

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: P574692

Luminaire Tested: **EPH-VN-06-735-U-T3**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574692
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-735-U-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53154.6 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

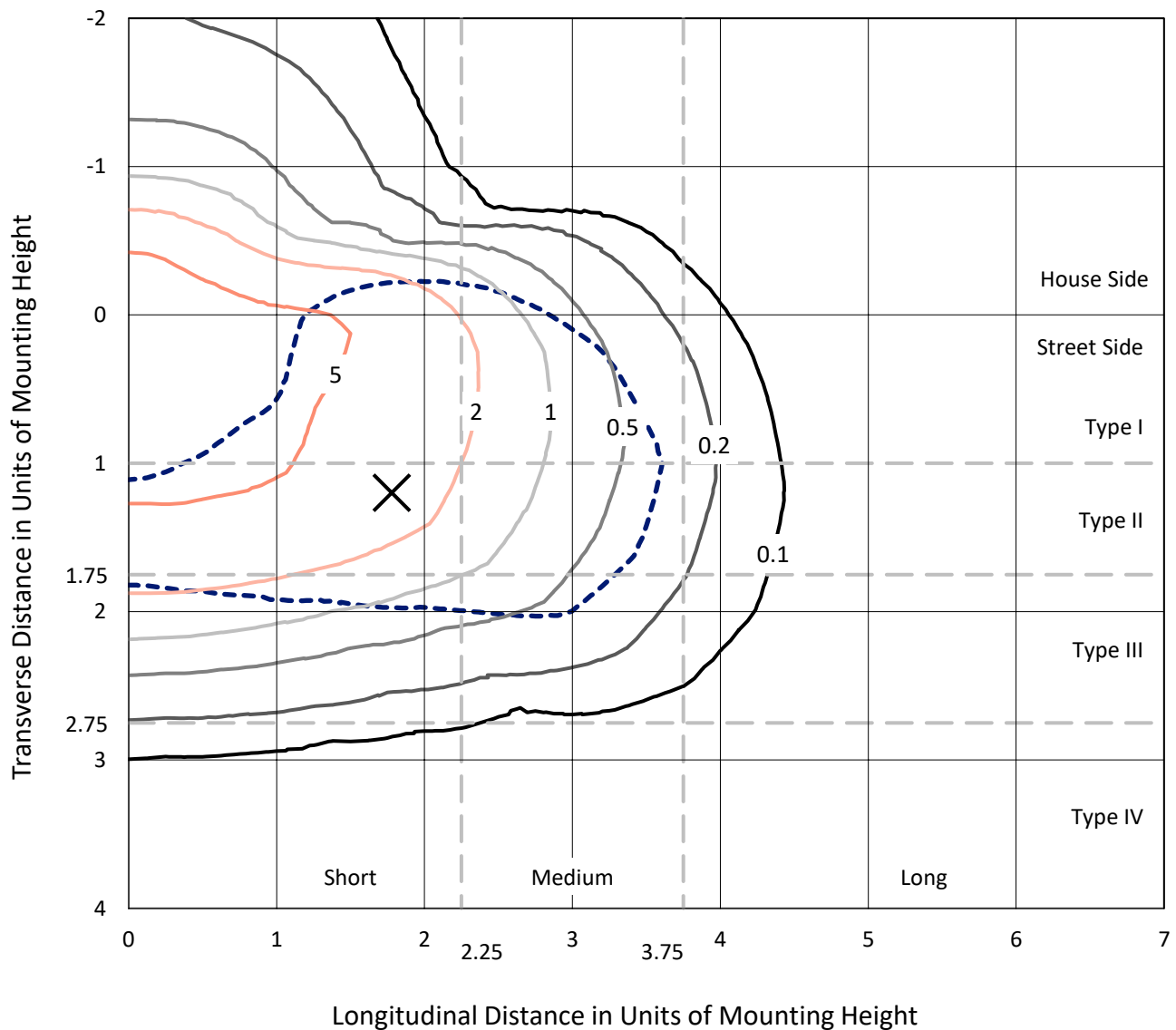
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

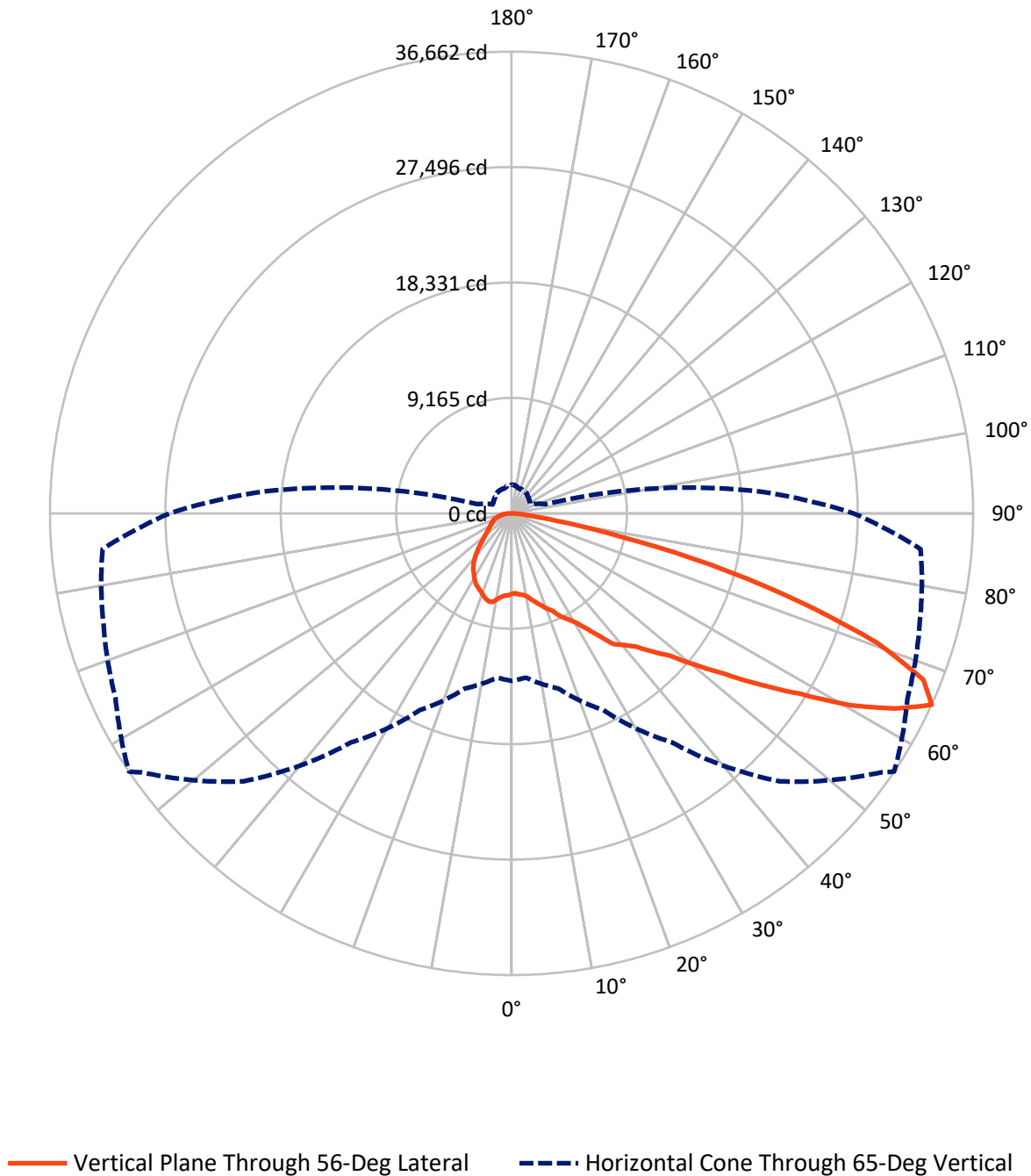
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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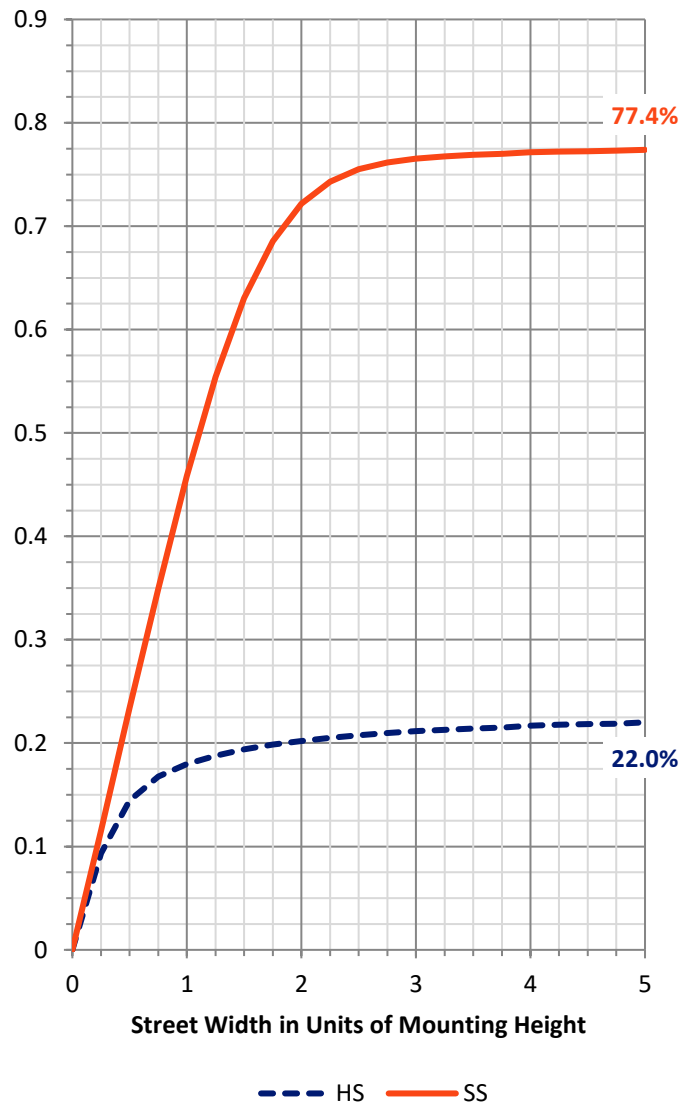
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11920.9	0.0	11920.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	41233.8	0.0	41233.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	53154.6	0.0	53154.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.2	1.2
10°-20°	2053.0	3.9
20°-30°	3655.5	6.9
30°-40°	5473.9	10.3
40°-50°	8110.3	15.3
50°-60°	12496.8	23.5
60°-70°	14148.0	26.6
70°-80°	5871.6	11.0
80°-90°	713.3	1.3
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°	53154.6	100.0
0°-180°	53154.6	100.0

Coefficient of Utilization



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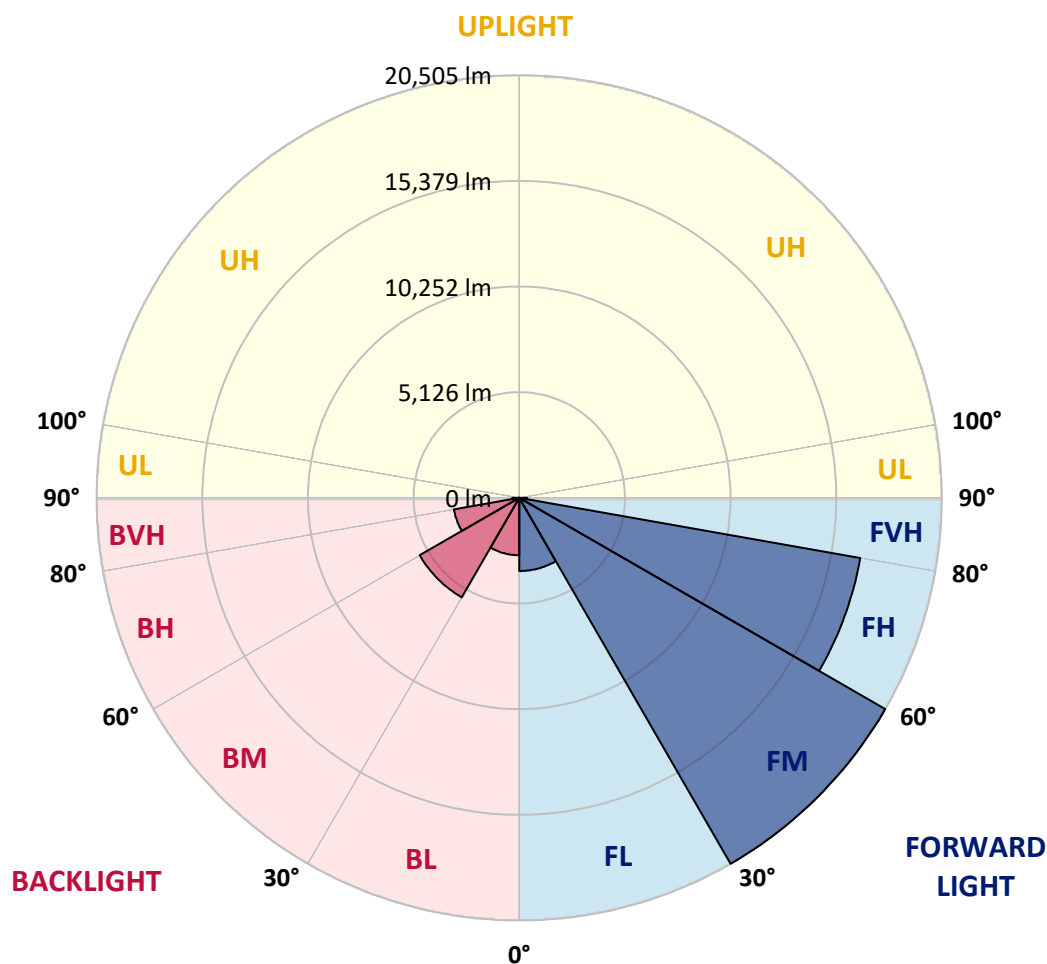
