

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: P575052

Luminaire Tested: **EPH-VN-06-735-U-SL4**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

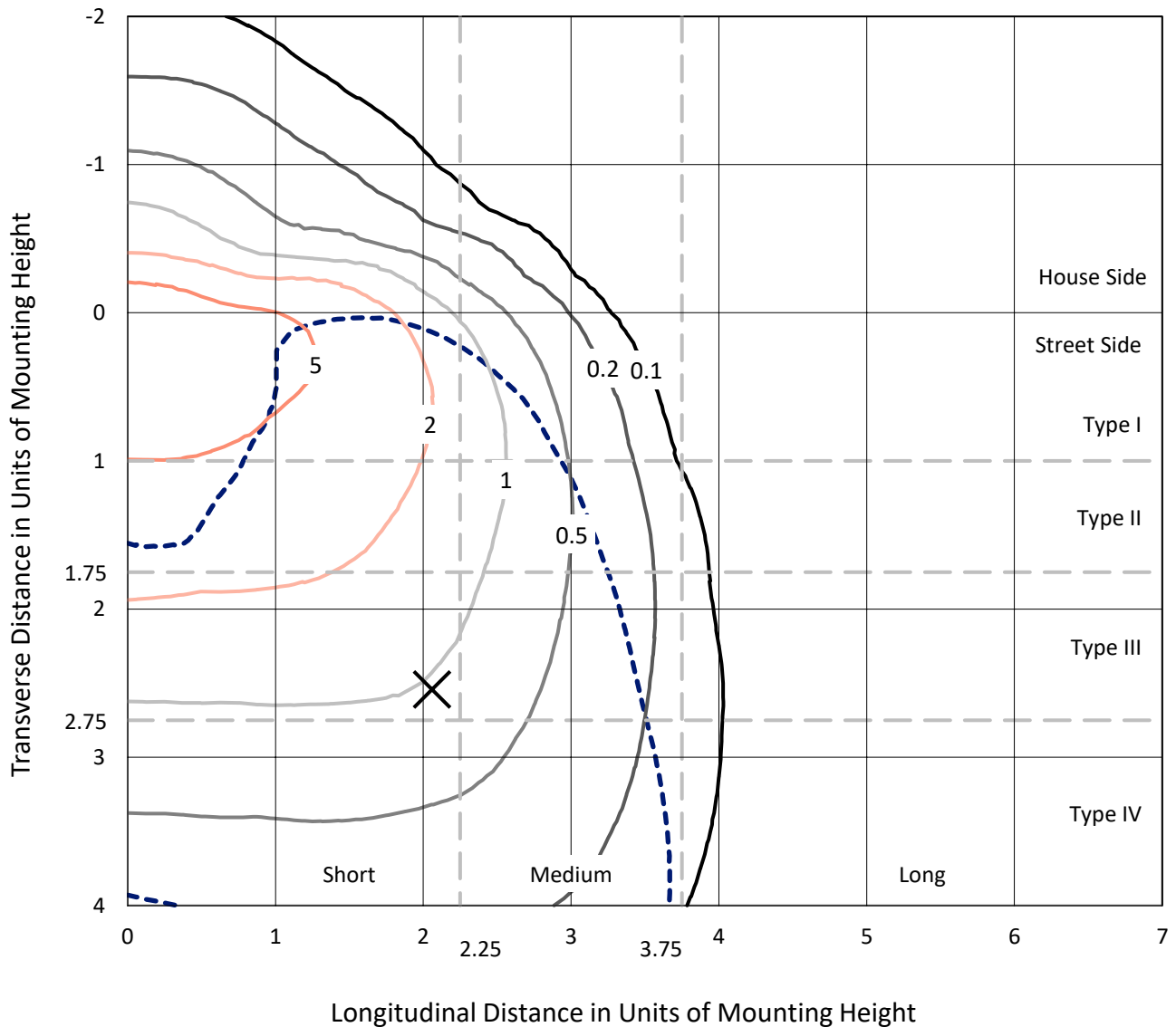
Lumens per Lamp: N/A
Luminaire Lumens: 50480.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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: P575052
 CATALOG NUMBER: EPH-VN-06-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

