

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: P574970

Luminaire Tested: **EPH-VN-04-735-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574970
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

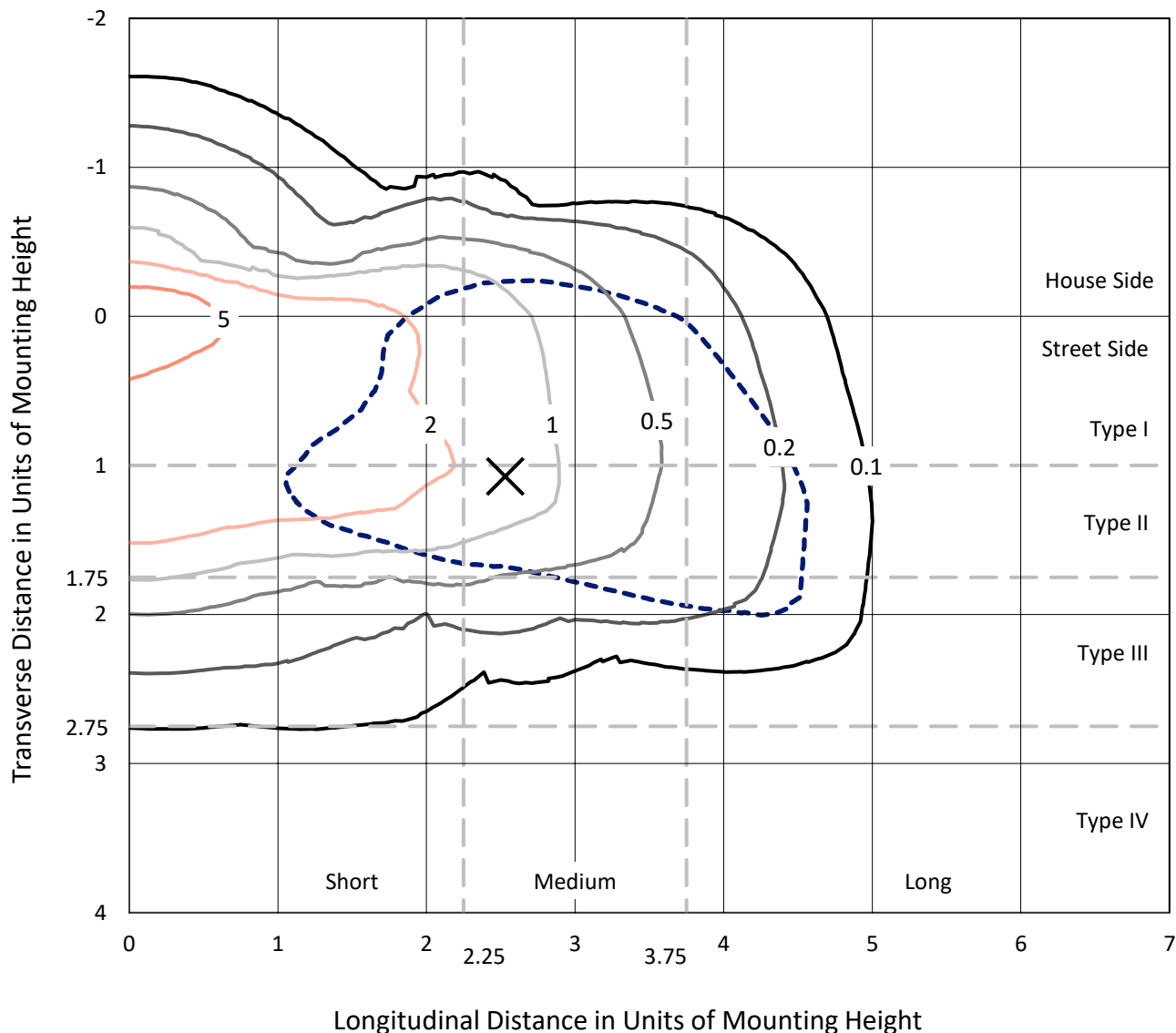
Lumens per Lamp: N/A
Luminaire Lumens: 34394 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

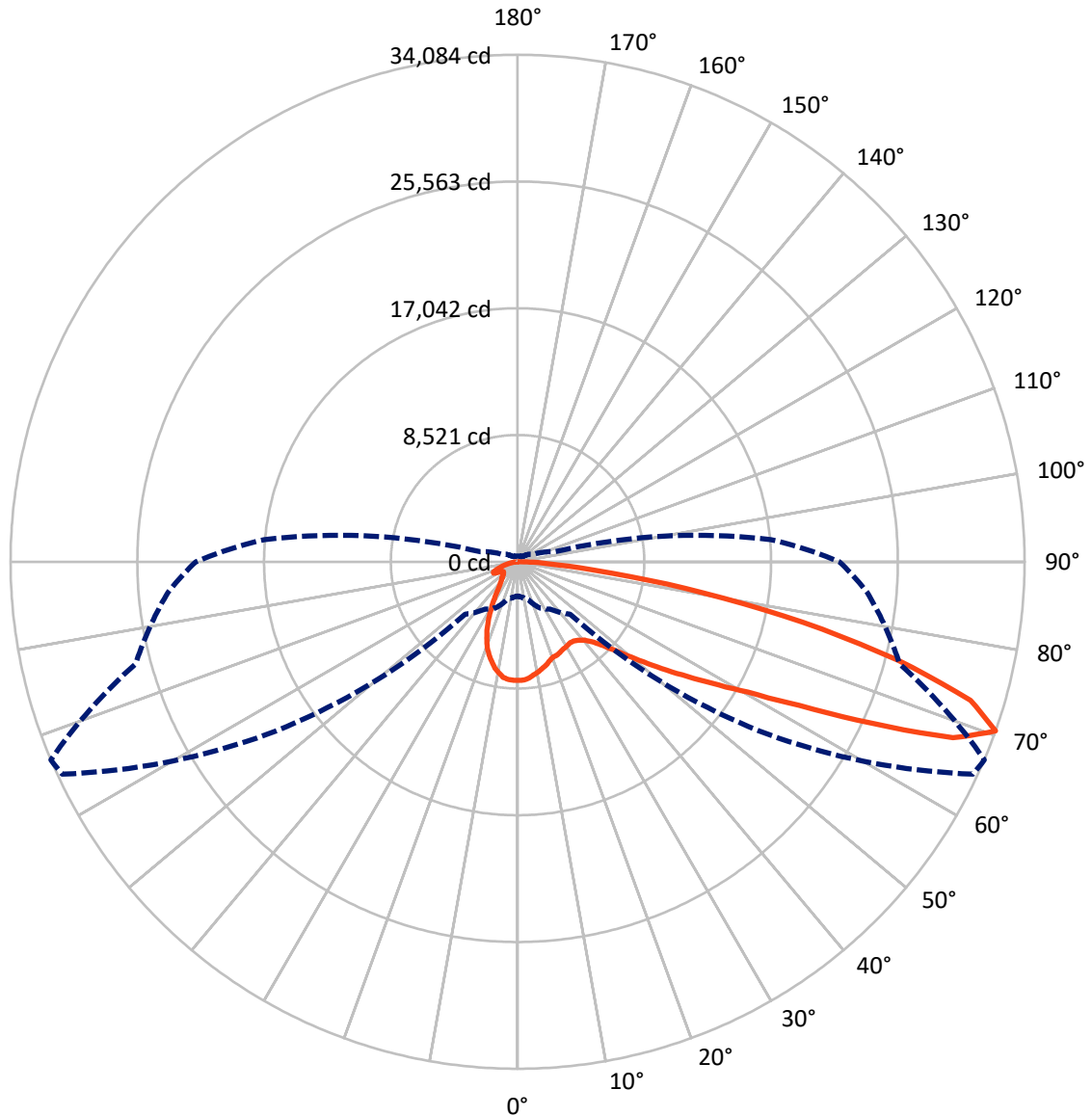
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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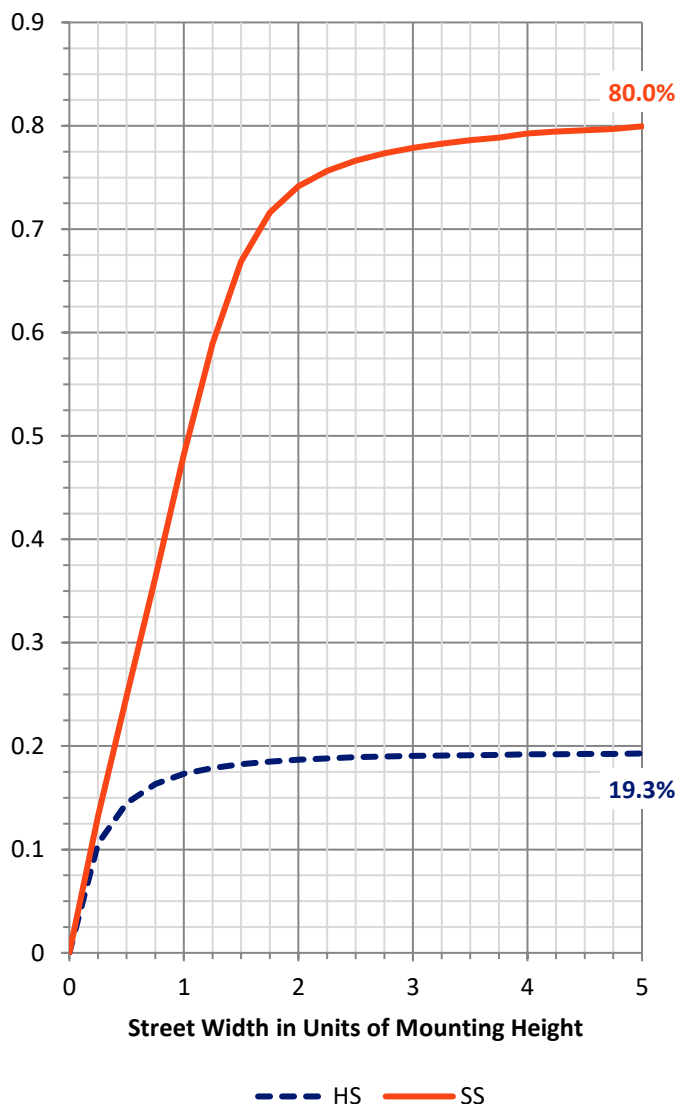
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6698.6	0.0	6698.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	27695.5	0.0	27695.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	34394.0	0.0	34394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.7	2.0
10°-20°	1663.8	4.8
20°-30°	2246.9	6.5
30°-40°	3006.5	8.7
40°-50°	4421.0	12.9
50°-60°	6891.2	20.0
60°-70°	8488.8	24.7
70°-80°	5998.1	17.4
80°-90°	983.1	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°	34394.0	100.0
0°-180°	34394.0	100.0

Coefficient of Utilization

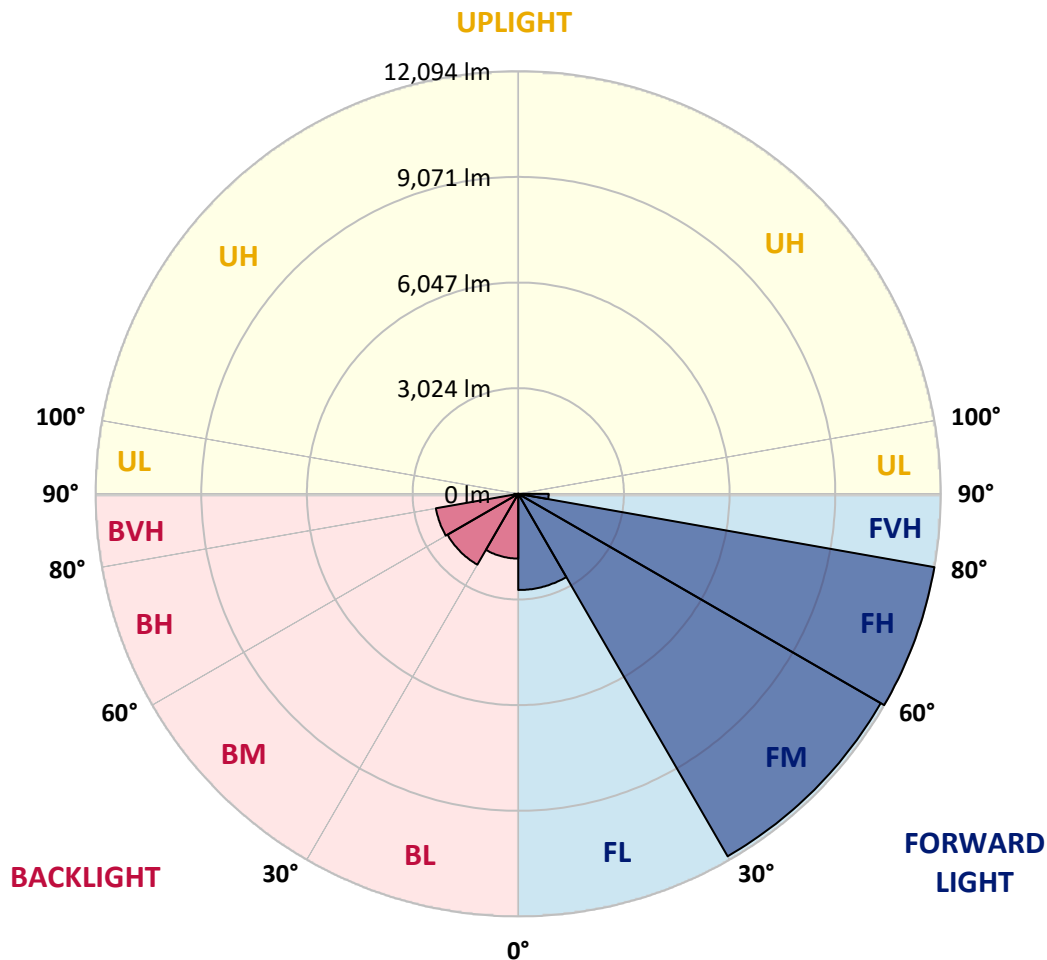


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.0	8.0			
FM (30°-60°)	11978.7	34.8			
FH (60°-80°)	12094.1	35.2			G5
