

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: P574984

Luminaire Tested: **EPH-VN-06-750-U-SL2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574984  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-750-U-SL2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

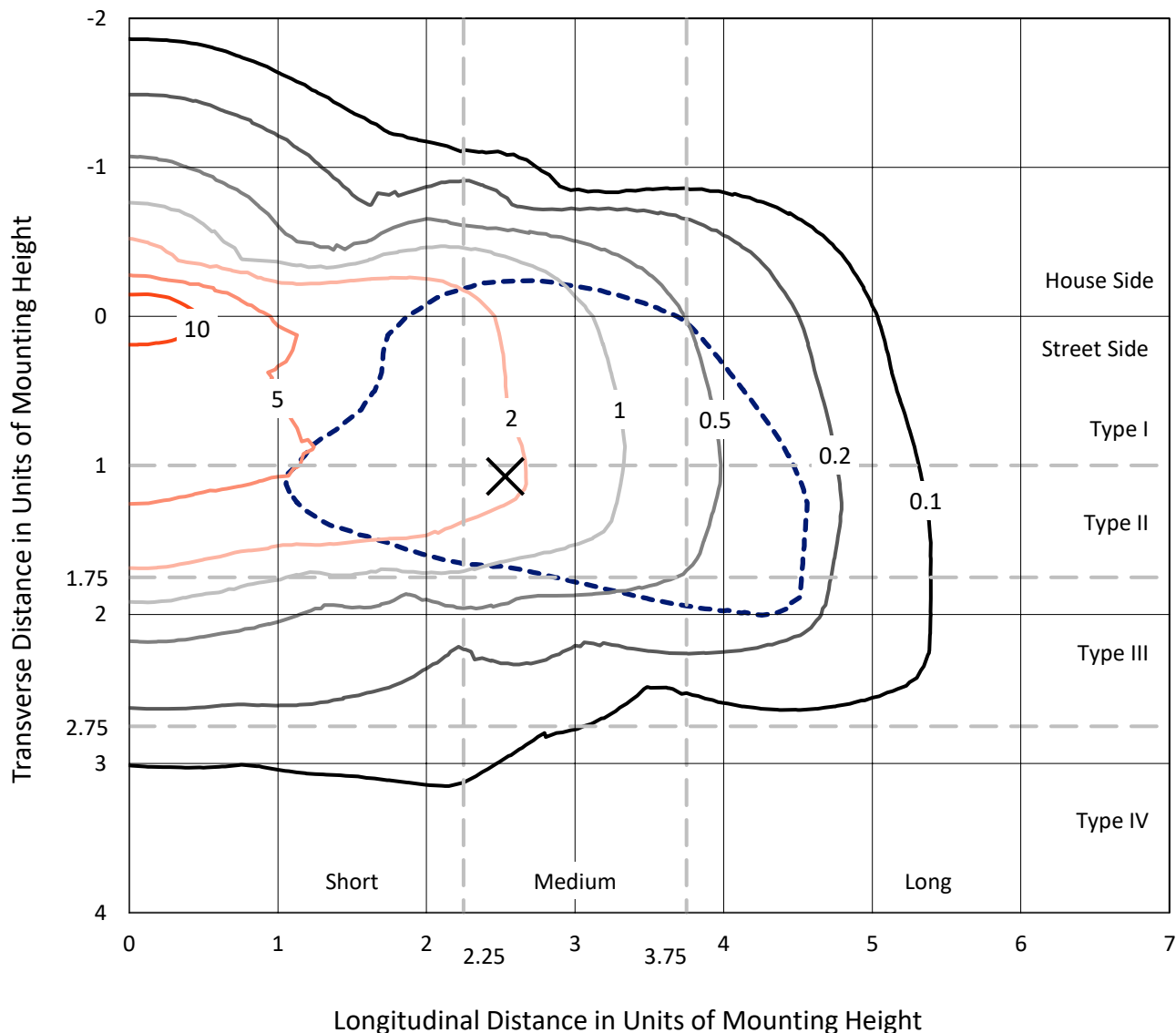
Lumens per Lamp: N/A  
Luminaire Lumens: 53965.4 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

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

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### Iso-Footcandle Lines of Horizontal Illumination

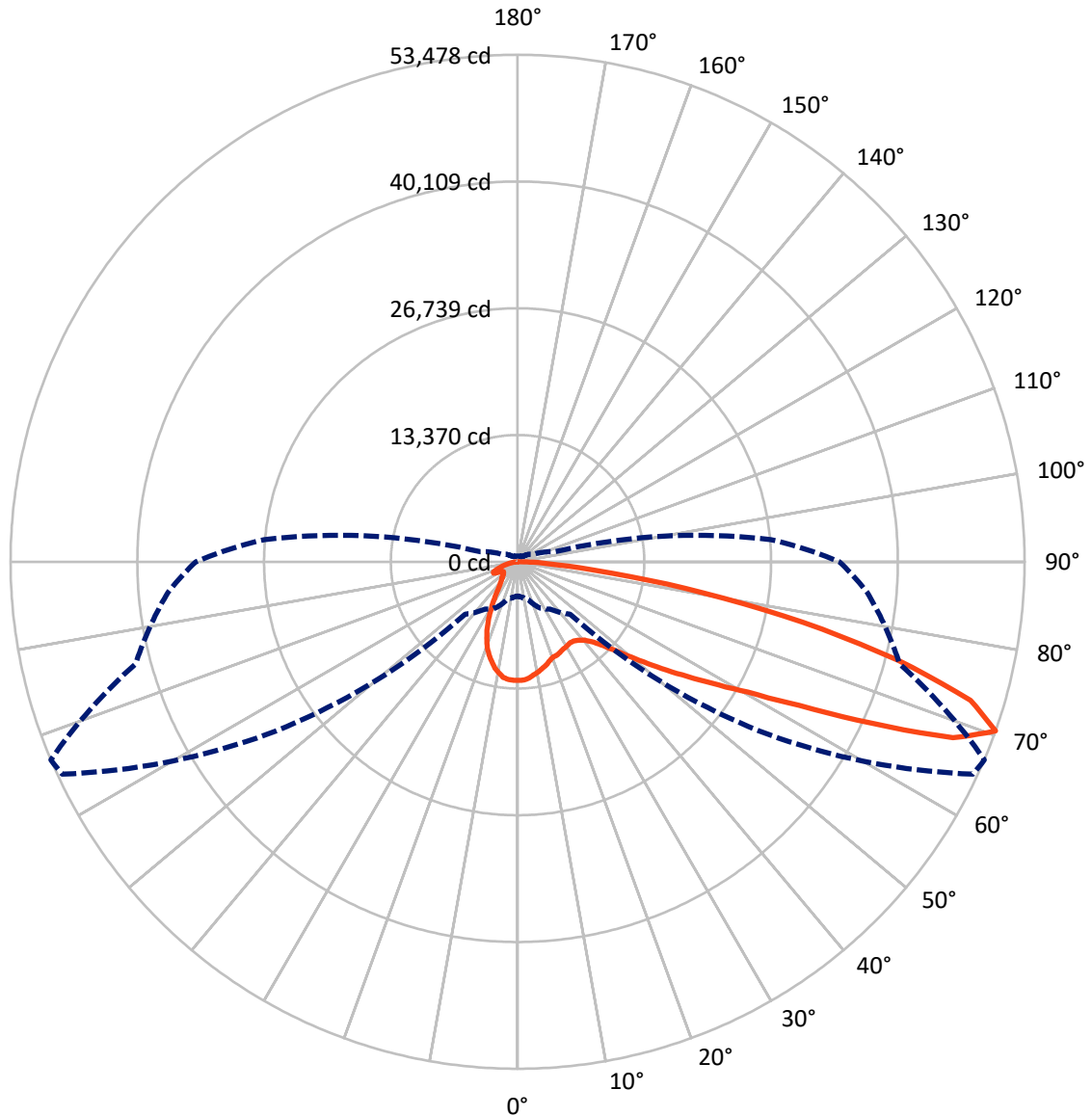
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 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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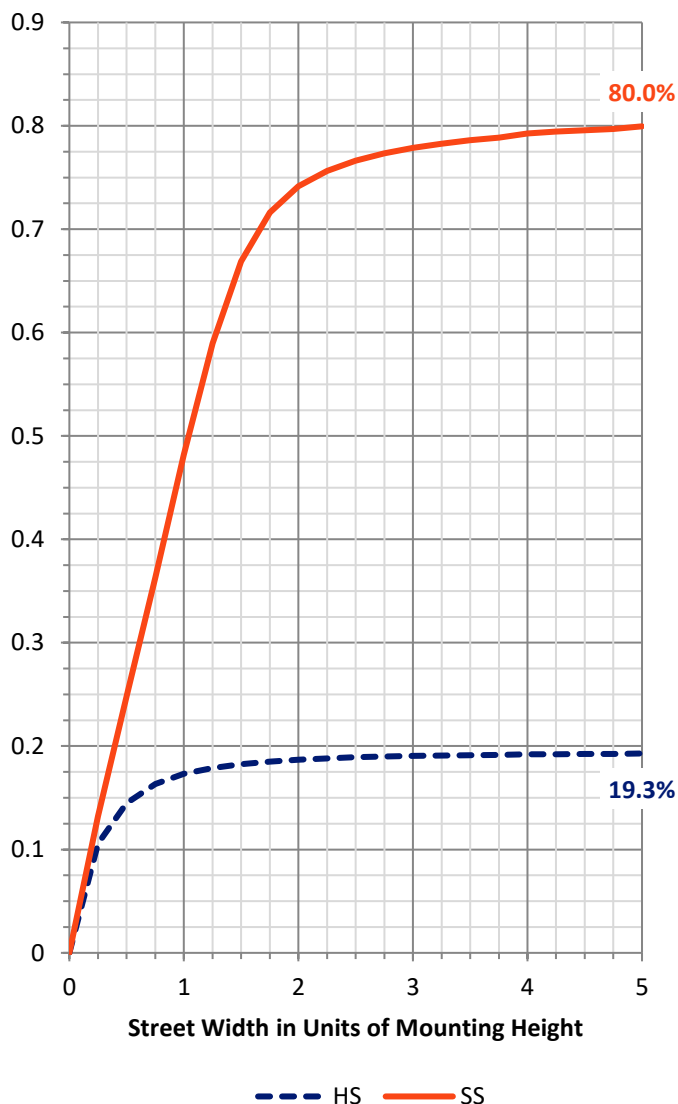
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10510.3	0.0	10510.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	43455.1	0.0	43455.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	53965.4	0.0	53965.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1090.0	2.0
10°-20°	2610.6	4.8
20°-30°	3525.4	6.5
30°-40°	4717.3	8.7
40°-50°	6936.7	12.9
50°-60°	10812.5	20.0
60°-70°	13319.2	24.7
70°-80°	9411.2	17.4
80°-90°	1542.5	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°	53965.4	100.0
0°-180°	53965.4	100.0

