

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: P575335

Luminaire Tested: **EPH-VN-03-740-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575335
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

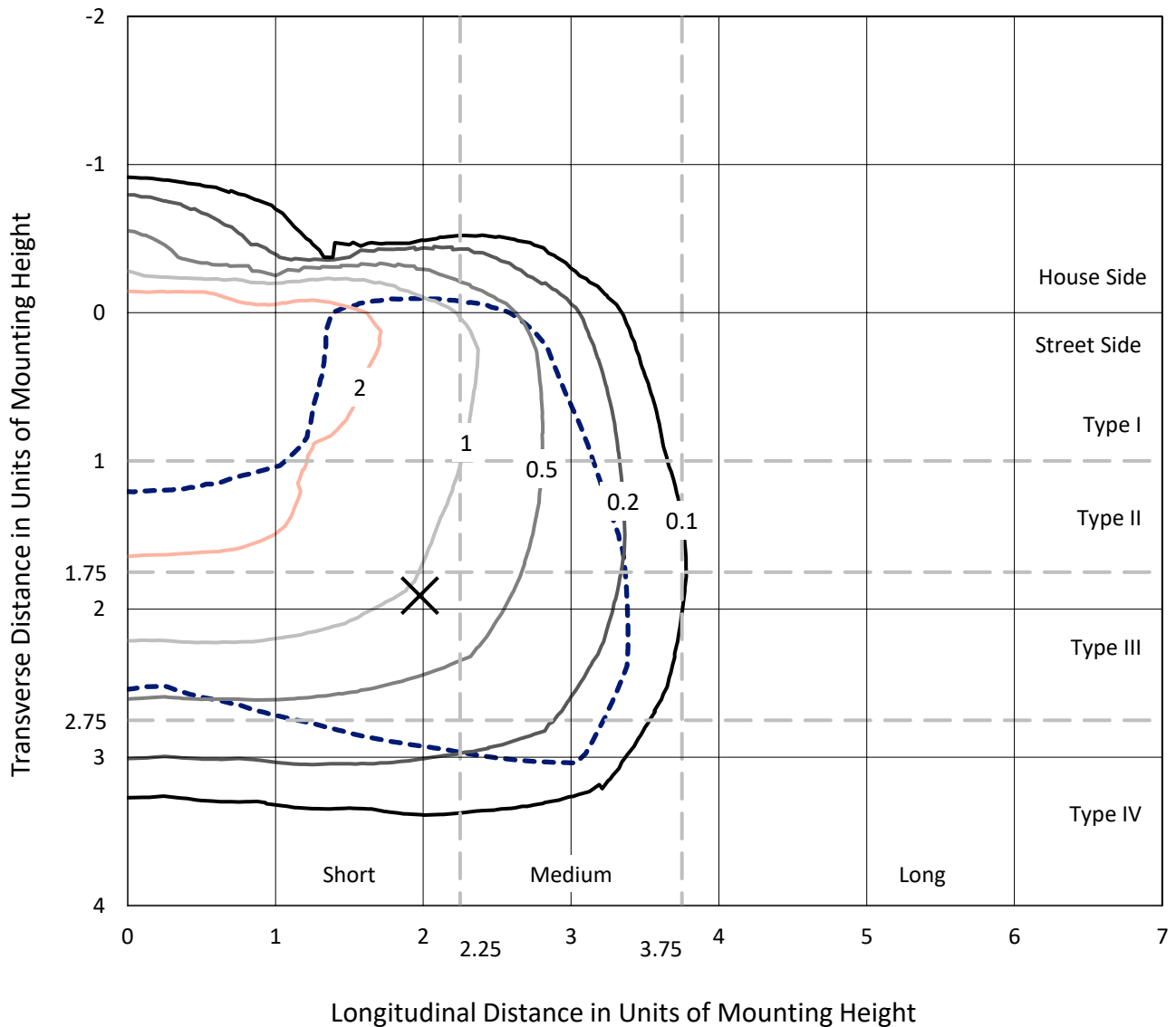
Lumens per Lamp: N/A
Luminaire Lumens: 17197.2 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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: P575335
 CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

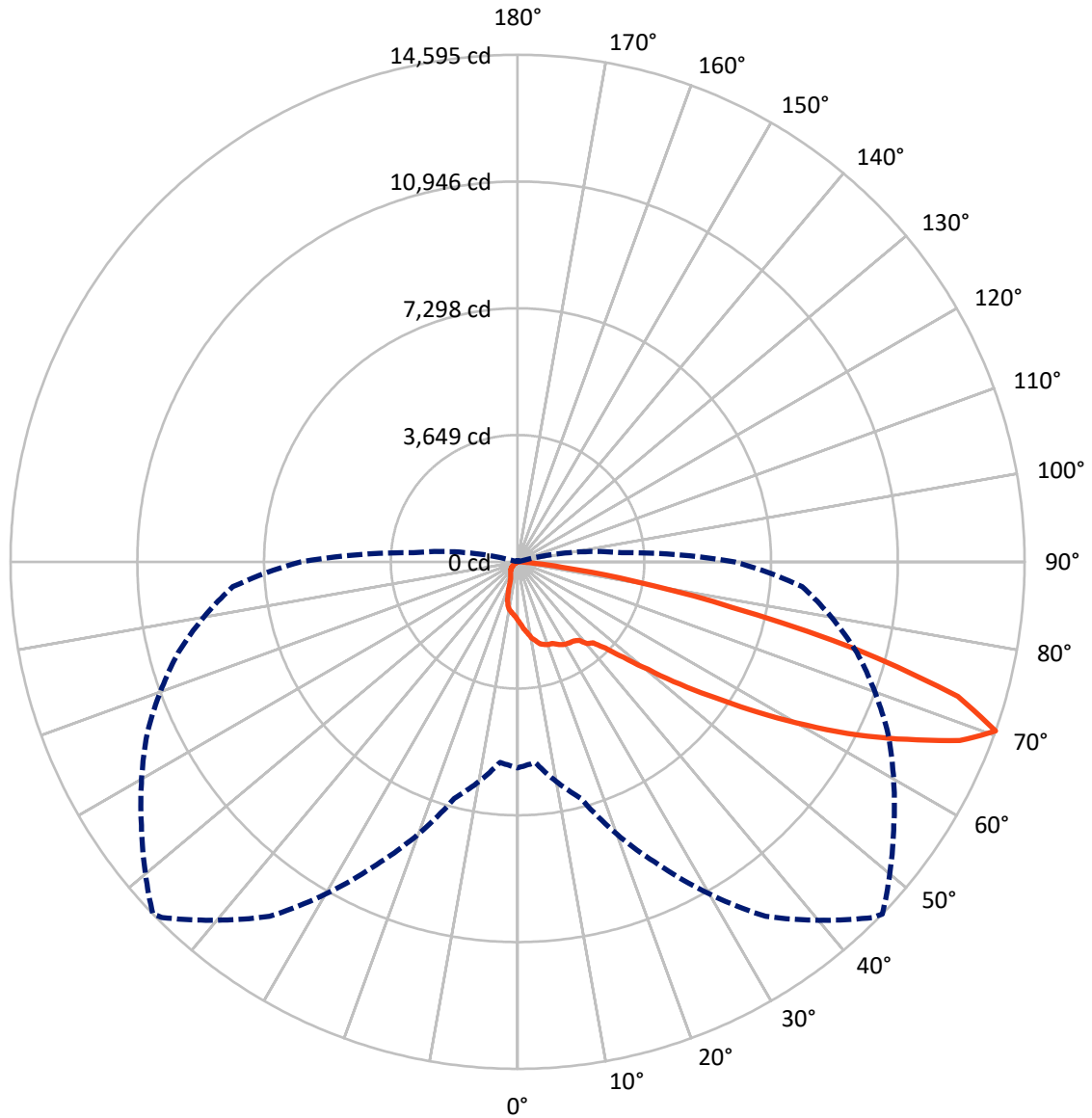
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P575335
CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575335
 CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

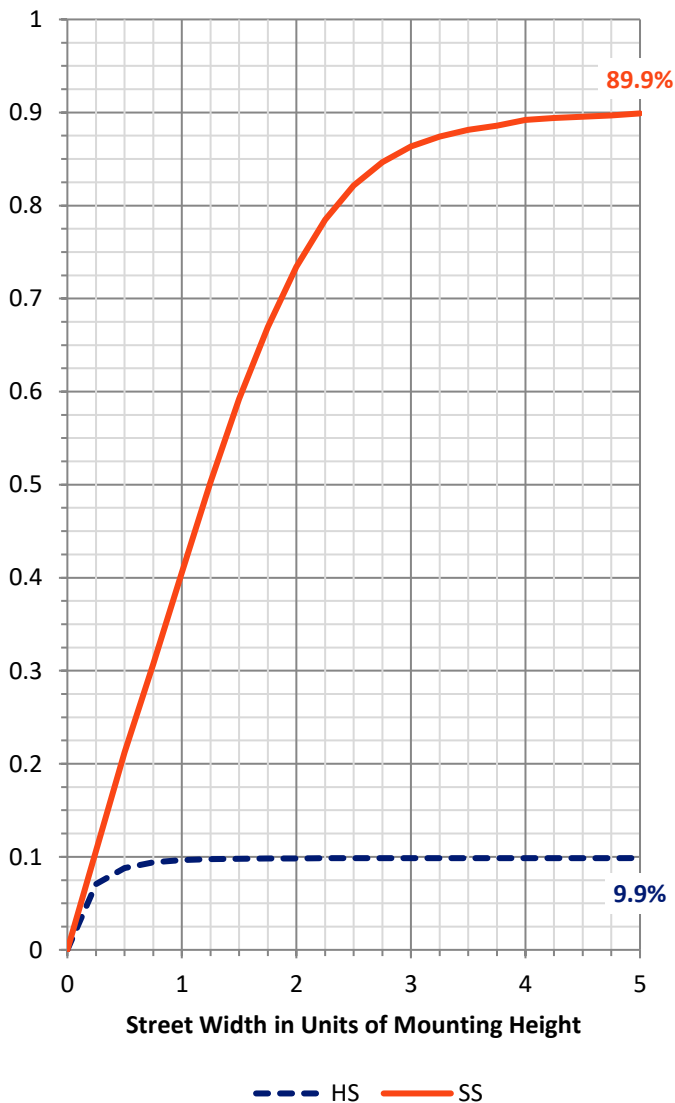
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1711.2	0.0	1711.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15486.0	0.0	15486.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	17197.2	0.0	17197.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.0
10°-20°	508.4	3.0
20°-30°	814.3	4.7
30°-40°	1162.3	6.8
40°-50°	2006.9	11.7
50°-60°	3842.5	22.3
60°-70°	5690.1	33.1
70°-80°	2818.2	16.4
80°-90°	186.2	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°	17197.2	100.0
