

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: P954671

Luminaire Tested: **GALN-SB7D-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56833 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

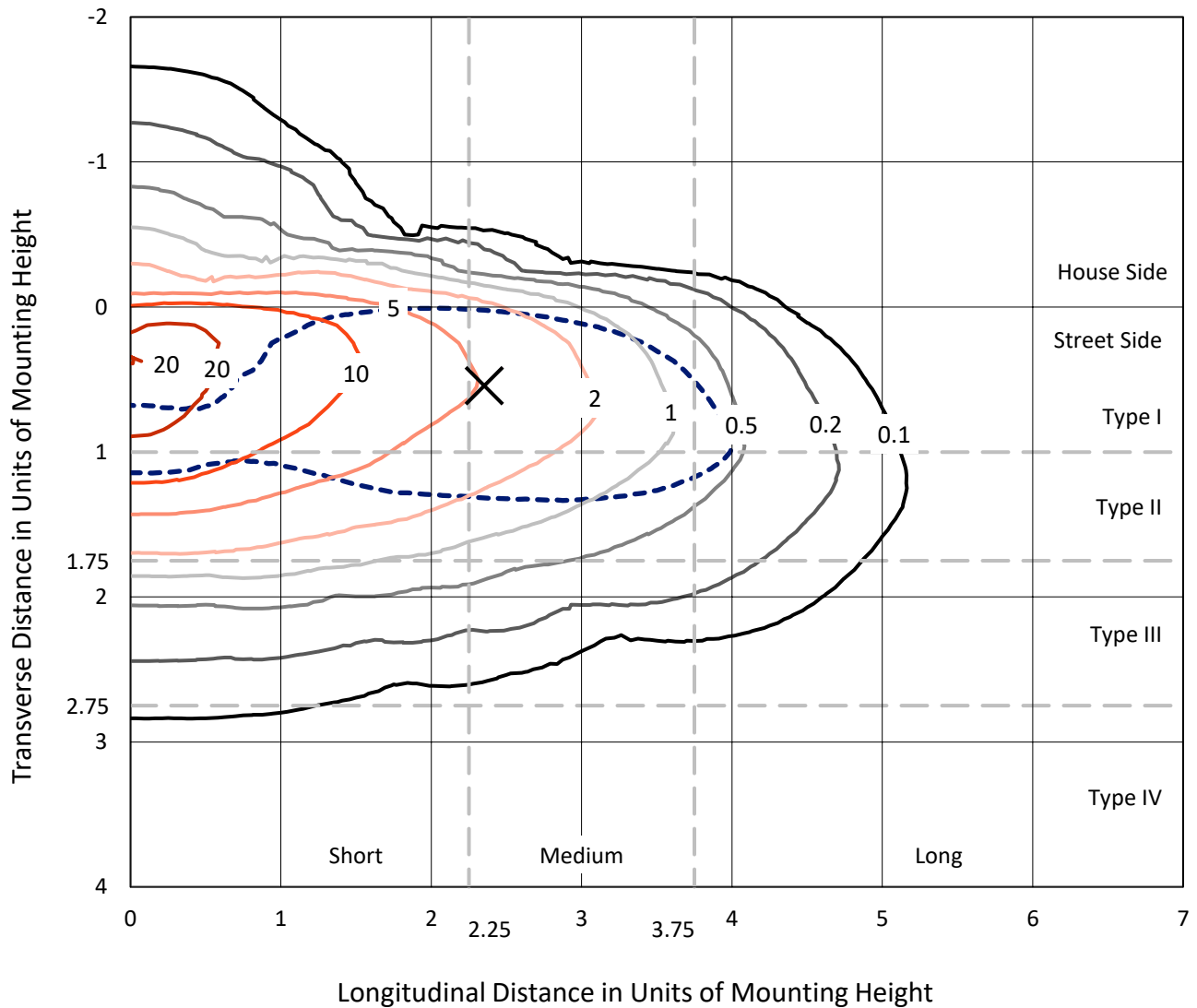
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

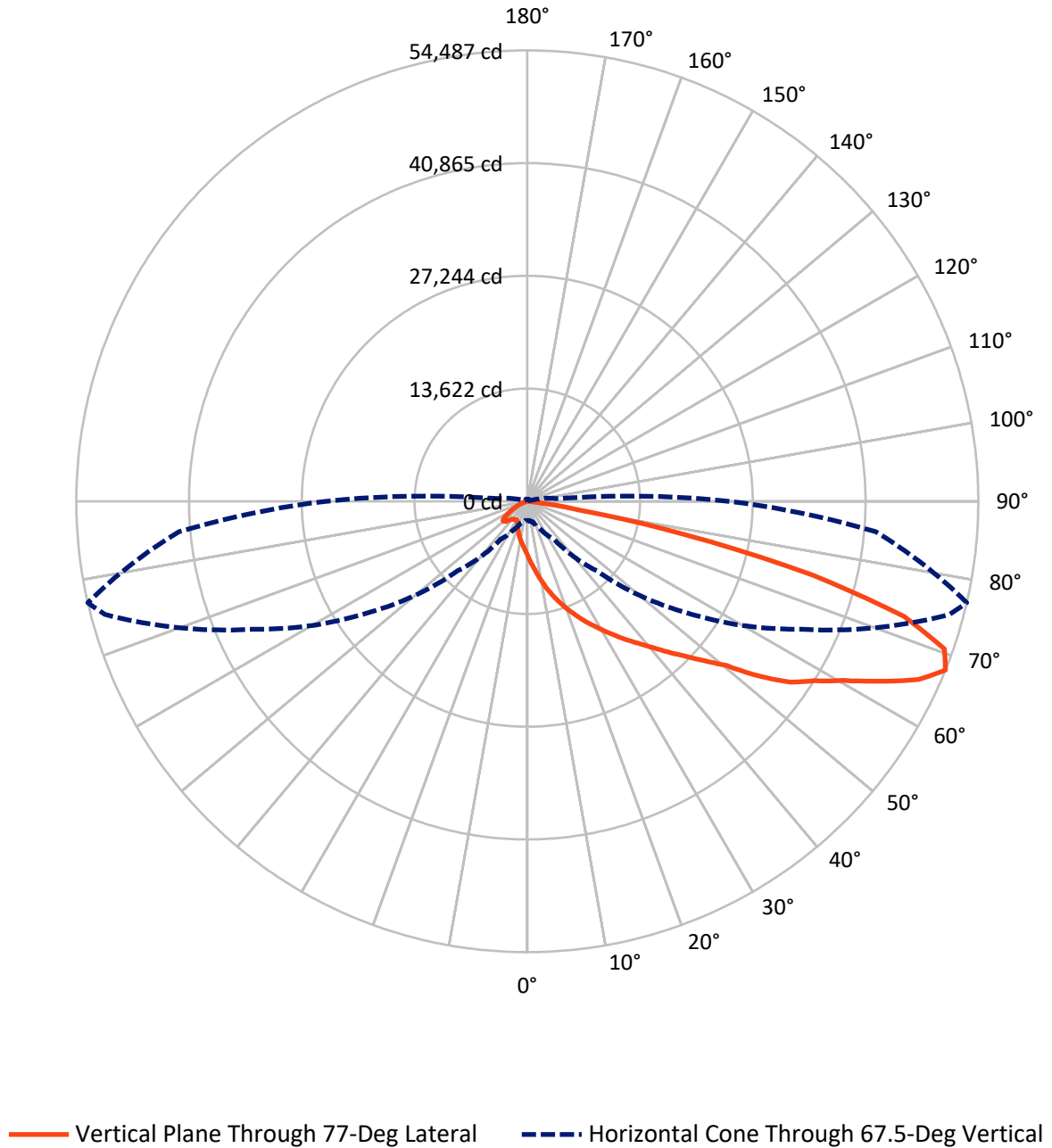
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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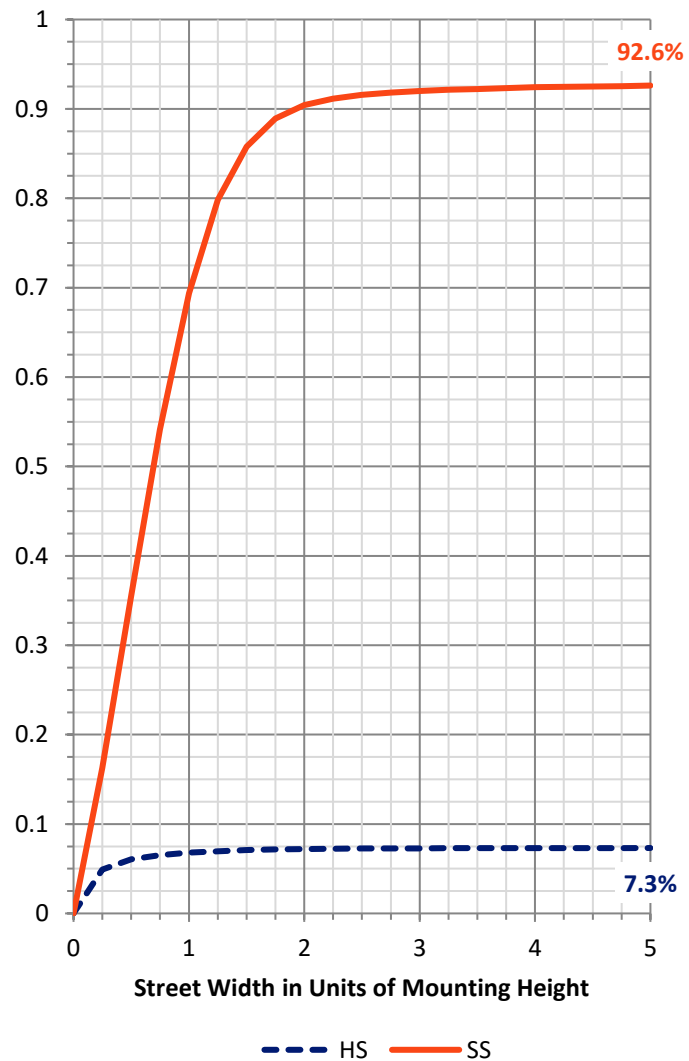
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4181.2	0.0	4181.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	52651.8	0.0	52651.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	56833.0	0.0	56833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.9	1.2
10°-20°	2342.4	4.1
20°-30°	4520.3	8.0
30°-40°	7847.5	13.8
40°-50°	11394.1	20.0
50°-60°	13084.7	23.0
60°-70°	11359.9	20.0
70°-80°	5350.6	9.4
80°-90°	264.6	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°	56833.0	100.0
0°-180°	56833.0	100.0

Coefficient of Utilization

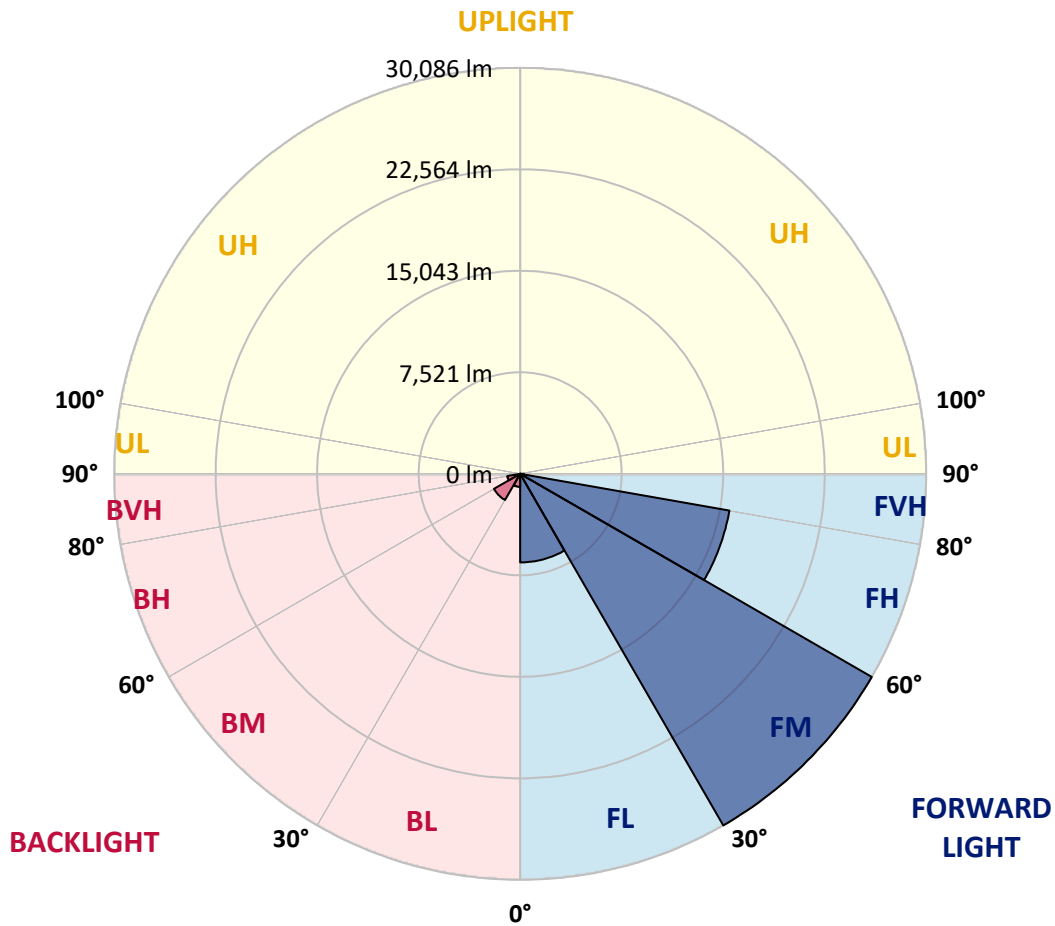


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6563.6	11.5			
FM (30°-60°)	30085.9	52.9			
FH (60°-80°)	15742.6	27.7			G5
FVH (80°-90°)	259.7	0.5			G3/500
