

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: P955370

Luminaire Tested: **GALN-SB8B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955370
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-SB8B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 31516 lumens
Efficiency: N/A
Efficacy: 107.6 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

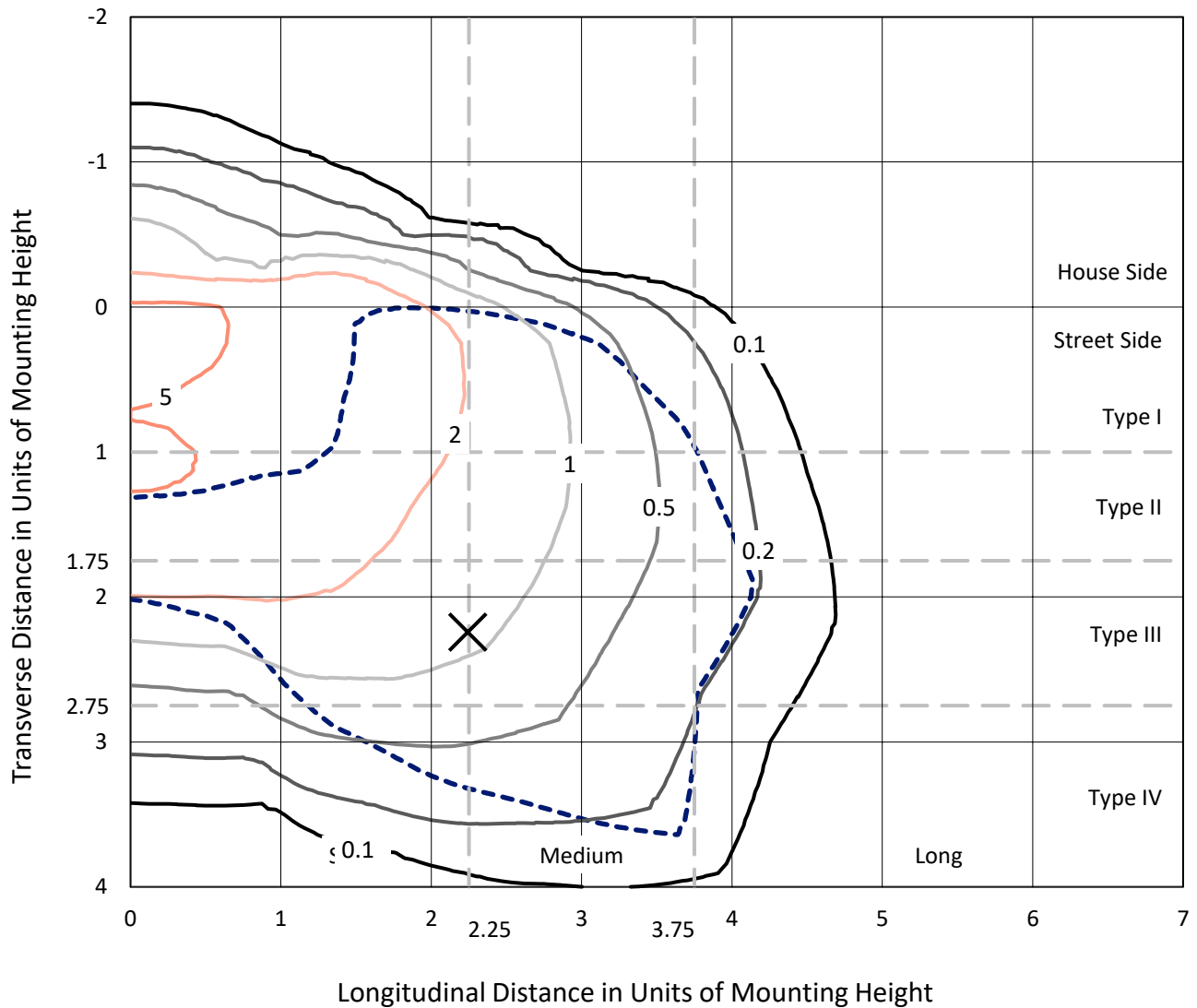
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955370
 CATALOG NUMBER: GALN-SB8B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

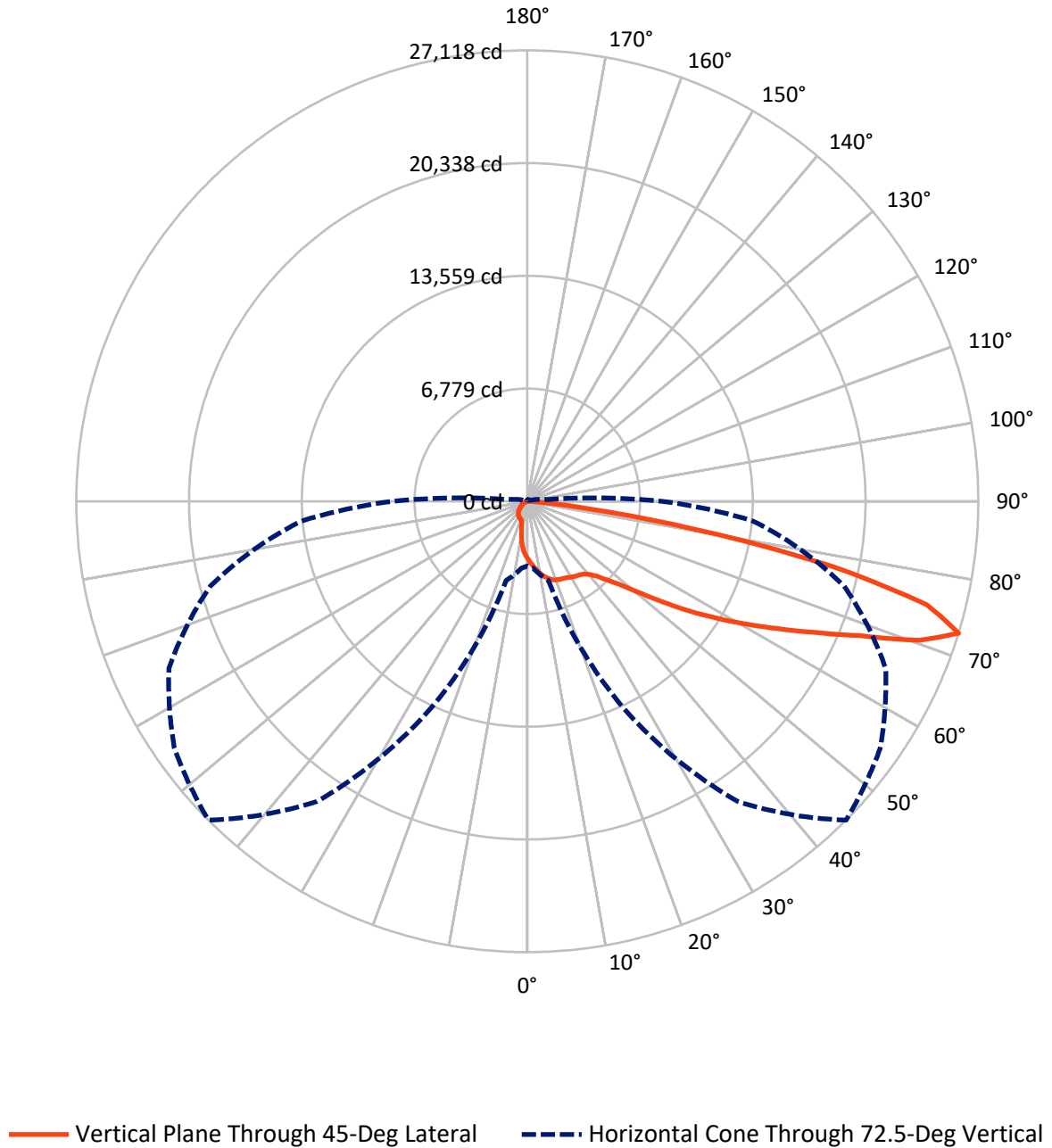
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P955370
CATALOG NUMBER: GALN-SB8B-830-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3311.5	0.0	3311.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28204.5	0.0	28204.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	31516.0	0.0	31516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	1.0
10°-20°	950.7	3.0
20°-30°	1561.3	5.0
30°-40°	2214.2	7.0
40°-50°	3659.9	11.6
50°-60°	6574.6	20.9
60°-70°	9129.2	29.0
70°-80°	6622.0	21.0
80°-90°	478.8	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°	31516.0	100.0
0°-180°	31516.0	100.0

Coefficient of Utilization



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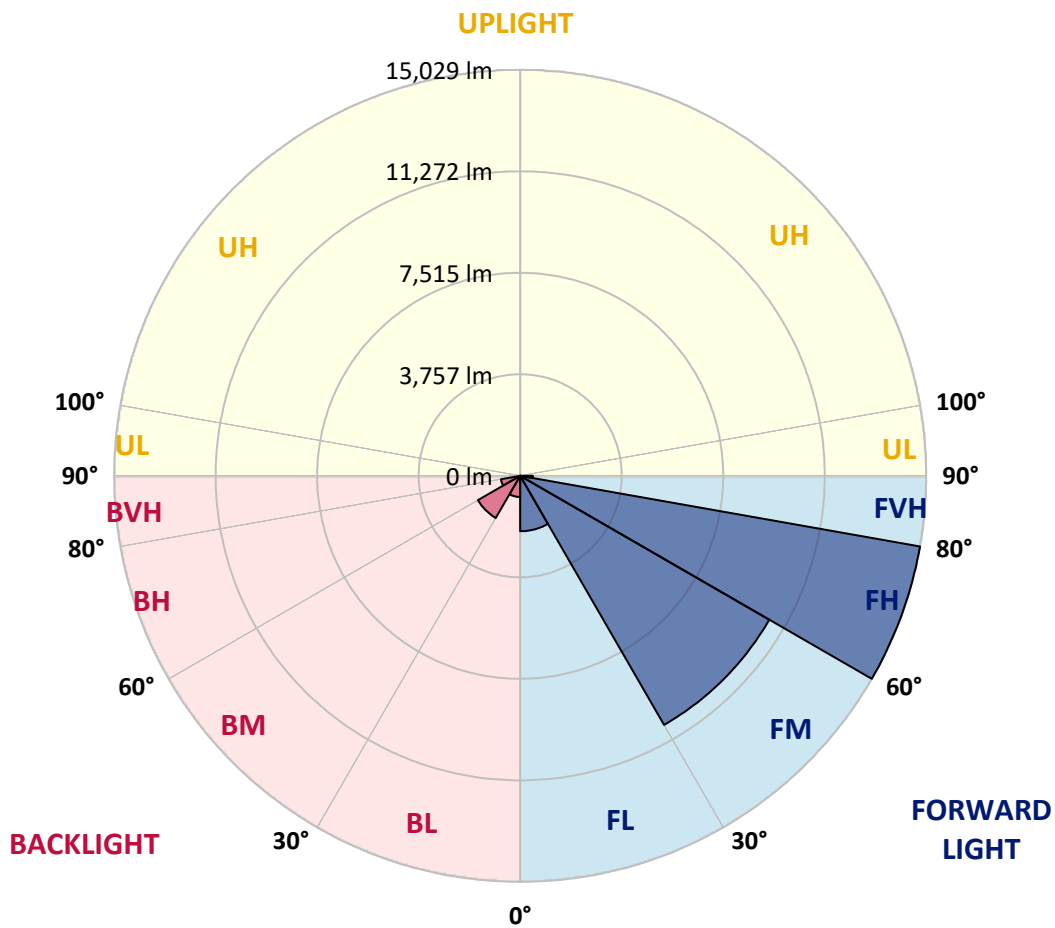
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.0	6.5			
FM (30°-60°)	10647.8	33.8			
FH (60°-80°)	15029.1	47.7			G5
FVH (80°-90°)	474.7	1.5			G3/500
BL (0°-30°)	784.4	2.5	B2/1000		
