

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: P574976

Luminaire Tested: **EPH-VN-04-740-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574976
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-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

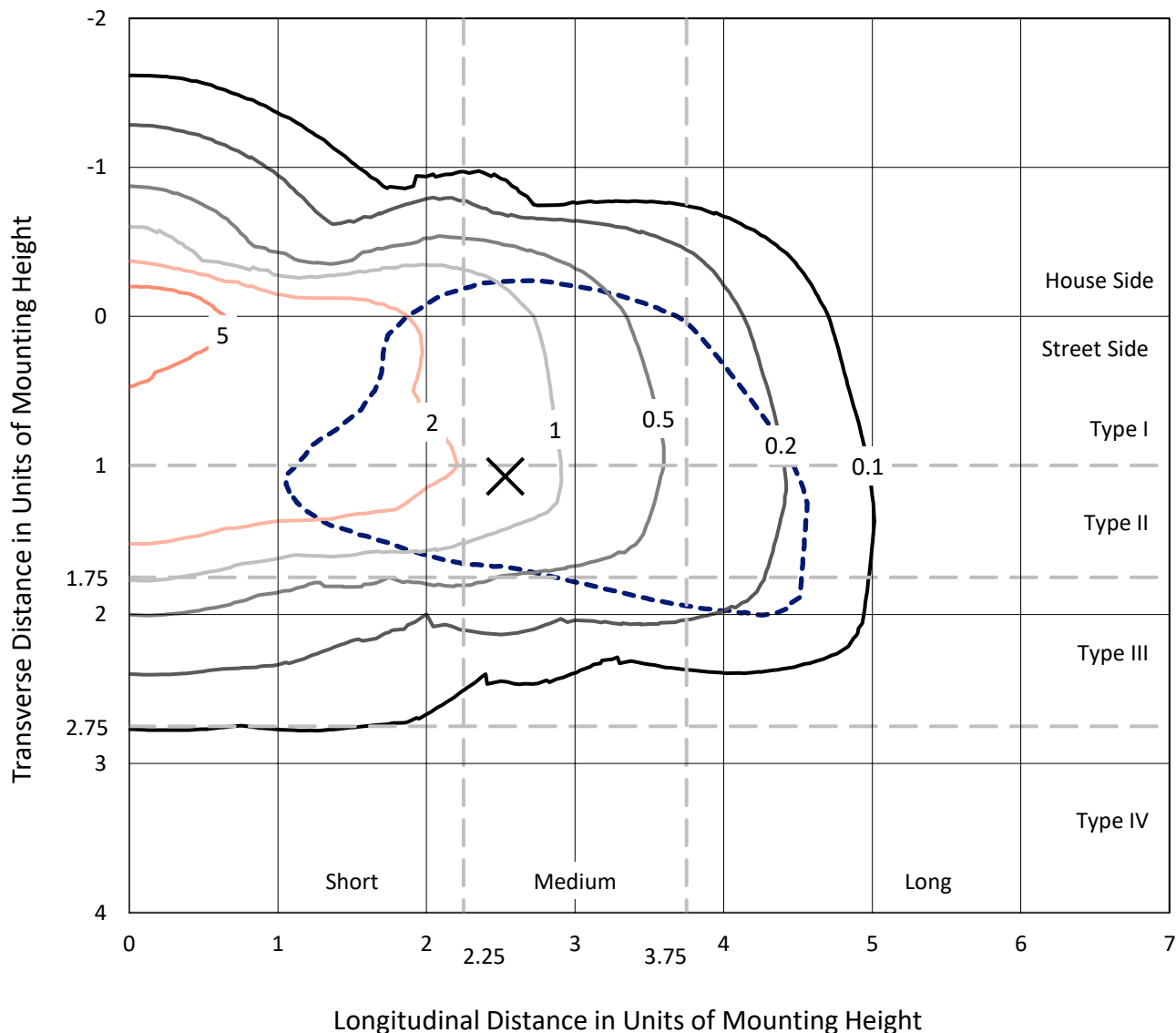
Lumens per Lamp: N/A
Luminaire Lumens: 34871.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
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

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Iso-Footcandle Lines of Horizontal Illumination

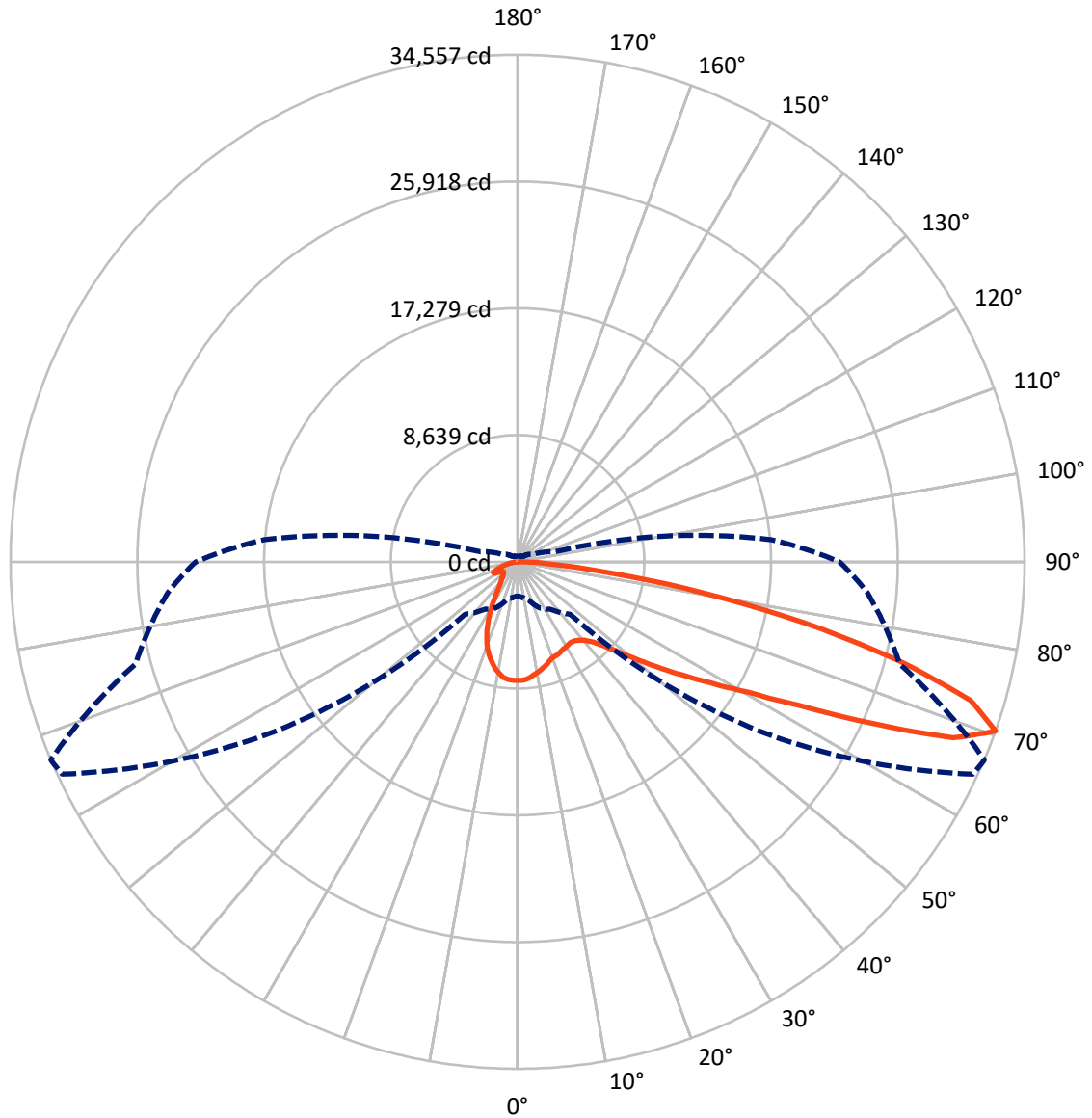
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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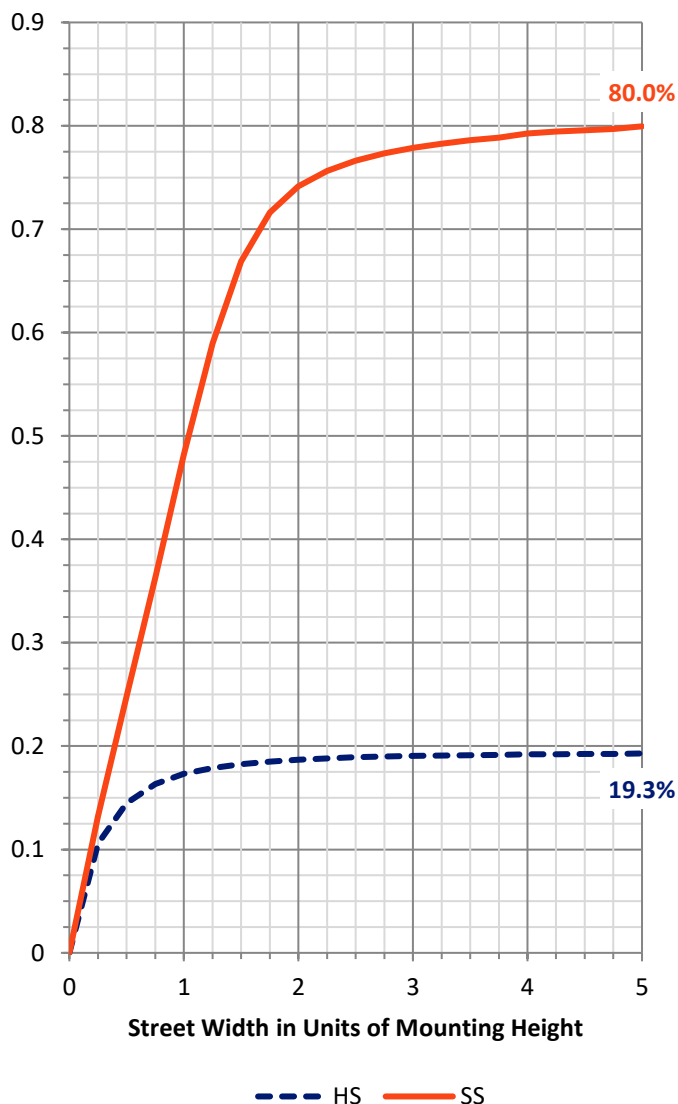
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6791.6	0.0	6791.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	28080.2	0.0	28080.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	34871.8	0.0	34871.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.4	2.0
10°-20°	1686.9	4.8
20°-30°	2278.1	6.5
30°-40°	3048.3	8.7
40°-50°	4482.4	12.9
50°-60°	6986.9	20.0
60°-70°	8606.7	24.7
70°-80°	6081.4	17.4
80°-90°	996.8	2.9
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°	34871.8	100.0
0°-180°	34871.8	100.0