BL (0°-30°)	968.0	1.7	B2/1000		
BM (30°-60°)	2240.4	3.9	B2/2500		
BH (60°-80°)	968.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.9	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-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7
2.5°	9073.5	9130.0	9048.8	8893.5	8660.6	8508.8	8138.3	7788.9	7400.7	7277.2
5°	11060.4	11109.8	11018.1	10848.7	10538.1	10241.7	9754.6	9024.1	8265.3	8021.8
7.5°	12532.1	12560.3	12525.0	12369.8	12073.3	11738.0	11194.5	10329.9	9204.1	8935.9
10°	13590.9	13682.6	13672.0	13612.0	13414.4	13142.7	12563.9	11579.2	10255.8	9909.9
12.5°	14293.2	14395.5	14455.5	14589.6	14579.0	14406.1	13897.9	12856.8	11304.0	10898.1
15°	14497.9	14607.3	14836.7	15147.2	15422.5	15510.7	15154.3	14109.6	12458.0	11939.2
17.5°	14381.4	14550.8	14826.1	15316.6	15920.1	16318.9	16280.1	15320.2	13506.2	12913.3
20°	14639.0	14801.4	15016.6	15429.6	16131.9	16855.3	17144.7	16477.7	14547.3	13926.1
22.5°	16064.8	16036.6	16057.8	16124.8	16544.8	17261.2	17857.6	17529.4	15577.8	14942.5
25°	18323.5	18196.4	17981.2	17617.6	17511.8	17857.6	18478.8	18461.1	16664.8	15983.6
27.5°	20913.9	20892.7	20388.1	19512.8	19018.7	18884.6	19181.1	19368.1	17741.2	17014.2
30°	23394.9	23451.4	22770.2	21796.2	20889.2	20363.3	20095.1	20229.2	18835.2	18125.8
