

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: P950372

Luminaire Tested: **GALN-SB4D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950372
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-SB4D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA 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: 28228 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

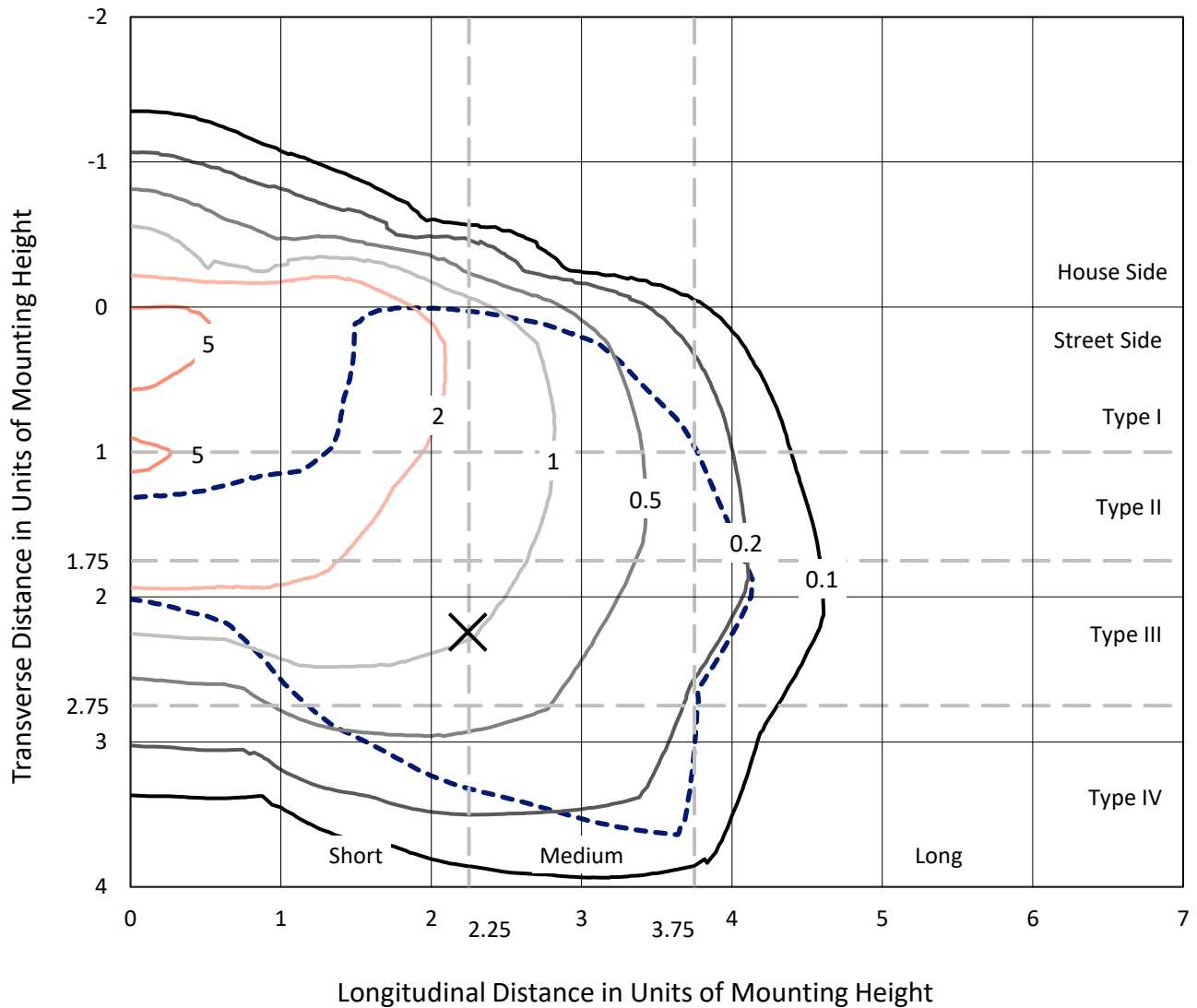
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

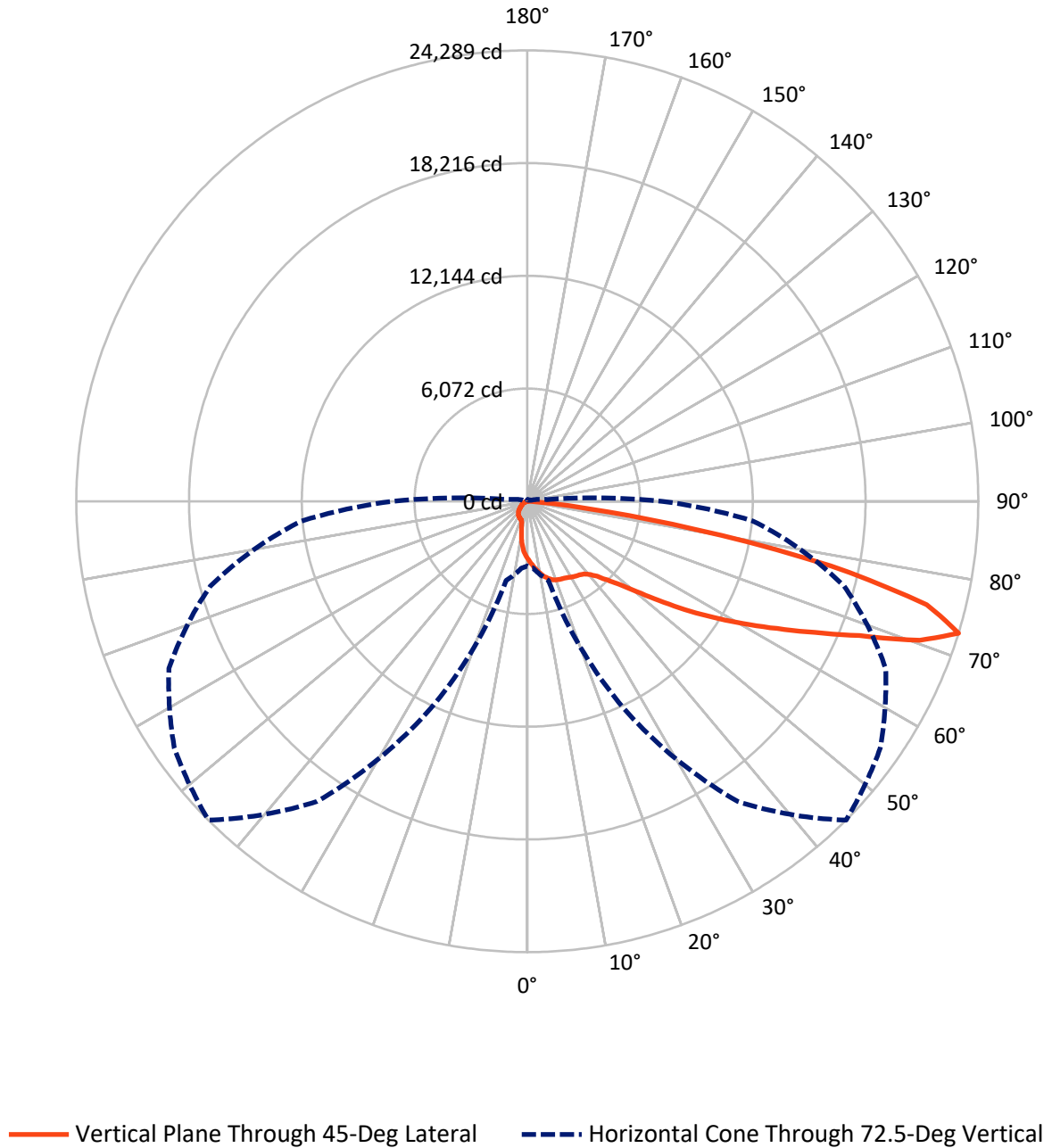
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2966.0	0.0	2966.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25262.0	0.0	25262.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	28228.0	0.0	28228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.0
10°-20°	851.5	3.0
20°-30°	1398.4	5.0
30°-40°	1983.2	7.0
40°-50°	3278.1	11.6
50°-60°	5888.7	20.9
60°-70°	8176.8	29.0
70°-80°	5931.2	21.0
80°-90°	428.8	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°	28228.0	100.0
0°-180°	28228.0	100.0

Coefficient of Utilization



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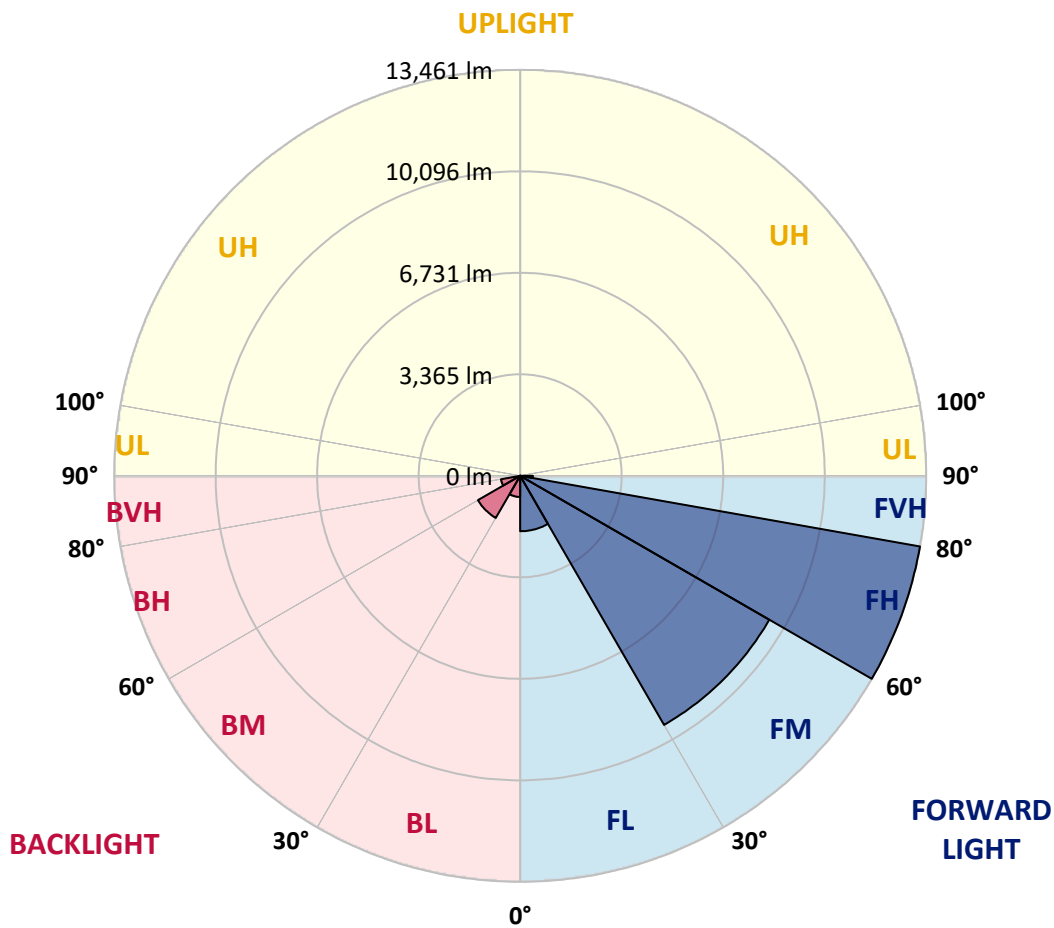
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.8	6.5			
FM (30°-60°)	9536.9	33.8			
FH (60°-80°)	13461.1	47.7			G5
FVH (80°-90°)	425.2	1.5			G3/500
BL (0°-30°)	702.5	2.5	B2/1000		
BM (30°-60°)	1613.1	5.7	B2/2500		
BH (60°-80°)	646.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