BM (30°-60°)	1801.0	5.7	B2/2500		
BH (60°-80°)	722.1	2.3	B2/1000		G2/1000
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: B2-U0-G5

Type IV Short



REPORT NUMBER: P955370
 CATALOG NUMBER: GALN-SB8B-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6
2.5°	3771.0	3777.5	3773.2	3747.4	3704.3	3680.7	3667.8	3624.7	3596.8	3547.3
5°	4117.4	4143.2	4128.1	4076.5	3994.7	3936.7	3919.5	3831.3	3751.7	3659.2
7.5°	4485.2	4498.1	4470.2	4403.5	4293.8	4194.8	4179.7	4057.1	3930.2	3788.2
10°	4803.6	4818.6	4775.6	4678.8	4554.0	4431.4	4409.9	4274.4	4123.8	3949.6
12.5°	5070.3	5085.4	5029.5	4913.3	4775.6	4648.7	4627.2	4485.2	4319.6	4126.0
15°	5272.5	5300.5	5225.2	5100.4	4952.0	4825.1	4814.3	4674.5	4513.2	4298.1
17.5°	5390.9	5418.8	5347.8	5197.3	5070.3	4962.8	4949.9	4833.7	4683.1	4476.6
20°	5410.2	5436.0	5360.7	5229.5	5124.1	5038.1	5031.6	4947.7	4838.0	4640.1
22.5°	5352.1	5384.4	5315.6	5210.2	5137.0	5091.8	5083.2	5035.9	4973.5	4805.7
25°	5291.9	5317.7	5266.1	5173.6	5134.9	5130.6	5137.0	5128.4	5115.5	4973.5
27.5°	5287.6	5315.6	5257.5	5169.3	5147.8	5192.9	5199.4	5240.3	5251.0	5126.3
30°	5324.2	5343.5	5287.6	5195.1	5184.3	5287.6	5289.8	5362.9	5380.1	5255.3
32.5°	5403.8	5425.3	5369.3	5233.8	5218.8	5362.9	5369.3	5466.1	5494.1	5393.0
35°	5590.9	5616.7	5552.2	5341.4	5287.6	5433.9	5453.2	5567.3	5623.2	5539.3
37.5°	6057.7	5982.4	5894.2	5558.7	5444.6	5545.7	5578.0	5711.4	5810.3	5713.5
40°	7217.2	6980.6	6705.2	5928.7	5720.0	5784.5	5810.3	5943.7	6079.2	5984.6
42.5°	8957.5	8677.9	8234.7	6780.5	6135.2	6167.4	6186.8	6303.0	6494.4	6419.1
