

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: EPHESUS

Report Number: P574683

Luminaire Tested: **EPH-VN-03-730-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574683
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

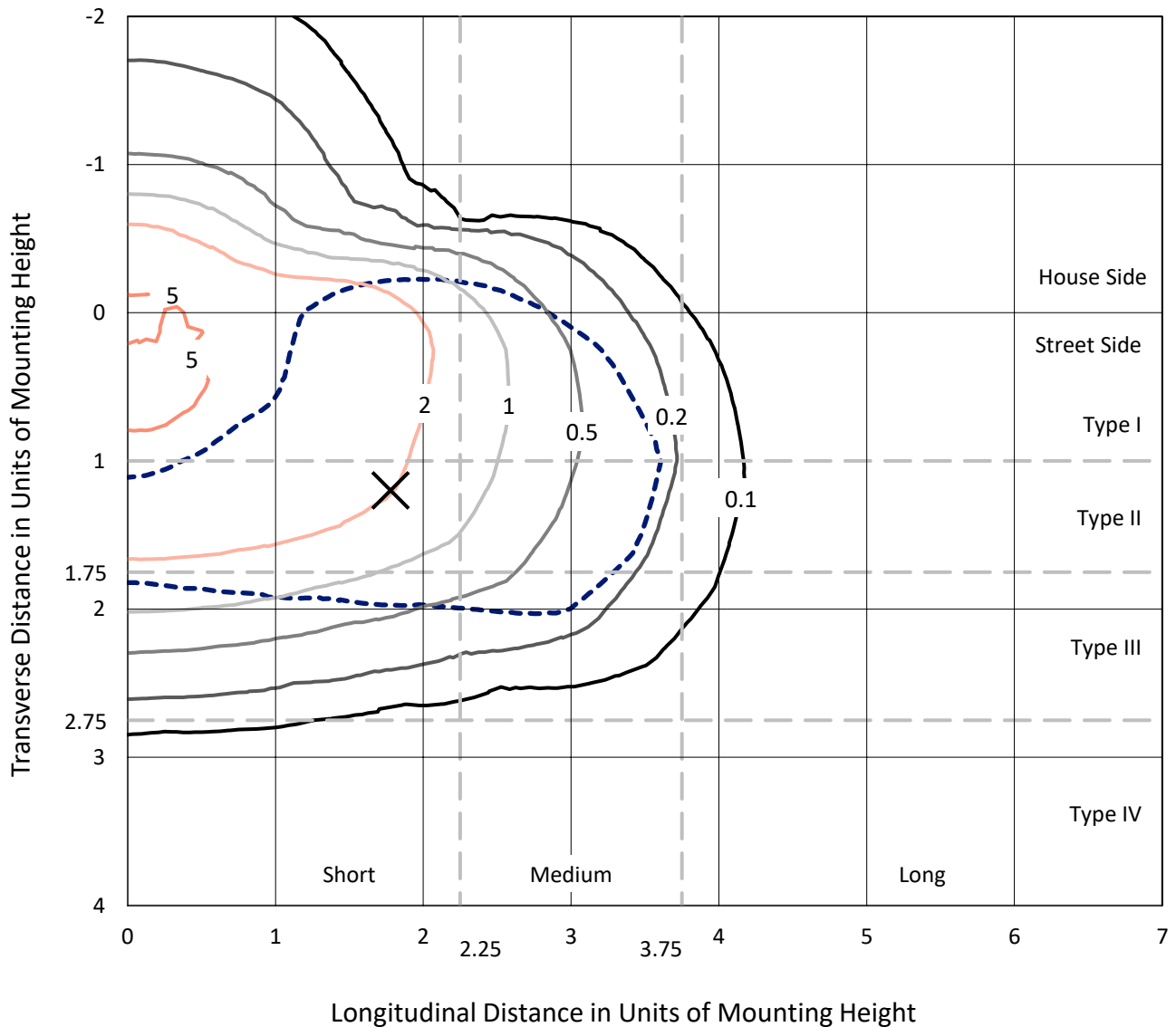
Lumens per Lamp: N/A
Luminaire Lumens: 25016.8 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
Input Voltage (V): 120
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: P574683
 CATALOG NUMBER: EPH-VN-03-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

