

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: P943758

Luminaire Tested: **GALN-SB8B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32977 lumens
Efficiency: N/A
Efficacy: 112.6 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

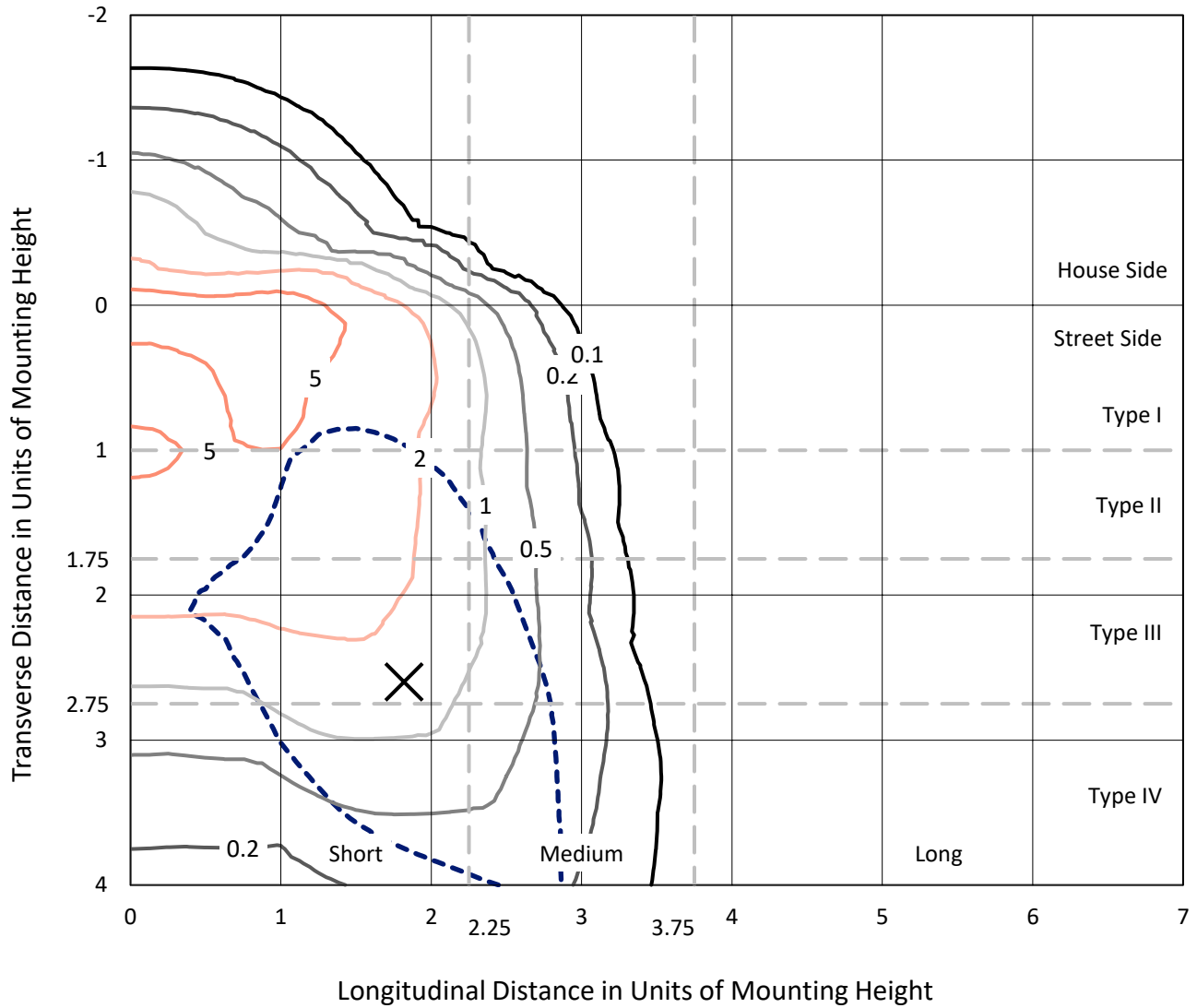
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

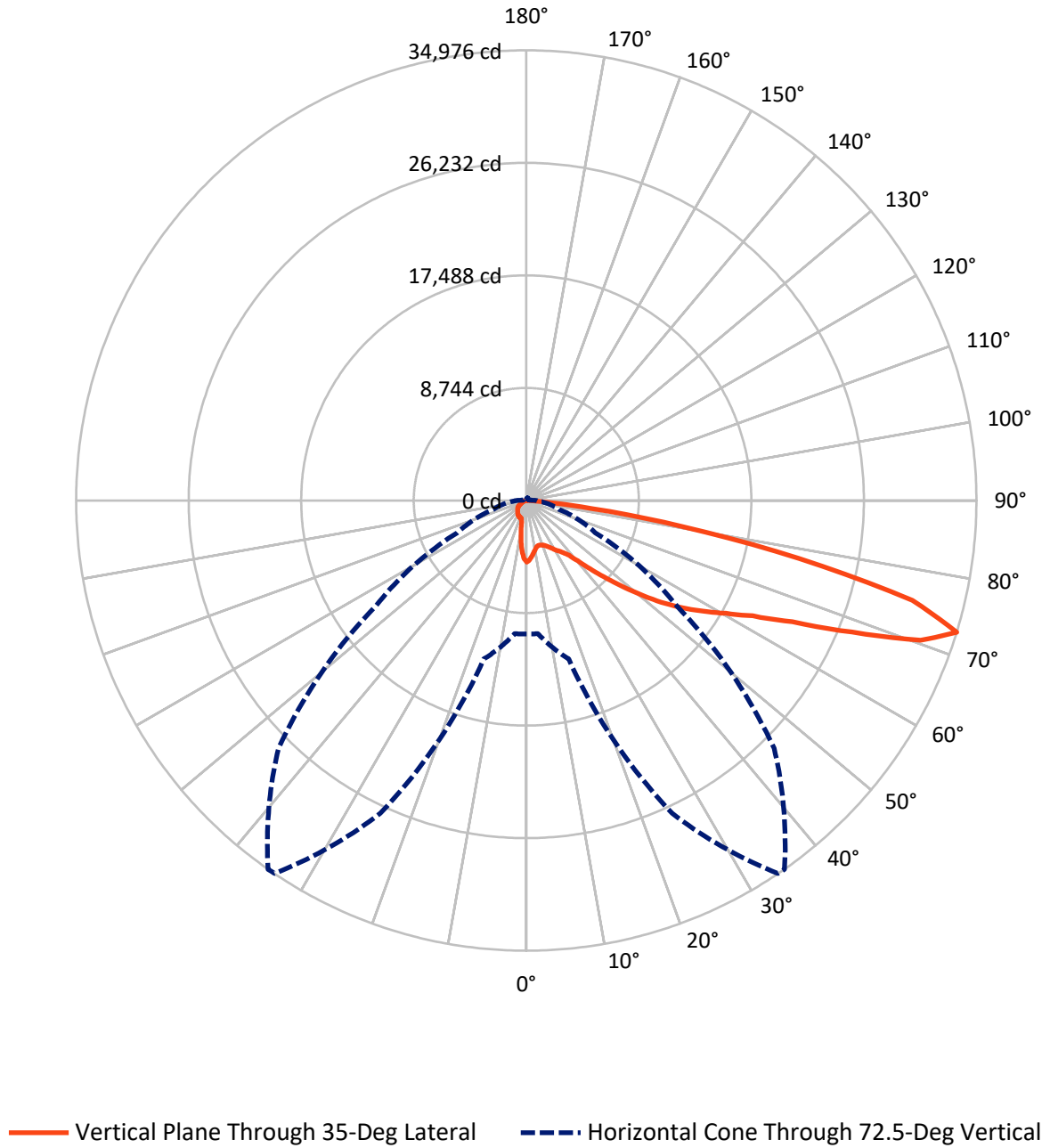
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3711.4	0.0	3711.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	29265.6	0.0	29265.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	32977.0	0.0	32977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.2
10°-20°	918.8	2.8
20°-30°	1492.5	4.5
30°-40°	2490.3	7.6
40°-50°	4711.7	14.3
50°-60°	7486.8	22.7
60°-70°	9261.7	28.1
70°-80°	5757.2	17.5
80°-90°	465.3	1.4
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°	32977.0	100.0
0°-180°	32977.0	100.0

Coefficient of Utilization



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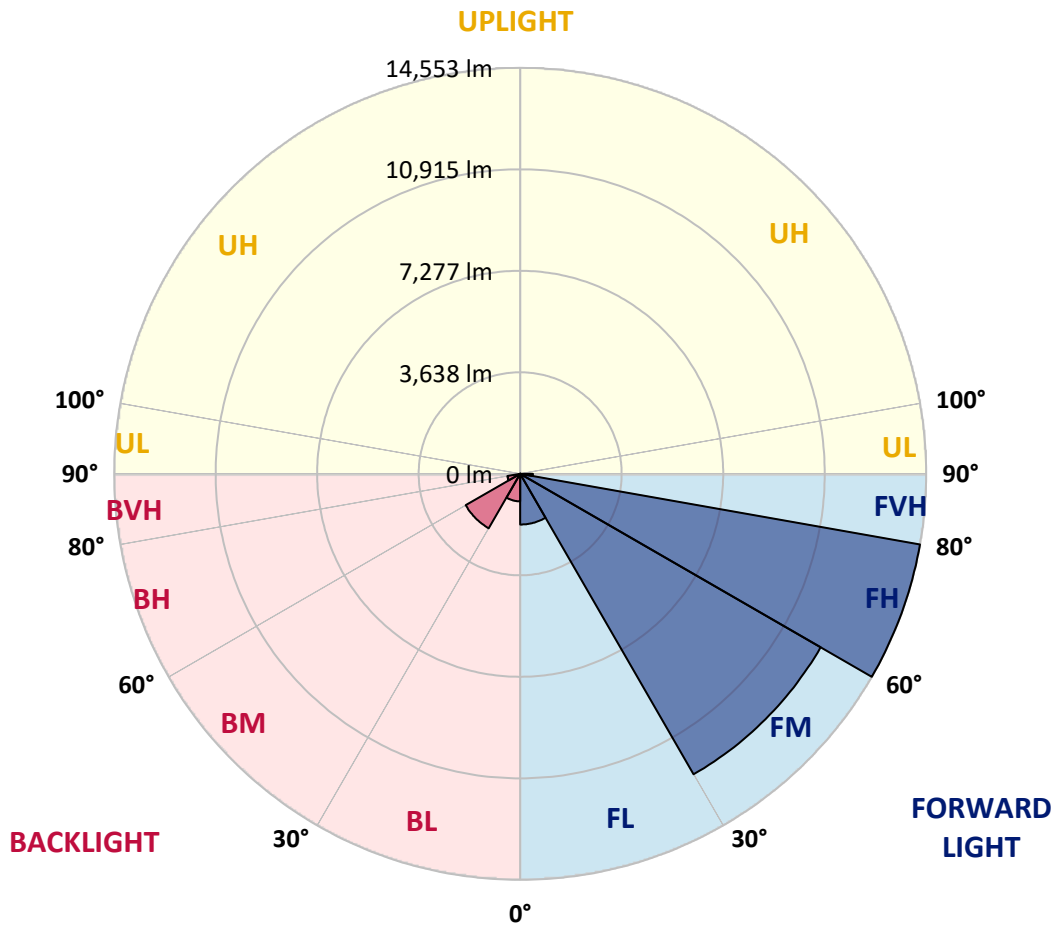
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.9	5.5			
FM (30°-60°)	12435.6	37.7			
FH (60°-80°)	14553.2	44.1			G5
FVH (80°-90°)	458.9	1.4			G3/500
BL (0°-30°)	986.2	3.0	B2/1000		
BM (30°-60°)	2253.2	6.8	B2/2500		
BH (60°-80°)	465.7	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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°	34°	35°	45°	55°	65°	75°
0°	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5
