

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: P574900

Luminaire Tested: **EPH-VN-08-740-U-5MQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-5MQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

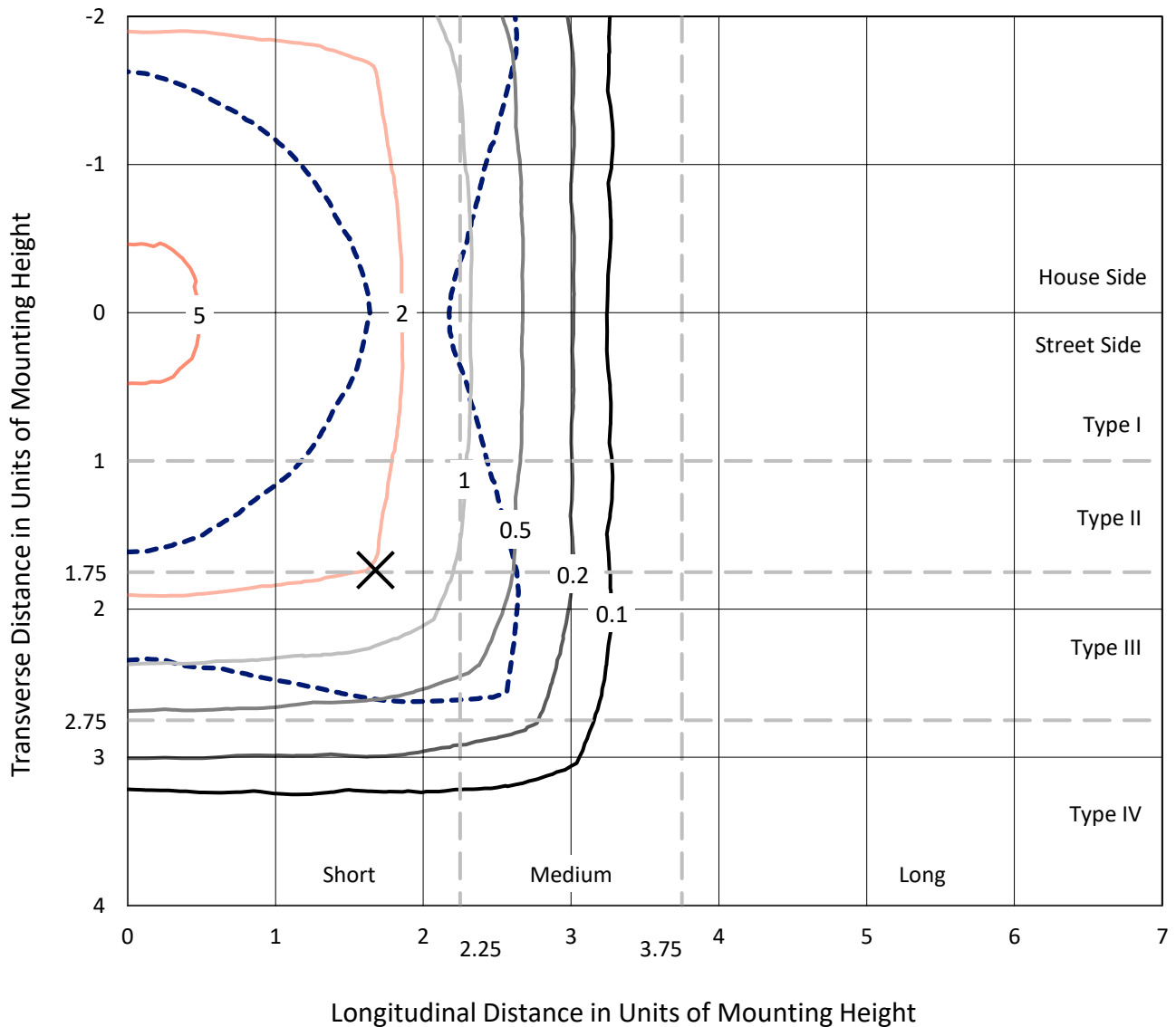
Lumens per Lamp: N/A
Luminaire Lumens: 56272.2 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

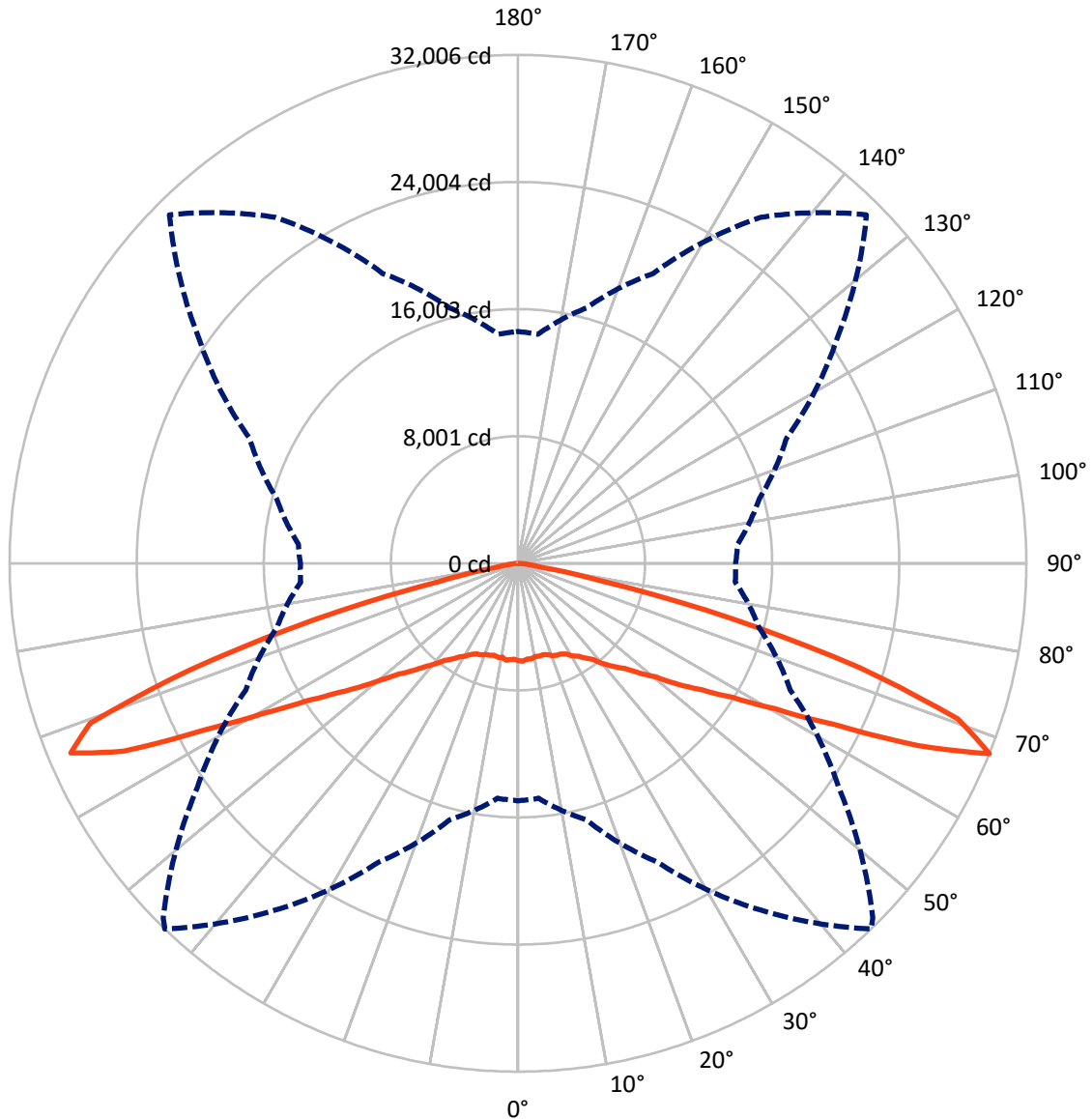
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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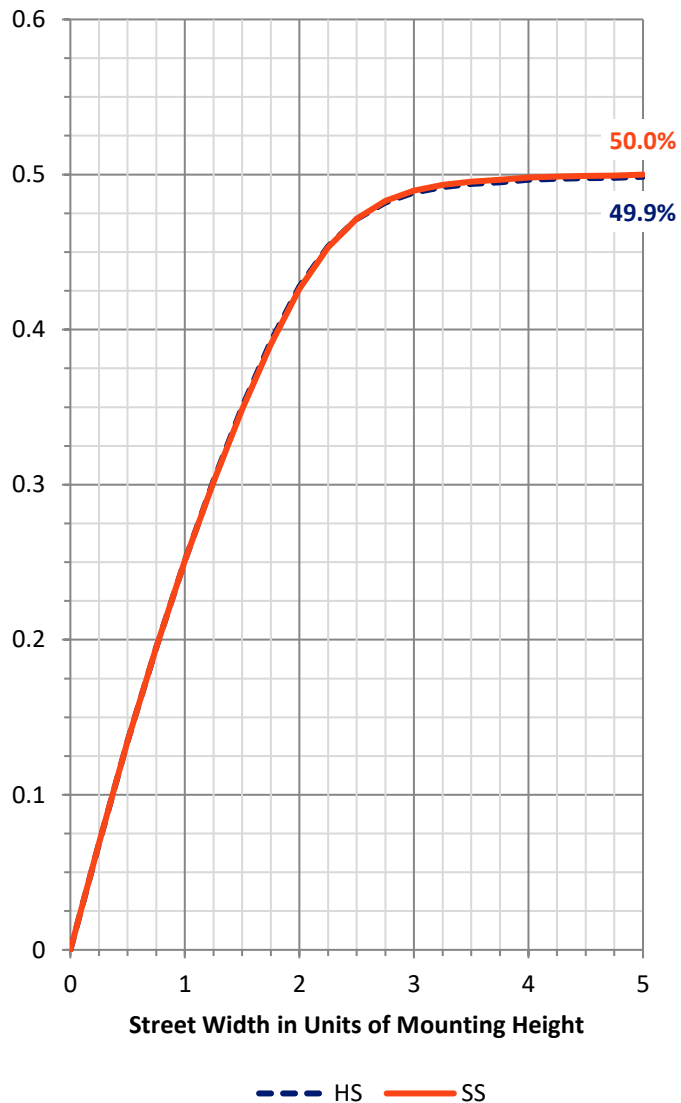
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28064.0	0.0	28064.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	28208.1	0.0	28208.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	56272.2	0.0	56272.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.7	1.0
10°-20°	1699.3	3.0
20°-30°	2889.8	5.1
30°-40°	4581.9	8.1
40°-50°	7471.2	13.3
50°-60°	12759.7	22.7
60°-70°	19407.4	34.5
70°-80°	6541.5	11.6
80°-90°	339.6	0.6
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°	56272.2	100.0
0°-180°	56272.2	100.0

Coefficient of Utilization



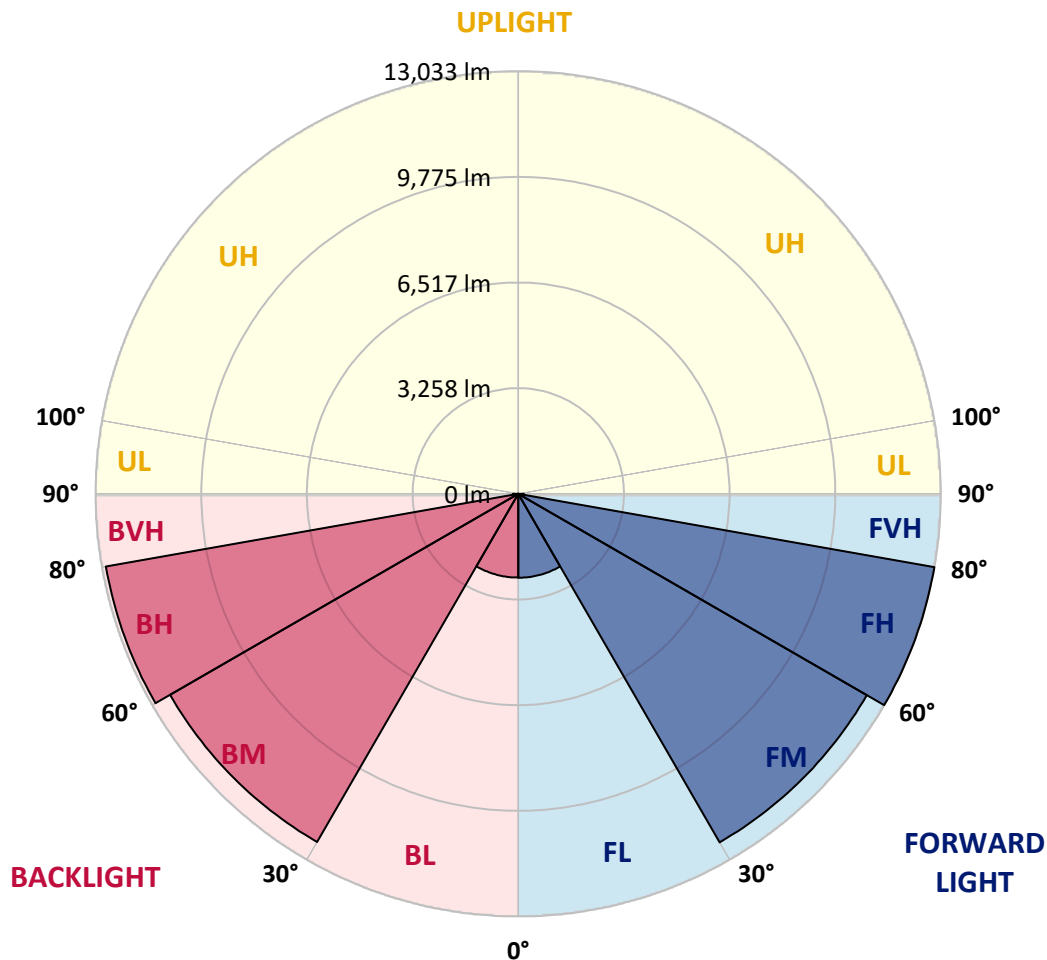
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.1	4.6			
FM (30°-60°)	12413.1	22.1			
FH (60°-80°)	13033.2	23.2			G5