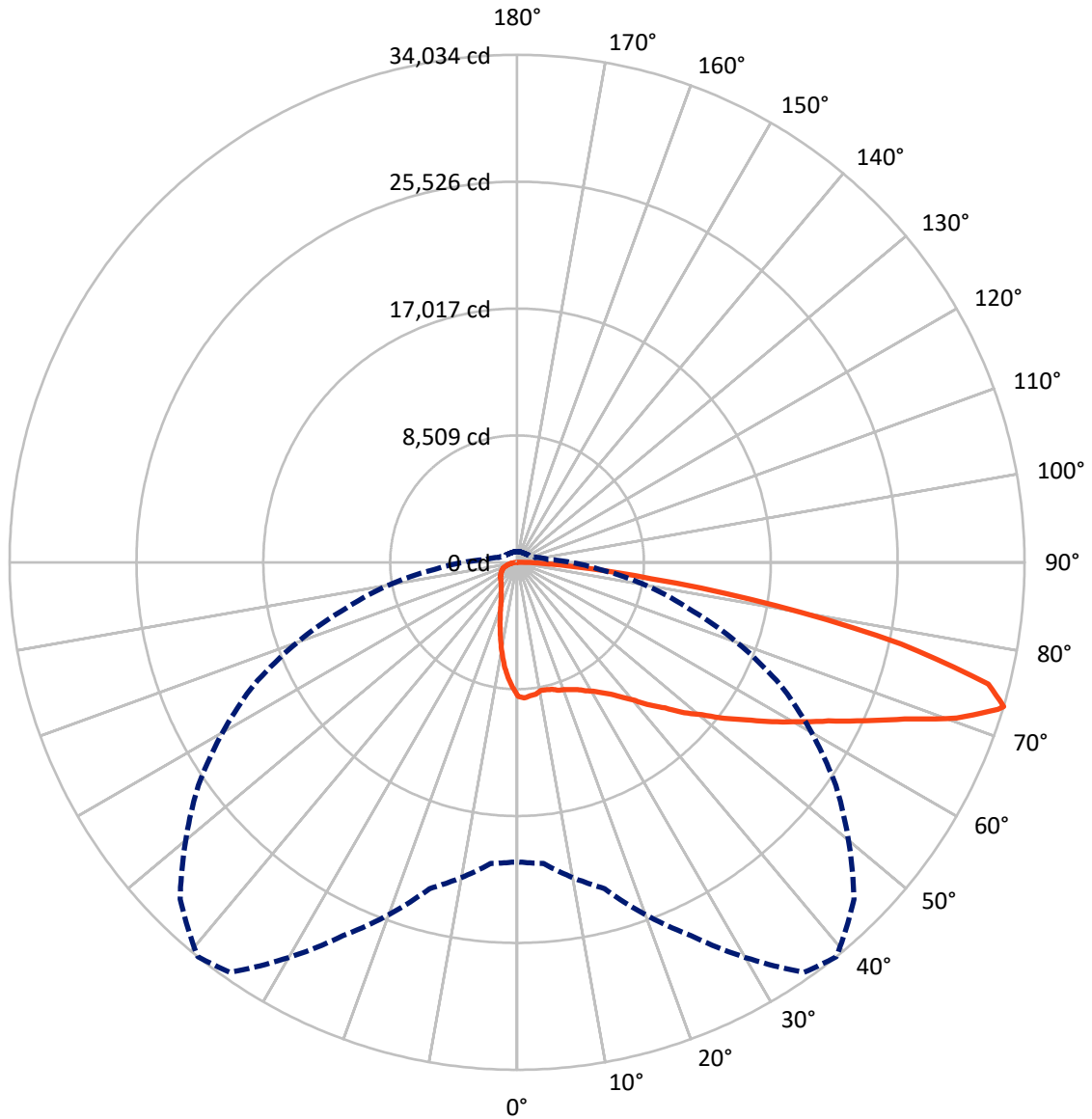
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

REPORT NUMBER: P575052
CATALOG NUMBER: EPH-VN-06-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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 CATALOG NUMBER: EPH-VN-06-735-U-SL4