**Coefficient of Utilization**



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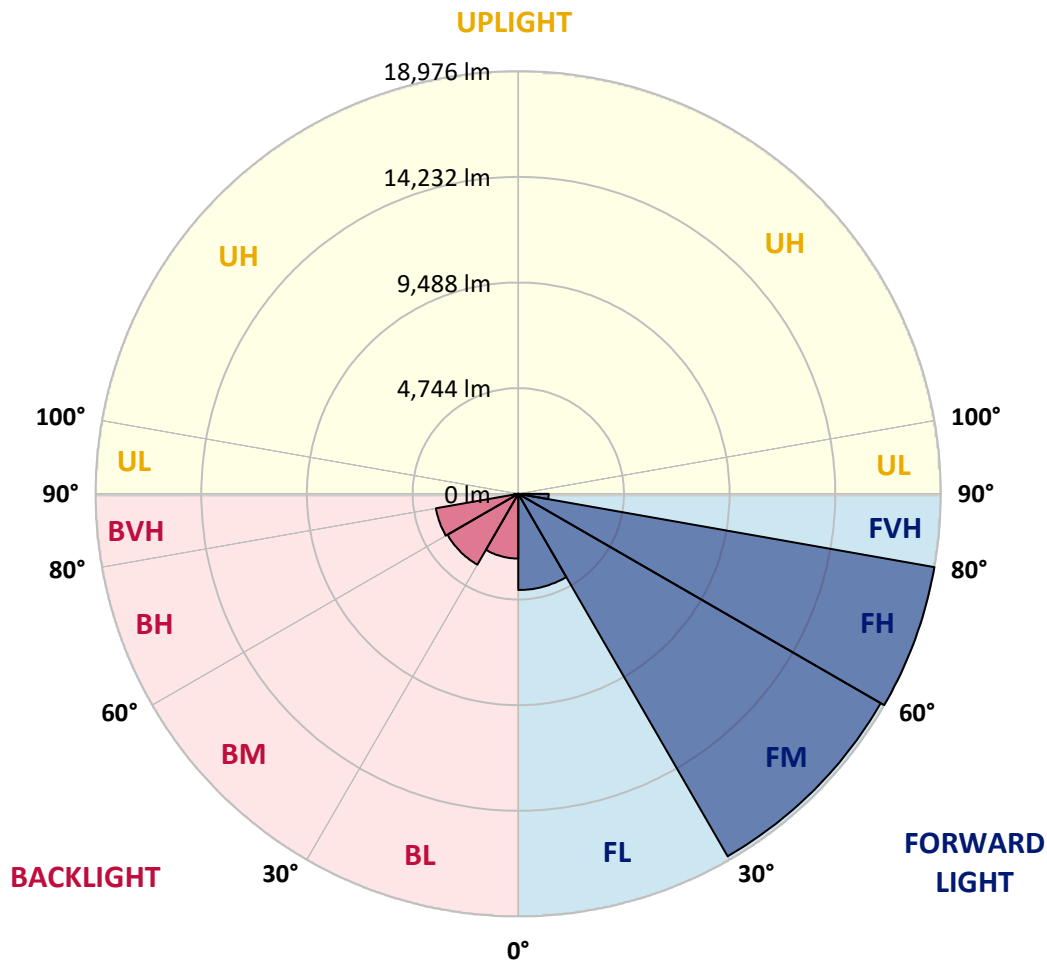
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4319.5	8.0			
FM (30°-60°)	18795.0	34.8			
FH (60°-80°)	18976.0	35.2			G5
FVH (80°-90°)	1364.6	2.5			G5
BL (0°-30°)	2906.4	5.4	B4/5000		
BM (30°-60°)	3671.5	6.8	B3/5000		
BH (60°-80°)	3754.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	178.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8
2.5°	11632.5	11763.9	11811.7	11883.4	12068.6	12206.0	12289.7	12385.3	12498.8	12594.4
5°	10819.9	10891.6	11005.2	11082.8	11315.8	11686.3	11937.2	12343.5	12331.5	12480.9
7.5°	10031.3	10103.0	10156.8	10312.1	10646.7	10981.3	11441.3	12098.5	12050.7	12397.2
10°	9541.4	9487.6	9505.5	9768.4	10031.3	10407.7	10987.2	11656.4	11829.7	12367.4
12.5°	9081.3	9021.6	9165.0	9332.3	9654.9	9995.5	10688.5	11291.9	11554.8	12259.8
15°	8794.6	8752.7	8932.0	9003.7	9386.1	9792.3	10282.2	11017.1	11303.9	12128.4
17.5°	8633.3	8669.1	8734.8	8890.2	9135.1	9481.6	10019.4	10831.9	10957.4	11967.1
20°	8663.1	8704.9	8710.9	8776.6	8943.9	9212.8	9762.4	10634.7	10718.4	11937.2
22.5°	8902.1	8842.4	8866.3	8824.4	8872.2	9081.3	9565.3	10371.9	10694.5	11686.3
25°	9260.6	9176.9	9165.0	9021.6	8932.0	8991.7	9529.4	10306.1	10515.2	11608.6
27.5°	9893.9	9768.4	9768.4	9553.3	9188.9	9093.3	9427.9	10198.6	10383.8	11536.9