FVH (80°-90°)	173.7	0.3			G2/225
BL (0°-30°)	2582.7	4.6	B4/5000		
BM (30°-60°)	12399.7	22.0	B5		
BH (60°-80°)	12915.7	23.0	B5		G5
BVH (80°-90°)	165.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8
2.5°	6005.5	6076.1	6127.5	6121.1	6140.3	6159.6	6133.9	6172.5	6146.8	6191.7
5°	6121.1	6101.8	6108.2	6069.7	6159.6	6056.8	6056.8	6108.2	6172.5	6095.4
7.5°	6050.4	6037.6	6005.5	6063.3	6082.5	6082.5	6133.9	6037.6	6146.8	6172.5
10°	5973.3	5902.7	5999.0	6056.8	6069.7	5966.9	6011.9	6037.6	6005.5	6037.6
12.5°	5909.1	5947.7	5947.7	5947.7	5928.4	5999.0	6044.0	6037.6	5973.3	6031.2
15°	5902.7	5883.4	5941.2	5992.6	5960.5	5973.3	5992.6	6050.4	5928.4	5954.1
17.5°	5896.3	5922.0	5941.2	5934.8	6044.0	6044.0	6024.7	5986.2	6082.5	6031.2
20°	5922.0	5902.7	5954.1	5973.3	6050.4	6204.6	6146.8	6114.6	6063.3	5999.0
22.5°	5954.1	5941.2	6011.9	6095.4	6243.1	6281.6	6275.2	6236.7	6146.8	6069.7
25°	6069.7	5954.1	6031.2	6191.7	6243.1	6320.2	6371.6	6320.2	6198.1	6217.4
27.5°	6243.1	6223.8	6326.6	6435.8	6390.8	6461.5	6416.5	6455.1	6461.5	6365.1
30°	6448.6	6390.8	6455.1	6667.0	6686.3	6763.4	6686.3	6583.5	6615.6	6532.1
32.5°	6744.1	6724.8	6846.9	6988.2	7013.9	6975.3	6936.8	6994.6	6859.7	6795.5
35°	6936.8	7020.3	7168.0	7277.2	7360.7	7322.2	7341.4	7283.6	7315.7	7180.9
