

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: P575216

Luminaire Tested: **EPH-VN-04-740-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

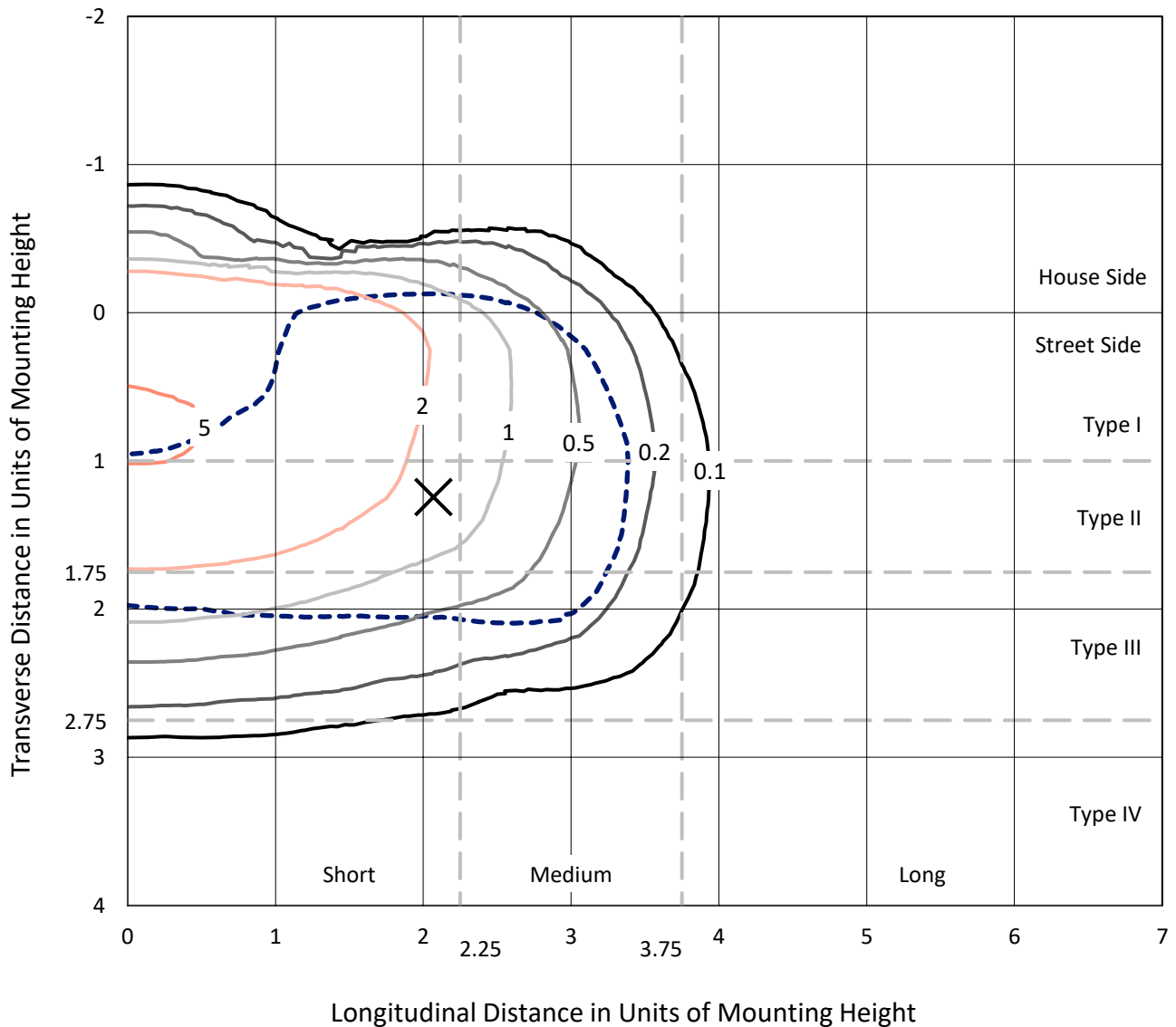
Lumens per Lamp: N/A
Luminaire Lumens: 22425.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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: P575216
 CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

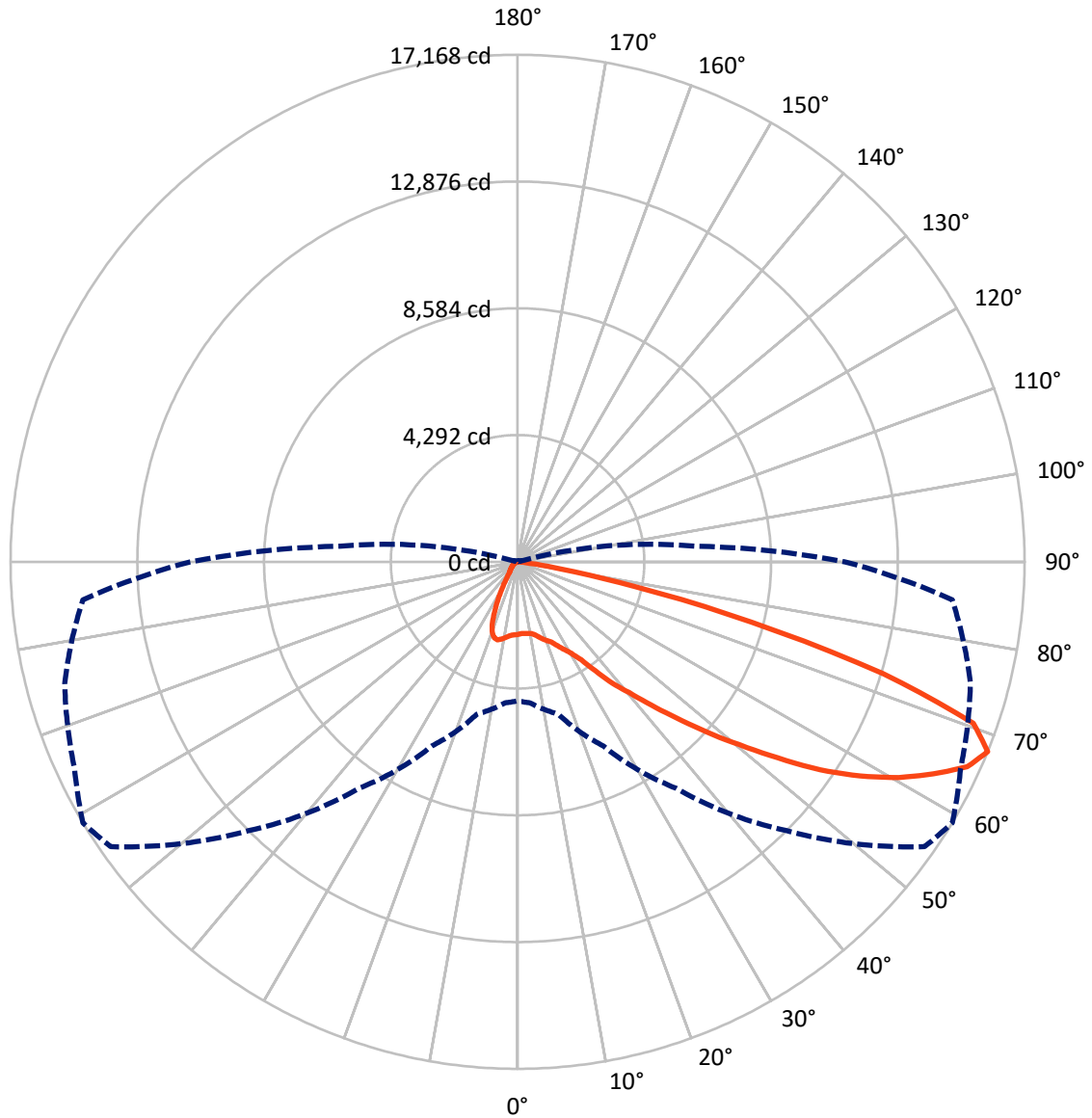
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P575216
CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

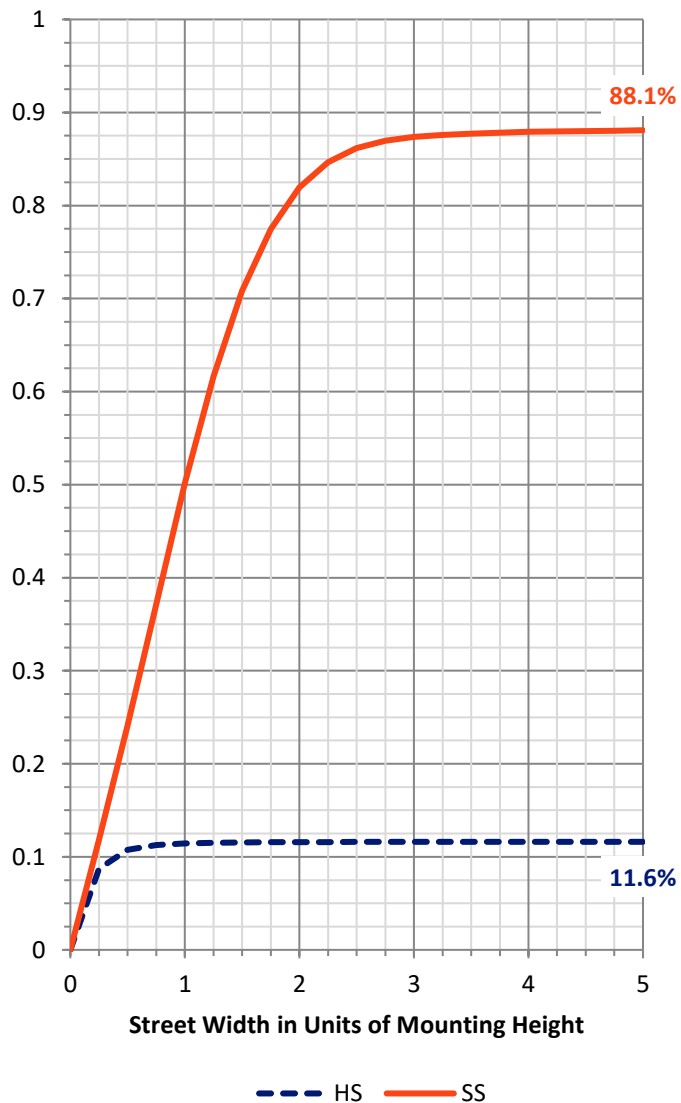
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.2	0.0	2634.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	19790.9	0.0	19790.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	22425.2	0.0	22425.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	1.0
10°-20°	674.9	3.0
20°-30°	1179.5	5.3
30°-40°	2076.7	9.3
40°-50°	3671.0	16.4
50°-60°	5812.5	25.9
60°-70°	6447.6	28.8
70°-80°	2237.2	10.0
80°-90°	92.1	0.4
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°	22425.2	100.0
0°-180°	22425.2	100.0

Coefficient of Utilization

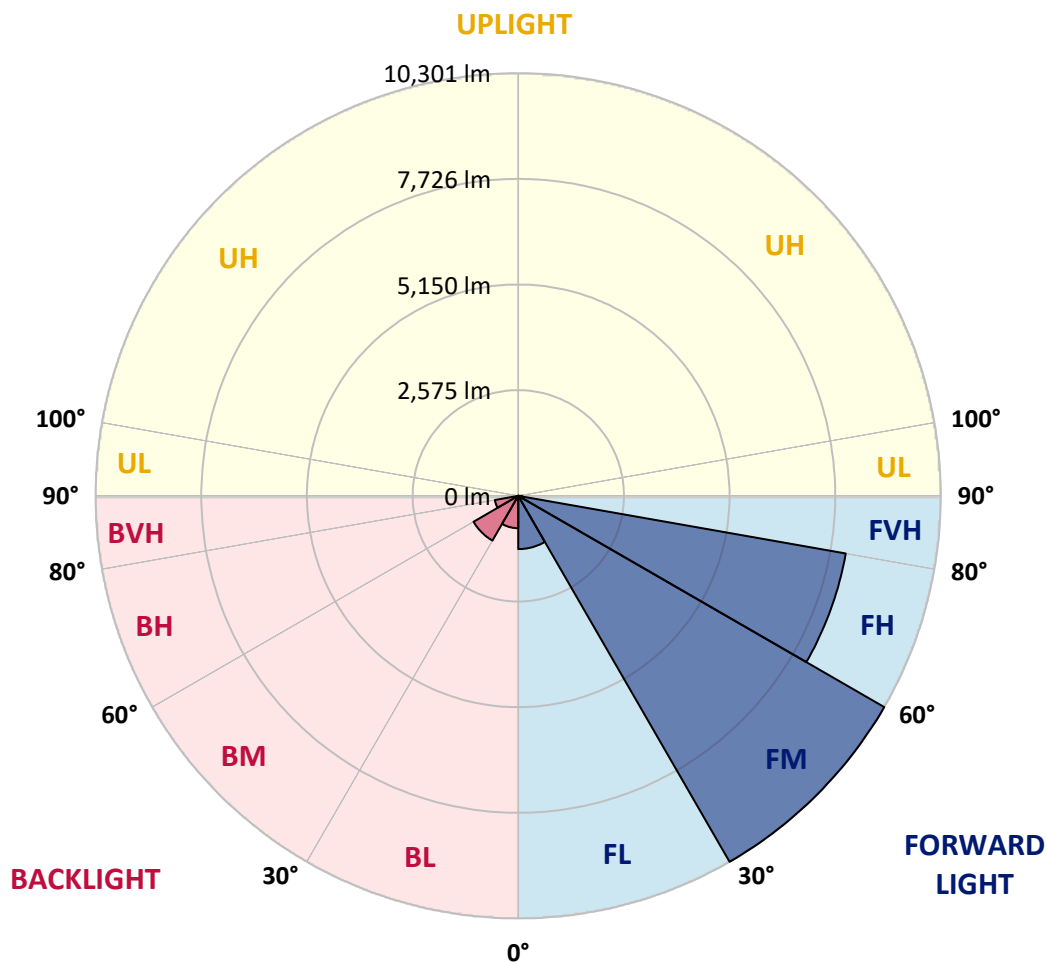


REPORT NUMBER: P575216
 CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.6	5.8			
FM	(30°-60°)	10300.7	45.9			
FH	(60°-80°)	8105.5	36.1			G4/12000
FVH	(80°-90°)	86.2	0.4			G1/100
BL	(0°-30°)	789.5	3.5	B2/1000		
BM	(30°-60°)	1259.5	5.6	B2/2500		
BH	(60°-80°)	579.3	2.6	B2/1000		G2/1000
BVH	(80°-90°)	6.0	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-G4
 Type III Short





REPORT NUMBER: P575216
 CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2388.4	2354.3	2385.3	2388.4	2391.5	2419.4	2450.3	2428.7	2425.6	2450.3
5°	2292.4	2276.9	2314.0	2332.6	2363.6	2388.4	2438.0	2441.1	2444.1	2472.0
7.5°	2252.1	2214.9	2258.3	2280.0	2301.7	2360.5	2419.4	2450.3	2493.7	2527.8
10°	2171.5	2199.4	2211.8	2249.0	2310.9	2379.1	2450.3	2465.8	2561.9	2589.7
12.5°	2199.4	2218.0	2242.8	2252.1	2320.2	2422.5	2518.5	2524.7	2623.8	2744.6
15°	2270.7	2258.3	2267.6	2280.0	2360.5	2444.1	2599.0	2626.9	2719.9	2856.2
17.5°	2422.5	2400.8	2385.3	2382.2	2400.8	2478.2	2661.0	2744.6	2831.4	3017.2
20°	2803.5	2784.9	2722.9	2561.9	2506.1	2537.1	2735.3	2853.1	2973.9	3181.4
22.5°	3382.8	3401.4	3255.8	3029.6	2797.3	2676.5	2853.1	2955.3	3147.3	3410.7
25°	4067.4	4030.2	3853.6	3590.3	3224.8	2939.8	3042.0	3156.6	3392.1	3608.9
27.5°	4603.3	4559.9	4423.6	4104.6	3788.6	3327.0	3289.8	3361.1	3639.9	3835.1