30°	10503.3	10503.3	10509.3	10204.6	9798.3	9326.3	9469.7	10156.8	10276.3	11321.8
32.5°	11244.1	11226.2	11196.3	11047.0	10419.7	9714.7	9672.8	10103.0	10162.7	11250.1
35°	11967.1	11919.3	12152.3	12020.8	11381.6	10473.4	9881.9	10126.9	10258.3	11142.6
37.5°	12510.8	12540.6	13024.6	13108.2	12558.5	11333.8	10473.4	10365.9	10491.3	11297.9
40°	13215.8	13335.2	13789.3	14070.1	13735.5	12468.9	11411.4	10766.2	10855.8	11644.4
42.5°	14141.8	14243.4	14822.9	15187.4	15091.8	13914.8	12337.5	11602.6	11530.9	12224.0
45°	15366.6	15384.5	15970.0	16471.9	16669.1	15426.3	13807.2	12660.1	12600.4	13221.7
47.5°	16824.4	16806.5	17170.9	17708.6	18240.4	17230.7	15498.0	14267.3	14052.2	14649.6
50°	18234.4	18156.7	18240.4	18927.4	19949.1	19489.1	17553.3	16232.9	16017.8	16346.4
52.5°	19011.1	19106.7	18879.6	19787.8	21765.4	22159.7	20277.7	18580.9	18395.7	18557.0
55°	18467.4	18664.6	18515.2	19375.5	22560.0	25415.8	23802.7	21299.3	21060.4	21000.6
57.5°	16155.2	16513.7	16543.6	17905.8	22285.1	27937.1	28761.6	24507.7	24149.2	23539.8
60°	12403.2	12761.7	13036.5	14649.6	19931.2	29442.7	34509.1	29072.3	27889.3	26312.0
62.5°	8693.0	8938.0	9212.8	10204.6	15366.6	28558.4	39480.0	35500.9	33320.2	29233.6
65°	6333.0	6524.2	6805.0	7390.5	9439.8	23629.4	41786.1	43136.4	41069.2	32949.8
67.5°	4767.7	4887.2	5257.6	6195.6	6542.2	14595.9	39396.3	51202.1	49529.2	37078.2
