

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: P943048

Luminaire Tested: **GALN-SB7B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943048
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-SB7B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 27245 lumens
Efficiency: N/A
Efficacy: 106.1 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

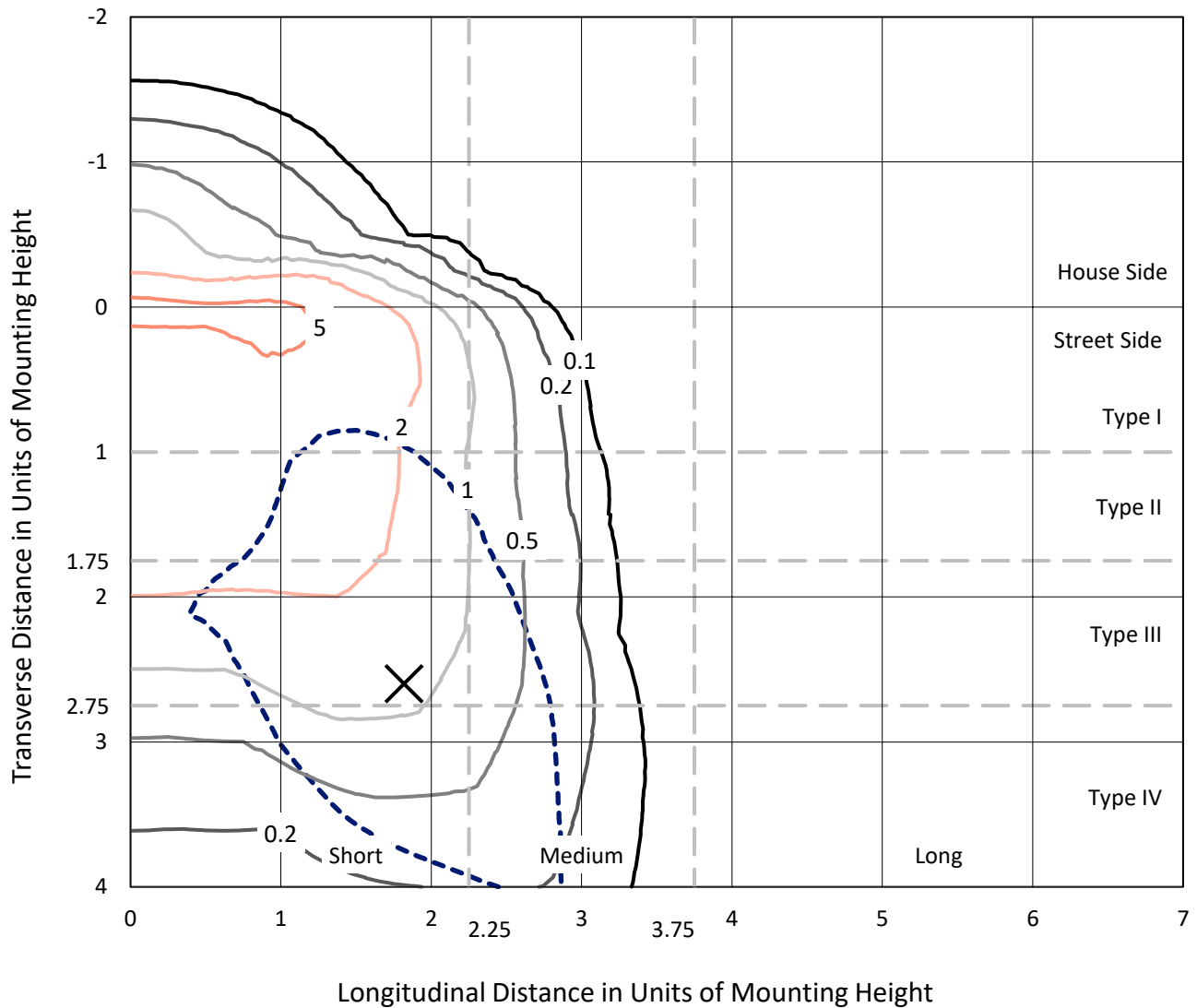
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

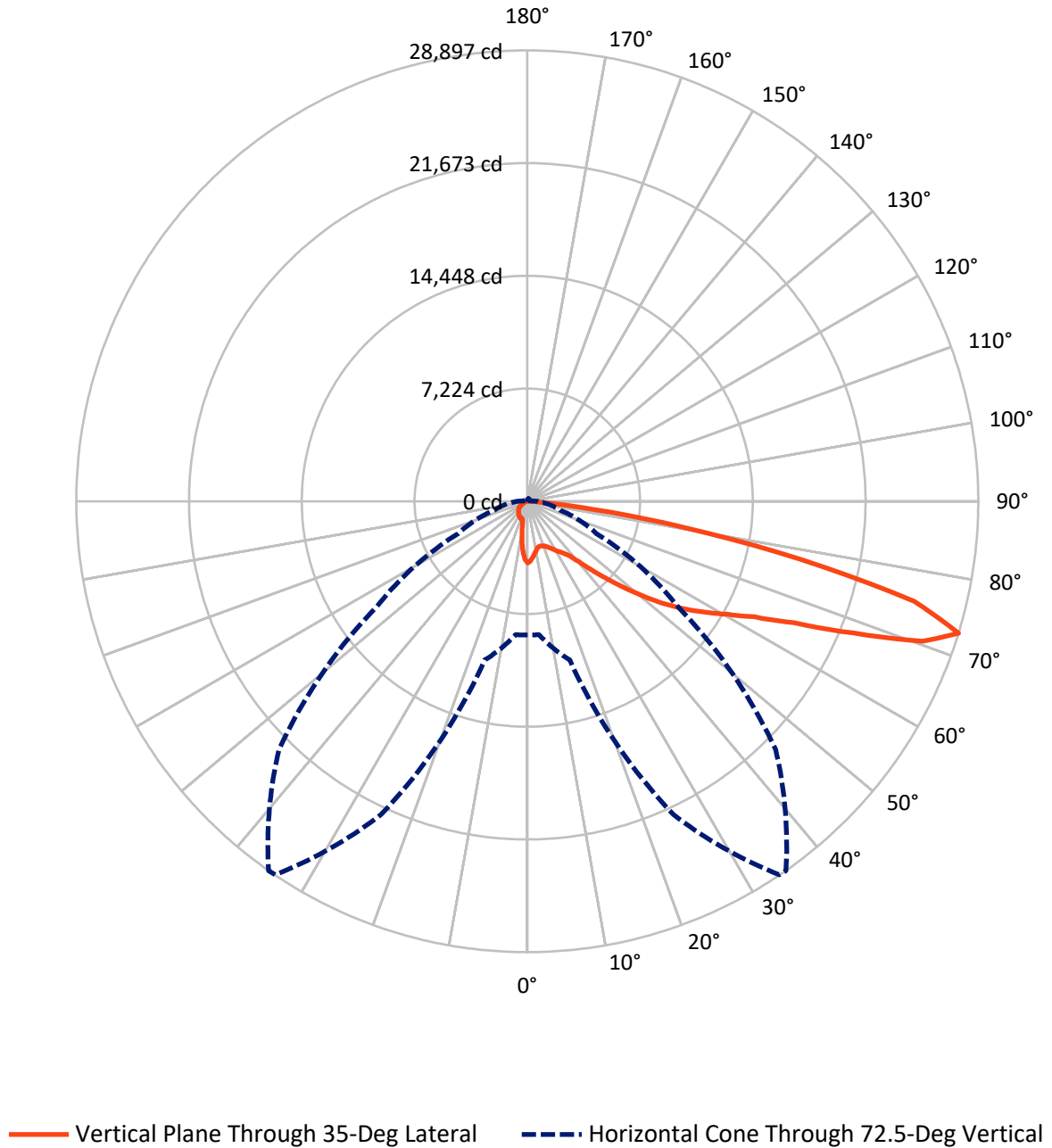
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3066.3	0.0	3066.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24178.7	0.0	24178.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	27245.0	0.0	27245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.2
10°-20°	759.1	2.8
20°-30°	1233.1	4.5
30°-40°	2057.4	7.6
40°-50°	3892.7	14.3
50°-60°	6185.5	22.7
60°-70°	7651.9	28.1
70°-80°	4756.5	17.5
80°-90°	384.4	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°	27245.0	100.0
0°-180°	27245.0	100.0

Coefficient of Utilization



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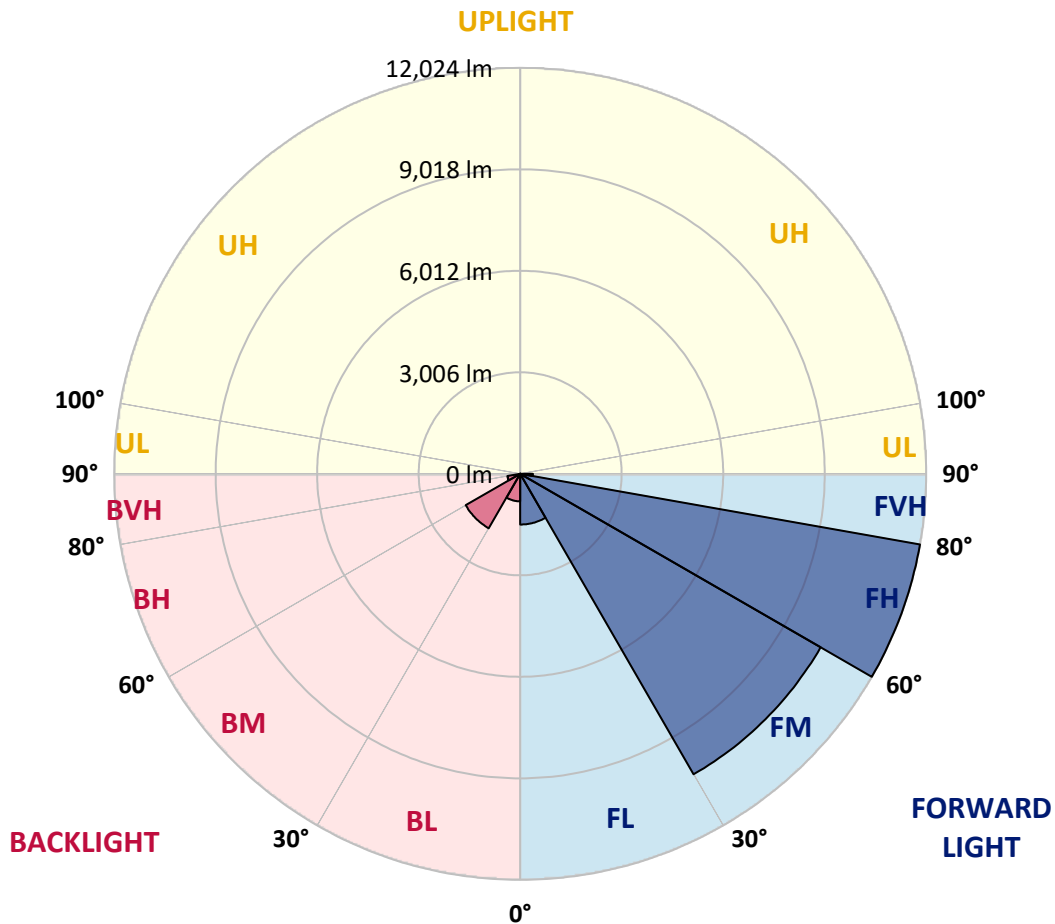
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.9	5.5			
FM (30°-60°)	10274.1	37.7			
FH (60°-80°)	12023.6	44.1			G5
FVH (80°-90°)	379.2	1.4			G3/500
BL (0°-30°)	814.8	3.0	B2/1000		
BM (30°-60°)	1861.5	6.8	B2/2500		
BH (60°-80°)	384.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.2	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°	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7
