

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: P575329

Luminaire Tested: **EPH-VN-03-735-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

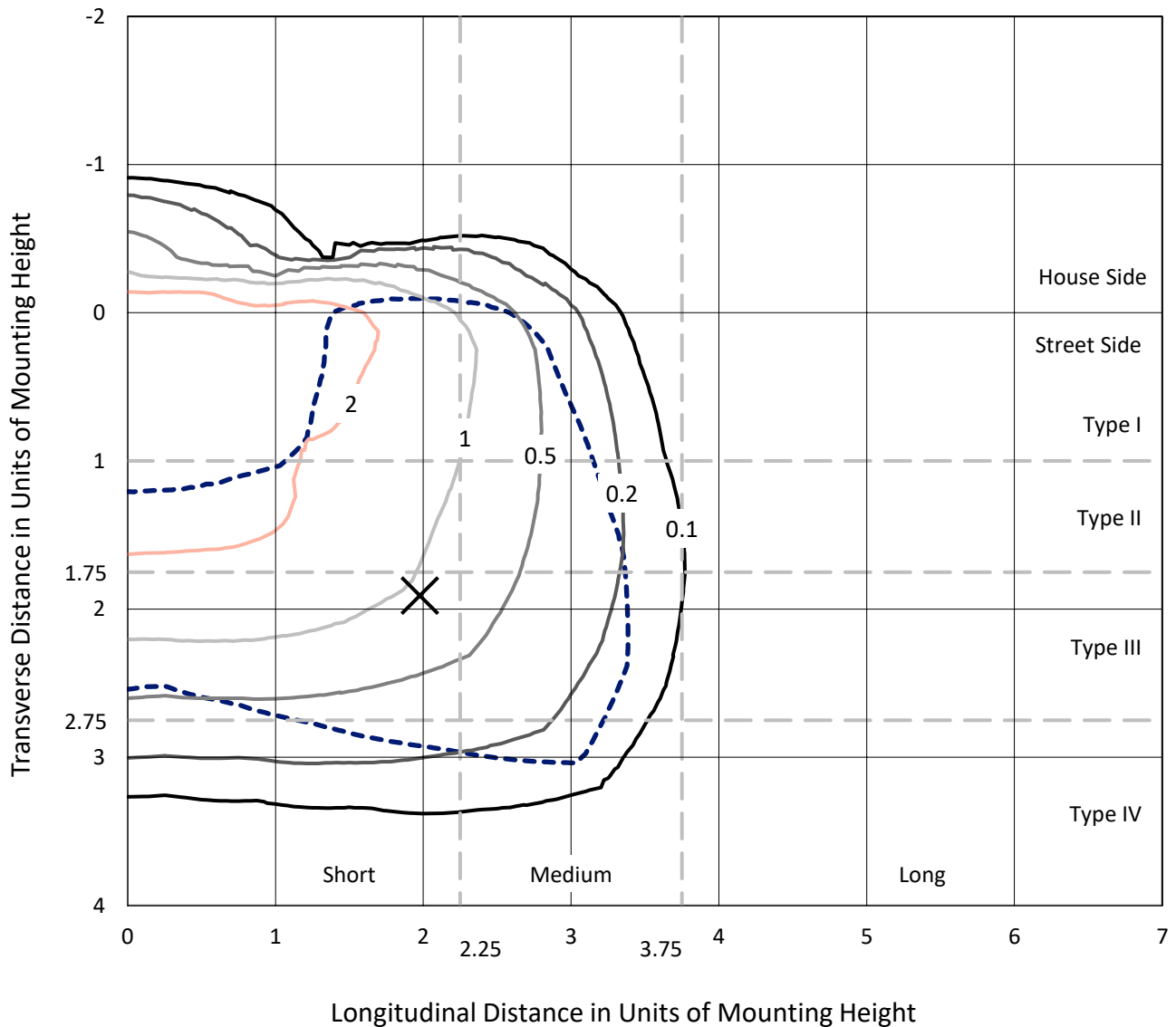
Lumens per Lamp: N/A
Luminaire Lumens: 16961.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 184.1
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: P575329
 CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