0°-180°	17197.2	100.0



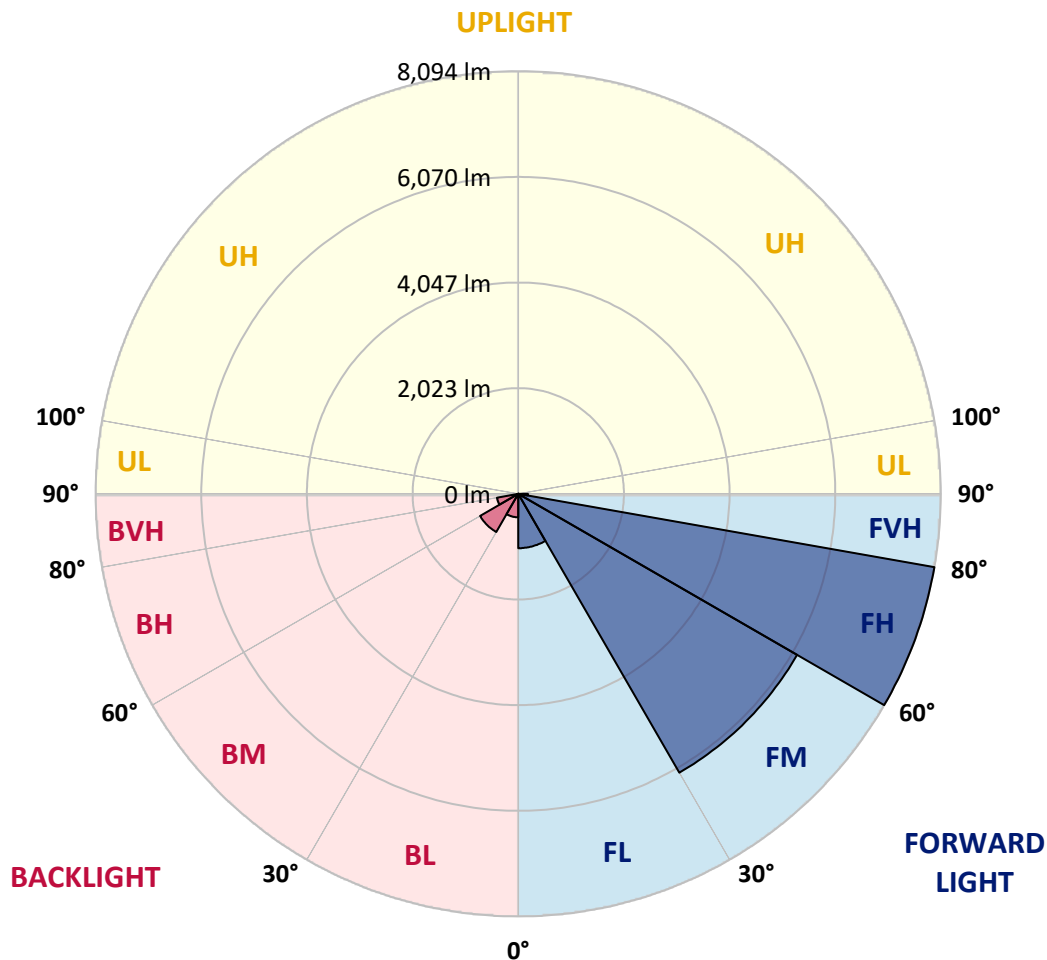
REPORT NUMBER: P575335
 CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.4	6.1			
FM (30°-60°)	6166.9	35.9			
FH (60°-80°)	8093.9	47.1			G4/12000
FVH (80°-90°)	183.9	1.1			G2/225
BL (0°-30°)	449.6	2.6	B1/500		
BM (30°-60°)	844.8	4.9	B1/1000		
BH (60°-80°)	414.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	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: P575335

CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2
2.5°	1883.8	1871.4	1851.6	1844.2	1824.4	1814.5	1799.6	1792.2	1765.0	1737.7
5°	2114.0	2084.3	2094.2	2064.5	2000.1	1948.2	1945.7	1888.7	1826.9	1777.3
7.5°	2346.7	2321.9	2284.8	2242.7	2170.9	2094.2	2071.9	2017.5	1930.8	1844.2
10°	2522.4	2505.1	2472.9	2413.5	2314.5	2227.9	2230.3	2138.8	2047.2	1948.2
12.5°	2631.4	2638.8	2591.8	2532.3	2445.7	2336.8	2334.3	2272.4	2168.5	2064.5
15°	2740.3	2767.5	2695.7	2626.4	2515.0	2435.8	2450.7	2376.4	2274.9	2156.1
17.5°	2757.6	2765.0	2750.2	2648.7	2567.0	2500.2	2502.6	2453.1	2376.4	2247.7
20°	2727.9	2723.0	2705.6	2631.4	2576.9	2537.3	2539.8	2527.4	2485.3	2381.3
22.5°	2641.3	2641.3	2619.0	2569.5	2544.7	2581.9	2552.2	2599.2	2554.6	2492.7