FVH (80°-90°)	869.7	2.5			G5
BL (0°-30°)	1852.4	5.4	B3/2500		
BM (30°-60°)	2340.0	6.8	B2/2500		
BH (60°-80°)	2392.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	113.4	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°	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1
2.5°	7413.8	7497.6	7528.0	7573.7	7691.8	7779.3	7832.6	7893.6	7965.9	8026.8
5°	6895.9	6941.6	7014.0	7063.5	7212.0	7448.1	7608.0	7866.9	7859.3	7954.5
7.5°	6393.3	6439.0	6473.3	6572.3	6785.5	6998.7	7291.9	7710.8	7680.3	7901.2
10°	6081.1	6046.8	6058.2	6225.8	6393.3	6633.2	7002.5	7429.0	7539.4	7882.1
12.5°	5787.9	5749.8	5841.2	5947.8	6153.4	6370.4	6812.2	7196.7	7364.3	7813.6
15°	5605.1	5578.4	5692.7	5738.4	5982.1	6241.0	6553.2	7021.6	7204.4	7729.8
17.5°	5502.3	5525.1	5567.0	5666.0	5822.1	6043.0	6385.7	6903.5	6983.5	7627.0
20°	5521.3	5548.0	5551.8	5593.7	5700.3	5871.6	6221.9	6777.9	6831.2	7608.0
22.5°	5673.6	5635.5	5650.8	5624.1	5654.6	5787.9	6096.3	6610.3	6816.0	7448.1
25°	5902.1	5848.8	5841.2	5749.8	5692.7	5730.7	6073.4	6568.5	6701.7	7398.6
27.5°	6305.7	6225.8	6225.8	6088.7	5856.4	5795.5	6008.7	6499.9	6618.0	7352.9
30°	6694.1	6694.1	6697.9	6503.7	6244.8	5944.0	6035.4	6473.3	6549.4	7215.8
32.5°	7166.3	7154.9	7135.8	7040.6	6640.8	6191.5	6164.8	6439.0	6477.1	7170.1