30°	5133.0	5148.5	5055.6	4677.6	4287.3	3801.0	3565.5	3596.5	3810.3	4061.2
32.5°	5808.3	5771.2	5718.5	5387.0	4925.5	4405.0	4002.3	3952.8	4045.7	4377.2
35°	6437.2	6415.5	6344.3	6009.7	5607.0	5040.1	4646.7	4535.2	4513.5	4882.1
37.5°	6985.5	6948.3	6839.9	6626.2	6235.8	5758.8	5328.2	5229.1	5226.0	5480.0
40°	7447.1	7474.9	7462.6	7227.1	7013.4	6632.3	5972.5	5814.5	5802.1	5938.4
42.5°	8044.9	8110.0	8075.9	8029.4	7772.3	7623.6	6877.1	6635.4	6527.0	6805.8
45°	8949.5	8974.3	8996.0	8881.3	8624.2	8655.2	7812.6	7524.5	7496.6	7911.7
47.5°	9795.2	9730.1	9881.9	9888.1	9875.7	9733.2	8822.5	8608.7	8645.9	8961.9
50°	10005.8	10173.1	10591.3	10668.8	10870.1	11000.2	9943.9	9730.1	9792.1	10151.4
52.5°	10170.0	10424.0	10842.2	11409.1	11951.2	12261.0	11198.5	11025.0	11021.9	11241.8
55°	10458.1	10613.0	10975.4	11756.1	12787.6	13295.7	12710.2	12431.4	12180.5	12335.4
57.5°	10430.2	10489.1	11052.9	12016.3	13450.6	14373.7	13952.4	13686.0	13363.8	13274.0
60°	9940.8	10080.2	10712.1	11839.7	13859.5	15213.2	15111.0	14838.4	14283.9	14073.2
62.5°	8971.2	9157.0	9652.7	11220.2	13264.7	15256.6	15910.2	15808.0	15188.4	14810.5
65°	7270.5	7357.2	7927.2	9646.5	11920.3	14590.5	16855.0	16728.0	16158.0	15594.2