45°	10508.5	10407.4	9955.7	8234.7	6911.7	6752.6	6776.2	6836.5	7118.3	7090.3
47.5°	11700.3	11642.2	11293.7	9904.0	8224.0	7468.9	7535.6	7563.6	7970.1	8069.1
50°	12616.7	12595.2	12283.2	11388.4	9938.5	8525.1	8548.8	8488.6	9097.3	9342.6
52.5°	13481.4	13554.6	13324.4	12767.3	11769.1	9908.3	9904.0	9620.1	10441.8	10811.8
55°	14262.3	14288.1	14311.8	14174.1	13610.5	11483.0	11442.1	10977.5	12001.4	12384.3
57.5°	14995.9	15006.6	15217.5	15499.3	15527.2	13173.8	13098.5	12541.4	13705.2	13978.4
60°	15488.5	15538.0	15983.3	16766.3	17108.3	14918.4	14877.6	14309.7	15439.0	15565.9
62.5°	14778.6	15079.8	16202.7	17755.8	18601.3	16852.3	16833.0	16299.5	17263.2	17160.0
65°	11962.7	12472.5	14447.3	18424.9	20066.2	19012.1	19040.1	18472.2	19136.9	18801.3
67.5°	8368.1	8905.9	11242.1	18478.6	21703.3	21548.4	21709.7	20819.1	21126.7	20373.8
70°	5786.7	6064.2	7585.1	17321.3	22978.9	25041.9	25037.6	23701.7	23105.8	21090.2
72.5°	3891.5	4035.6	4926.2	13741.7	22041.0	27117.8	26993.0	25904.5	23772.7	19724.2
75°	1641.4	1746.8	2280.3	7722.7	17437.5	24809.6	24471.8	22892.9	21122.4	15531.5
77.5°	520.6	565.8	899.2	2764.3	9605.0	18648.6	18291.5	14296.7	14156.9	7791.6
80°	247.4	288.3	505.5	1110.0	3779.6	10142.8	10093.3	6485.8	6090.0	2103.9
82.5°	107.6	126.9	279.7	593.7	1690.8	3618.3	3691.4	2207.1	1826.4	798.1
85°	34.4	45.2	129.1	273.2	714.2	899.2	888.4	524.9	735.7	434.5
87.5°	0.0	0.0	43.0	62.4	73.1	51.6	58.1	45.2	204.4	120.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955370