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3552.3	6.7			
FM	(30°-60°)	20504.7	38.6			
FH	(60°-80°)	16800.5	31.6			G5
FVH	(80°-90°)	376.3	0.7			G3/500
BL	(0°-30°)	2788.4	5.2	B4/5000		
BM	(30°-60°)	5576.4	10.5	B4/8500		
BH	(60°-80°)	3219.0	6.1	B4/5000		G4/5000
BVH	(80°-90°)	337.1	0.6			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1
2.5°	6213.2	6246.6	6224.3	6291.1	6346.7	6346.7	6391.2	6357.8	6402.3	6463.5
5°	6419.0	6285.5	6357.8	6391.2	6374.5	6402.3	6357.8	6469.1	6396.8	6513.6
7.5°	6469.1	6519.1	6580.3	6524.7	6574.8	6546.9	6552.5	6535.8	6496.9	6591.4
10°	6836.2	6763.9	6902.9	6819.5	6808.4	6797.2	6775.0	6691.6	6786.1	6791.7
12.5°	7258.9	7192.2	7186.6	7119.9	7208.9	7047.6	7080.9	7036.4	7053.1	7075.4
15°	7564.9	7537.0	7665.0	7587.1	7470.3	7398.0	7475.9	7353.5	7414.7	7403.6
17.5°	8171.2	8165.6	8071.0	7943.1	7876.4	7770.7	7754.0	7703.9	7748.4	7726.2
20°	8593.9	8655.1	8671.8	8521.6	8265.7	8148.9	8121.1	8082.2	8132.2	8115.5
22.5°	9239.1	9144.6	9216.9	8955.5	8860.9	8582.8	8482.7	8427.0	8666.2	8605.0
25°	9650.8	9750.9	9678.6	9589.6	9378.2	9033.3	8961.0	9083.4	9178.0	9111.2
27.5°	10579.7	10479.6	10412.8	10145.8	10006.8	9645.2	9561.8	9517.3	9539.5	9578.4
30°	11286.1	11341.7	11191.5	11002.4	10652.0	10284.9	10090.2	10051.3	9973.4	9906.6