35°	7627.0	7596.6	7745.1	7661.3	7253.9	6675.1	6298.1	6454.2	6538.0	7101.5
37.5°	7973.5	7992.6	8301.0	8354.3	8004.0	7223.4	6675.1	6606.5	6686.5	7200.5
40°	8422.9	8499.0	8788.4	8967.4	8754.1	7946.9	7272.9	6861.7	6918.8	7421.4
42.5°	9013.1	9077.8	9447.1	9679.4	9618.5	8868.4	7863.1	7394.7	7349.1	7790.8
45°	9793.7	9805.1	10178.2	10498.1	10623.8	9831.7	8799.8	8068.7	8030.6	8426.7
47.5°	10722.8	10711.3	10943.6	11286.3	11625.2	10981.7	9877.4	9093.0	8955.9	9336.7
50°	11621.4	11571.9	11625.2	12063.1	12714.2	12421.0	11187.3	10345.8	10208.7	10418.1
52.5°	12116.4	12177.3	12032.6	12611.4	13871.8	14123.1	12923.7	11842.3	11724.2	11827.0
55°	11769.9	11895.6	11800.4	12348.7	14378.2	16198.4	15170.3	13574.8	13422.5	13384.4
57.5°	10296.3	10524.8	10543.8	11412.0	14203.1	17805.3	18330.7	15619.6	15391.1	15002.7
60°	7905.0	8133.5	8308.6	9336.7	12702.8	18764.8	21993.8	18528.7	17774.8	16769.5
62.5°	5540.3	5696.5	5871.6	6503.7	9793.7	18201.3	25161.9	22625.9	21236.1	18631.6
65°	4036.3	4158.1	4337.1	4710.2	6016.3	15059.8	26631.7	27492.3	26174.8	21000.0
67.5°	3038.6	3114.8	3350.9	3948.7	4169.5	9302.5	25108.6	32632.8	31566.7	23631.2
70°	2299.9	2364.6	2585.5	3404.2	3895.4	4988.2	19808.2	33779.0	34083.6	26582.2
72.5°	1584.0	1656.4	1903.9	2836.8	3708.8	3956.3	12432.5	30687.1	31840.8	27796.9