32.5°	25554.8	25614.8	24873.6	23733.7	22611.4	21976.2	21411.5	21079.8	20028.1	19255.2
35°	27379.3	27439.3	26588.8	25328.9	24132.5	23557.3	22918.5	22011.5	21228.0	20508.0
37.5°	29009.8	28992.2	27852.3	26581.8	25406.5	24951.3	24616.0	23158.5	22463.2	21768.0
40°	29973.3	30047.4	29073.4	27672.3	26532.3	26200.6	26179.4	24580.7	23889.0	23214.9
42.5°	30255.6	30386.2	29680.4	28529.9	27495.8	27135.8	27689.9	26119.4	25547.7	24891.3
45°	29747.4	29874.5	29553.3	28755.7	28152.2	27919.3	28988.7	27714.6	27319.4	26670.0
47.5°	28265.2	28424.0	28501.6	28332.2	28325.2	28561.6	30153.3	29394.5	29422.7	28759.3
50°	25396.0	25664.2	26377.1	26977.0	27905.2	29069.8	31286.1	31215.6	31794.3	31222.6
52.5°	20179.8	20561.0	23017.3	24658.4	26744.1	28974.5	32531.9	34137.7	35955.2	35118.8
55°	16216.6	16216.6	18214.1	21284.5	24478.4	28346.3	33075.4	36036.4	38789.2	38591.5
57.5°	13220.3	13379.1	14653.1	17367.1	21199.8	26850.0	33410.7	37229.3	41072.6	40927.9
60°	8159.5	8501.8	10908.7	13587.3	17469.4	24185.4	33199.0	38436.3	43843.0	43959.4
62.5°	4595.0	4722.0	5794.9	9775.8	13583.8	20603.3	31579.1	39110.3	47386.2	47880.3
65°	3172.7	3236.3	3649.2	6084.3	9415.8	16403.6	28413.4	38690.4	50936.6	51935.4
67.5°	2304.6	2336.3	2593.9	3716.2	5586.7	11893.3	23451.4	36572.9	52817.7	54487.0