2.5°	4566.8	4605.5	4612.7	4624.8	4624.8	4639.3	4663.5	4697.3	4752.9	4781.9
5°	4209.2	4238.2	4274.5	4303.5	4359.0	4366.3	4460.5	4552.3	4680.4	4777.1
7.5°	3849.2	3883.0	3931.3	4001.4	4073.9	4095.7	4238.2	4392.9	4595.8	4777.1
10°	3595.5	3597.9	3641.4	3711.5	3827.4	3854.0	4028.0	4247.9	4501.6	4748.1
12.5°	3452.9	3469.8	3489.2	3542.3	3653.5	3670.4	3856.4	4115.0	4407.4	4731.1
15°	3452.9	3465.0	3477.1	3503.7	3593.1	3607.6	3771.9	4030.4	4359.0	4738.4
17.5°	3489.2	3508.5	3498.8	3530.2	3624.5	3634.1	3779.1	4006.3	4356.6	4784.3
20°	3576.1	3590.6	3571.3	3590.6	3684.9	3704.2	3854.0	4052.2	4397.7	4864.0
22.5°	3713.9	3721.1	3675.2	3689.7	3786.4	3810.5	3984.5	4182.6	4496.8	4992.1
25°	3887.9	3902.4	3832.3	3849.2	3941.0	3970.0	4170.6	4378.4	4653.8	5168.5
27.5°	4088.4	4095.7	4035.2	4032.8	4151.2	4192.3	4395.3	4620.0	4864.0	5390.8
30°	4318.0	4339.7	4281.7	4272.0	4421.9	4455.7	4656.2	4917.2	5173.3	5724.3
32.5°	4499.2	4516.1	4482.3	4506.4	4658.7	4685.2	4972.8	5337.6	5659.0	6197.9
35°	4760.1	4769.8	4692.5	4736.0	4910.0	4977.6	5405.3	5927.2	6270.3	6792.3
37.5°	5704.9	5704.9	5376.3	5161.3	5328.0	5388.4	5997.3	6669.0	7024.2	7589.6
40°	7012.1	6990.4	6509.6	6069.8	6048.0	6166.4	6840.6	7604.1	7998.0	8546.5
42.5°	8406.4	8372.5	7717.7	7282.8	7210.3	7251.4	7814.4	8756.7	9157.8	9713.6
45°	9643.5	9633.9	9034.6	8449.9	8319.4	8449.9	9029.8	10105.0	10392.6	10977.3
47.5°	10680.1	10680.1	10242.8	9861.0	9793.3	9870.7	10675.3	11600.7	11574.2	12323.2