37.5°	7508.4	7476.3	7508.4	7694.7	7714.0	7694.7	7714.0	7778.2	7733.2	7617.6
40°	8048.0	7996.6	8073.6	8285.6	8272.8	8337.0	8208.5	8279.2	8279.2	8060.8
42.5°	8452.6	8626.0	8715.9	8889.4	8953.6	8895.8	8870.1	8882.9	9024.2	8767.3
45°	9287.6	9281.2	9550.9	9647.3	9467.4	9454.6	9403.2	9557.4	9653.7	9506.0
47.5°	10193.2	10238.2	10392.3	10430.9	10540.1	10341.0	10341.0	10360.2	10700.6	10353.8
50°	11008.9	11066.7	11375.0	11676.9	11471.4	11259.4	11342.9	11445.7	11632.0	11304.4
52.5°	11998.1	12312.8	12518.3	12678.9	12826.6	12678.9	12486.2	12601.8	12967.9	12531.2
55°	13424.0	13674.5	13867.1	14162.6	14284.6	14085.5	14066.3	14053.4	14258.9	13796.5
57.5°	15016.9	14914.1	15222.4	15678.4	16121.6	15928.9	15871.1	15884.0	15935.3	15280.2
60°	16995.1	17110.7	17476.8	17875.1	18343.9	18613.7	18234.8	18016.4	18061.3	17168.5
62.5°	18125.6	18382.5	19211.0	20579.1	21523.3	22364.7	22422.5	21003.0	20052.5	18318.3
65°	17579.6	17541.1	19101.9	21632.5	25210.1	27657.2	27291.1	23848.4	20527.7	17772.3
67.5°	14952.6	14849.9	16738.2	20752.6	26661.7	32005.6	31588.1	24651.3	18922.0	15723.4
70°	9634.4	9608.7	11657.7	15819.7	23803.5	29385.0	29539.1	22390.4	15402.2	11516.4
72.5°	3500.5	3712.5	4900.7	8504.0	16166.6	22480.3	22576.7	16577.6	8857.2	5324.6