70°	1771.6	1792.8	1979.9	2442.2	3299.8	7340.7	17031.8	32362.5	51455.4	53449.4
72.5°	1439.9	1461.1	1605.8	1806.9	2188.1	4340.9	10322.8	26281.8	45441.7	47594.5
75°	1214.0	1242.3	1372.8	1503.4	1715.2	2788.0	4842.0	18302.3	34173.0	35584.7
77.5°	674.1	621.1	1115.2	1245.8	1447.0	1764.6	2265.7	10771.0	19138.7	19530.5
80°	420.0	434.1	885.8	1002.3	1111.7	889.4	1037.6	4146.8	6634.9	6303.1
82.5°	24.7	56.5	681.1	723.5	762.3	381.2	391.7	1408.1	1598.7	1468.1
85°	0.0	0.0	310.6	250.6	264.7	109.4	112.9	328.2	215.3	232.9
87.5°	0.0	0.0	0.0	7.1	0.0	10.6	21.2	28.2	10.6	14.1
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6553.7	0°	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7	6553.7
6889.0	2.5°	6641.9	6394.9	5893.7	5403.2	5004.4	4633.8	4369.1	4118.5	3991.5	3984.4
7333.6	5°	6843.1	6324.3	5322.0	4436.2	3723.3	3151.6	2781.0	2516.3	2382.2	2336.3
7880.7	7.5°	7125.4	6345.5	4820.9	3589.2	2749.2	2258.7	2046.9	1962.2	1934.0	1902.2
8498.3	10°	7481.9	6394.9	4372.6	2890.4	2166.9	1919.9	1835.2	1799.9	1778.7	1757.5
9193.5	12.5°	7880.7	6440.7	3928.0	2399.8	1905.8	1778.7	1718.7	1676.4	1648.1	1623.4
9906.4	15°	8268.9	6469.0	3465.7	2057.5	1771.6	1669.3	1605.8	1559.9	1521.1	1492.8
10605.2	17.5°	8653.5	6507.8	3031.6	1852.8	1662.2	1559.9	1496.4	1439.9	1408.1	1376.4