50°	11873.8	11864.1	11448.5	11284.2	11354.3	11463.0	12569.7	13176.2	12796.8	13644.9
52.5°	12709.8	12767.8	12625.3	12598.7	12956.3	13144.8	14493.1	14717.8	13891.4	14899.0
55°	13371.9	13439.5	13603.9	13789.9	14478.6	14725.0	16356.0	16179.7	14807.2	15986.3
57.5°	14309.4	14212.8	14466.5	14833.8	15947.7	16244.9	18161.0	17559.4	15544.2	16868.3
60°	15447.5	15462.0	15505.5	15969.4	17414.4	17796.2	19939.4	18864.2	16017.8	17409.6
62.5°	16815.1	16836.9	16926.3	17639.1	19383.7	19743.7	21833.8	19932.2	16235.2	17257.3
65°	16720.9	16812.7	17810.7	20248.7	22377.5	22732.7	24044.8	20681.2	15906.6	15865.5
67.5°	15232.5	15382.3	17051.9	23365.8	26891.2	27287.5	26717.2	20828.6	14488.2	12337.7
70°	13280.1	13333.2	15341.2	26168.7	32117.7	32518.8	29109.4	19207.3	10994.2	6881.7
72.5°	10370.8	10382.9	12738.8	26818.7	34954.4	34976.2	27231.9	14258.7	5912.7	2643.4
75°	7408.4	7335.9	8532.0	21749.3	30752.5	30998.9	20415.5	6688.4	2259.3	1249.2
77.5°	3972.4	4052.2	4827.8	12898.3	21244.2	21664.7	11139.2	1928.2	1150.2	850.5
80°	1227.5	1295.1	1979.0	5905.5	12033.3	12287.0	4129.5	857.8	802.2	606.5
82.5°	386.6	401.1	923.0	2481.6	4994.5	5110.5	1196.1	485.7	548.5	401.1
85°	111.2	113.6	410.8	925.4	1234.7	1258.9	335.9	188.5	314.1	248.9
87.5°	12.1	38.7	154.6	154.6	108.7	106.3	36.2	41.1	89.4	31.4
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°
4779.5	0°	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5	4779.5
4801.2	2.5°	4789.1	4791.6	4760.1	4707.0	4649.0	4600.7	4540.3	4491.9	4458.1	4448.4
