

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: P574826

Luminaire Tested: **EPH-VN-08-750-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574826  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-750-U-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

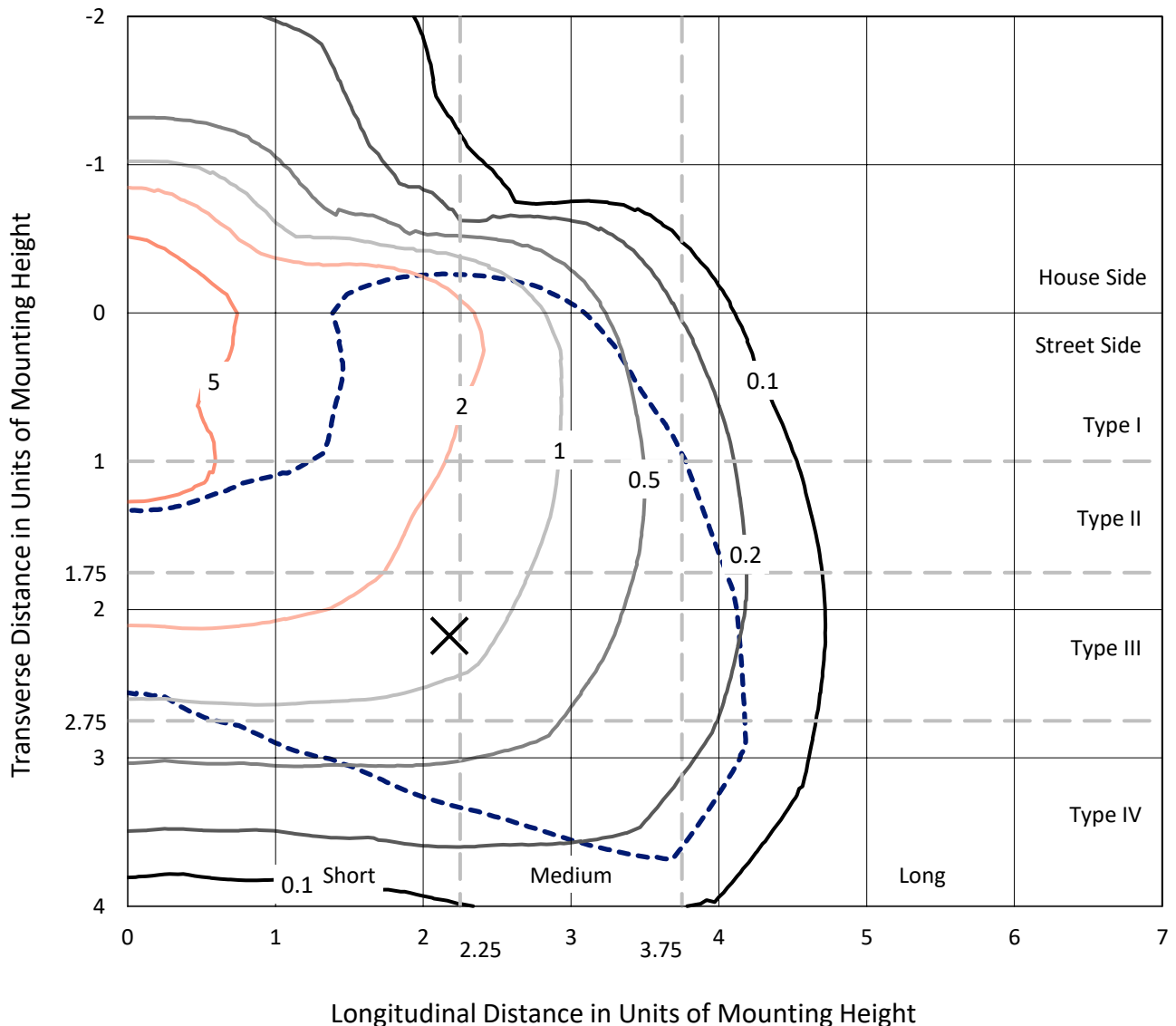
Lumens per Lamp: N/A  
Luminaire Lumens: 57639 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

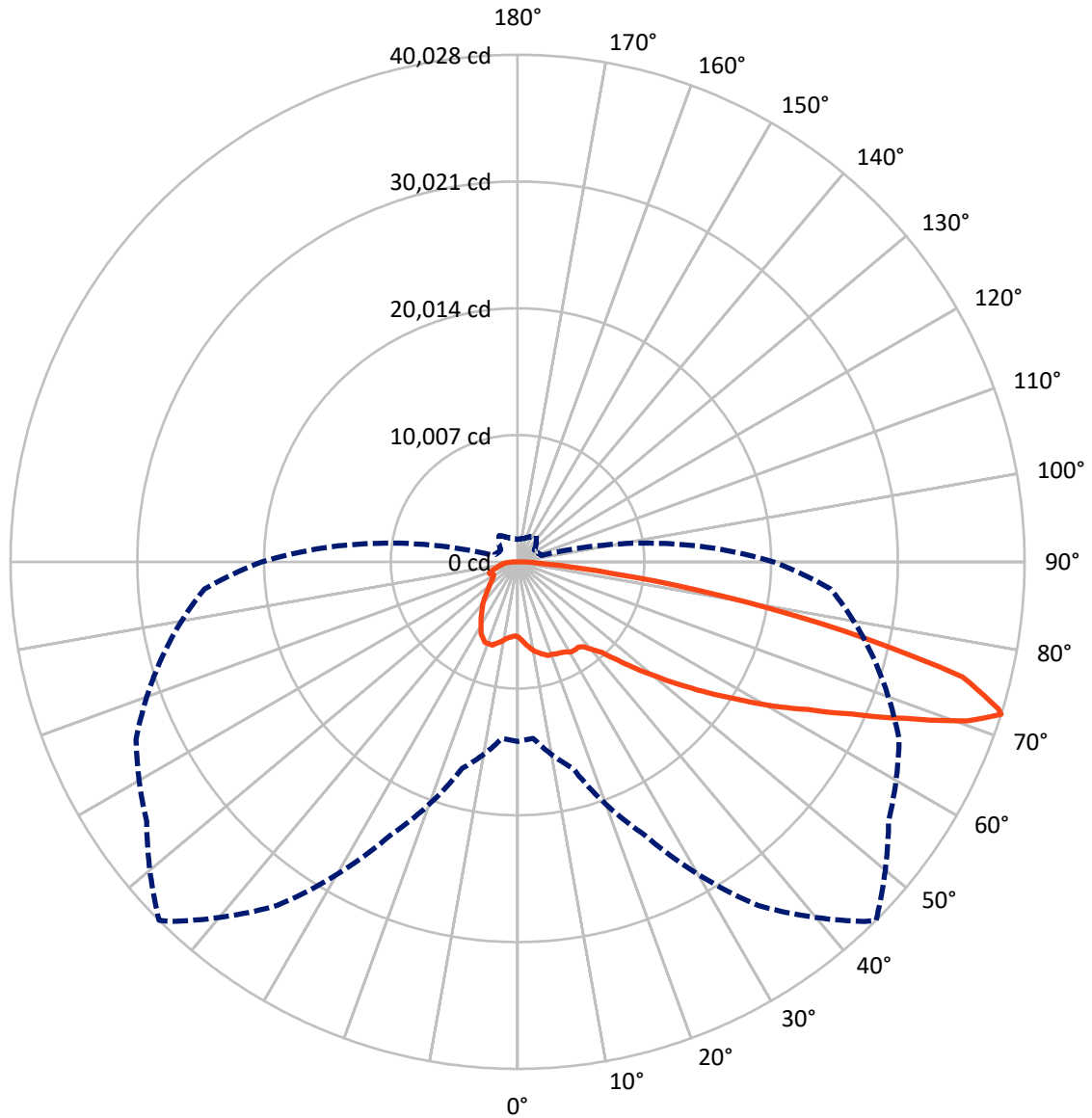
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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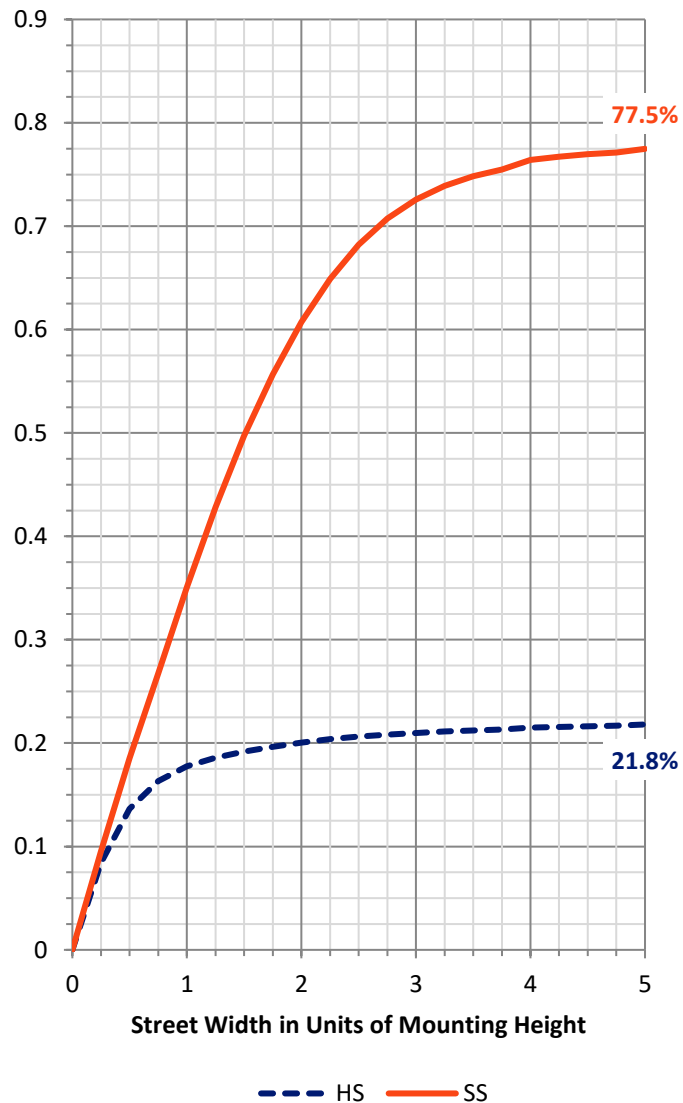
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12830.8	0.0	12830.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	44808.2	0.0	44808.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	57639.0	0.0	57639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.4	1.1
10°-20°	2020.8	3.5
20°-30°	3412.6	5.9
30°-40°	4722.5	8.2
40°-50°	6755.1	11.7
50°-60°	10895.3	18.9
60°-70°	16068.9	27.9
70°-80°	11668.8	20.2
80°-90°	1487.5	2.6
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°	57639.0	100.0
0°-180°	57639.0	100.0

**Coefficient of Utilization**

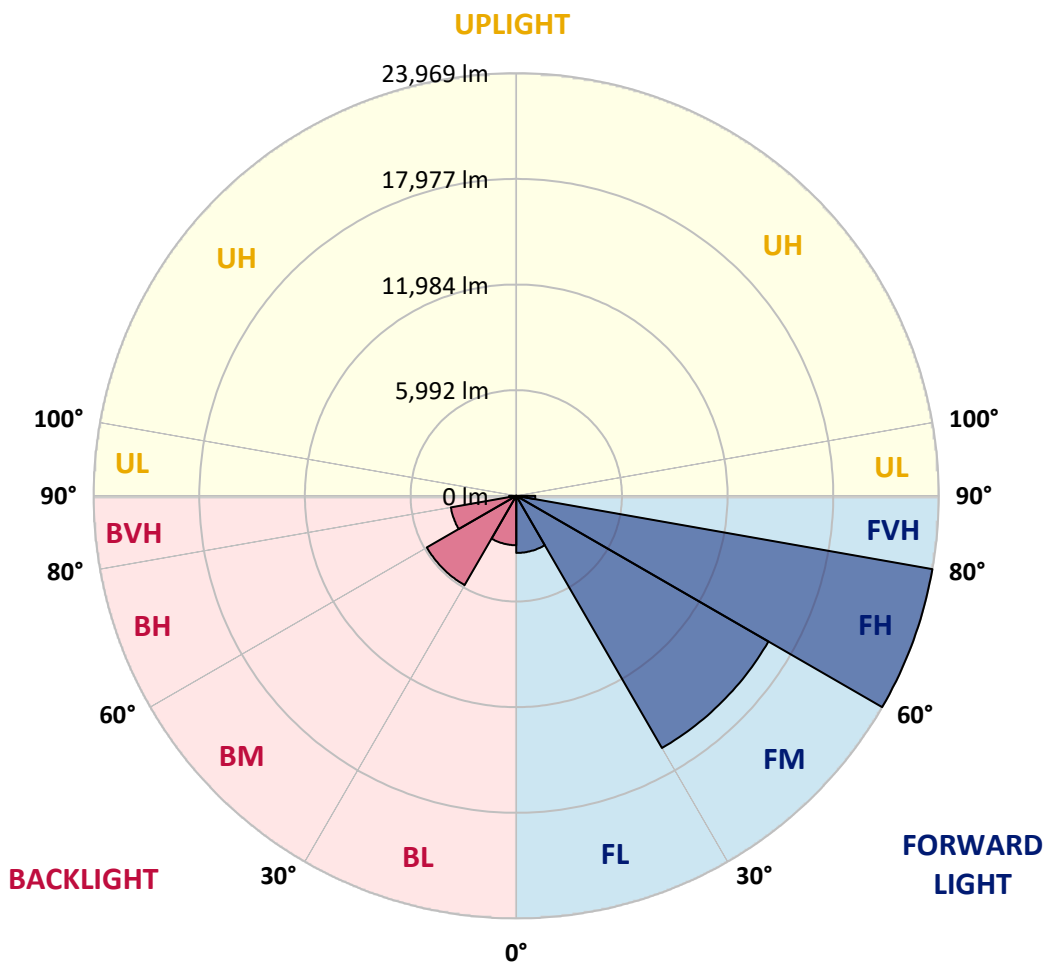


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3239.3	5.6			
FM (30°-60°)	16517.3	28.7			
FH (60°-80°)	23968.9	41.6			G5
