

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: P953837

Luminaire Tested: **GALN-SB7B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30847 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

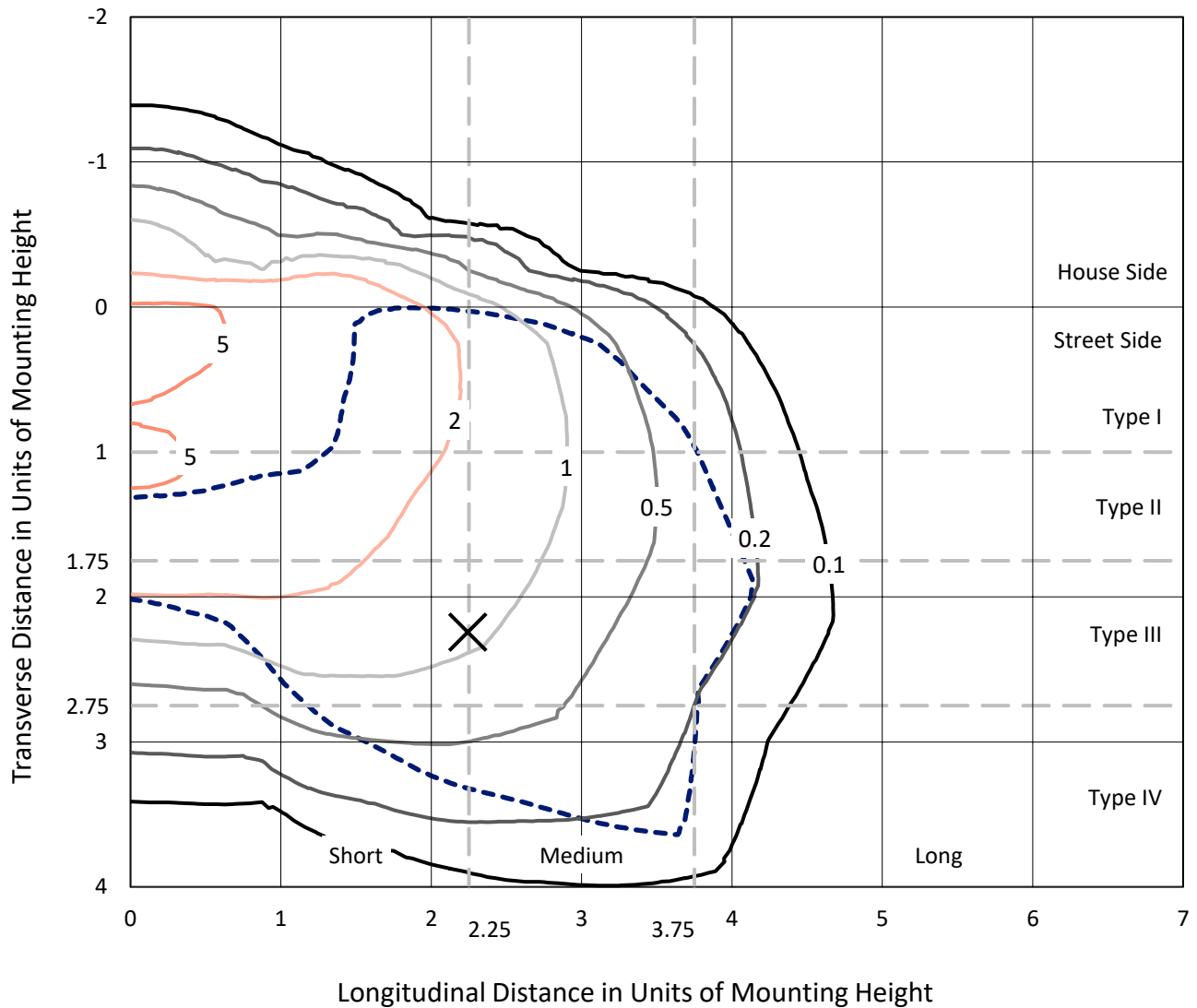
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

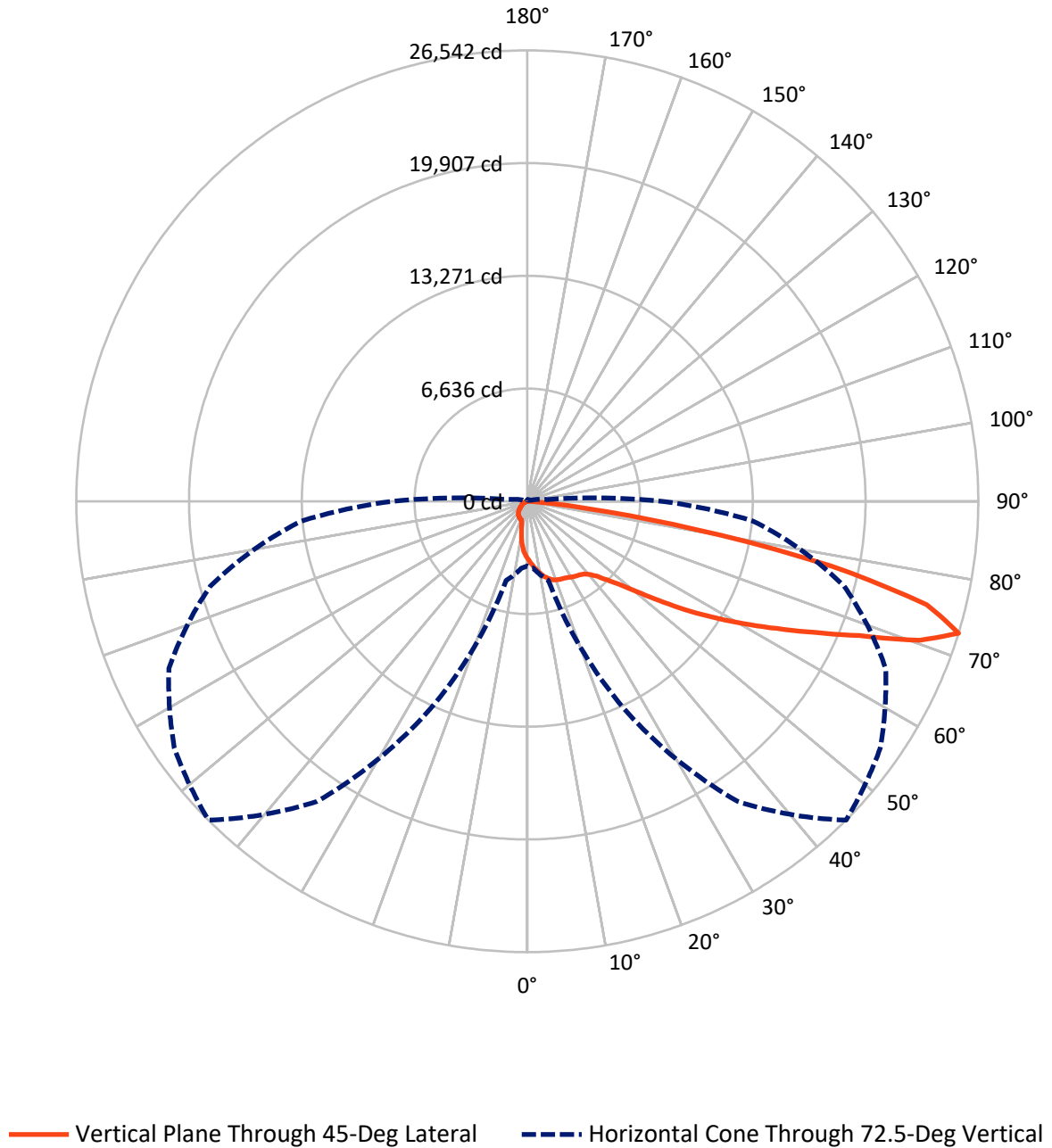
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.2	0.0	3241.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27605.8	0.0	27605.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	30847.0	0.0	30847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.0
10°-20°	930.6	3.0
20°-30°	1528.1	5.0
30°-40°	2167.2	7.0
40°-50°	3582.2	11.6
50°-60°	6435.0	20.9
60°-70°	8935.4	29.0
70°-80°	6481.5	21.0
80°-90°	468.6	1.5
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°	30847.0	100.0
0°-180°	30847.0	100.0

Coefficient of Utilization



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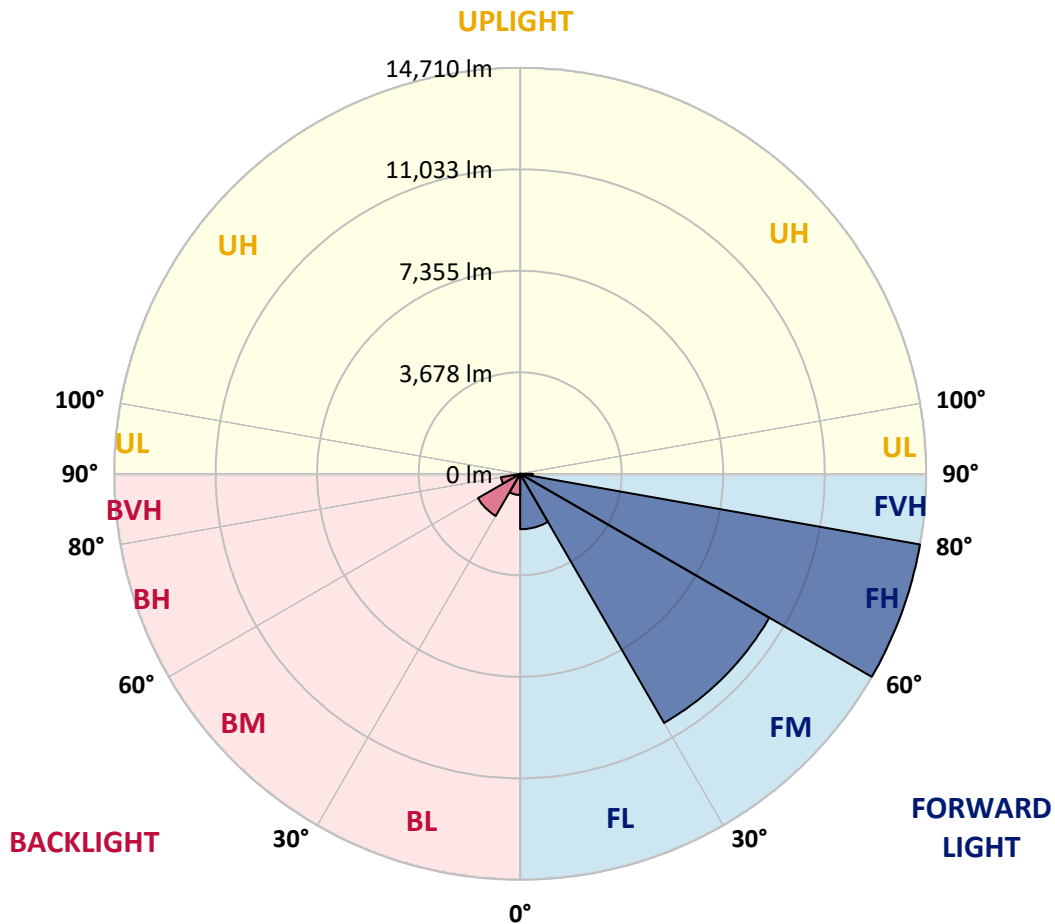
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.4	6.5			
FM (30°-60°)	10421.8	33.8			
FH (60°-80°)	14710.1	47.7			G5
FVH (80°-90°)	464.6	1.5			G3/500
BL (0°-30°)	767.7	2.5	B2/1000		
BM (30°-60°)	1762.7	5.7	B2/2500		
BH (60°-80°)	706.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
2.5°	3691.0	3697.3	3693.1	3667.8	3625.7	3602.5	3589.9	3547.8	3520.4	3472.0
5°	4030.0	4055.2	4040.5	3990.0	3909.9	3853.1	3836.3	3749.9	3672.0	3581.5