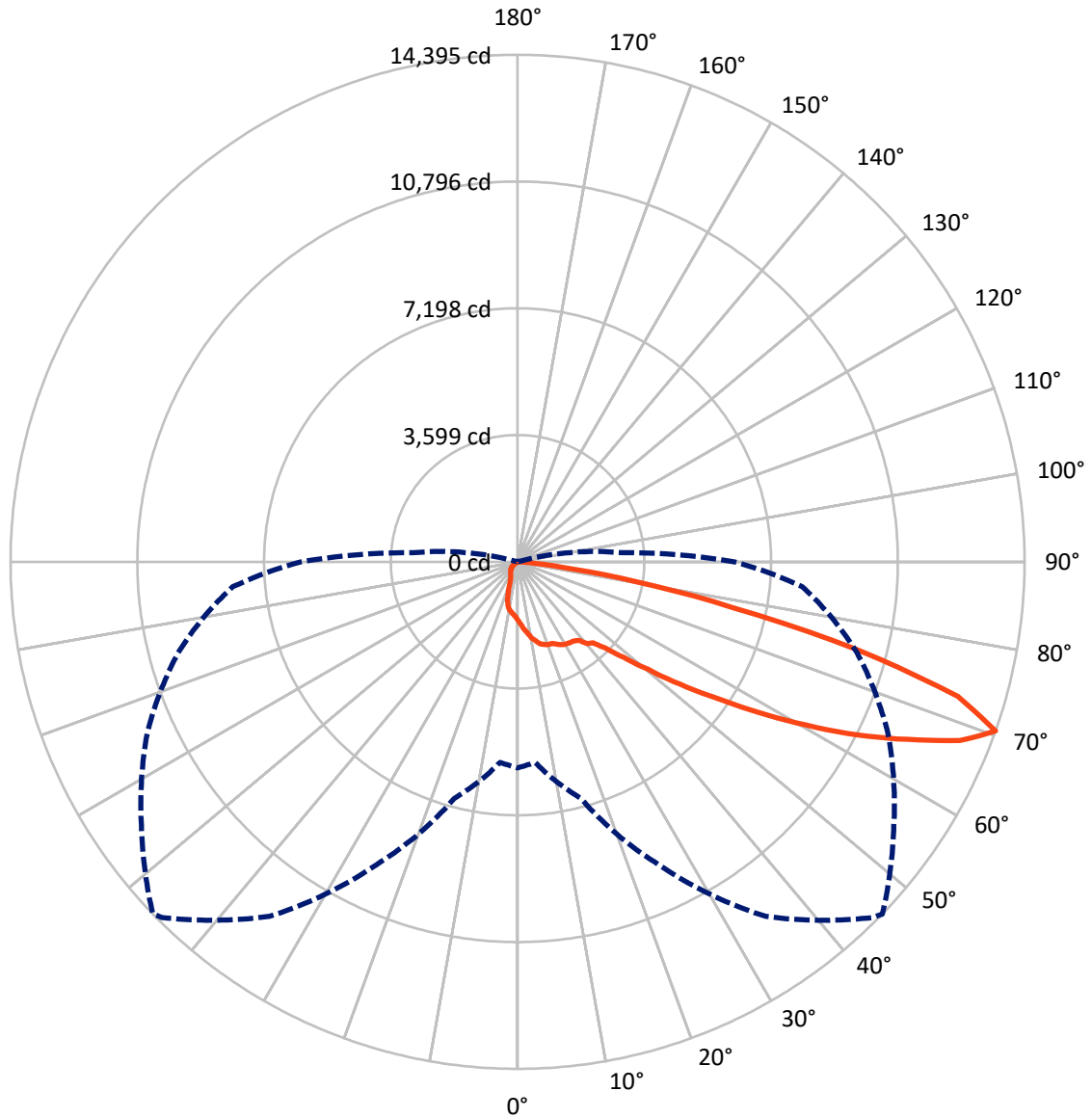
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P575329
CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P575329
 CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