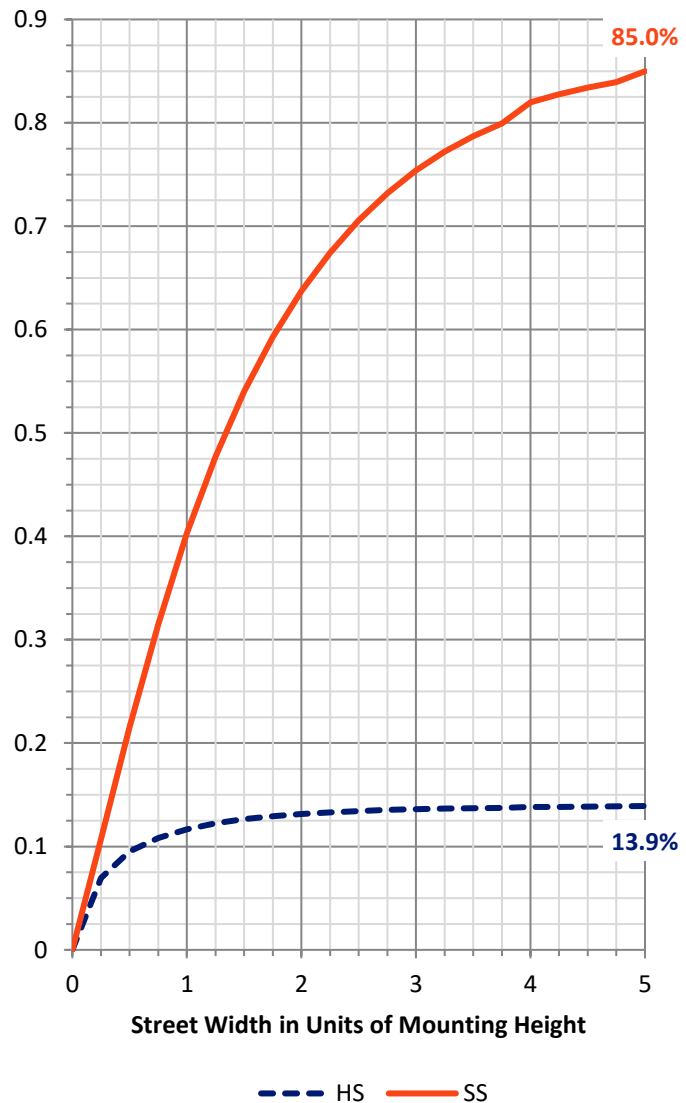
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7096.1	0.0	7096.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	43384.3	0.0	43384.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	50480.5	0.0	50480.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.0	1.5
10°-20°	1983.0	3.9
20°-30°	3030.2	6.0
30°-40°	4418.1	8.8
40°-50°	6676.3	13.2
50°-60°	9667.6	19.2
60°-70°	12283.1	24.3
70°-80°	9957.4	19.7
80°-90°	1684.7	3.3
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°	50480.5	100.0
0°-180°	50480.5	100.0