FVH (80°-90°)	1082.7	1.9			G5
BL (0°-30°)	2801.5	4.9	B4/5000		
BM (30°-60°)	5855.6	10.2	B4/8500		
BH (60°-80°)	3768.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	404.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
2.5°	6252.8	6290.1	6252.8	6246.5	6184.4	6140.9	6178.2	6122.2	6060.1	6035.2
5°	6824.6	6830.8	6762.4	6768.6	6638.1	6501.4	6526.2	6358.4	6178.2	6109.8
7.5°	7408.8	7340.5	7241.0	7209.9	7004.8	6855.7	6837.0	6687.8	6408.1	6252.8
10°	7788.0	7812.8	7651.2	7514.5	7340.5	7160.2	7154.0	6874.3	6712.7	6482.7
12.5°	8123.6	8129.8	7993.1	7775.5	7558.0	7334.3	7365.3	7241.0	6967.5	6750.0
15°	8384.7	8347.4	8198.2	7999.3	7769.3	7595.3	7576.7	7471.0	7241.0	7060.8
17.5°	8459.3	8440.6	8291.4	8080.1	7856.4	7725.8	7775.5	7601.5	7508.3	7346.7
20°	8316.3	8272.8	8247.9	8011.7	7850.1	7837.7	7794.2	7831.5	7676.1	7526.9
22.5°	8055.2	8036.6	8024.2	7837.7	7763.1	7819.1	7893.6	7949.6	7924.7	7781.8
25°	7788.0	7875.0	7794.2	7707.2	7812.8	7955.8	7937.2	8117.4	8117.4	8073.9
27.5°	7974.4	7918.5	7856.4	7812.8	7850.1	8073.9	8061.5	8279.0	8359.8	8279.0
30°	8440.6	8384.7	8204.4	8011.7	7962.0	8204.4	8266.6	8459.3	8496.5	8297.6
32.5°	9317.0	9285.9	9000.0	8434.4	8129.8	8266.6	8297.6	8515.2	8484.1	8359.8
35°	10616.0	10510.4	10112.6	9155.4	8484.1	8347.4	8266.6	8440.6	8558.7	8496.5