75°	1291.0	1329.6	1547.9	2761.9	7367.1	13802.9	14162.6	8041.5	3147.2	1734.2
77.5°	745.1	751.5	828.6	1027.7	2183.8	5388.9	5607.2	2440.7	1220.4	924.9
80°	507.4	501.0	584.5	668.0	873.5	1528.7	1625.0	1021.2	770.8	642.3
82.5°	295.5	314.7	430.3	475.3	533.1	674.4	687.3	635.9	578.1	475.3
85°	179.8	147.7	237.6	263.3	308.3	301.9	301.9	346.8	372.5	334.0
87.5°	45.0	45.0	57.8	64.2	83.5	64.2	70.7	134.9	179.8	167.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6146.8	0°	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8
6217.4	2.5°	6159.6	6140.3	6153.2	6223.8	6178.9	6044.0	6076.1	6146.8	6089.0	6056.8
6140.3	5°	6133.9	6172.5	6127.5	6140.3	6185.3	6076.1	6095.4	6185.3	6146.8	6159.6
6178.9	7.5°	6140.3	6159.6	6121.1	6063.3	6063.3	6153.2	6101.8	6114.6	6056.8	6153.2
6056.8	10°	6101.8	6050.4	6005.5	6037.6	6024.7	5999.0	5979.8	6018.3	5960.5	6044.0
5928.4	12.5°	5986.2	5999.0	5986.2	5973.3	5999.0	6063.3	5960.5	5973.3	5883.4	5896.3
5954.1	15°	5941.2	5979.8	5966.9	6037.6	6069.7	5973.3	6050.4	5973.3	5902.7	5864.2
5960.5	17.5°	5960.5	6018.3	5999.0	6050.4	5992.6	6063.3	6076.1	6044.0	5960.5	5928.4
5999.0	20°	5979.8	5960.5	5986.2	6076.1	6159.6	6089.0	6089.0	6069.7	5992.6	5947.7
6056.8	22.5°	6024.7	5992.6	6031.2	6101.8	6127.5	6236.7	6140.3	6095.4	5966.9	5851.3