Coefficient of Utilization

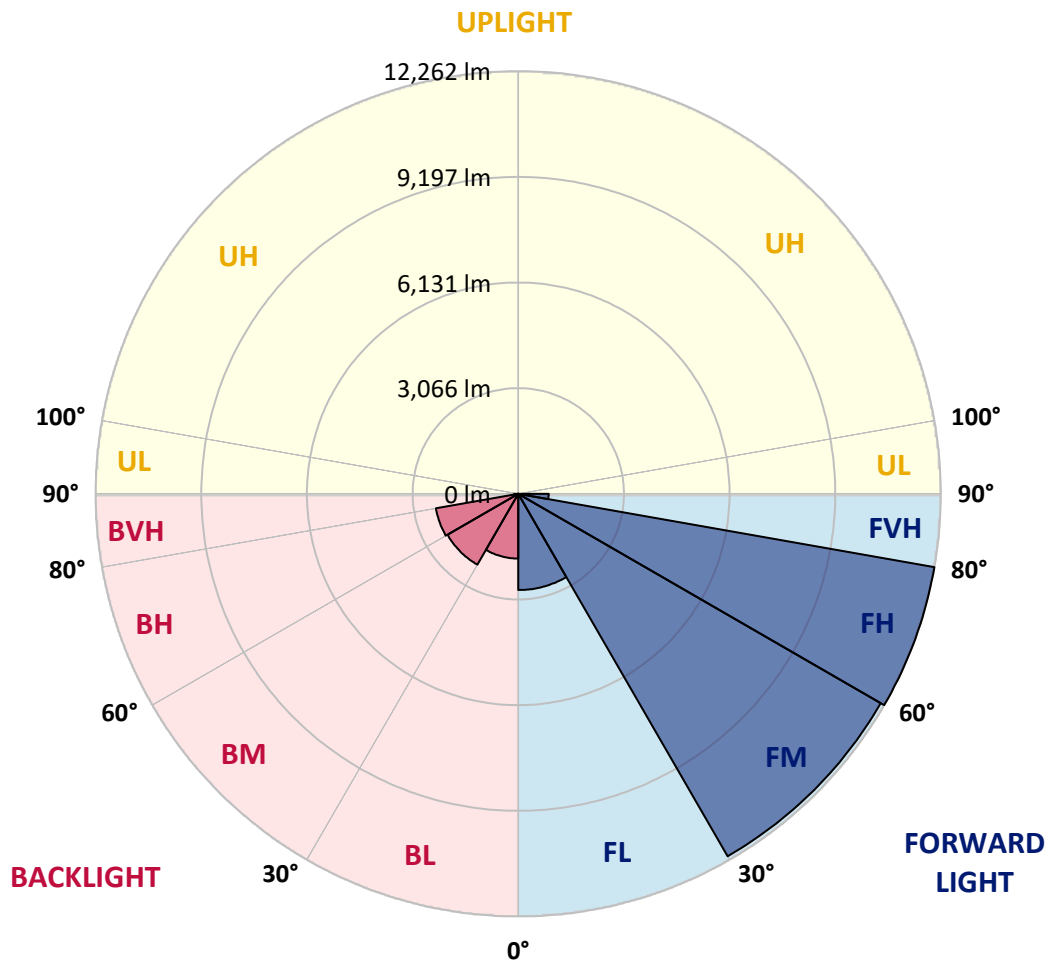


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2791.2	8.0			
FM (30°-60°)	12145.1	34.8			
FH (60°-80°)	12262.1	35.2			G5
FVH (80°-90°)	881.8	2.5			G5
BL (0°-30°)	1878.1	5.4	B3/2500		
BM (30°-60°)	2372.5	6.8	B2/2500		
BH (60°-80°)	2426.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	115.0	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7
2.5°	7516.8	7601.7	7632.6	7678.9	7798.6	7887.4	7941.4	8003.2	8076.6	8138.3
5°	6991.7	7038.0	7111.4	7161.6	7312.1	7551.5	7713.7	7976.2	7968.5	8065.0
7.5°	6482.1	6528.4	6563.2	6663.6	6879.8	7095.9	7393.2	7817.9	7787.0	8010.9
10°	6165.5	6130.8	6142.4	6312.2	6482.1	6725.3	7099.8	7532.2	7644.2	7991.6
12.5°	5868.2	5829.6	5922.3	6030.4	6238.9	6458.9	6906.8	7296.7	7466.6	7922.1
15°	5682.9	5655.9	5771.7	5818.1	6065.1	6327.7	6644.2	7119.1	7304.4	7837.2
17.5°	5578.7	5601.9	5644.3	5744.7	5903.0	6126.9	6474.4	6999.4	7080.5	7733.0
20°	5598.0	5625.0	5628.9	5671.4	5779.5	5953.2	6308.4	6872.0	6926.1	7713.7
22.5°	5752.4	5713.8	5729.3	5702.2	5733.1	5868.2	6181.0	6702.2	6910.6	7551.5
25°	5984.1	5930.0	5922.3	5829.6	5771.7	5810.3	6157.8	6659.7	6794.8	7501.3
27.5°	6393.3	6312.2	6312.2	6173.2	5937.7	5876.0	6092.2	6590.2	6709.9	7455.0