4844.7	5°	4823.0	4806.1	4716.6	4554.8	4361.5	4194.7	4008.7	3861.3	3764.6	3723.5
4890.6	7.5°	4873.7	4825.4	4629.7	4310.7	3941.0	3612.4	3278.9	3020.4	2856.1	2773.9
4934.1	10°	4917.2	4820.6	4484.7	3957.9	3392.5	2894.7	2445.3	2133.6	1959.6	1877.5
4984.9	12.5°	4958.3	4818.1	4296.2	3539.9	2773.9	2165.0	1747.0	1592.4	1544.0	1527.1
5067.0	15°	5035.6	4825.4	4059.4	3061.5	2157.8	1635.8	1483.6	1481.2	1490.9	1486.0
5192.7	17.5°	5141.9	4832.6	3791.2	2554.0	1664.8	1442.5	1435.3	1457.0	1471.5	1464.3
5349.7	20°	5279.7	4861.6	3506.1	2051.5	1430.5	1394.2	1411.1	1430.5	1442.5	1430.5
5559.9	22.5°	5473.0	4912.4	3194.4	1647.9	1355.6	1365.2	1379.7	1401.5	1413.5	1396.6
5828.2	25°	5709.8	4992.1	2887.5	1432.9	1319.3	1331.4	1353.1	1377.3	1391.8	1374.9
6166.4	27.5°	6016.6	5120.2	2604.8	1384.5	1283.1	1290.3	1321.7	1358.0	1377.3	1355.6
6647.3	30°	6461.2	5330.4	2360.7	1406.3	1261.3	1244.4	1287.9	1338.6	1360.4	1341.1
7302.1	32.5°	7050.8	5627.6	2210.9	1440.1	1251.7	1191.2	1232.3	1297.6	1333.8	1321.7
8157.5	35°	7824.0	6079.5	2152.9	1478.8	1244.4	1135.7	1164.7	1234.7	1297.6	1309.6
9235.2	37.5°	8761.6	6707.7	2169.9	1495.7	1222.7	1089.8	1104.3	1164.7	1246.8	1285.5
10448.2	40°	9827.2	7439.8	2266.5	1478.8	1198.5	1051.1	1053.5	1099.4	1171.9	1229.9
11753.0	42.5°	10926.6	8295.2	2445.3	1416.0	1176.7	1017.3	1010.0	1041.4	1089.8	1130.8
13055.4	45°	11972.8	9174.8	2621.7	1329.0	1150.2	983.4	966.5	978.6	988.3	1005.2