2.5°	3773.0	3805.0	3811.0	3820.9	3820.9	3832.9	3852.9	3880.8	3926.8	3950.7
5°	3477.6	3501.5	3531.5	3555.4	3601.4	3607.3	3685.2	3761.1	3866.9	3946.7
7.5°	3180.1	3208.1	3248.0	3305.9	3365.8	3383.8	3501.5	3629.3	3797.0	3946.7
10°	2970.5	2972.5	3008.4	3066.3	3162.2	3184.1	3327.9	3509.5	3719.1	3922.8
12.5°	2852.7	2866.7	2882.7	2926.6	3018.4	3032.4	3186.1	3399.7	3641.3	3908.8
15°	2852.7	2862.7	2872.7	2894.7	2968.5	2980.5	3116.3	3329.9	3601.4	3914.8
17.5°	2882.7	2898.7	2890.7	2916.6	2994.5	3002.5	3122.2	3309.9	3599.4	3952.7
20°	2954.5	2966.5	2950.6	2966.5	3044.4	3060.4	3184.1	3347.8	3633.3	4018.6
22.5°	3068.3	3074.3	3036.4	3048.4	3128.2	3148.2	3291.9	3455.6	3715.1	4124.4
25°	3212.1	3224.1	3166.2	3180.1	3256.0	3279.9	3445.6	3617.3	3844.9	4270.1
27.5°	3377.8	3383.8	3333.8	3331.9	3429.7	3463.6	3631.3	3817.0	4018.6	4453.8
30°	3567.4	3585.4	3537.5	3529.5	3653.3	3681.2	3846.9	4062.5	4274.1	4729.3
32.5°	3717.1	3731.1	3703.2	3723.1	3848.9	3870.9	4108.4	4409.9	4675.4	5120.6
35°	3932.7	3940.7	3876.8	3912.8	4056.5	4112.4	4465.8	4897.0	5180.4	5611.6
37.5°	4713.3	4713.3	4441.8	4264.1	4401.9	4451.8	4954.9	5509.8	5803.3	6270.4
40°	5793.3	5775.3	5378.1	5014.7	4996.8	5094.6	5651.6	6282.4	6607.8	7061.0
42.5°	6945.2	6917.2	6376.2	6016.9	5957.0	5990.9	6456.1	7234.7	7566.0	8025.2
45°	7967.3	7959.3	7464.2	6981.1	6873.3	6981.1	7460.2	8348.6	8586.2	9069.3
47.5°	8823.7	8823.7	8462.4	8147.0	8091.1	8155.0	8819.7	9584.3	9562.4	10181.2