11339.2	20°	9080.6	6500.7	2622.2	1708.1	1552.8	1450.5	1383.4	1330.5	1298.7	1263.4
12115.7	22.5°	9475.8	6465.5	2262.2	1584.6	1439.9	1341.1	1267.0	1214.0	1182.3	1154.0
12909.7	25°	9931.1	6437.2	1962.2	1471.7	1334.0	1235.2	1154.0	1104.6	1069.3	1044.6
13707.3	27.5°	10368.7	6394.9	1743.4	1369.3	1231.7	1136.4	1058.8	1002.3	970.5	952.9
14529.6	30°	10799.3	6384.3	1662.2	1270.5	1139.9	1044.6	967.0	914.1	889.4	882.3
15433.1	32.5°	11318.1	6412.5	1697.5	1235.2	1055.2	959.9	885.8	847.0	822.3	822.3
16438.9	35°	11872.1	6405.5	1750.5	1267.0	998.8	875.2	818.8	794.1	769.4	769.4
17554.1	37.5°	12567.4	6416.0	1792.8	1319.9	977.6	804.7	772.9	741.1	727.0	727.0
18775.2	40°	13605.0	6765.4	1771.6	1365.8	970.5	755.2	691.7	681.1	670.5	670.5
20155.1	42.5°	14875.5	7524.2	1799.9	1369.3	967.0	720.0	635.3	656.4	631.7	628.2
21711.5	45°	16266.0	8353.6	1979.9	1295.2	963.5	702.3	607.0	631.7	592.9	592.9
23514.9	47.5°	17645.9	9175.9	2163.4	1189.3	952.9	698.8	582.3	568.2	557.6	561.1
25865.3	50°	19548.1	9846.4	2234.0	1044.6	928.2	691.7	536.4	540.0	532.9	540.0
29179.2	52.5°	21619.7	9987.6	2149.3	882.3	857.6	670.5	504.7	518.8	515.3	522.3
31512.0	55°	22911.4	9835.8	1775.2	734.1	748.2	585.8	472.9	501.1	501.1	501.1
33791.9	57.5°	24245.4	9190.0	1259.9	596.4	621.1	480.0	444.7	483.5	480.0	476.4