2.5°	3377.6	3383.4	3379.5	3356.4	3317.9	3296.7	3285.1	3246.6	3221.5	3177.2
5°	3687.8	3710.9	3697.4	3651.2	3578.0	3526.0	3510.5	3431.5	3360.3	3277.4
7.5°	4017.3	4028.8	4003.8	3944.1	3845.8	3757.2	3743.7	3633.9	3520.2	3393.0
10°	4302.4	4315.9	4277.4	4190.7	4078.9	3969.1	3949.8	3828.5	3693.6	3537.5
12.5°	4541.4	4554.8	4504.7	4400.7	4277.4	4163.7	4144.4	4017.3	3868.9	3695.5
15°	4722.5	4747.5	4680.1	4568.3	4435.4	4321.7	4312.1	4186.8	4042.3	3849.7
17.5°	4828.4	4853.5	4789.9	4655.0	4541.4	4445.0	4433.5	4329.4	4194.5	4009.6
20°	4845.8	4868.9	4801.5	4683.9	4589.5	4512.5	4506.7	4431.5	4333.3	4156.0
22.5°	4793.8	4822.7	4761.0	4666.6	4601.1	4560.6	4552.9	4510.5	4454.7	4304.4
25°	4739.8	4762.9	4716.7	4633.8	4599.2	4595.3	4601.1	4593.4	4581.8	4454.7
27.5°	4736.0	4761.0	4709.0	4630.0	4610.7	4651.2	4657.0	4693.6	4703.2	4591.5
30°	4768.7	4786.1	4736.0	4653.1	4643.5	4736.0	4737.9	4803.4	4818.8	4707.1
32.5°	4840.0	4859.3	4809.2	4687.8	4674.3	4803.4	4809.2	4895.9	4920.9	4830.4
35°	5007.6	5030.8	4972.9	4784.1	4736.0	4867.0	4884.3	4986.4	5036.5	4961.4
37.5°	5425.7	5358.3	5279.3	4978.7	4876.6	4967.2	4996.1	5115.5	5204.2	5117.5
40°	6464.3	6252.3	6005.7	5310.1	5123.2	5181.0	5204.2	5323.6	5445.0	5360.2
42.5°	8023.0	7772.5	7375.6	6073.1	5495.1	5524.0	5541.3	5645.4	5816.9	5749.4
45°	9412.2	9321.6	8917.0	7375.6	6190.7	6048.1	6069.3	6123.2	6375.6	6350.6
47.5°	10479.6	10427.6	10115.4	8870.8	7366.0	6689.7	6749.4	6774.5	7138.6	7227.2