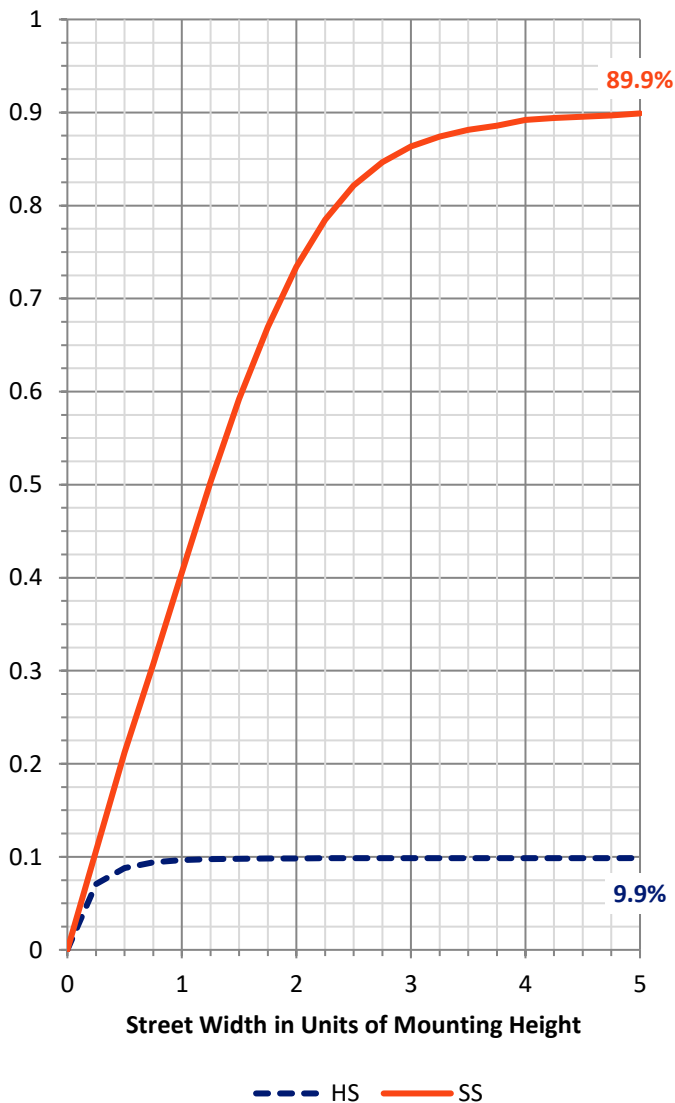
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.7	0.0	1687.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15273.9	0.0	15273.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	16961.6	0.0	16961.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.0
10°-20°	501.4	3.0
20°-30°	803.1	4.7
30°-40°	1146.4	6.8
40°-50°	1979.5	11.7
50°-60°	3789.8	22.3
60°-70°	5612.1	33.1
70°-80°	2779.6	16.4
80°-90°	183.7	1.1
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°	16961.6	100.0
0°-180°	16961.6	100.0