30°	6787.1	6787.1	6791.0	6594.1	6331.5	6026.5	6119.2	6563.2	6640.4	7316.0
32.5°	7265.8	7254.2	7234.9	7138.4	6733.0	6277.5	6250.5	6528.4	6567.0	7269.7
35°	7733.0	7702.1	7852.6	7767.7	7354.6	6767.8	6385.6	6543.9	6628.8	7200.2
37.5°	8084.3	8103.6	8416.3	8470.4	8115.2	7323.7	6767.8	6698.3	6779.4	7300.6
40°	8539.8	8617.1	8910.5	9091.9	8875.7	8057.3	7373.9	6957.0	7014.9	7524.5
42.5°	9138.3	9203.9	9578.4	9813.9	9752.1	8991.5	7972.3	7497.5	7451.1	7899.0
45°	9929.7	9941.3	10319.6	10643.9	10771.3	9968.3	8922.1	8180.8	8142.2	8543.7
47.5°	10871.7	10860.1	11095.6	11443.1	11786.7	11134.2	10014.6	9219.3	9080.3	9466.4
50°	11782.8	11732.6	11786.7	12230.7	12890.8	12593.6	11342.7	10489.5	10350.5	10562.8
52.5°	12284.7	12346.5	12199.8	12786.6	14064.5	14319.3	13103.2	12006.7	11887.1	11991.3
55°	11933.4	12060.8	11964.3	12520.2	14578.0	16423.4	15381.0	13763.4	13608.9	13570.3
57.5°	10439.3	10670.9	10690.3	11570.5	14400.4	18052.6	18585.4	15836.6	15604.9	15211.1
60°	8014.8	8246.4	8424.0	9466.4	12879.3	19025.5	22299.3	18786.1	18021.7	17002.5
62.5°	5617.3	5775.6	5953.2	6594.1	9929.7	18454.1	25511.4	22940.2	21531.1	18890.4
65°	4092.3	4215.9	4397.3	4775.7	6099.9	15269.0	27001.7	27874.2	26538.4	21291.7
67.5°	3080.8	3158.0	3397.4	4003.5	4227.5	9431.7	25457.4	33086.1	32005.1	23959.4