Coefficient of Utilization

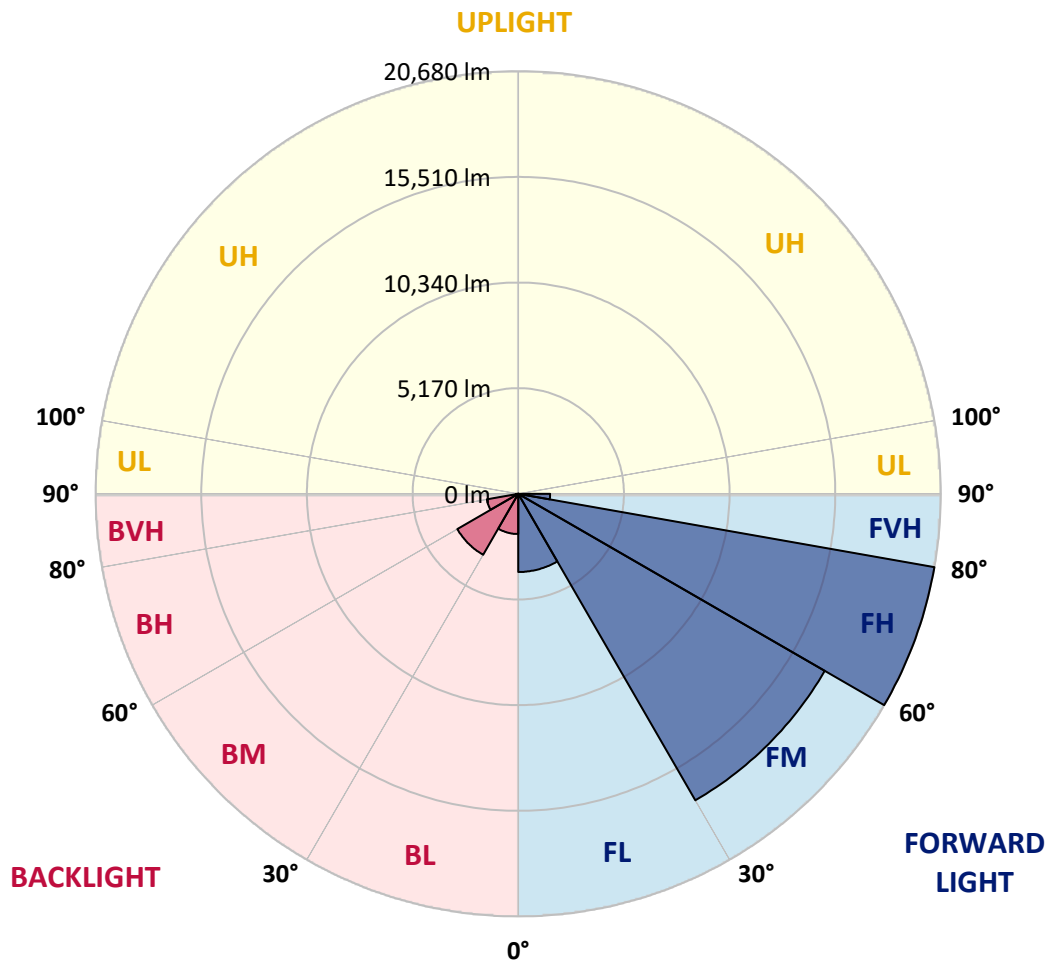


REPORT NUMBER: P575052
 CATALOG NUMBER: EPH-VN-06-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3825.3	7.6			
FM (30°-60°)	17318.0	34.3			
FH (60°-80°)	20679.8	41.0			G5
FVH (80°-90°)	1561.1	3.1			G5
BL (0°-30°)	1967.9	3.9	B3/2500		
BM (30°-60°)	3443.9	6.8	B3/5000		
BH (60°-80°)	1560.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	123.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P575052
 CATALOG NUMBER: EPH-VN-06-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8
2.5°	9200.5	9104.4	9121.4	9087.5	9121.4	9110.1	9093.1	9008.4	9093.1	9008.4
5°	9076.2	9076.2	9132.7	9048.0	9059.3	9002.8	9059.3	8997.1	8940.6	8799.4
7.5°	9036.7	9031.0	9036.7	8918.1	8974.5	8940.6	8884.2	8816.4	8703.4	8613.1
10°	8765.6	8822.0	8759.9	8793.8	8839.0	8737.3	8731.7	8714.7	8663.9	8545.3
12.5°	8618.7	8714.7	8748.6	8720.4	8759.9	8771.2	8737.3	8714.7	8652.6	8573.5
15°	8680.8	8567.9	8663.9	8850.3	8810.7	8839.0	8844.6	8822.0	8793.8	8647.0
17.5°	8697.8	8630.0	8833.3	8872.9	8923.7	9025.4	8957.6	8951.9	8844.6	8743.0
20°	8737.3	8709.1	8872.9	9081.8	9087.5	9104.4	9138.3	9053.6	8997.1	8822.0
22.5°	8884.2	8980.2	9132.7	9223.0	9273.9	9285.2	9285.2	9115.7	9053.6	8912.4
25°	9324.7	9223.0	9437.7	9545.0	9471.6	9454.6	9415.1	9262.6	9194.8	9070.5
27.5°	9646.6	9641.0	9765.2	9912.1	9714.4	9753.9	9612.7	9567.6	9415.1	9347.3
30°	10087.2	10211.4	10205.8	10251.0	9991.2	10036.3	9855.6	9770.9	9686.2	9725.7
32.5°	10652.0	10606.8	10680.2	10646.3	10386.5	10426.0	10211.4	10081.5	10109.8	10228.4
35°	11013.4	10968.2	10996.5	10996.5	10917.4	10872.2	10781.9	10612.4	10748.0	10968.2
37.5°	11403.1	11459.6	11623.4	11589.5	11487.9	11487.9	11476.6	11358.0	11533.0	12075.2