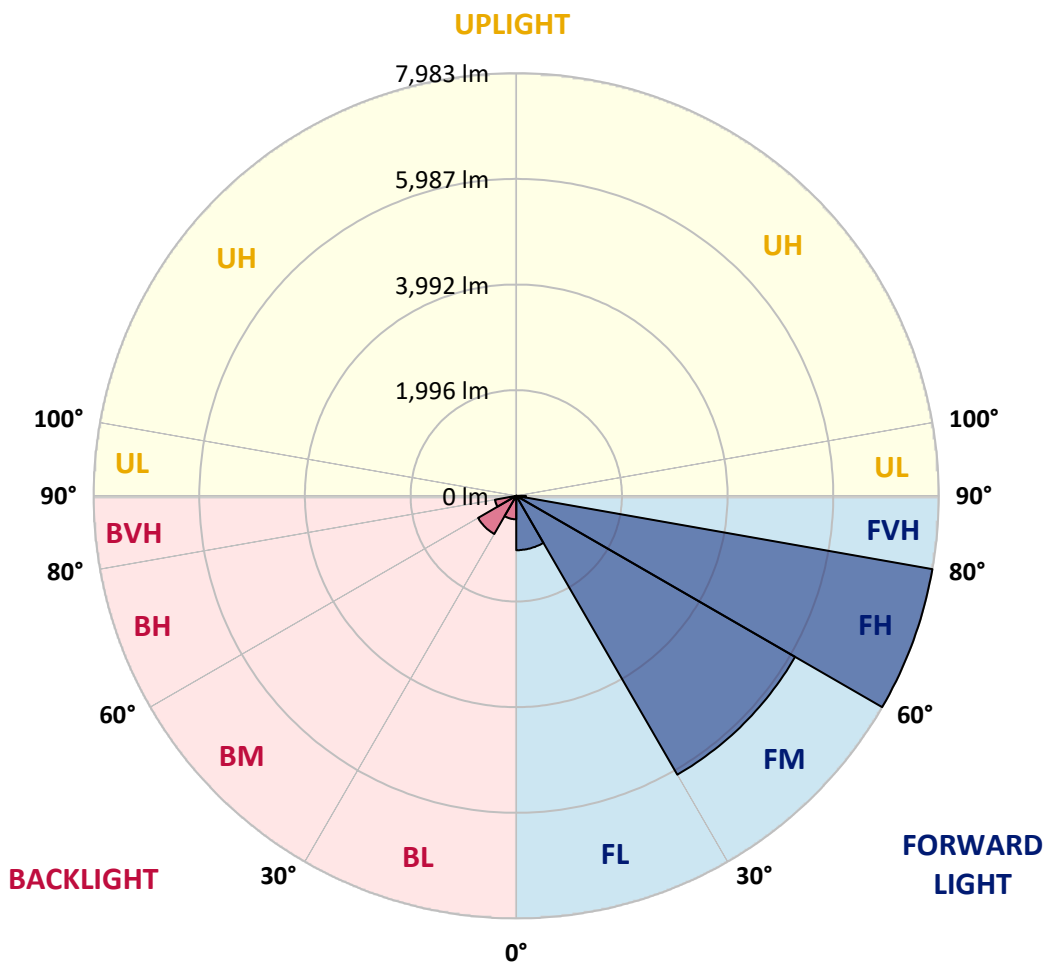


REPORT NUMBER: P575329
 CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.1	6.1			
FM (30°-60°)	6082.4	35.9			
FH (60°-80°)	7983.0	47.1			G4/12000
FVH (80°-90°)	181.3	1.1			G2/225
BL (0°-30°)	443.4	2.6	B1/500		
BM (30°-60°)	833.2	4.9	B1/1000		
BH (60°-80°)	408.8	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