70°	2331.9	2397.5	2621.4	3451.5	3949.5	5057.5	20083.3	34248.2	34557.0	26951.5
72.5°	1606.0	1679.4	1930.3	2876.2	3760.3	4011.3	12605.2	31113.3	32283.1	28183.0
75°	984.5	1034.7	1181.4	2181.3	3733.3	3922.5	6937.7	25496.0	26735.3	26040.4
77.5°	694.9	691.1	718.1	1277.9	3235.3	3945.6	4277.6	18681.9	19886.4	19191.5
80°	505.8	509.6	536.6	764.4	2196.7	4011.3	3370.4	12512.5	12871.5	10006.9
82.5°	305.0	320.4	386.1	517.3	1320.4	3621.3	3115.6	6953.1	6505.3	3212.1
85°	162.1	162.1	227.8	328.2	702.6	2702.5	2999.8	3308.6	2772.0	996.1
87.5°	38.6	38.6	65.6	131.3	281.8	1293.3	2046.2	1316.5	1054.0	335.9
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8072.7	0°	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7	8072.7
8176.9	2.5°	8161.5	8115.2	8173.1	8057.3	7964.6	7968.5	7825.6	7817.9	7798.6	7698.2
8211.7	5°	8254.2	8215.5	8149.9	8022.5	7817.9	7613.3	7489.7	7331.5	7265.8	7231.1
8238.7	7.5°	8343.0	8273.5	8084.3	7906.7	7590.1	7204.0	6980.1	6767.8	6497.5	6466.7
8315.9	10°	8366.1	8219.4	7976.2	7597.8	7177.0	6748.5	6238.9	5845.1	5636.6	5474.5
8350.7	12.5°	8331.4	8269.6	7802.5	7316.0	6679.0	6007.2	5412.7	4856.7	4470.7	4269.9
8296.6	15°	8327.5	8219.4	7609.4	6887.5	6072.9	5196.5	4351.0	3683.1	3277.7	3111.7
8285.0	17.5°	8331.4	8072.7	7381.6	6455.1	5358.6	4173.4	3243.0	2694.8	2470.8	2447.7