75°	971.0	1020.5	1165.2	2151.4	3682.1	3868.7	6842.6	25146.7	26369.0	25683.6
77.5°	685.4	681.6	708.3	1260.4	3190.9	3891.6	4219.0	18425.9	19614.0	18928.6
80°	498.8	502.6	529.3	753.9	2166.6	3956.3	3324.2	12341.1	12695.2	9869.8
82.5°	300.8	316.0	380.8	510.2	1302.3	3571.7	3072.9	6857.8	6416.1	3168.1
85°	159.9	159.9	224.7	323.7	693.0	2665.5	2958.7	3263.3	2734.0	982.4
87.5°	38.1	38.1	64.7	129.5	278.0	1275.6	2018.1	1298.5	1039.5	331.3
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°
7962.1	0°	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1	7962.1
8064.9	2.5°	8049.7	8004.0	8061.1	7946.9	7855.5	7859.3	7718.4	7710.8	7691.8	7592.8
8099.2	5°	8141.1	8103.0	8038.3	7912.6	7710.8	7509.0	7387.1	7231.0	7166.3	7132.0
8125.8	7.5°	8228.7	8160.1	7973.5	7798.4	7486.1	7105.4	6884.5	6675.1	6408.5	6378.1
8202.0	10°	8251.5	8106.8	7866.9	7493.7	7078.7	6656.0	6153.4	5765.0	5559.4	5399.5
8236.3	12.5°	8217.2	8156.3	7695.6	7215.8	6587.5	5924.9	5338.5	4790.2	4409.4	4211.4
8183.0	15°	8213.4	8106.8	7505.2	6793.1	5989.7	5125.3	4291.4	3632.6	3232.8	3069.1
8171.5	17.5°	8217.2	7962.1	7280.5	6366.6	5285.2	4116.2	3198.6	2657.8	2437.0	2414.1
8202.0	20°	8141.1	7855.5	7044.4	5864.0	4401.8	3091.9	2322.8	2101.9	2101.9	2132.4