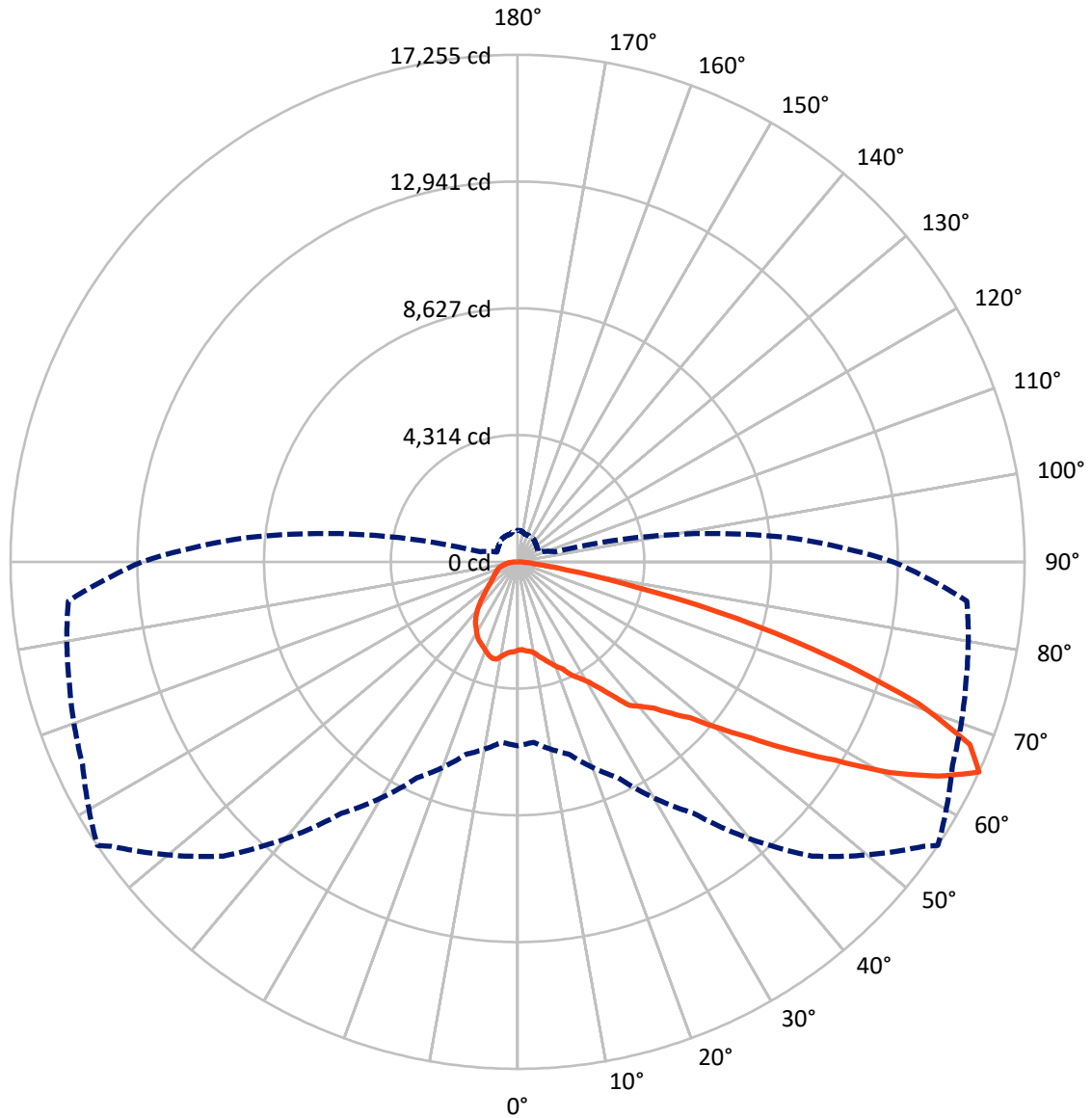
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P574683
CATALOG NUMBER: EPH-VN-03-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P574683
 CATALOG NUMBER: EPH-VN-03-730-U-T3