REPORT NUMBER: P575329
 CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1858.0	1845.8	1826.2	1818.9	1799.4	1789.6	1775.0	1767.6	1740.8	1713.9
5°	2085.0	2055.7	2065.5	2036.2	1972.7	1921.5	1919.0	1862.9	1801.8	1753.0
7.5°	2314.5	2290.1	2253.5	2212.0	2141.2	2065.5	2043.5	1989.8	1904.4	1818.9
10°	2487.9	2470.8	2439.1	2380.5	2282.8	2197.4	2199.8	2109.5	2019.1	1921.5
12.5°	2595.3	2602.6	2556.3	2497.7	2412.2	2304.8	2302.3	2241.3	2138.8	2036.2
15°	2702.7	2729.6	2658.8	2590.4	2480.6	2402.4	2417.1	2343.8	2243.7	2126.5
17.5°	2719.8	2727.2	2712.5	2612.4	2531.8	2465.9	2468.4	2419.5	2343.8	2216.9
20°	2690.5	2685.7	2668.6	2595.3	2541.6	2502.5	2505.0	2492.8	2451.3	2348.7
22.5°	2605.1	2605.1	2583.1	2534.3	2509.9	2546.5	2517.2	2563.6	2519.6	2458.6
25°	2536.7	2563.6	2551.4	2519.6	2529.4	2578.2	2592.9	2636.8	2629.5	2553.8
27.5°	2610.0	2578.2	2585.5	2548.9	2585.5	2658.8	2666.1	2697.9	2695.4	2634.4
30°	2658.8	2688.1	2631.9	2551.4	2590.4	2714.9	2710.1	2751.6	2771.1	2697.9
32.5°	2815.1	2790.6	2744.2	2636.8	2641.7	2712.5	2734.5	2788.2	2800.4	2756.5
35°	3134.9	3098.3	2895.6	2734.5	2710.1	2744.2	2758.9	2863.9	2885.9	2837.0
37.5°	3628.1	3545.1	3300.9	2944.5	2834.6	2827.3	2827.3	2966.4	3049.4	2937.1
40°	4333.7	4216.5	3952.8	3332.6	2998.2	3027.5	3056.8	3132.4	3122.7	3049.4
42.5°	5232.1	5141.8	4856.1	3984.5	3310.7	3164.2	3139.8	3242.3	3396.1	3366.8
45°	5981.7	5986.6	5803.4	4878.1	3850.2	3479.1	3496.2	3574.4	3833.2	3811.2
47.5°	6528.6	6460.2	6433.4	5740.0	4636.4	4077.3	4052.9	4106.6	4443.5	4582.7
50°	7026.6	6980.3	6916.8	6577.4	5581.3	4826.8	4802.4	4807.3	5322.5	5517.8
52.5°	7644.3	7702.9	7493.0	7285.4	6804.5	5801.0	5774.1	5678.9	6318.6	6587.2
55°	8406.1	8296.2	8059.4	8166.8	7973.9	6853.3	6804.5	6692.2	7453.9	7566.2
57.5°	8574.6	8491.5	8735.7	9116.6	9302.1	8088.7	8069.2	7866.5	8408.5	8306.0
60°	8994.5	9016.5	9355.8	10112.7	10435.0	9514.5	9419.3	9062.9	9333.9	9353.4
62.5°	9426.6	9375.4	10134.7	10862.2	11357.9	10864.7	10832.9	10124.9	10432.5	10183.5
65°	9109.2	9187.4	10273.8	11492.1	12554.2	12185.5	12158.7	11147.9	11316.4	11006.3
67.5°	7981.3	7822.6	9343.6	11204.0	13169.5	13569.9	13540.6	12263.7	11814.4	11001.4
70°	5849.8	5713.1	6953.4	9487.7	12288.1	14277.9	14395.1	13040.1	11611.8	9976.0
72.5°	2866.3	2868.8	3896.6	6433.4	9722.1	13013.2	13071.8	11956.0	9976.0	7353.8
75°	847.2	857.0	1442.9	3154.4	6284.4	9883.2	9949.1	9075.1	6914.3	3799.0
77.5°	310.1	310.1	478.5	1184.1	3134.9	6238.0	6233.2	5571.5	3501.1	1286.7
80°	161.1	168.5	249.0	483.4	1357.5	3249.6	3371.7	2727.2	1330.6	542.0
82.5°	65.9	73.2	136.7	249.0	651.9	1140.2	1247.6	1069.4	578.6	378.4
85°	19.5	22.0	65.9	139.2	256.4	285.7	317.4	358.9	363.8	293.0
87.5°	2.4	2.4	26.9	46.4	56.2	61.0	70.8	70.8	185.6	205.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575329