36537.6	60°	25205.4	8145.3	829.4	490.6	494.1	395.3	412.9	455.3	451.7	434.1
39368.0	62.5°	25921.8	6991.3	532.9	416.4	377.6	356.4	377.6	412.9	398.8	360.0
41767.8	65°	25840.6	5392.6	409.4	356.4	310.6	310.6	328.2	360.0	317.6	254.1
42226.6	67.5°	24333.7	3649.2	338.8	300.0	261.2	257.6	271.7	300.0	271.7	215.3
39876.2	70°	21640.9	2385.7	271.7	232.9	208.2	190.6	218.8	257.6	229.4	172.9
33947.1	72.5°	17564.7	1454.0	204.7	169.4	151.8	123.5	172.9	211.8	183.5	127.1
23606.7	75°	11363.9	741.1	141.2	109.4	81.2	74.1	127.1	158.8	127.1	77.6
10474.6	77.5°	4347.9	310.6	77.6	49.4	42.4	35.3	70.6	95.3	52.9	17.6
2029.3	80°	836.4	130.6	38.8	24.7	21.2	14.1	10.6	7.1	0.0	0.0
360.0	82.5°	144.7	42.4	14.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
70.6	85°	49.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.7	87.5°	17.6	0.0	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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180°
6553.7
3977.4
2329.3
1895.2
1750.5
1616.4
1489.3
1372.8
1259.9
1150.5
1041.1
952.9
878.8
822.3
769.4
727.0
670.5
624.7
592.9
561.1
540.0
522.3
501.1
476.4
434.1
352.9
247.0
208.2
165.9
120.0
67.1
14.1
0.0
0.0
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0.0
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