6101.8	25°	6114.6	6133.9	6159.6	6133.9	6275.2	6262.4	6249.5	6217.4	6018.3	6024.7
6249.5	27.5°	6288.1	6178.9	6211.0	6365.1	6384.4	6435.8	6371.6	6429.4	6217.4	6223.8
6474.3	30°	6500.0	6384.4	6487.2	6622.1	6615.6	6712.0	6679.9	6692.7	6545.0	6461.5
6692.7	32.5°	6731.3	6718.4	6782.6	6866.1	6898.2	6949.6	6943.2	6943.2	6853.3	6634.9
7135.9	35°	6988.2	7078.1	7155.2	7245.1	7257.9	7322.2	7232.2	7245.1	7155.2	6994.6
7502.0	37.5°	7495.6	7489.2	7572.7	7681.8	7694.7	7643.3	7714.0	7681.8	7559.8	7450.6
8015.8	40°	8086.5	7958.0	8035.1	8292.0	8311.3	8221.4	8215.0	8208.5	8118.6	7881.0
8671.0	42.5°	8600.3	8767.3	8754.5	8838.0	8780.2	8735.2	8895.8	8805.9	8735.2	8484.7
9467.4	45°	9261.9	9313.3	9480.3	9750.0	9473.9	9473.9	9583.0	9512.4	9473.9	9287.6
10174.0	47.5°	10084.0	10129.0	10463.0	10482.3	10302.4	10180.4	10520.8	10533.6	10373.1	10231.8
11150.2	50°	11047.5	11066.7	11368.6	11676.9	11477.8	11246.6	11593.4	11728.3	11368.6	11175.9
12338.5	52.5°	12107.3	12049.5	12299.9	12878.0	12685.3	12614.7	12987.2	13019.3	12531.2	12229.3
13533.2	55°	13327.6	13250.5	13931.4	14323.2	14201.1	14072.7	14239.7	14316.8	13925.0	13430.4
15081.1	57.5°	14907.7	14946.2	15286.6	15672.0	15871.1	15903.2	15980.3	15903.2	15505.0	15004.0
16860.2	60°	16487.7	16603.3	17264.9	17990.7	18054.9	18620.1	18517.4	18132.0	17566.8	16853.8