32.5°	12292.9	12209.5	12120.5	11998.1	11697.7	11213.8	11024.7	10880.0	10646.4	10334.9
35°	12776.8	13016.0	12949.3	12621.1	12393.0	12209.5	12153.8	11931.3	11736.7	11247.2
37.5°	13583.4	13683.5	13588.9	13483.3	13377.6	13182.9	13116.1	13177.3	12793.5	11987.0
40°	14106.2	14317.6	14512.3	14217.5	14195.2	14234.2	13822.6	13750.2	12960.4	12537.6
42.5°	15174.2	15263.2	15302.2	15291.0	15419.0	15419.0	14634.7	14478.9	13917.1	13572.2
45°	16587.1	16659.4	16798.4	16898.6	16753.9	16826.3	15708.2	15647.0	15146.4	15079.7
47.5°	17810.8	17983.2	18294.7	18589.5	18778.7	18533.9	17310.2	16876.3	16748.4	17148.9
50°	18878.8	18673.0	19401.6	19702.0	20530.8	20936.9	19079.0	18906.6	18700.8	19468.4
52.5°	18984.5	19262.6	20291.6	20892.4	22600.0	23350.9	21248.4	21176.0	20925.7	21810.2
55°	19740.9	19707.6	20742.2	22043.8	24074.1	25336.7	24074.1	24029.6	23484.4	24324.4
57.5°	19613.0	19952.3	20770.0	22588.9	25403.5	27467.1	27350.3	27044.4	26282.3	26966.5
60°	19179.1	19268.1	20263.8	22572.2	26176.6	29653.1	30888.0	30949.2	29391.7	29936.8
62.5°	16720.6	16926.4	18189.0	20797.8	25626.0	31160.6	34342.2	34125.3	32879.3	32256.3
65°	13299.7	13093.9	14406.6	17226.7	22199.5	30092.6	35855.2	36661.8	34703.8	33563.5
67.5°	8154.5	8104.4	9367.1	11853.5	16609.3	25609.3	34648.2	35276.7	34197.6	33285.4
70°	4199.6	4071.7	4861.5	6613.7	10440.6	18789.8	30153.8	30771.2	31800.2	29853.4
