

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: P575284

Luminaire Tested: **EPH-VN-04-730-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575284
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

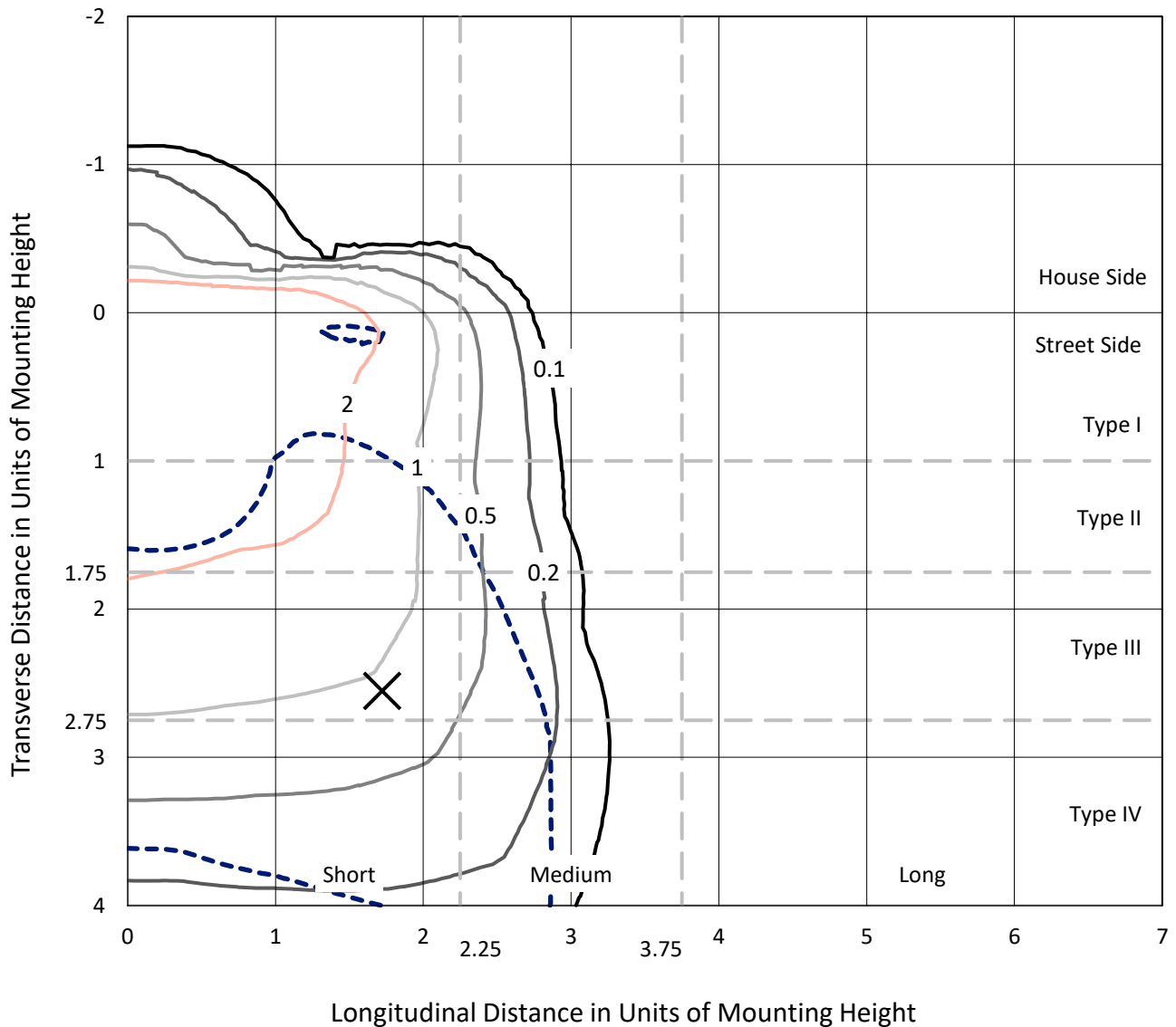
Lumens per Lamp: N/A
Luminaire Lumens: 19899.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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