50°	9809.9	9801.9	9458.5	9322.8	9380.7	9470.5	10384.8	10885.9	10572.5	11273.2
52.5°	10500.6	10548.5	10430.8	10408.8	10704.2	10860.0	11973.9	12159.6	11476.8	12309.3
55°	11047.6	11103.5	11239.3	11393.0	11961.9	12165.6	13513.1	13367.3	12233.4	13207.6
57.5°	11822.2	11742.3	11951.9	12255.4	13175.7	13421.2	15004.3	14507.2	12842.3	13936.3
60°	12762.5	12774.4	12810.4	13193.7	14387.5	14702.9	16473.6	15585.2	13233.6	14383.5
62.5°	13892.4	13910.3	13984.2	14573.1	16014.5	16311.9	18038.7	16467.6	13413.3	14257.7
65°	13814.5	13890.4	14714.8	16729.1	18487.9	18781.3	19865.3	17086.5	13141.8	13107.8
67.5°	12584.8	12708.6	14088.0	19304.4	22217.0	22544.4	22073.3	17208.2	11969.9	10193.2
70°	10971.8	11015.7	12674.6	21620.1	26535.0	26866.4	24049.6	15868.7	9083.2	5685.5
72.5°	8568.2	8578.2	10524.6	22157.1	28878.7	28896.7	22498.5	11780.3	4885.0	2184.0
75°	6120.7	6060.8	7049.0	17968.8	25407.1	25610.7	16866.9	5525.8	1866.6	1032.1
77.5°	3281.9	3347.8	3988.6	10656.3	17551.6	17899.0	9203.0	1593.1	950.2	702.7
80°	1014.1	1070.0	1635.0	4879.0	9941.7	10151.3	3411.7	708.7	662.8	501.1
82.5°	319.4	331.4	762.6	2050.2	4126.4	4222.2	988.2	401.3	453.2	331.4
85°	91.8	93.8	339.4	764.6	1020.1	1040.1	277.5	155.7	259.5	205.6
87.5°	10.0	31.9	127.8	127.8	89.8	87.8	29.9	33.9	73.9	26.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3948.7	0°	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7	3948.7
3966.7	2.5°	3956.7	3958.7	3932.7	3888.8	3840.9	3801.0	3751.1	3711.2	3683.2	3675.2