37.5°	12039.4	11921.3	11430.2	10218.2	9124.3	8564.9	8502.8	8645.7	8782.5	8751.4
40°	13400.5	13400.5	12959.2	11548.3	10075.3	9093.2	9105.7	8944.1	9068.4	9012.4
42.5°	14743.1	14693.4	14513.1	13108.4	11094.6	9975.8	9776.9	9372.9	9596.7	9578.0
45°	16104.3	16067.0	16017.3	14562.8	12555.2	11169.2	11063.5	10336.3	10541.4	10454.4
47.5°	17192.0	17235.5	17235.5	16185.1	14115.3	12760.4	12605.0	11455.1	11846.7	11890.2
50°	18118.1	18136.7	18118.1	17732.7	15855.7	14581.5	14264.5	13096.0	13487.6	13829.4
52.5°	19398.5	19423.3	19336.3	19187.1	18217.5	16495.9	16141.6	14842.5	15644.3	16004.8
55°	20977.2	20790.7	20629.1	20741.0	20486.2	18602.9	18236.2	16645.0	17850.8	18329.4
57.5°	21269.3	21430.9	21841.2	22730.0	23096.7	20654.0	20442.7	18857.7	20343.2	20759.7
60°	22301.1	22033.8	23040.7	24967.5	25377.8	23326.6	23109.1	21281.8	22823.2	23258.3
62.5°	22978.6	22966.2	24457.9	26745.2	27677.5	26098.7	25657.4	24433.0	25502.1	25924.7
65°	22779.7	22959.9	25607.7	27789.4	29598.1	29250.0	28995.2	27142.9	28553.9	28516.6
67.5°	20964.8	21474.4	24880.5	28541.4	32457.2	33091.1	33010.3	30953.0	31033.8	30244.5
70°	18447.5	18273.5	21803.9	27758.3	33886.7	37647.1	37628.4	33787.3	33265.2	30623.6
72°	14171.3	13978.6	16881.2	23836.3	33134.7	39468.2	40027.6	35751.4	33240.3	29051.1
72.5°	12866.0	12698.2	15588.4	22437.8	32301.8	39940.6	39679.5	35826.0	32979.3	28311.5