CATALOG NUMBER: EPH-VN-03-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1665.1	0°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
1696.8	2.5°	1677.3	1665.1	1645.6	1601.6	1591.9	1560.1	1557.7	1528.4	1538.1
1687.1	5°	1665.1	1638.2	1584.5	1550.4	1516.2	1494.2	1479.5	1467.3	1464.9
1731.0	7.5°	1687.1	1650.5	1567.4	1513.7	1455.1	1435.6	1403.9	1401.4	1384.3
1801.8	10°	1760.3	1694.4	1604.1	1513.7	1438.0	1374.6	1301.3	1247.6	1228.1
1894.6	12.5°	1818.9	1760.3	1628.5	1535.7	1421.0	1276.9	1115.8	991.2	932.7
1970.3	15°	1901.9	1816.5	1674.9	1540.6	1355.0	1106.0	842.3	703.2	649.4
2082.6	17.5°	1992.3	1901.9	1733.5	1528.4	1220.8	854.5	620.1	539.6	549.3
2165.6	20°	2092.4	1982.5	1777.4	1486.9	1008.3	620.1	507.8	505.4	520.0
2307.2	22.5°	2197.4	2102.1	1831.1	1362.4	752.0	498.1	488.3	488.3	498.1
2404.9	25°	2314.5	2187.6	1858.0	1169.5	539.6	459.0	463.9	473.7	478.5
2492.8	27.5°	2404.9	2282.8	1865.3	937.5	439.5	424.8	437.0	449.2	456.6
2575.8	30°	2487.9	2402.4	1826.2	698.3	402.8	395.5	400.4	417.5	432.1
2656.4	32.5°	2592.9	2470.8	1735.9	495.6	380.9	368.7	366.2	373.5	390.6
2741.8	35°	2700.3	2585.5	1591.9	398.0	361.3	344.3	334.5	327.2	334.5
2868.8	37.5°	2856.6	2758.9	1411.2	366.2	346.7	322.3	302.7	285.7	273.4
3034.8	40°	3078.7	2954.2	1179.2	344.3	329.6	300.3	271.0	241.7	214.9
3357.1	42.5°	3415.7	3242.3	927.8	332.0	317.4	275.9	234.4	192.9	158.7
3808.7	45°	3896.6	3623.2	681.2	319.8	302.7	246.6	192.9	144.0	109.9
4646.2	47.5°	4621.8	4082.2	488.3	300.3	283.2	214.9	151.4	102.5	80.6
5674.0	50°	5569.1	4626.6	380.9	278.3	258.8	180.7	112.3	75.7	63.5
6772.7	52.5°	6562.8	5176.0	334.5	258.8	222.2	144.0	83.0	61.0	53.7
7761.5	55°	7412.4	5530.0	290.5	229.5	178.2	107.4	65.9	53.7	46.4
8857.8	57.5°	8271.8	5708.2	229.5	190.4	131.8	80.6	56.2	46.4	39.1
9941.8	60°	8970.1	5835.2	163.6	141.6	92.8	63.5	48.8	41.5	31.7
10962.3	62.5°	9429.1	5471.4	119.6	107.4	68.4	53.7	41.5	34.2	24.4
11377.4	65°	9202.0	4968.5	92.8	75.7	51.3	41.5	34.2	24.4	17.1
10515.5	67.5°	8257.2	4048.0	75.7	56.2	39.1	31.7	26.9	19.5	9.8
8113.1	70°	6159.9	2966.4	61.0	41.5	31.7	24.4	19.5	12.2	4.9
4594.9	72.5°	3369.3	1623.6	48.8	34.2	24.4	19.5	14.6	9.8	4.9
1567.4	75°	1113.3	432.1	36.6	24.4	14.6	12.2	9.8	7.3	2.4
366.2	77.5°	268.6	112.3	29.3	22.0	12.2	7.3	4.9	2.4	2.4
107.4	80°	83.0	46.4	22.0	14.6	9.8	7.3	2.4	0.0	0.0
48.8	82.5°	34.2	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0
22.0	85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0
12.2	87.5°	12.2	4.9	2.4	2.4	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

(END O



180°
1665.1
1511.3
1450.3
1367.2
1189.0
898.5
634.8
561.5
546.9
520.0
502.9
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446.8
407.7
356.5
278.3
200.2
141.6
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