67.5°	4708.6	4792.3	5340.6	6886.4	9361.5	12871.3	16817.9	17167.9	16551.4	15873.0
70°	2224.2	2202.5	2713.7	3825.8	5997.3	9829.3	15681.0	16371.8	15848.2	14389.2
72.5°	678.4	737.3	1127.6	1694.5	3079.2	6130.5	12292.0	12939.4	12775.2	11495.9
75°	300.5	325.3	443.0	693.9	1248.4	2515.4	7592.7	8168.8	8097.6	6781.0
77.5°	192.1	210.6	278.8	396.5	566.9	799.2	3497.4	4058.1	3934.2	2382.2
80°	136.3	145.6	198.3	272.6	356.2	328.4	1205.0	1431.2	1372.3	647.4
82.5°	74.3	80.5	145.6	201.4	238.5	167.3	337.7	421.3	439.9	288.1
85°	27.9	34.1	89.8	142.5	123.9	77.4	99.1	120.8	158.0	158.0
87.5°	0.0	3.1	37.2	62.0	31.0	21.7	27.9	34.1	43.4	74.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575216

CATALOG NUMBER: EPH-VN-04-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2459.6	0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2472.0	2.5°	2487.5	2465.8	2475.1	2490.6	2456.5	2475.1	2438.0	2465.8	2475.1	2438.0
2509.2	5°	2518.5	2540.2	2527.8	2503.0	2481.3	2487.5	2478.2	2456.5	2475.1	2481.3
2565.0	7.5°	2608.3	2583.5	2589.7	2561.9	2518.5	2515.4	2456.5	2441.1	2447.2	2453.4
2679.6	10°	2692.0	2707.5	2676.5	2654.8	2583.5	2537.1	2456.5	2369.8	2360.5	2323.3
2791.1	12.5°	2840.7	2803.5	2791.1	2719.9	2648.6	2493.7	2320.2	2187.0	2075.5	2035.2