75°	5923.3	5730.7	7788.0	13736.2	25197.5	35390.9	36279.7	33526.2	28802.5	22537.3
77.5°	1765.2	1709.3	2504.8	5544.2	14643.6	26073.9	26415.7	25297.0	20107.0	12343.9
80°	982.0	988.3	1292.8	2076.0	6439.2	15072.5	16303.2	15625.7	9863.9	4077.3
82.5°	547.0	578.0	808.0	1230.7	2958.6	6917.8	7446.1	7178.9	3567.7	1914.4
85°	285.9	298.3	422.7	658.8	1678.2	2187.8	2250.0	2411.6	1852.2	1305.2
87.5°	111.9	111.9	155.4	273.5	621.5	677.5	609.1	739.6	1062.8	845.3
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°
5935.8	0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
5979.3	2.5°	6029.0	5979.3	5973.1	5892.3	5917.1	5848.8	5855.0	5842.5	5848.8	5836.3
5997.9	5°	5997.9	5960.6	5855.0	5923.3	5861.2	5948.2	6016.6	5991.7	6010.4	6004.1
6097.4	7.5°	6041.4	5991.7	5979.3	5942.0	5997.9	6035.2	6091.2	6246.5	6234.1	6252.8
6283.8	10°	6172.0	6116.0	6078.7	6134.7	6103.6	6221.7	6283.8	6364.6	6507.6	6513.8
6551.1	12.5°	6426.8	6389.5	6314.9	6327.3	6433.0	6470.3	6507.6	6557.3	6650.6	6631.9
6731.4	15°	6718.9	6638.1	6594.6	6582.2	6607.0	6650.6	6644.3	6694.1	6743.8	6787.3
7029.7	17.5°	6930.2	6824.6	6837.0	6899.2	6893.0	6880.5	6799.7	6774.9	6799.7	6824.6
7297.0	20°	7147.8	7160.2	7067.0	7011.0	6986.2	6861.9	6799.7	6725.1	6650.6	6687.8
7520.7	22.5°	7421.3	7365.3	7228.6	7060.8	6936.5	6861.9	6669.2	6538.7	6538.7	6576.0