50°	11300.4	11281.1	11001.8	10200.2	8901.6	7635.7	7656.9	7603.0	8148.2	8367.9
52.5°	12075.0	12140.5	11934.3	11435.3	10541.3	8874.6	8870.8	8616.4	9352.5	9683.9
55°	12774.4	12797.5	12818.7	12695.4	12190.6	10285.0	10248.4	9832.2	10749.4	11092.3
57.5°	13431.4	13441.0	13629.8	13882.3	13907.3	11799.4	11732.0	11233.0	12275.3	12520.0
60°	13872.6	13916.9	14315.8	15017.1	15323.5	13362.0	13325.4	12816.8	13828.3	13942.0
62.5°	13236.8	13506.5	14512.3	15903.4	16660.6	15094.2	15076.8	14599.0	15462.2	15369.7
65°	10714.7	11171.3	12940.1	16502.6	17972.7	17028.6	17053.7	16545.0	17140.4	16839.8
67.5°	7495.1	7976.8	10069.2	16550.8	19439.0	19300.3	19444.8	18647.1	18922.6	18248.3
70°	5183.0	5431.5	6793.7	15514.2	20581.6	22429.3	22425.5	21229.0	20695.2	18889.9
72.5°	3485.5	3614.6	4412.3	12308.1	19741.5	24288.6	24176.9	23202.0	21292.5	17666.4
75°	1470.1	1564.5	2042.4	6917.0	15618.3	22221.2	21918.7	20504.5	18918.8	13911.2
77.5°	466.3	506.7	805.4	2475.9	8602.9	16703.0	16383.2	12805.2	12680.0	6978.7
80°	221.6	258.2	452.8	994.2	3385.3	9084.6	9040.3	5809.2	5454.6	1884.4
82.5°	96.3	113.7	250.5	531.8	1514.4	3240.8	3306.3	1976.8	1635.8	714.8
85°	30.8	40.5	115.6	244.7	639.7	805.4	795.7	470.1	658.9	389.2
87.5°	0.0	0.0	38.5	55.9	65.5	46.2	52.0	40.5	183.0	107.9
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°
3092.4	0°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
3131.0	2.5°	3107.9	3077.0	3023.1	2973.0	2928.7	2884.3	2857.4	2818.8	2815.0	2815.0