70°	3608.6	3710.2	4056.7	5341.3	6112.0	7826.7	31079.7	53000.4	53478.4	41708.5
72.5°	2485.4	2598.9	2987.3	4451.1	5819.2	6207.6	19507.0	48149.1	49959.4	43614.4
75°	1523.5	1601.2	1828.2	3375.6	5777.4	6070.2	10736.3	39456.1	41373.9	40298.5
77.5°	1075.4	1069.4	1111.3	1977.6	5006.7	6106.0	6619.8	28910.9	30775.0	29699.6
80°	782.7	788.6	830.5	1183.0	3399.5	6207.6	5215.8	19363.6	19919.2	15486.1
82.5°	472.0	495.9	597.5	800.6	2043.3	5604.1	4821.5	10760.2	10067.2	4970.8
85°	250.9	250.9	352.5	507.8	1087.4	4182.2	4642.2	5120.2	4289.7	1541.4
87.5°	59.7	59.7	101.6	203.1	436.1	2001.5	3166.5	2037.3	1631.1	519.8
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°
12492.8	0°	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8	12492.8
12654.1	2.5°	12630.2	12558.5	12648.2	12468.9	12325.5	12331.5	12110.5	12098.5	12068.6	11913.3
12707.9	5°	12773.6	12713.9	12612.3	12415.2	12098.5	11781.9	11590.7	11345.7	11244.1	11190.4
12749.7	7.5°	12911.0	12803.5	12510.8	12235.9	11746.0	11148.5	10802.0	10473.4	10055.2	10007.4
12869.2	10°	12946.9	12719.9	12343.5	11758.0	11106.7	10443.6	9654.9	9045.5	8722.9	8471.9
12923.0	12.5°	12893.1	12797.5	12074.6	11321.8	10336.0	9296.4	8376.3	7516.0	6918.6	6607.9
12839.4	15°	12887.1	12719.9	11775.9	10658.6	9398.0	8041.8	6733.3	5699.7	5072.4	4815.5
12821.4	17.5°	12893.1	12492.8	11423.4	9989.5	8292.7	6458.5	5018.6	4170.3	3823.7	3787.9