4002.6	5°	3984.6	3970.7	3896.8	3763.1	3603.4	3465.6	3311.9	3190.1	3110.3	3076.3
4040.5	7.5°	4026.6	3986.6	3824.9	3561.4	3256.0	2984.5	2709.0	2495.4	2359.6	2291.8
4076.5	10°	4062.5	3982.7	3705.2	3270.0	2802.8	2391.6	2020.3	1762.7	1619.0	1551.1
4118.4	12.5°	4096.4	3980.7	3549.5	2924.6	2291.8	1788.7	1443.3	1315.6	1275.6	1261.7
4186.3	15°	4160.3	3986.6	3353.8	2529.3	1782.7	1351.5	1225.7	1223.7	1231.7	1227.7
4290.1	17.5°	4248.2	3992.6	3132.2	2110.1	1375.5	1191.8	1185.8	1203.8	1215.8	1209.8
4419.8	20°	4362.0	4016.6	2896.7	1694.9	1181.8	1151.9	1165.8	1181.8	1191.8	1181.8
4593.5	22.5°	4521.7	4058.5	2639.1	1361.5	1119.9	1127.9	1139.9	1157.9	1167.8	1153.9
4815.1	25°	4717.3	4124.4	2385.6	1183.8	1090.0	1100.0	1117.9	1137.9	1149.9	1135.9
5094.6	27.5°	4970.8	4230.2	2152.0	1143.9	1060.0	1066.0	1092.0	1121.9	1137.9	1119.9
5491.9	30°	5338.2	4403.9	1950.4	1161.9	1042.1	1028.1	1064.0	1106.0	1123.9	1108.0
6032.9	32.5°	5825.3	4649.4	1826.6	1189.8	1034.1	984.2	1018.1	1072.0	1102.0	1092.0
6739.6	35°	6464.1	5022.7	1778.7	1221.7	1028.1	938.3	962.2	1020.1	1072.0	1082.0
7629.9	37.5°	7238.6	5541.8	1792.7	1235.7	1010.1	900.3	912.3	962.2	1030.1	1062.0
8632.1	40°	8119.0	6146.7	1872.5	1221.7	990.2	868.4	870.4	908.3	968.2	1016.1
9710.1	42.5°	9027.3	6853.4	2020.3	1169.8	972.2	840.4	834.5	860.4	900.3	934.3
10786.1	45°	9891.7	7580.0	2166.0	1098.0	950.2	812.5	798.5	808.5	816.5	830.5
11834.2	47.5°	10646.4	8091.1	2124.1	1032.1	920.3	780.6	756.6	752.6	728.7	726.7