3181.1	5°	3129.0	3079.0	2982.6	2880.5	2763.0	2651.2	2539.5	2431.6	2396.9	2371.8
3262.0	7.5°	3190.7	3111.7	2959.5	2764.9	2541.4	2296.7	2125.2	1940.2	1868.9	1830.4
3369.9	10°	3279.3	3171.4	2940.2	2599.2	2237.0	1903.6	1658.9	1458.6	1381.5	1348.7
3487.4	12.5°	3377.6	3244.7	2905.5	2393.0	1903.6	1504.8	1265.9	1173.4	1161.8	1161.8
3628.1	15°	3495.1	3333.3	2845.8	2150.3	1554.9	1190.7	1106.0	1109.8	1121.4	1129.1
3764.9	17.5°	3616.5	3427.7	2751.4	1878.6	1246.6	1071.3	1073.2	1079.0	1088.6	1096.3
3913.2	20°	3747.5	3522.1	2626.2	1589.6	1069.3	1036.6	1042.4	1048.2	1055.9	1059.7
4052.0	22.5°	3888.2	3610.7	2477.8	1306.3	1009.6	1007.7	1009.6	1015.4	1025.0	1025.0
4213.8	25°	4038.5	3709.0	2308.2	1100.2	978.8	978.8	982.6	986.5	994.2	994.2
4369.9	27.5°	4192.6	3799.6	2129.1	992.3	951.8	949.9	949.9	955.7	959.5	961.4
4524.0	30°	4362.2	3905.5	1949.9	969.2	930.6	921.0	915.2	919.1	922.9	924.8
4685.9	32.5°	4535.6	4007.6	1790.0	978.8	909.4	892.1	872.8	869.0	869.0	876.7
4853.5	35°	4728.3	4119.4	1666.6	1011.5	897.9	849.7	818.9	801.5	803.5	815.0
5053.9	37.5°	4959.5	4254.3	1576.1	1040.4	890.2	801.5	751.4	730.2	716.8	730.2
5329.4	40°	5262.0	4452.7	1510.6	1063.6	880.5	745.7	678.2	643.5	618.5	626.2
5757.1	42.5°	5707.0	4764.9	1485.5	1065.5	859.3	680.1	603.1	556.8	520.2	522.1
6400.7	45°	6331.3	5258.1	1614.6	1040.4	813.1	608.9	524.1	462.4	439.3	433.5
7362.1	47.5°	7186.8	5976.8	1913.3	988.4	745.7	539.5	447.0	395.0	377.6	368.0