7856.4	25°	7732.0	7613.9	7377.8	7073.2	6917.8	6600.8	6464.1	6445.4	6395.7	6451.7
8030.4	27.5°	7974.4	7868.8	7545.6	7029.7	6600.8	6346.0	6265.2	6240.3	6321.1	6327.3
8086.3	30°	8073.9	8042.8	7570.4	6917.8	6277.6	5867.4	5817.7	5929.6	6016.6	6147.1
8272.8	32.5°	8204.4	8216.8	7607.7	6656.8	5855.0	5444.7	5370.2	5506.9	5755.5	5861.2
8415.7	35°	8422.0	8484.1	7576.7	6333.6	5407.5	5015.9	5003.5	5040.7	5283.1	5469.6
8583.6	37.5°	8801.1	8788.7	7570.4	5948.2	5053.2	4643.0	4543.5	4555.9	4717.5	4872.9
9043.5	40°	9310.8	9261.0	7551.8	5444.7	4593.2	4326.0	4158.1	4096.0	4083.6	4040.1
9621.5	42.5°	10006.9	9907.5	7545.6	4935.1	4176.8	3890.9	3772.8	3611.2	3493.1	3269.3
10640.9	45°	10976.5	10802.5	7384.0	4456.5	3766.6	3530.4	3350.1	3232.0	2977.2	2697.5
11933.7	47.5°	12474.4	11908.8	7390.2	3928.2	3368.8	3176.1	3051.8	2846.7	2573.2	2349.4
14227.2	50°	14680.9	13388.1	7178.9	3511.7	3045.6	2915.1	2784.5	2548.3	2287.3	2131.9
16719.6	52.5°	17527.6	15594.6	7172.6	3138.8	2790.7	2697.5	2554.6	2343.2	2150.6	2051.1
19759.0	55°	20921.3	18515.9	7396.4	2834.3	2529.7	2480.0	2417.8	2243.8	2057.3	1970.3
23146.4	57.5°	24395.7	21368.8	7756.9	2616.7	2305.9	2343.2	2299.7	2163.0	2013.8	1914.4
26272.8	60°	27484.8	23631.2	7029.7	2355.7	2107.0	2187.8	2250.0	2131.9	2051.1	2044.9
29678.9	62.5°	29815.6	24600.8	5345.3	2156.8	2001.4	2150.6	2318.4	2393.0	2355.7	2405.4