8315.9	20°	8254.2	7964.6	7142.3	5945.5	4463.0	3134.9	2355.0	2131.1	2131.1	2162.0
8250.3	22.5°	8184.7	7802.5	6763.9	5316.2	3551.8	2270.1	1914.9	1849.3	1922.6	1976.7
8246.4	25°	8088.1	7667.3	6377.9	4663.7	2702.5	1830.0	1664.0	1679.4	1748.9	1845.4
8157.6	27.5°	7949.2	7431.8	5918.4	3907.0	2011.4	1579.0	1536.6	1544.3	1617.6	1660.1
8038.0	30°	7790.9	7192.5	5493.8	3154.2	1594.5	1447.8	1443.9	1463.2	1474.8	1497.9
8003.2	32.5°	7590.1	6875.9	5042.1	2451.5	1436.2	1374.4	1359.0	1347.4	1359.0	1355.1
7895.1	35°	7447.3	6706.0	4582.6	1868.6	1347.4	1308.8	1297.2	1277.9	1262.4	1239.3
7895.1	37.5°	7408.7	6536.1	4100.1	1525.0	1277.9	1258.6	1220.0	1185.2	1165.9	1154.3
8065.0	40°	7385.5	6424.2	3629.0	1339.7	1220.0	1200.7	1154.3	1108.0	1088.7	1077.1
8319.8	42.5°	7466.6	6362.4	3150.3	1247.0	1169.8	1135.0	1084.9	1030.8	1026.9	1019.2
8786.9	45°	7752.3	6439.6	2706.3	1181.4	1119.6	1061.7	996.1	969.0	965.2	957.5
9562.9	47.5°	8400.9	6632.7	2328.0	1138.9	1065.6	1015.4	945.9	907.3	903.4	899.5
10728.9	50°	9296.5	7227.2	2011.4	1088.7	1030.8	961.3	895.7	853.2	845.5	830.0
12280.9	52.5°	10701.8	8227.1	1822.2	1061.7	969.0	911.1	841.6	795.3	776.0	760.6
14045.2	55°	12284.7	9466.4	1787.5	1015.4	903.4	849.4	787.6	741.3	721.9	702.6
15701.4	57.5°	14087.7	11107.2	2034.6	984.5	857.1	787.6	718.1	675.6	660.2	640.9