8624.1	50°	8333.2	6899.7	2244.7	930.6	678.2	474.0	383.4	350.7	339.1	329.5
10121.2	52.5°	9662.7	7836.1	2516.3	872.8	610.8	416.2	343.0	323.7	314.1	306.4
11566.3	55°	10882.3	8481.6	2500.9	811.2	545.3	369.9	314.1	302.5	290.9	283.2
12811.0	57.5°	11641.4	8572.1	2061.6	743.7	470.1	333.3	287.1	279.4	265.9	256.3
13888.0	60°	11990.2	8055.8	1445.1	655.1	395.0	298.6	258.2	254.3	237.0	223.5
14907.3	62.5°	12053.8	7096.2	963.4	545.3	329.5	265.9	229.3	223.5	200.4	177.3
15735.8	65°	11795.6	5724.4	666.7	425.8	281.3	231.2	196.5	185.0	159.9	136.8
15932.3	67.5°	10978.6	4019.2	464.3	306.4	238.9	183.0	156.1	152.2	132.9	113.7
14930.4	70°	9481.5	2290.9	310.2	229.3	188.8	125.2	123.3	127.2	107.9	92.5
12198.3	72.5°	7269.6	1048.2	192.7	167.6	129.1	84.8	98.3	100.2	82.9	69.4
7610.7	75°	4279.3	448.9	121.4	107.9	65.5	55.9	71.3	73.2	55.9	44.3
2782.2	77.5°	1456.6	169.6	77.1	63.6	32.8	30.8	46.2	46.2	30.8	17.3
558.8	80°	331.4	63.6	38.5	25.0	15.4	13.5	15.4	13.5	7.7	1.9
171.5	82.5°	94.4	25.0	15.4	9.6	5.8	5.8	1.9	0.0	0.0	0.0
59.7	85°	27.0	11.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.2	87.5°	11.6	1.9	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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<u>180°</u>
3092.4
2824.6
2383.4
1836.2
1348.7
1161.8
1129.1
1096.3
1061.6
1028.9
996.1
963.4
928.7
882.5
820.8
726.4
622.3
514.4
425.8
362.2
327.5
304.4
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