12770.4	50°	11167.4	8202.9	1886.5	966.2	876.4	744.6	706.7	682.7	640.8	620.9
13471.1	52.5°	11333.1	7761.7	1541.2	900.3	804.5	696.7	642.8	604.9	553.0	535.0
13874.4	55°	11113.5	6897.3	1231.7	820.5	704.7	632.8	572.9	523.0	481.1	459.2
13918.3	57.5°	10576.5	5797.3	974.2	726.7	598.9	561.0	501.1	451.2	415.2	393.3
13431.2	60°	9686.1	4603.5	770.6	614.9	511.1	483.1	421.2	389.3	357.3	331.4
12173.5	62.5°	8334.6	3285.9	604.9	487.1	427.2	395.3	359.3	335.4	297.5	261.5
9911.7	65°	6504.0	2010.3	467.1	357.3	343.4	327.4	305.4	283.5	237.6	201.6
6466.1	67.5°	4102.4	952.2	333.4	269.5	271.5	263.5	253.5	235.6	201.6	169.7
2896.7	70°	1806.7	461.1	219.6	205.6	201.6	201.6	209.6	203.6	171.7	141.7
1006.1	72.5°	614.9	247.5	163.7	155.7	145.7	143.7	175.7	169.7	137.7	109.8
501.1	75°	321.4	165.7	119.8	111.8	87.8	105.8	139.7	131.8	97.8	71.9
331.4	77.5°	209.6	117.8	81.8	71.9	49.9	69.9	103.8	91.8	57.9	35.9
217.6	80°	131.8	77.9	47.9	33.9	24.0	37.9	55.9	39.9	22.0	8.0
127.8	82.5°	69.9	39.9	18.0	12.0	10.0	12.0	14.0	10.0	4.0	0.0
65.9	85°	27.9	14.0	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0
12.0	87.5°	10.0	2.0	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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<u>180°</u>
3948.7
3689.2
3088.3
2301.8
1553.1
1257.7
1225.7
1207.8
1179.8
1151.9
1133.9
1119.9
1106.0
1092.0
1082.0
1070.0
1032.1
948.3
838.5
724.7
622.9
533.0
459.2
389.3
325.4
255.5
195.6
165.7
135.7
<i>103.8</i>
65.9
31.9
6.0
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