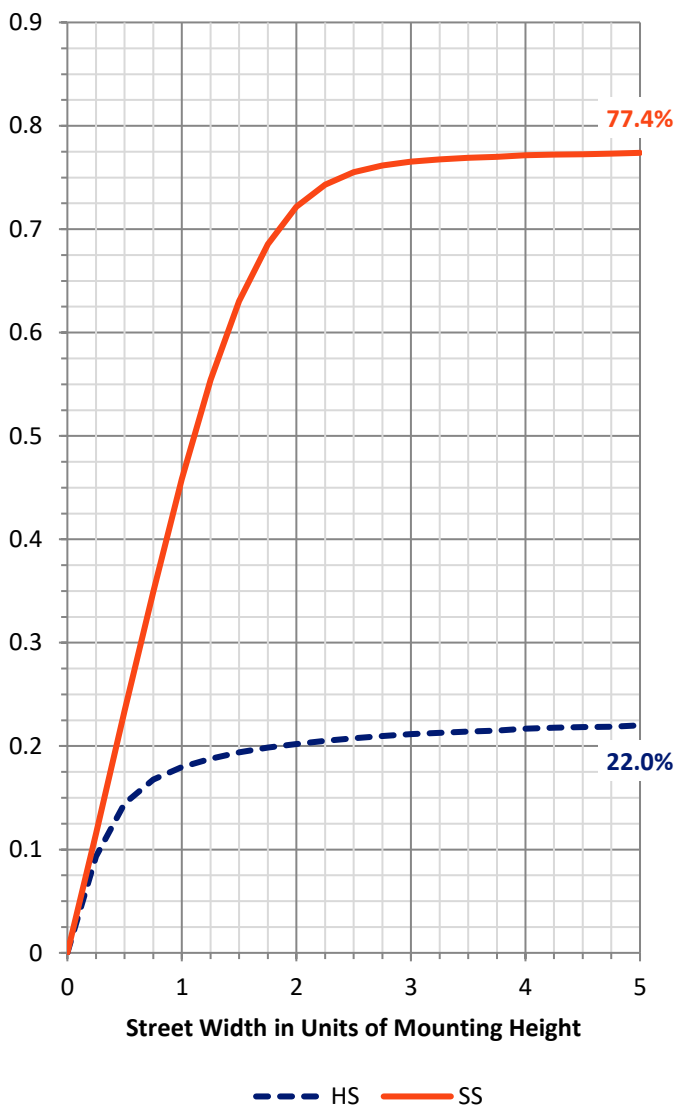
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5610.5	0.0	5610.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19406.4	0.0	19406.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	25016.8	0.0	25016.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	1.2
10°-20°	966.2	3.9
20°-30°	1720.4	6.9
30°-40°	2576.3	10.3
40°-50°	3817.1	15.3
50°-60°	5881.5	23.5
60°-70°	6658.6	26.6
70°-80°	2763.4	11.0
80°-90°	335.7	1.3
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°	25016.8	100.0
0°-180°	25016.8	100.0