14323.9	47.5°	12886.2	9793.3	2571.0	1249.2	1113.9	944.8	915.8	911.0	882.0	879.5
15457.2	50°	13516.9	9928.6	2283.4	1169.5	1060.8	901.3	855.4	826.4	775.6	751.5
16305.3	52.5°	13717.4	9394.6	1865.4	1089.8	973.8	843.3	778.1	732.1	669.3	647.6
16793.4	55°	13451.6	8348.4	1490.9	993.1	853.0	766.0	693.5	633.1	582.3	555.8
16846.6	57.5°	12801.6	7017.0	1179.2	879.5	724.9	679.0	606.5	546.1	502.6	476.0
16257.0	60°	11724.0	5572.0	932.7	744.2	618.6	584.7	509.8	471.2	432.5	401.1
14734.7	62.5°	10088.1	3977.3	732.1	589.6	517.1	478.4	434.9	405.9	360.0	316.5
11997.0	65°	7872.4	2433.2	565.4	432.5	415.6	396.3	369.7	343.1	287.5	244.0
7826.4	67.5°	4965.5	1152.6	403.5	326.2	328.6	319.0	306.9	285.1	244.0	205.4
3506.1	70°	2186.8	558.2	265.8	248.9	244.0	244.0	253.7	246.5	207.8	171.6
1217.8	72.5°	744.2	299.6	198.1	188.5	176.4	174.0	212.6	205.4	166.7	132.9
606.5	75°	389.0	200.6	145.0	135.3	106.3	128.1	169.1	159.5	118.4	87.0
401.1	77.5°	253.7	142.6	99.1	87.0	60.4	84.6	125.6	111.2	70.1	43.5
263.4	80°	159.5	94.2	58.0	41.1	29.0	45.9	67.7	48.3	26.6	9.7
154.6	82.5°	84.6	48.3	21.7	14.5	12.1	14.5	16.9	12.1	4.8	0.0
79.7	85°	33.8	16.9	7.2	4.8	2.4	0.0	4.8	2.4	0.0	0.0
14.5	87.5°	12.1	2.4	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>
4779.5
4465.4
3738.0
2786.0
1879.9
1522.3
1483.6
1461.9
1428.0
1394.2
1372.5
1355.6
1338.6
1321.7
1309.6
1295.1
1249.2
1147.8
1014.9
877.1
753.9
645.2
555.8
471.2
393.9
309.3
236.8
200.6
164.3
125.6
79.7
38.7
7.2
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