25°	2572.0	2599.2	2586.8	2554.6	2564.5	2614.0	2628.9	2673.4	2666.0	2589.3
27.5°	2646.2	2614.0	2621.5	2584.3	2621.5	2695.7	2703.2	2735.3	2732.9	2671.0
30°	2695.7	2725.4	2668.5	2586.8	2626.4	2752.7	2747.7	2789.8	2809.6	2735.3
32.5°	2854.2	2829.4	2782.4	2673.4	2678.4	2750.2	2772.5	2826.9	2839.3	2794.7
35°	3178.4	3141.3	2935.8	2772.5	2747.7	2782.4	2797.2	2903.7	2925.9	2876.4
37.5°	3678.5	3594.3	3346.8	2985.3	2874.0	2866.5	2866.5	3007.6	3091.8	2977.9
40°	4393.9	4275.0	4007.7	3378.9	3039.8	3069.5	3099.2	3176.0	3166.1	3091.8
42.5°	5304.8	5213.2	4923.6	4039.9	3356.7	3208.1	3183.4	3287.3	3443.3	3413.6
45°	6064.8	6069.7	5884.1	4945.9	3903.7	3527.5	3544.8	3624.0	3886.4	3864.1
47.5°	6619.3	6549.9	6522.7	5819.7	4700.8	4133.9	4109.2	4163.6	4505.3	4646.4
50°	7124.2	7077.2	7012.8	6668.8	5658.8	4893.9	4869.1	4874.1	5396.4	5594.4
52.5°	7750.5	7809.9	7597.0	7386.6	6899.0	5881.6	5854.4	5757.8	6406.4	6678.7
55°	8522.9	8411.5	8171.3	8280.3	8084.7	6948.5	6899.0	6785.1	7557.4	7671.3
57.5°	8693.7	8609.5	8857.0	9243.2	9431.3	8201.0	8181.2	7975.8	8525.3	8421.4
60°	9119.4	9141.7	9485.8	10253.2	10579.9	9646.7	9550.1	9188.7	9463.5	9483.3
62.5°	9557.6	9505.6	10275.4	11013.1	11515.6	11015.6	10983.4	10265.5	10577.4	10325.0