2970.8	15°	2964.6	2958.4	2936.7	2828.3	2664.1	2382.2	2053.8	1744.1	1530.3	1397.1
3076.1	17.5°	3135.0	3107.1	3066.8	2896.4	2549.5	2091.0	1530.3	1140.0	926.2	842.6
3277.5	20°	3265.1	3243.4	3187.6	2880.9	2341.9	1558.2	947.9	724.9	672.2	656.7
3497.4	22.5°	3454.0	3385.9	3280.6	2803.5	1964.0	1037.8	681.5	647.4	638.1	625.8
3643.0	25°	3618.2	3556.3	3336.3	2670.3	1400.2	687.7	631.9	613.4	597.9	582.4
3797.9	27.5°	3763.8	3686.4	3395.2	2397.7	876.7	591.7	585.5	563.8	532.8	508.0
3977.6	30°	3906.3	3816.5	3410.7	1886.5	591.7	535.9	520.4	486.4	446.1	412.0
4278.0	32.5°	4144.8	4036.4	3389.0	1347.5	511.1	477.1	443.0	402.7	343.9	316.0
4708.6	35°	4516.6	4352.4	3361.1	793.0	458.5	421.3	368.6	316.0	272.6	244.7
5145.4	37.5°	4944.1	4659.1	3280.6	529.7	421.3	371.7	303.6	250.9	213.7	192.1
5743.3	40°	5579.1	5108.2	2970.8	433.7	374.8	316.0	244.7	198.3	170.4	154.9
6629.3	42.5°	6279.2	5622.5	2493.7	390.3	331.5	269.5	195.2	161.1	139.4	123.9
7515.2	45°	7118.7	6158.4	1923.7	356.2	294.3	223.0	161.1	130.1	111.5	99.1
8553.0	47.5°	8054.2	6644.7	1298.0	322.2	247.8	182.8	133.2	99.1	80.5	71.2
9683.7	50°	8890.6	7075.3	827.1	281.9	216.8	151.8	108.4	80.5	65.1	52.7
10597.5	52.5°	9649.6	7403.7	570.0	247.8	185.9	123.9	89.8	65.1	49.6	40.3