Coefficient of Utilization

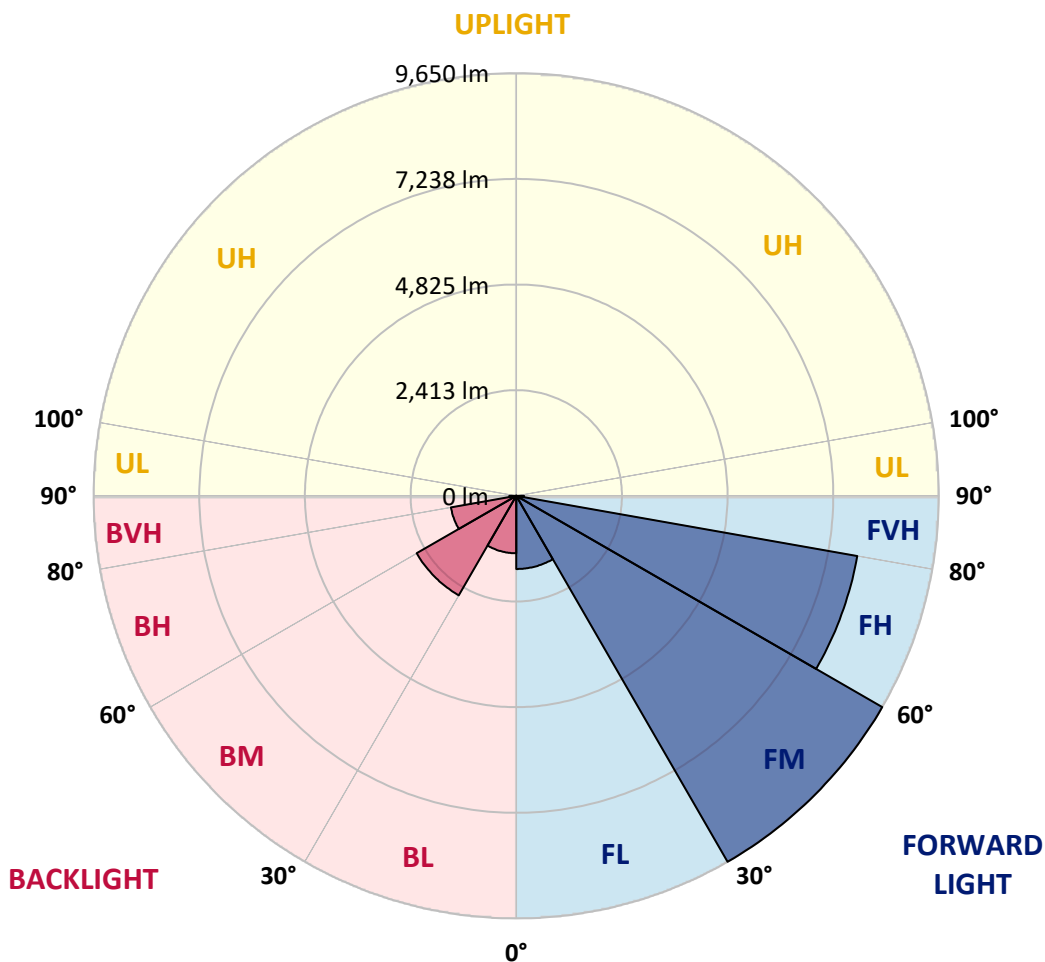


REPORT NUMBER: P574683
 CATALOG NUMBER: EPH-VN-03-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.9	6.7			
FM (30°-60°)	9650.4	38.6			
FH (60°-80°)	7907.0	31.6			G4/12000
FVH (80°-90°)	177.1	0.7			G2/225
BL (0°-30°)	1312.3	5.2	B3/2500		
BM (30°-60°)	2624.5	10.5	B3/5000		
BH (60°-80°)	1515.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	158.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P574683
 CATALOG NUMBER: EPH-VN-03-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7
2.5°	2924.2	2939.9	2929.4	2960.8	2987.0	2987.0	3008.0	2992.3	3013.2	3042.0
5°	3021.1	2958.2	2992.3	3008.0	3000.1	3013.2	2992.3	3044.6	3010.6	3065.6
7.5°	3044.6	3068.2	3097.0	3070.8	3094.4	3081.3	3083.9	3076.0	3057.7	3102.2
10°	3217.4	3183.4	3248.8	3209.5	3204.3	3199.1	3188.6	3149.3	3193.8	3196.5
12.5°	3416.4	3384.9	3382.3	3350.9	3392.8	3316.9	3332.6	3311.6	3319.5	3330.0
15°	3560.3	3547.3	3607.5	3570.8	3515.8	3481.8	3518.5	3460.9	3489.7	3484.4
17.5°	3845.7	3843.1	3798.6	3738.4	3706.9	3657.2	3649.4	3625.8	3646.7	3636.3
20°	4044.7	4073.5	4081.3	4010.6	3890.2	3835.2	3822.1	3803.8	3827.4	3819.5
22.5°	4348.3	4303.8	4337.9	4214.8	4170.3	4039.4	3992.3	3966.1	4078.7	4049.9
25°	4542.1	4589.2	4555.1	4513.3	4413.8	4251.5	4217.4	4275.0	4319.5	4288.1
27.5°	4979.2	4932.1	4900.7	4775.1	4709.6	4539.4	4500.2	4479.2	4489.7	4508.0
30°	5311.7	5337.9	5267.2	5178.2	5013.3	4840.5	4748.9	4730.5	4693.9	4662.5
32.5°	5785.6	5746.3	5704.4	5646.8	5505.4	5277.7	5188.7	5120.6	5010.7	4864.1
35°	6013.3	6125.9	6094.5	5940.0	5832.7	5746.3	5720.1	5615.4	5523.8	5293.4