17295.9	60°	15767.1	12744.1	2802.9	938.1	814.6	729.7	660.2	617.7	598.4	579.1
19257.1	62.5°	17709.0	14771.0	4103.9	938.1	776.0	667.9	598.4	567.5	555.9	536.6
21245.4	65°	20006.1	16867.4	5053.6	996.1	764.4	613.8	540.5	509.6	498.0	486.4
22843.7	67.5°	21755.0	18071.9	4347.1	1150.5	814.6	567.5	482.6	463.3	455.6	444.0
23917.0	70°	21940.3	17338.4	2621.4	1243.1	864.8	521.2	432.4	413.1	413.1	401.5
22766.5	72.5°	20276.3	15384.9	1764.3	1108.0	783.7	467.1	382.2	366.8	359.0	351.3
19917.3	75°	16967.7	13049.1	1393.7	884.1	602.3	386.1	332.0	316.6	305.0	301.1
13516.3	77.5°	11396.8	8481.9	1030.8	691.1	444.0	312.7	278.0	262.5	250.9	247.1
5331.6	80°	4378.0	3231.4	664.0	501.9	312.7	247.1	220.1	204.6	196.9	185.3
1467.1	82.5°	1289.5	1046.2	370.6	308.9	200.8	169.9	158.3	146.7	135.1	123.5
544.4	85°	532.8	478.7	227.8	162.1	123.5	100.4	92.7	81.1	69.5	61.8
223.9	87.5°	247.1	204.6	104.2	61.8	42.5	23.2	11.6	3.9	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>
8072.7
7733.0
7246.5
6412.6
5412.7
4215.9
3111.7
2467.0
2173.6
1999.8
1837.7
1652.4
1494.1
1343.5
1235.4
1146.6
1081.0
1030.8
965.2
899.5
830.0
760.6
694.9
633.2
579.1
532.8
482.6
436.3
393.8
347.5
293.4
235.5
177.6
119.7
54.0
0.0
0.0

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