17008.0	62.5°	17072.2	16975.9	18042.1	19814.8	21324.2	22358.3	21902.3	20534.2	19223.9	17926.5
16012.4	65°	15896.8	16134.5	17586.0	20360.8	23636.5	27727.9	25300.0	21516.9	18870.6	17194.2
13732.3	67.5°	13700.2	13880.0	15723.4	18652.2	24465.0	31029.3	26584.6	20129.5	16641.9	14470.9
9544.5	70°	9544.5	9634.4	11439.3	15280.2	22184.9	29282.2	23983.3	15460.0	11490.7	9159.1
3924.4	72.5°	3840.9	4059.3	5247.6	9204.1	16378.5	22249.1	16147.3	8112.2	4765.8	3545.5
1413.0	75°	1419.5	1425.9	1676.4	3166.5	7778.2	13982.8	7283.6	2607.7	1522.2	1246.1
854.3	77.5°	822.1	815.7	873.5	1143.3	2254.5	5459.5	2068.2	1021.2	828.6	745.1
539.5	80°	513.8	507.4	597.3	757.9	989.1	1496.5	873.5	635.9	558.8	481.7
353.3	82.5°	327.6	334.0	468.9	558.8	603.8	661.6	507.4	449.6	417.5	276.2
199.1	85°	212.0	192.7	327.6	372.5	334.0	295.5	282.6	237.6	218.4	134.9
102.8	87.5°	96.3	102.8	167.0	186.3	122.0	70.7	70.7	51.4	51.4	32.1
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°
6146.8
6050.4
6089.0
6024.7
5954.1
5941.2
5934.8
5960.5
5947.7
5960.5
6005.5
6095.4
6288.1
6667.0
7046.0
7367.1
7829.6
8439.8
9114.2
10019.8
10912.6
12299.9
13603.8
14843.4
16885.9
18022.8
17008.0
14586.5
9287.6
3217.9
1188.2
712.9
481.7
269.8
147.7
32.1
0.0

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