7.5°	4390.0	4402.6	4375.3	4310.0	4202.6	4105.8	4091.0	3971.0	3846.8	3707.8
10°	4701.6	4716.4	4674.2	4579.5	4457.4	4337.4	4316.3	4183.7	4036.3	3865.7
12.5°	4962.7	4977.4	4922.7	4809.0	4674.2	4550.0	4529.0	4390.0	4227.9	4038.4
15°	5160.6	5188.0	5114.3	4992.2	4846.9	4722.7	4712.1	4575.3	4417.4	4206.8
17.5°	5276.4	5303.8	5234.3	5086.9	4962.7	4857.4	4844.8	4731.1	4583.7	4381.6
20°	5295.4	5320.6	5246.9	5118.5	5015.3	4931.1	4924.8	4842.7	4735.3	4541.6
22.5°	5238.5	5270.1	5202.7	5099.6	5028.0	4983.8	4975.3	4929.0	4868.0	4703.7
25°	5179.6	5204.8	5154.3	5063.8	5025.9	5021.7	5028.0	5019.6	5006.9	4868.0
27.5°	5175.4	5202.7	5145.9	5059.6	5038.5	5082.7	5089.0	5129.0	5139.6	5017.4
30°	5211.2	5230.1	5175.4	5084.8	5074.3	5175.4	5177.5	5249.1	5265.9	5143.8
32.5°	5289.1	5310.1	5255.4	5122.7	5108.0	5249.1	5255.4	5350.1	5377.5	5278.5
35°	5472.2	5497.5	5434.3	5228.0	5175.4	5318.5	5337.5	5449.1	5503.8	5421.7
37.5°	5929.1	5855.4	5769.1	5440.7	5329.1	5428.0	5459.6	5590.1	5687.0	5592.3
40°	7064.0	6832.4	6562.9	5802.8	5598.6	5661.7	5687.0	5817.5	5950.2	5857.5
42.5°	8767.4	8493.7	8059.9	6636.6	6004.9	6036.5	6055.5	6169.2	6356.6	6282.9
45°	10285.4	10186.5	9744.3	8059.9	6765.0	6609.2	6632.4	6691.3	6967.2	6939.8
47.5°	11451.9	11395.1	11054.0	9693.8	8049.4	7310.4	7375.6	7403.0	7800.9	7897.8
50°	12348.9	12327.8	12022.5	11146.6	9727.5	8344.2	8367.3	8308.4	8904.2	9144.3