12869.2	20°	12773.6	12325.5	11053.0	9200.8	6906.6	4851.4	3644.5	3298.0	3298.0	3345.8
12767.7	22.5°	12666.1	12074.6	10467.4	8227.0	5496.6	3513.0	2963.4	2861.8	2975.3	3059.0
12761.7	25°	12516.7	11865.5	9870.0	7217.3	4182.2	2831.9	2575.0	2598.9	2706.5	2855.8
12624.3	27.5°	12301.6	11501.0	9159.0	6046.3	3112.8	2443.6	2377.9	2389.8	2503.3	2569.1
12439.1	30°	12056.7	11130.6	8501.8	4881.2	2467.5	2240.5	2234.5	2264.4	2282.3	2318.1
12385.3	32.5°	11746.0	10640.7	7802.8	3793.9	2222.5	2126.9	2103.0	2085.1	2103.0	2097.1
12218.0	35°	11524.9	10377.8	7091.8	2891.7	2085.1	2025.4	2007.5	1977.6	1953.7	1917.8
12218.0	37.5°	11465.2	10114.9	6345.0	2360.0	1977.6	1947.7	1888.0	1834.2	1804.3	1786.4
12480.9	40°	11429.4	9941.7	5616.1	2073.2	1888.0	1858.1	1786.4	1714.7	1684.8	1666.9
12875.2	42.5°	11554.8	9846.1	4875.2	1929.8	1810.3	1756.5	1678.9	1595.2	1589.2	1577.3
13598.1	45°	11996.9	9965.6	4188.2	1828.2	1732.6	1643.0	1541.4	1499.6	1493.6	1481.7
14799.0	47.5°	13000.7	10264.3	3602.7	1762.5	1649.0	1571.3	1463.8	1404.0	1398.0	1392.1
16603.3	50°	14386.8	11184.4	3112.8	1684.8	1595.2	1487.7	1386.1	1320.4	1308.4	1284.5
19005.1	52.5°	16561.5	12731.8	2820.0	1643.0	1499.6	1410.0	1302.5	1230.8	1200.9	1177.0
21735.5	55°	19011.1	14649.6	2766.2	1571.3	1398.0	1314.4	1218.8	1147.1	1117.2	1087.4
24298.6	57.5°	21801.2	17188.8	3148.6	1523.5	1326.4	1218.8	1111.3	1045.5	1021.7	991.8
