5	2178.3	2037.0	1954.1
17908.7	32.5°	17392.1	16631.9	10623.4	5248.3	3138.3	2407.3	2071.1	1871.3	1764.1	1739.7
19507.0	35°	18873.5	17869.7	10608.7	5136.3	2894.6	2129.5	1783.6	1578.9	1496.0	1510.7
21227.2	37.5°	20579.1	19190.3	10506.4	4960.8	2694.8	1876.1	1535.0	1354.7	1281.6	1286.5
23317.8	40°	22562.5	20715.6	10443.1	4629.4	2475.5	1642.2	1330.4	1184.2	1130.6	1111.1
25520.4	42.5°	24677.4	22192.1	10452.8	4254.2	2202.6	1432.7	1189.0	1067.2	1018.5	1003.9
27971.6	45°	26802.1	23600.4	10467.4	3864.4	1915.1	1271.9	1086.7	984.4	955.1	935.6
30456.9	47.5°	28800.0	24799.2	10194.5	3445.3	1632.5	1150.1	1003.9	935.6	911.3	886.9
32951.9	50°	30661.6	25598.4	9536.7	2958.0	1408.3	1052.6	940.5	891.8	867.4	843.0
35213.0	52.5°	32108.9	25725.1	8450.0	2456.0	1252.4	979.5	901.5	857.7	828.4	804.1
37040.5	55°	32752.1	24930.8	6905.2	1988.2	1130.6	916.1	862.5	818.7	784.6	760.2
38478.0	57.5°	32586.4	23259.3	5384.8	1598.4	1013.6	852.8	813.8	784.6	745.6	706.6
39642.7	60°	31772.6	21022.6	4059.3	1330.4	906.4	784.6	760.2	735.8	682.2	623.8
40091.0	62.5°	30364.3	18210.8	2894.6	1101.3	789.4	706.6	696.9	677.4	599.4	492.2
39428.3	65°	28210.4	14794.7	1949.2	916.1	677.4	618.9	623.8	589.6	487.3	365.5
37001.5	67.5°	25062.4	10818.3	1247.5	750.5	565.3	516.5	521.4	501.9	414.2	311.9
32401.3	70°	21051.8	7163.5	813.8	570.2	453.2	399.6	428.8	433.7	350.9	253.4
24867.4	72.5°	15433.1	4229.9	570.2	424.0	331.4	277.8	350.9	360.6	282.6	190.1
14960.4	75°	8796.0	2007.7	428.8	307.0	204.7	194.9	272.9	272.9	194.9	126.7
6476.4	77.5°	3693.8	838.2	302.1	199.8	117.0	112.1	185.2	170.6	97.5	58.5
1578.9	80°	1067.2	375.2	160.8	97.5	48.7	43.9	73.1	53.6	24.4	9.7
599.4	82.5°	419.1	165.7	63.4	39.0	19.5	19.5	9.7	0.0	0.0	0.0
341.1	85°	248.5	68.2	29.2	14.6	4.9	0.0	0.0	0.0	0.0	0.0
73.1	87.5°	63.4	14.6	9.7	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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180°
8454.8
8396.4
8035.7
7007.5
5565.1
4341.9
3635.3
3143.2
2831.3
2607.1
2382.9
2153.9
1939.5
1754.3
1510.7
1306.0
1106.2
999.0
935.6
886.9
843.0
799.2
755.3
701.7
614.0
482.4
355.7
297.3
243.7
180.3
117.0
58.5
9.7
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