 CATALOG NUMBER: GALN-SB8B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3452.6	0°	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6	3452.6
3495.7	2.5°	3469.9	3435.4	3375.2	3319.3	3269.8	3220.3	3190.2	3147.2	3142.9	3142.9
3551.6	5°	3493.5	3437.6	3330.0	3216.0	3084.8	2960.0	2835.3	2714.8	2676.1	2648.1
3641.9	7.5°	3562.4	3474.2	3304.2	3086.9	2837.4	2564.2	2372.8	2166.2	2086.6	2043.6
3762.4	10°	3661.3	3540.8	3282.7	2901.9	2497.5	2125.4	1852.2	1628.4	1542.4	1505.8
3893.6	12.5°	3771.0	3622.6	3244.0	2671.8	2125.4	1680.1	1413.3	1310.1	1297.2	1297.2
4050.7	15°	3902.2	3721.5	3177.3	2400.7	1736.0	1329.4	1234.8	1239.1	1252.0	1260.6
4203.4	17.5°	4037.8	3827.0	3071.9	2097.4	1391.8	1196.1	1198.2	1204.7	1215.4	1224.0
4369.0	20°	4184.0	3932.4	2932.1	1774.7	1193.9	1157.3	1163.8	1170.2	1178.8	1183.1
4523.9	22.5°	4341.1	4031.3	2766.4	1458.5	1127.2	1125.1	1127.2	1133.7	1144.4	1144.4
4704.6	25°	4508.9	4141.0	2577.1	1228.3	1092.8	1092.8	1097.1	1101.4	1110.0	1110.0
4878.9	27.5°	4681.0	4242.1	2377.1	1107.9	1062.7	1060.5	1060.5	1067.0	1071.3	1073.4
5051.0	30°	4870.3	4360.4	2177.0	1082.0	1039.0	1028.3	1021.8	1026.1	1030.4	1032.6
5231.7	32.5°	5063.9	4474.5	1998.4	1092.8	1015.4	996.0	974.5	970.2	970.2	978.8
5418.8	35°	5279.0	4599.2	1860.8	1129.4	1002.5	948.7	914.3	894.9	897.0	909.9
5642.5	37.5°	5537.1	4749.8	1759.7	1161.6	993.8	894.9	839.0	815.3	800.2	815.3
5950.2	40°	5874.9	4971.4	1686.5	1187.5	983.1	832.5	757.2	718.5	690.5	699.1
6427.7	42.5°	6371.8	5319.9	1658.6	1189.6	959.4	759.4	673.3	621.7	580.8	583.0