72.5°	1958.0	1930.2	2352.9	3254.0	5317.7	11046.9	23350.9	23795.9	25965.3	25169.8
75°	1151.4	1168.1	1407.3	1702.1	2592.1	5206.4	15496.8	16359.0	18711.9	18139.0
77.5°	862.2	862.2	1001.2	1184.8	1513.0	2013.6	7648.3	8788.6	10941.2	9839.9
80°	634.1	645.2	767.6	890.0	1051.3	1040.2	3037.1	3559.9	5017.3	4288.6
82.5°	495.1	511.7	595.2	661.9	739.8	628.6	1246.0	1340.5	2063.6	1640.9
85°	344.9	356.0	467.2	450.6	450.6	350.4	517.3	545.1	817.7	778.7
87.5°	83.4	94.6	228.1	250.3	189.1	105.7	161.3	183.6	294.8	339.3
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°
6380.1	0°	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1	6380.1
6491.3	2.5°	6407.9	6430.1	6524.7	6474.6	6502.4	6385.6	6480.2	6402.3	6469.1	6435.7
6541.4	5°	6585.9	6535.8	6591.4	6552.5	6552.5	6597.0	6663.8	6613.7	6713.8	6669.3
6580.3	7.5°	6658.2	6663.8	6697.1	6702.7	6674.9	6813.9	6819.5	6802.8	6897.4	6875.1
6847.3	10°	6836.2	6841.7	6902.9	6936.3	6908.5	6958.6	6902.9	6858.4	6852.9	6830.6
7058.7	12.5°	7119.9	7175.5	7164.4	7192.2	7197.7	6986.4	6858.4	6641.5	6613.7	6641.5
7370.2	15°	7381.3	7359.1	7370.2	7425.8	7192.2	6852.9	6624.8	6441.3	6452.4	6457.9
7776.2	17.5°	7692.8	7709.5	7726.2	7470.3	7042.0	6641.5	6441.3	6441.3	6385.6	6407.9
8059.9	20°	8048.8	7982.0	7837.4	7475.9	6780.6	6396.8	6335.6	6335.6	6268.8	6224.3