31897.8	65°	30667.1	24016.6	3679.6	2051.1	1920.6	2237.6	2610.5	2585.6	2368.1	2274.9
32886.0	67.5°	29473.7	21648.5	2728.6	1926.8	1864.6	2417.8	2778.3	2467.5	2138.1	2125.7
30051.8	70°	25346.7	18348.1	2225.1	1796.3	1771.4	2318.4	2703.7	2287.3	2013.8	1933.0
24824.6	72°	20194.1	14289.4	1951.7	1703.0	1622.2	2069.8	2529.7	2144.3	1908.1	1808.7
23189.9	72.5°	18435.1	13245.2	1914.4	1659.5	1591.2	2013.8	2442.7	2100.8	1883.3	1796.3
13891.6	75°	10112.6	6781.1	1684.4	1522.8	1342.5	1740.3	2262.4	1970.3	1777.6	1653.3
5152.6	77.5°	3760.4	2629.1	1454.4	1348.8	1162.3	1504.1	2057.3	1870.9	1616.0	1460.6
1715.5	80°	1442.0	1386.0	1187.2	1137.4	975.8	1317.7	1895.7	1678.2	1373.6	1218.2
938.5	82.5°	876.4	808.0	901.2	888.8	745.9	1199.6	1783.8	1572.5	1218.2	988.3
503.5	85°	478.6	478.6	627.8	602.9	522.1	957.2	1348.8	1044.2	770.7	634.0
248.6	87.5°	211.3	248.6	335.6	317.0	285.9	540.7	658.8	553.2	385.4	261.0
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°  
5935.8  
5805.2  
6010.4  
6290.1  
6439.2  
6700.3  
6768.6  
6812.2  
6743.8  
6557.3  
6476.5  
6426.8  
6153.3  
5942.0  
5575.3  
4854.3  
4052.5  
3281.8  
2697.5  
2324.6  
2150.6  
2013.8  
1964.1  
1901.9  
2001.4  
2411.6  
2324.6  
2088.4  
1895.7  
**1765.2**  
1727.9  
1640.9  
1429.6  
1168.5  
957.2  
646.4  
279.7  
0.0

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