7146.2	45°	7068.8	5870.6	1802.7	1161.6	907.8	679.8	585.1	516.3	490.5	484.0
8219.7	47.5°	8023.9	6673.0	2136.1	1103.6	832.5	602.3	499.1	441.0	421.6	410.9
9628.7	50°	9303.9	7703.4	2506.1	1039.0	757.2	529.2	428.1	391.5	378.6	367.9
11300.2	52.5°	10788.2	8748.9	2809.4	974.5	681.9	464.7	382.9	361.4	350.6	342.0
12913.5	55°	12149.9	9469.5	2792.2	905.6	608.8	413.0	350.6	337.7	324.8	316.2
14303.2	57.5°	12997.4	9570.6	2301.8	830.4	524.9	372.2	320.5	311.9	296.9	286.1
15505.7	60°	13386.8	8994.1	1613.4	731.4	441.0	333.4	288.3	284.0	264.6	249.5
16643.7	62.5°	13457.8	7922.8	1075.6	608.8	367.9	296.9	256.0	249.5	223.7	197.9
17568.7	65°	13169.5	6391.2	744.3	475.4	314.1	258.1	219.4	206.5	178.5	152.7
17788.1	67.5°	12257.4	4487.4	518.4	342.0	266.7	204.4	174.2	169.9	148.4	126.9
16669.5	70°	10586.0	2557.8	346.3	256.0	210.8	139.8	137.7	142.0	120.5	103.3
13619.1	72.5°	8116.4	1170.2	215.1	187.2	144.1	94.7	109.7	111.9	92.5	77.4
8497.2	75°	4777.8	501.2	135.5	120.5	73.1	62.4	79.6	81.7	62.4	49.5
3106.3	77.5°	1626.3	189.3	86.0	71.0	36.6	34.4	51.6	51.6	34.4	19.4
623.8	80°	370.0	71.0	43.0	28.0	17.2	15.1	17.2	15.1	8.6	2.2
191.5	82.5°	105.4	28.0	17.2	10.8	6.5	6.5	2.2	0.0	0.0	0.0
66.7	85°	30.1	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	12.9	2.2	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>
3452.6
3153.6
2661.0
2050.1
1505.8
1297.2
1260.6
1224.0
1185.3
1148.7
1112.2
1075.6
1036.9
985.2
916.4
811.0
694.8
574.4
475.4
404.4
365.7
339.9
311.9
284.0
245.2
185.0
144.1
120.5
94.7
68.8
43.0
15.1
0.0
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