8365.8	22.5°	8326.9	8193.4	7976.5	7303.4	6546.9	6302.2	6152.0	6046.3	5968.5	5879.5
8705.2	25°	8504.9	8432.6	8009.9	7125.4	6374.5	6051.9	5829.4	5668.1	5568.0	5451.1
8972.1	27.5°	8777.5	8638.4	8104.4	6919.6	6185.4	5801.6	5456.7	5206.4	5017.3	4894.9
9378.2	30°	9144.6	8944.3	8037.7	6624.8	5896.1	5367.7	4961.7	4639.0	4422.1	4322.0
9762.0	32.5°	9445.0	9183.5	7982.0	6357.8	5573.5	4928.3	4388.7	4060.6	3938.2	3810.2
10407.2	35°	10017.9	9500.6	7943.1	6207.6	5284.3	4488.9	3921.5	3637.8	3482.1	3292.9
10791.1	37.5°	10457.3	10051.3	7848.5	5896.1	4911.6	4060.6	3565.5	3309.6	3076.0	2875.8
11681.0	40°	11147.0	10818.9	7854.1	5456.7	4472.2	3693.4	3287.4	3020.4	2725.6	2553.1
12999.3	42.5°	12443.1	11575.3	7887.5	5106.3	3977.1	3393.1	3037.1	2720.0	2425.2	2280.6
14501.2	45°	14033.9	12615.5	7681.7	4789.2	3470.9	3109.4	2736.7	2419.6	2230.5	2124.8
16542.6	47.5°	15864.0	13633.4	7403.6	4194.0	3048.2	2809.0	2458.6	2275.0	2136.0	2074.8
19173.6	50°	17910.9	15090.8	7325.7	3648.9	2720.0	2553.1	2325.1	2186.0	2091.5	2019.2
22138.3	52.5°	20547.5	16787.3	7169.9	3087.1	2436.3	2347.3	2275.0	2180.5	2097.0	2035.8
24902.9	55°	23067.3	18667.4	7003.1	2625.5	2236.1	2247.2	2286.1	2202.7	2130.4	2035.8
28001.1	57.5°	25904.1	20586.4	6385.6	2286.1	2085.9	2197.1	2275.0	2180.5	2108.1	2035.8