11545.4	55°	10427.1	7571.0	421.3	213.7	161.1	105.3	74.3	58.9	43.4	34.1
12635.8	57.5°	11065.3	7642.2	322.2	185.9	136.3	83.6	65.1	49.6	37.2	27.9
13472.2	60°	11610.5	7608.2	250.9	154.9	108.4	71.2	55.8	40.3	31.0	21.7
14562.7	62.5°	11929.6	7403.7	198.3	133.2	86.7	62.0	46.5	34.1	21.7	15.5
15123.4	65°	11935.8	6970.0	154.9	99.1	65.1	52.7	40.3	27.9	15.5	6.2
14773.3	67.5°	11080.8	6031.4	123.9	77.4	52.7	40.3	31.0	21.7	6.2	0.0
12270.3	70°	8667.6	4563.0	102.2	62.0	43.4	34.1	21.7	12.4	3.1	0.0
8190.5	72.5°	5523.3	2732.2	83.6	49.6	37.2	24.8	15.5	9.3	0.0	0.0
3739.0	75°	2310.9	842.6	65.1	43.4	27.9	18.6	12.4	3.1	0.0	0.0
978.9	77.5°	594.8	266.4	52.7	37.2	27.9	15.5	9.3	3.1	0.0	0.0
263.3	80°	176.6	99.1	43.4	31.0	21.7	12.4	6.2	3.1	0.0	0.0
127.0	82.5°	80.5	58.9	37.2	27.9	18.6	12.4	6.2	0.0	0.0	0.0
58.9	85°	31.0	18.6	18.6	15.5	15.5	9.3	3.1	0.0	0.0	0.0
21.7	87.5°	12.4	6.2	6.2	6.2	3.1	3.1	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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180°
2459.6
2456.5
2468.9
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1995.0
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498.7
405.8
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185.9
148.7
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