8137.3	22.5°	8072.5	7695.6	6671.3	5243.3	3503.2	2239.0	1888.7	1823.9	1896.3	1949.6
8133.5	25°	7977.3	7562.3	6290.5	4599.8	2665.5	1804.9	1641.2	1656.4	1724.9	1820.1
8045.9	27.5°	7840.3	7330.0	5837.4	3853.5	1983.9	1557.4	1515.5	1523.1	1595.5	1637.4
7927.8	30°	7684.1	7093.9	5418.5	3111.0	1572.6	1427.9	1424.1	1443.2	1454.6	1477.4
7893.6	32.5°	7486.1	6781.7	4973.0	2418.0	1416.5	1355.6	1340.3	1328.9	1340.3	1336.5
7786.9	35°	7345.2	6614.1	4519.9	1843.0	1328.9	1290.8	1279.4	1260.4	1245.2	1222.3
7786.9	37.5°	7307.2	6446.6	4043.9	1504.1	1260.4	1241.3	1203.3	1169.0	1150.0	1138.5
7954.5	40°	7284.3	6336.2	3579.3	1321.3	1203.3	1184.2	1138.5	1092.8	1073.8	1062.4
8205.8	42.5°	7364.3	6275.3	3107.2	1229.9	1153.8	1119.5	1070.0	1016.7	1012.9	1005.3
8666.6	45°	7646.1	6351.4	2669.3	1165.2	1104.3	1047.1	982.4	955.8	951.9	944.3
9431.9	47.5°	8285.8	6541.8	2296.1	1123.3	1051.0	1001.5	932.9	894.8	891.0	887.2
10581.9	50°	9169.2	7128.2	1983.9	1073.8	1016.7	948.1	883.4	841.5	833.9	818.7
12112.6	52.5°	10555.2	8114.4	1797.3	1047.1	955.8	898.6	830.1	784.4	765.4	750.1
13852.8	55°	12116.4	9336.7	1763.0	1001.5	891.0	837.7	776.8	731.1	712.1	693.0
15486.3	57.5°	13894.7	10955.0	2006.7	971.0	845.3	776.8	708.3	666.4	651.1	632.1
17058.9	60°	15551.1	12569.5	2764.5	925.3	803.4	719.7	651.1	609.2	590.2	571.2