37.5°	6392.9	6440.0	6395.5	6345.8	6296.1	6204.4	6173.0	6201.8	6021.2	5641.6
40°	6639.0	6738.5	6830.1	6691.4	6680.9	6699.2	6505.5	6471.5	6099.7	5900.7
42.5°	7141.6	7183.5	7201.8	7196.6	7256.8	7256.8	6887.7	6814.4	6550.0	6387.7
45°	7806.6	7840.6	7906.1	7953.2	7885.1	7919.2	7393.0	7364.2	7128.5	7097.1
47.5°	8382.5	8463.7	8610.3	8749.0	8838.0	8722.8	8146.9	7942.7	7882.5	8071.0
50°	8885.2	8788.3	9131.2	9272.6	9662.7	9853.8	8979.4	8898.2	8801.4	9162.7
52.5°	8934.9	9065.8	9550.1	9832.8	10636.5	10990.0	10000.4	9966.4	9848.5	10264.8
55°	9290.9	9275.2	9762.2	10374.7	11330.3	11924.5	11330.3	11309.3	11052.8	11448.1
57.5°	9230.7	9390.4	9775.2	10631.3	11956.0	12927.2	12872.2	12728.2	12369.6	12691.6
60°	9026.5	9068.4	9537.0	10623.4	12319.8	13956.0	14537.2	14566.0	13833.0	14089.5
62.5°	7869.4	7966.3	8560.5	9788.3	12060.7	14665.5	16162.9	16060.8	15474.4	15181.2
65°	6259.4	6162.5	6780.4	8107.6	10448.0	14162.8	16875.0	17254.6	16333.1	15796.4
67.5°	3837.8	3814.3	4408.5	5578.7	7817.1	12052.8	16306.9	16602.7	16094.9	15665.5
70°	1976.5	1916.3	2288.0	3112.7	4913.8	8843.3	14191.6	14482.2	14966.5	14050.3
72.5°	921.5	908.4	1107.4	1531.5	2502.7	5199.2	10990.0	11199.4	12220.4	11846.0
75°	541.9	549.8	662.3	801.1	1219.9	2450.4	7293.5	7699.2	8806.6	8537.0
77.5°	405.8	405.8	471.2	557.6	712.1	947.7	3599.6	4136.3	5149.4	4631.1
80°	298.4	303.7	361.3	418.9	494.8	489.5	1429.4	1675.5	2361.3	2018.4
82.5°	233.0	240.8	280.1	311.5	348.2	295.8	586.4	630.9	971.2	772.3
85°	162.3	167.5	219.9	212.1	212.1	164.9	243.5	256.6	384.8	366.5
87.5°	39.3	44.5	107.3	117.8	89.0	49.7	75.9	86.4	138.7	159.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574683