52.5°	13195.3	13266.9	13041.6	12496.2	11519.3	9698.0	9693.8	9415.9	10220.2	10582.3
55°	13959.6	13984.8	14008.0	13873.3	13321.6	11239.2	11199.2	10744.5	11746.7	12121.5
57.5°	14677.6	14688.1	14894.4	15170.2	15197.6	12894.2	12820.5	12275.2	13414.2	13681.6
60°	15159.7	15208.1	15644.0	16410.4	16745.2	14601.8	14561.8	14005.9	15111.3	15235.5
62.5°	14464.9	14759.7	15858.8	17378.9	18206.4	16494.6	16475.7	15953.5	16896.8	16795.7
65°	11708.8	12207.8	14140.7	18033.8	19640.3	18608.6	18635.9	18080.1	18730.7	18402.2
67.5°	8190.5	8716.8	11003.4	18086.4	21242.6	21091.0	21248.9	20377.2	20678.3	19941.3
70°	5663.8	5935.5	7424.1	16953.6	22491.1	24510.3	24506.1	23198.6	22615.4	20642.5
72.5°	3808.9	3949.9	4821.6	13450.0	21573.1	26542.1	26420.0	25354.6	23268.1	19305.5
75°	1606.5	1709.7	2231.8	7558.8	17067.3	24282.9	23952.4	22406.9	20674.1	15201.8
77.5°	509.5	553.8	880.1	2705.6	9401.1	18252.7	17903.2	13993.3	13856.4	7626.2
80°	242.1	282.1	494.8	1086.4	3699.4	9927.5	9879.1	6348.1	5960.7	2059.2
82.5°	105.3	124.2	273.7	581.1	1654.9	3541.5	3613.1	2160.3	1787.6	781.1
85°	33.7	44.2	126.3	267.4	699.0	880.1	869.6	513.7	720.1	425.3
87.5°	0.0	0.0	42.1	61.1	71.6	50.5	56.8	44.2	200.0	117.9
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°
3379.4	0°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
3421.5	2.5°	3396.2	3362.5	3303.6	3248.8	3200.4	3152.0	3122.5	3080.4	3076.2	3076.2
3476.2	5°	3419.4	3364.6	3259.3	3147.7	3019.3	2897.2	2775.1	2657.2	2619.3	2591.9