40°	11747.7	11900.2	12001.8	12069.6	12188.2	12188.2	12284.2	12216.4	12532.7	13402.5
42.5°	12109.1	12114.8	12668.3	12719.1	12984.6	13097.5	13170.9	13227.4	13820.4	14791.9
45°	12572.3	12600.5	13086.2	13475.9	13888.2	13927.8	14204.5	14390.9	15119.5	16311.2
47.5°	13182.2	13148.3	13668.0	14289.2	14803.2	15074.3	15407.5	15610.8	16508.9	17960.4
50°	13984.2	13882.6	14181.9	15159.0	15763.3	16062.7	16655.7	16994.6	18045.1	19536.1
52.5°	14961.3	14791.9	15029.1	16096.6	16774.3	17378.6	17943.4	18321.8	19417.5	20756.1
55°	15994.9	15644.7	15712.5	17090.6	18067.7	18638.1	19411.9	19807.2	20925.5	21851.8
57.5°	17017.2	16796.9	16661.3	18045.1	19609.6	20157.4	20869.0	21383.0	22331.9	22823.2
60°	17875.6	17819.2	17598.9	19524.8	21241.8	21710.6	22456.1	22772.4	23489.7	23721.2
62.5°	18581.6	18389.6	18739.8	20716.5	22902.3	23433.2	24252.1	24280.4	24788.7	24280.4
65°	19135.1	19146.4	19705.6	22156.8	24822.6	25607.6	26268.4	26195.0	25867.4	23947.2
67.5°	19637.8	19852.4	20671.4	23738.2	27290.7	28030.6	28764.8	27793.4	26161.1	22388.3
70°	20033.1	20247.8	21976.0	25664.1	30199.4	31283.8	31447.6	28425.9	24811.3	18965.7
72.5°	19988.0	20377.7	22715.9	27200.4	32780.5	33718.0	32396.4	26646.9	20671.4	13221.8
73°	20084.0	20276.0	22653.8	27629.6	33565.6	34034.3	31955.9	26087.7	19496.6	11860.6
75°	18231.5	18881.0	21529.8	26929.3	32724.0	32639.3	29425.6	21738.8	13860.0	6229.6
77.5°	13487.2	13899.5	16966.3	22145.5	26861.5	26319.3	22196.3	13893.9	6579.8	2310.0
80°	6591.1	6913.0	8991.5	12786.9	17565.0	17610.2	13775.3	7229.3	2818.3	1304.7
82.5°	3292.7	3484.8	4320.7	5619.7	8641.3	9053.6	6986.5	4111.7	1745.2	739.9
85°	2151.9	2287.4	2660.2	2750.5	3665.5	3868.8	3253.2	3208.0	1135.2	401.0
87.5°	1428.9	1451.5	1632.2	1389.4	1468.5	1412.0	1570.1	2022.0	333.2	169.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575052