31171.7	60°	27656.2	21665.5	5178.6	1991.3	1952.4	2102.6	2208.3	2108.1	2030.3	2058.1
32629.0	62.5°	28368.2	21098.2	3904.8	1807.8	1857.8	1974.7	2102.6	2063.6	2008.0	2113.7
32612.3	65°	27155.6	19791.0	2792.3	1652.0	1729.9	1846.7	2008.0	2052.5	2069.2	2275.0
29953.5	67.5°	24163.1	17232.3	2052.5	1524.1	1596.4	1768.8	2074.8	2147.1	2136.0	2391.8
25136.5	70°	19334.9	13477.7	1602.0	1418.4	1546.3	1830.0	2169.3	2169.3	2091.5	2391.8
19173.6	72.5°	14067.3	9500.6	1379.5	1296.0	1418.4	1679.8	2158.2	2152.6	2052.5	2186.0
12209.5	75°	8516.0	5529.0	1218.2	1173.7	1218.2	1440.7	2063.6	2030.3	1891.2	1880.1
5873.9	77.5°	4244.1	2781.2	995.7	1040.2	1062.4	1207.0	1813.3	1863.4	1674.3	1629.8
2319.5	80°	1791.1	1212.6	828.8	895.5	895.5	1017.9	1507.4	1540.8	1390.6	1307.2
917.8	82.5°	817.7	695.3	706.4	778.7	728.7	789.9	1195.9	1234.9	1129.2	990.1
389.4	85°	344.9	394.9	539.6	611.9	539.6	511.7	823.2	867.7	734.2	611.9
166.9	87.5°	155.7	216.9	339.3	445.0	272.6	239.2	439.4	456.1	367.1	272.6
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°
6380.1
6374.5
6608.1
6841.7
6830.6
6652.6
6535.8
6413.4
6157.6
5829.4
5473.4
4950.5
4377.6
3804.7
3276.3
2881.3
2569.8
2291.7
2147.1
2063.6
2030.3
2030.3
2030.3
2030.3
2035.8
2085.9
2275.0
2408.5
2341.8
2108.1
1857.8
1602.0
1279.4
967.9
617.4
255.9
0.0