65°	9235.8	9315.0	10416.5	11651.8	12728.6	12354.8	12327.6	11302.7	11473.5	11159.2
67.5°	8092.1	7931.2	9473.4	11359.7	13352.4	13758.4	13728.6	12434.0	11978.5	11154.2
70°	5931.1	5792.5	7050.0	9619.5	12458.8	14476.2	14595.0	13221.2	11773.1	10114.5
72.5°	2906.1	2908.6	3950.8	6522.7	9857.1	13194.0	13253.4	12122.1	10114.5	7455.9
75°	859.0	868.9	1463.0	3198.2	6371.7	10020.5	10087.3	9201.1	7010.4	3851.7
77.5°	314.4	314.4	485.2	1200.6	3178.4	6324.7	6319.7	5648.9	3549.7	1304.5
80°	163.4	170.8	252.5	490.1	1376.3	3294.8	3418.5	2765.0	1349.1	549.5
82.5°	66.8	74.3	138.6	252.5	660.9	1156.0	1264.9	1084.2	586.7	383.7
85°	19.8	22.3	66.8	141.1	259.9	289.6	321.8	363.9	368.8	297.0
87.5°	2.5	2.5	27.2	47.0	56.9	61.9	71.8	71.8	188.1	207.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575335

CATALOG NUMBER: EPH-VN-03-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1688.2	0°	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2
1720.4	2.5°	1700.6	1688.2	1668.4	1623.9	1614.0	1581.8	1579.3	1549.6	1559.5	1539.7
1710.5	5°	1688.2	1661.0	1606.5	1571.9	1537.2	1515.0	1500.1	1487.7	1485.2	1475.3
1755.1	7.5°	1710.5	1673.4	1589.2	1534.8	1475.3	1455.5	1423.4	1420.9	1403.6	1386.2
1826.9	10°	1784.8	1717.9	1626.3	1534.8	1458.0	1393.7	1319.4	1264.9	1245.1	1200.6