26766.1	60°	24400.1	19722.1	4337.5	1451.8	1260.6	1129.2	1021.7	955.9	926.1	896.2
29801.2	62.5°	27405.4	22858.7	6351.0	1451.8	1200.9	1033.6	926.1	878.3	860.3	830.5
32878.1	65°	30960.2	26102.9	7820.7	1541.4	1183.0	950.0	836.4	788.6	770.7	752.8
35351.5	67.5°	33666.7	27967.0	6727.4	1780.4	1260.6	878.3	746.8	716.9	705.0	687.1
37012.5	70°	33953.5	26831.8	4056.7	1923.8	1338.3	806.6	669.2	639.3	639.3	621.4
35232.0	72.5°	31378.4	23808.7	2730.4	1714.7	1212.8	722.9	591.5	567.6	555.6	543.7
30822.8	75°	26258.2	20194.0	2156.8	1368.2	932.0	597.5	513.8	489.9	472.0	466.0
20917.0	77.5°	17636.9	13126.1	1595.2	1069.4	687.1	483.9	430.2	406.3	388.3	382.4
8250.9	80°	6775.2	5000.7	1027.6	776.7	483.9	382.4	340.6	316.7	304.7	286.8
2270.3	82.5°	1995.5	1619.1	573.6	478.0	310.7	262.9	245.0	227.0	209.1	191.2
842.4	85°	824.5	740.8	352.5	250.9	191.2	155.3	143.4	125.5	107.5	95.6
346.5	87.5°	382.4	316.7	161.3	95.6	65.7	35.8	17.9	6.0	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

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180°
12492.8
11967.1
11214.3
9923.8
8376.3
6524.2
4815.5
3817.8
3363.7
3094.8
2843.9
2557.1
2312.2
2079.2
1911.9
1774.4
1672.9
1595.2
1493.6
1392.1
1284.5
1177.0
1075.4
979.8
896.2
824.5
746.8
675.1
609.4
537.7
454.1
364.4
274.8
185.2
83.6
0.0
0.0

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