CATALOG NUMBER: EPH-VN-03-730-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3002.7	0°	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7
3055.1	2.5°	3015.8	3026.3	3070.8	3047.2	3060.3	3005.4	3049.9	3013.2	3044.6	3028.9
3078.7	5°	3099.6	3076.0	3102.2	3083.9	3083.9	3104.8	3136.2	3112.7	3159.8	3138.9
3097.0	7.5°	3133.6	3136.2	3152.0	3154.6	3141.5	3206.9	3209.5	3201.7	3246.2	3235.7
3222.6	10°	3217.4	3220.0	3248.8	3264.5	3251.4	3275.0	3248.8	3227.9	3225.3	3214.8
3322.1	12.5°	3350.9	3377.1	3371.9	3384.9	3387.6	3288.1	3227.9	3125.8	3112.7	3125.8
3468.7	15°	3474.0	3463.5	3468.7	3494.9	3384.9	3225.3	3117.9	3031.5	3036.8	3039.4
3659.8	17.5°	3620.6	3628.4	3636.3	3515.8	3314.3	3125.8	3031.5	3031.5	3005.4	3015.8
3793.3	20°	3788.1	3756.7	3688.6	3518.5	3191.2	3010.6	2981.8	2981.8	2950.4	2929.4
3937.3	22.5°	3919.0	3856.2	3754.1	3437.3	3081.3	2966.1	2895.4	2845.7	2809.0	2767.1
4097.0	25°	4002.8	3968.7	3769.8	3353.5	3000.1	2848.3	2743.6	2667.6	2620.5	2565.5
4222.7	27.5°	4131.0	4065.6	3814.3	3256.7	2911.1	2730.5	2568.2	2450.4	2361.3	2303.8
4413.8	30°	4303.8	4209.6	3782.9	3117.9	2775.0	2526.3	2335.2	2183.3	2081.2	2034.1
4594.4	32.5°	4445.2	4322.2	3756.7	2992.3	2623.1	2319.5	2065.5	1911.1	1853.5	1793.3
4898.1	35°	4714.8	4471.4	3738.4	2921.6	2487.0	2112.6	1845.6	1712.1	1638.8	1549.8
5078.7	37.5°	4921.7	4730.5	3693.9	2775.0	2311.6	1911.1	1678.1	1557.7	1447.7	1353.5
5497.6	40°	5246.3	5091.8	3696.5	2568.2	2104.8	1738.3	1547.2	1421.5	1282.8	1201.6
6118.0	42.5°	5856.2	5447.9	3712.2	2403.2	1871.8	1596.9	1429.4	1280.2	1141.4	1073.3
6824.9	45°	6605.0	5937.4	3615.3	2254.0	1633.6	1463.4	1288.0	1138.8	1049.8	1000.0
7785.6	47.5°	7466.3	6416.5	3484.4	1973.9	1434.6	1322.0	1157.1	1070.7	1005.3	976.5
9023.9	50°	8429.6	7102.4	3447.8	1717.3	1280.2	1201.6	1094.3	1028.8	984.3	950.3
10419.2	52.5°	9670.5	7900.8	3374.5	1452.9	1146.6	1104.8	1070.7	1026.2	986.9	958.2
11720.3	55°	10856.4	8785.7	3295.9	1235.6	1052.4	1057.6	1076.0	1036.7	1002.7	958.2
13178.5	57.5°	12191.6	9688.9	3005.4	1076.0	981.7	1034.1	1070.7	1026.2	992.2	958.2
14670.7	60°	13016.2	10196.7	2437.3	937.2	918.9	989.6	1039.3	992.2	955.5	968.6
15356.6	62.5°	13351.3	9929.7	1837.8	850.8	874.4	929.4	989.6	971.2	945.1	994.8
15348.8	65°	12780.6	9314.5	1314.2	777.5	814.2	869.1	945.1	966.0	973.9	1070.7
14097.4	67.5°	11372.2	8110.3	966.0	717.3	751.3	832.5	976.5	1010.5	1005.3	1125.7
11830.3	70°	9099.8	6343.2	754.0	667.6	727.8	861.3	1021.0	1021.0	984.3	1125.7
9023.9	72.5°	6620.7	4471.4	649.2	610.0	667.6	790.6	1015.7	1013.1	966.0	1028.8
5746.3	75°	4008.0	2602.2	573.3	552.4	573.3	678.0	971.2	955.5	890.1	884.9
2764.5	77.5°	1997.5	1309.0	468.6	489.5	500.0	568.1	853.4	877.0	788.0	767.0
1091.7	80°	843.0	570.7	390.1	421.5	421.5	479.1	709.5	725.2	654.5	615.2
432.0	82.5°	384.8	327.2	332.5	366.5	342.9	371.7	562.8	581.2	531.4	466.0
183.3	85°	162.3	185.9	253.9	288.0	253.9	240.8	387.4	408.4	345.6	288.0
78.5	87.5°	73.3	102.1	159.7	209.4	128.3	112.6	206.8	214.7	172.8	128.3
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°
3002.7
3000.1
3110.1
3220.0
3214.8
3131.0
3076.0
3018.4
2898.0
2743.6
2576.0
2329.9
2060.3
1790.6
1541.9
1356.1
1209.5
1078.6
1010.5
971.2
955.5
955.5
955.5
955.5
958.2
981.7
1070.7
1133.6
1102.1
992.2
874.4
754.0
602.1
455.5
290.6
120.4
0.0

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