18993.3	62.5°	17466.4	14568.6	4047.7	925.3	765.4	658.7	590.2	559.7	548.3	529.3
20954.3	65°	19732.0	16636.3	4984.4	982.4	753.9	605.4	533.1	502.6	491.2	479.8
22530.7	67.5°	21456.9	17824.3	4287.6	1134.7	803.4	559.7	476.0	456.9	449.3	437.9
23589.3	70°	21639.7	17100.8	2585.5	1226.1	852.9	514.1	426.5	407.4	407.4	396.0
22454.6	72.5°	19998.6	15174.1	1740.2	1092.8	773.0	460.7	377.0	361.7	354.1	346.5
19644.4	75°	16735.3	12870.4	1374.6	872.0	594.0	380.8	327.5	312.2	300.8	297.0
13331.1	77.5°	11240.6	8365.7	1016.7	681.6	437.9	308.4	274.2	258.9	247.5	243.7
5258.6	80°	4318.0	3187.1	654.9	495.0	308.4	243.7	217.0	201.8	194.2	182.8
1447.0	82.5°	1271.8	1031.9	365.5	304.6	198.0	167.5	156.1	144.7	133.3	121.8
536.9	85°	525.5	472.2	224.7	159.9	121.8	99.0	91.4	80.0	68.5	60.9
220.9	87.5°	243.7	201.8	102.8	60.9	41.9	22.8	11.4	3.8	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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<u>180°</u>
7962.1
7627.0
7147.2
6324.8
5338.5
4158.1
3069.1
2433.2
2143.8
1972.4
1812.5
1629.7
1473.6
1325.1
1218.5
1130.9
1066.2
1016.7
951.9
887.2
818.7
750.1
685.4
624.5
571.2
525.5
476.0
430.3
388.4
342.7
289.4
232.3
175.2
118.0
53.3
0.0
0.0

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