1920.9	12.5°	1844.2	1784.8	1651.1	1557.0	1440.7	1294.6	1131.3	1005.0	945.6	888.7
1997.7	15°	1928.3	1841.7	1698.1	1562.0	1373.9	1121.4	854.0	712.9	658.5	646.1
2111.5	17.5°	2019.9	1928.3	1757.5	1549.6	1237.7	866.4	628.8	547.1	557.0	571.8
2195.7	20°	2121.4	2010.0	1802.1	1507.5	1022.3	628.8	514.9	512.4	527.3	549.5
2339.3	22.5°	2227.9	2131.3	1856.6	1381.3	762.4	505.0	495.1	495.1	505.0	532.2
2438.3	25°	2346.7	2218.0	1883.8	1185.7	547.1	465.4	470.3	480.2	485.2	507.5
2527.4	27.5°	2438.3	2314.5	1891.2	950.6	445.6	430.7	443.1	455.5	462.9	480.2
2611.6	30°	2522.4	2435.8	1851.6	708.0	408.4	401.0	406.0	423.3	438.1	453.0
2693.3	32.5°	2628.9	2505.1	1760.0	502.5	386.2	373.8	371.3	378.7	396.1	413.4
2779.9	35°	2737.8	2621.5	1614.0	403.5	366.4	349.0	339.1	331.7	339.1	351.5
2908.6	37.5°	2896.2	2797.2	1430.8	371.3	351.5	326.8	307.0	289.6	277.2	274.8
3076.9	40°	3121.5	2995.3	1195.6	349.0	334.2	304.5	274.8	245.1	217.8	200.5
3403.7	42.5°	3463.1	3287.3	940.7	336.7	321.8	279.7	237.6	195.6	160.9	143.6
3861.6	45°	3950.8	3673.5	690.6	324.3	307.0	250.0	195.6	146.0	111.4	101.5
4710.7	47.5°	4686.0	4138.9	495.1	304.5	287.1	217.8	153.5	104.0	81.7	76.7
5752.9	50°	5646.4	4690.9	386.2	282.2	262.4	183.2	113.9	76.7	64.4	61.9