CATALOG NUMBER: EPH-VN-06-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8985.8	0°	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8	8985.8
8985.8	2.5°	8957.6	8878.5	8793.8	8675.2	8590.5	8460.6	8342.0	8291.1	8279.8	8285.5
8759.9	5°	8726.0	8613.1	8443.6	8200.8	8059.6	7845.0	7664.2	7568.2	7466.5	7483.5
8483.2	7.5°	8404.1	8279.8	8020.0	7737.6	7387.5	7082.5	6913.0	6675.8	6540.3	6438.6
8466.2	10°	8302.4	8087.8	7698.1	7308.4	6766.2	6365.2	5975.5	5704.4	5518.0	5337.3
8347.6	12.5°	8251.6	8037.0	7494.8	6918.7	6218.4	5608.4	5060.5	4727.3	4461.9	4303.7
8500.1	15°	8206.4	7941.0	7302.8	6489.5	5704.4	4902.4	4286.8	3846.2	3592.1	3439.6
8528.3	17.5°	8268.5	7890.1	7020.4	6071.5	5139.6	4281.1	3597.7	3140.2	2880.4	2784.4
8494.5	20°	8206.4	7833.7	6743.6	5653.6	4574.8	3688.1	3032.9	2654.5	2473.8	2394.7
8652.6	22.5°	8229.0	7698.1	6455.6	5190.4	4049.6	3191.1	2654.5	2366.5	2225.3	2185.7
8726.0	25°	8336.3	7619.0	6167.5	4682.1	3529.9	2824.0	2411.7	2191.4	2089.7	2050.2
8855.9	27.5°	8415.4	7686.8	5907.7	4202.0	3089.4	2496.4	2208.3	2061.5	1993.7	1965.5
9240.0	30°	8613.1	7726.3	5653.6	3772.8	2727.9	2281.8	2067.1	1948.5	1903.3	1886.4
9765.2	32.5°	8906.8	7799.8	5359.9	3377.5	2462.5	2078.4	1954.2	1852.5	1841.2	1824.3
10352.6	35°	9386.8	8053.9	5032.3	3038.6	2208.3	1942.9	1835.6	1767.8	1767.8	1767.8
11290.2	37.5°	10075.9	8409.7	4738.6	2716.6	2044.5	1824.3	1733.9	1711.3	1700.0	1717.0
12436.7	40°	10962.6	8839.0	4501.4	2462.5	1903.3	1745.2	1666.1	1654.8	1649.2	1643.5
13662.3	42.5°	11934.0	9386.8	4298.1	2264.8	1801.7	1660.5	1604.0	1592.7	1570.1	1581.4
14995.2	45°	12899.8	10064.6	4117.3	2106.7	1733.9	1615.3	1536.2	1530.6	1519.3	1513.6
16452.4	47.5°	13972.9	10731.0	4060.8	2010.7	1683.1	1547.5	1491.0	1485.4	1451.5	1445.9
17452.1	50°	14808.8	11222.4	4123.0	1965.5	1609.7	1496.7	1457.2	1428.9	1400.7	1372.4
18191.9	52.5°	15384.9	11561.3	4168.2	1931.6	1570.1	1428.9	1378.1	1366.8	1338.6	1310.3
18931.8	55°	15904.5	11764.6	4179.5	1937.2	1530.6	1349.9	1316.0	1310.3	1293.4	1248.2
19558.7	57.5°	16079.6	11679.9	3953.5	1886.4	1508.0	1299.0	1253.8	1265.1	1242.5	1203.0
19570.0	60°	16062.7	11092.5	3439.6	1818.6	1457.2	1242.5	1186.1	1219.9	1219.9	1174.8
18993.9	62.5°	15085.6	9737.0	2812.7	1688.7	1400.7	1186.1	1123.9	1174.8	1191.7	1163.5
17632.8	65°	13058.0	7929.7	2349.5	1558.8	1316.0	1123.9	1061.8	1118.3	1146.5	1135.2
14972.6	67.5°	10804.5	6065.9	1954.2	1389.4	1208.7	1039.2	988.4	1027.9	1044.9	1050.5
11295.8	70°	7636.0	4038.3	1632.2	1203.0	1061.8	948.8	892.4	898.0	892.4	909.3
6591.1	72.5°	4151.2	2326.9	1327.3	1022.3	915.0	824.6	785.1	756.8	756.8	751.2
5574.5	73°	3552.5	2089.7	1265.1	994.0	875.4	802.0	756.8	734.2	734.2	728.6
2699.7	75°	1993.7	1530.6	1084.4	852.8	756.8	700.3	666.5	632.6	626.9	626.9
1457.2	77.5°	1310.3	1191.7	864.1	683.4	610.0	559.1	547.8	514.0	514.0	514.0
994.0	80°	982.7	937.6	666.5	519.6	468.8	429.2	417.9	395.4	389.7	367.1
564.8	82.5°	655.2	739.9	485.7	367.1	316.3	293.7	293.7	288.0	271.1	242.9
457.5	85°	519.6	604.3	350.2	225.9	186.4	158.1	163.8	158.1	152.5	124.3
124.3	87.5°	96.0	242.9	101.7	62.1	45.2	28.2	28.2	16.9	11.3	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>
8985.8
8229.0
7438.3
6495.1
5416.3
4365.8
3456.5
2761.8
2377.8
2197.0
2061.5
1959.8
1880.8
1829.9
1784.7
1728.3
1654.8
1598.4
1541.9
1468.5
1372.4
1299.0
1236.9
1197.4
1169.1
1157.8
1129.6
1056.2
909.3
751.2
722.9
626.9
508.3
372.8
242.9
118.6
0.0
0.0

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