3564.6	7.5°	3486.7	3400.4	3234.1	3021.4	2777.2	2509.8	2322.4	2120.3	2042.4	2000.2
3682.5	10°	3583.6	3465.7	3213.0	2840.3	2444.5	2080.3	1812.8	1593.9	1509.7	1473.9
3811.0	12.5°	3691.0	3545.7	3175.1	2615.1	2080.3	1644.4	1383.3	1282.3	1269.6	1269.6
3964.7	15°	3819.4	3642.5	3109.8	2349.8	1699.2	1301.2	1208.6	1212.8	1225.4	1233.8
4114.2	17.5°	3952.1	3745.7	3006.7	2052.9	1362.3	1170.7	1172.8	1179.1	1189.6	1198.0
4276.3	20°	4095.2	3848.9	2869.8	1737.1	1168.6	1132.8	1139.1	1145.4	1153.8	1158.0
4427.9	22.5°	4248.9	3945.7	2707.7	1427.5	1103.3	1101.2	1103.3	1109.6	1120.1	1120.1
4604.8	25°	4413.2	4053.1	2522.4	1202.3	1069.6	1069.6	1073.8	1078.0	1086.4	1086.4
4775.3	27.5°	4581.6	4152.1	2326.6	1084.3	1040.1	1038.0	1038.0	1044.3	1048.5	1050.7
4943.8	30°	4766.9	4267.9	2130.8	1059.1	1017.0	1006.4	1000.1	1004.3	1008.5	1010.6
5120.6	32.5°	4956.4	4379.5	1956.0	1069.6	993.8	974.9	953.8	949.6	949.6	958.0
5303.8	35°	5166.9	4501.6	1821.3	1105.4	981.2	928.5	894.8	875.9	878.0	890.6
5522.8	37.5°	5419.6	4649.0	1722.3	1137.0	972.7	875.9	821.2	798.0	783.3	798.0
5823.9	40°	5750.2	4865.8	1650.7	1162.2	962.2	814.8	741.1	703.2	675.9	684.3
6291.3	42.5°	6236.5	5206.9	1623.4	1164.4	939.1	743.2	659.0	608.5	568.5	570.6
6994.5	45°	6918.7	5746.0	1764.4	1137.0	888.5	665.3	572.7	505.3	480.1	473.7
8045.2	47.5°	7853.6	6531.3	2090.8	1080.1	814.8	589.5	488.5	431.6	412.7	402.2