6866.8	52.5°	6653.9	5247.9	339.1	262.4	225.3	146.0	84.2	61.9	54.5	52.0
7869.3	55°	7515.4	5606.8	294.6	232.7	180.7	108.9	66.8	54.5	47.0	39.6
8980.8	57.5°	8386.7	5787.5	232.7	193.1	133.7	81.7	56.9	47.0	39.6	32.2
10079.9	60°	9094.7	5916.2	165.9	143.6	94.1	64.4	49.5	42.1	32.2	24.8
11114.6	62.5°	9560.0	5547.4	121.3	108.9	69.3	54.5	42.1	34.7	24.8	17.3
11535.4	65°	9329.8	5037.5	94.1	76.7	52.0	42.1	34.7	24.8	17.3	9.9
10661.6	67.5°	8371.9	4104.2	76.7	56.9	39.6	32.2	27.2	19.8	9.9	2.5
8225.8	70°	6245.5	3007.6	61.9	42.1	32.2	24.8	19.8	12.4	5.0	2.5
4658.7	72.5°	3416.1	1646.2	49.5	34.7	24.8	19.8	14.9	9.9	5.0	0.0
1589.2	75°	1128.8	438.1	37.1	24.8	14.9	12.4	9.9	7.4	2.5	0.0
371.3	77.5°	272.3	113.9	29.7	22.3	12.4	7.4	5.0	2.5	2.5	0.0
108.9	80°	84.2	47.0	22.3	14.9	9.9	7.4	2.5	0.0	0.0	0.0
49.5	82.5°	34.7	22.3	9.9	9.9	7.4	2.5	0.0	0.0	0.0	0.0
22.3	85°	17.3	12.4	7.4	5.0	5.0	2.5	0.0	0.0	0.0	0.0
12.4	87.5°	12.4	5.0	2.5	2.5	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

(END O



<u>180°</u>
1688.2
1532.3
1470.4
1386.2
1205.5
911.0
643.6
569.3
554.5
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509.9
487.7
453.0
413.4
361.4
282.2
203.0
143.6
104.0
79.2
64.4
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