9424.3	50°	9106.4	7539.9	2452.9	1017.0	741.1	518.0	419.0	383.2	370.6	360.0
11060.3	52.5°	10559.2	8563.1	2749.8	953.8	667.4	454.8	374.8	353.7	343.2	334.8
12639.4	55°	11892.0	9268.5	2733.0	886.4	595.9	404.3	343.2	330.6	317.9	309.5
13999.6	57.5°	12721.5	9367.4	2252.9	812.7	513.7	364.3	313.7	305.3	290.6	280.0
15176.6	60°	13102.6	8803.2	1579.1	715.9	431.6	326.4	282.1	277.9	259.0	244.2
16290.4	62.5°	13172.1	7754.6	1052.8	595.9	360.0	290.6	250.6	244.2	219.0	193.7
17195.8	65°	12890.0	6255.5	728.5	465.3	307.4	252.7	214.8	202.1	174.8	149.5
17410.5	67.5°	11997.2	4392.1	507.4	334.8	261.1	200.0	170.5	166.3	145.3	124.2
16315.6	70°	10361.2	2503.5	339.0	250.6	206.3	136.9	134.8	139.0	117.9	101.1
13330.0	72.5°	7944.1	1145.4	210.6	183.2	141.1	92.6	107.4	109.5	90.5	75.8
8316.8	75°	4676.4	490.6	132.6	117.9	71.6	61.1	77.9	80.0	61.1	48.4
3040.4	77.5°	1591.8	185.3	84.2	69.5	35.8	33.7	50.5	50.5	33.7	18.9
610.6	80°	362.1	69.5	42.1	27.4	16.8	14.7	16.8	14.7	8.4	2.1
187.4	82.5°	103.2	27.4	16.8	10.5	6.3	6.3	2.1	0.0	0.0	0.0
65.3	85°	29.5	12.6	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
23.2	87.5°	12.6	2.1	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°
3379.4
3086.7
2604.5
2006.6
1473.9
1269.6
1233.8
1198.0
1160.1
1124.3
1088.6
1052.8
1014.9
964.3
897.0
793.8
680.1
562.2
465.3
395.8
357.9
332.7
305.3
277.9
240.0
181.1
141.1
117.9
92.6
67.4
42.1
14.7
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