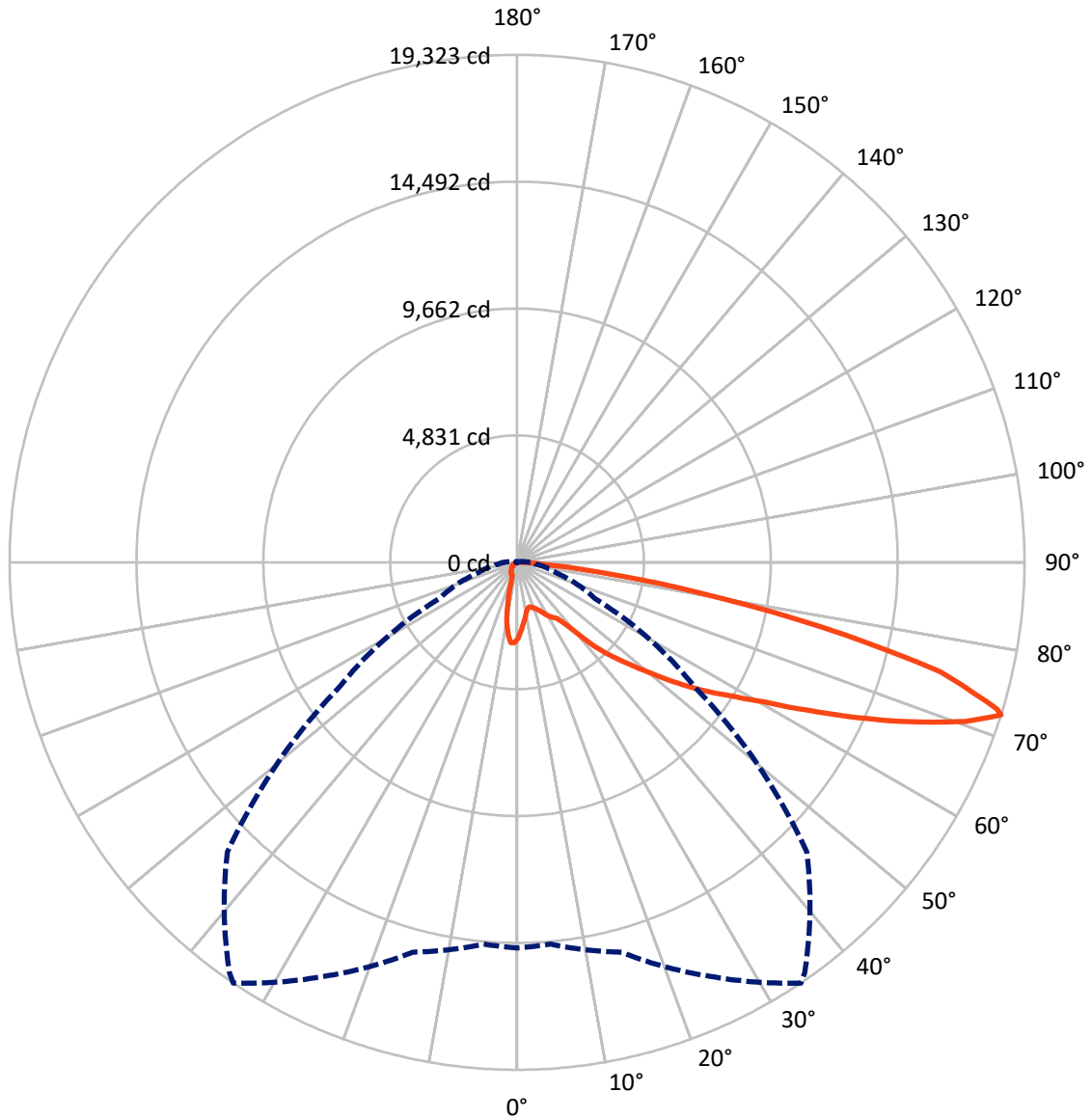
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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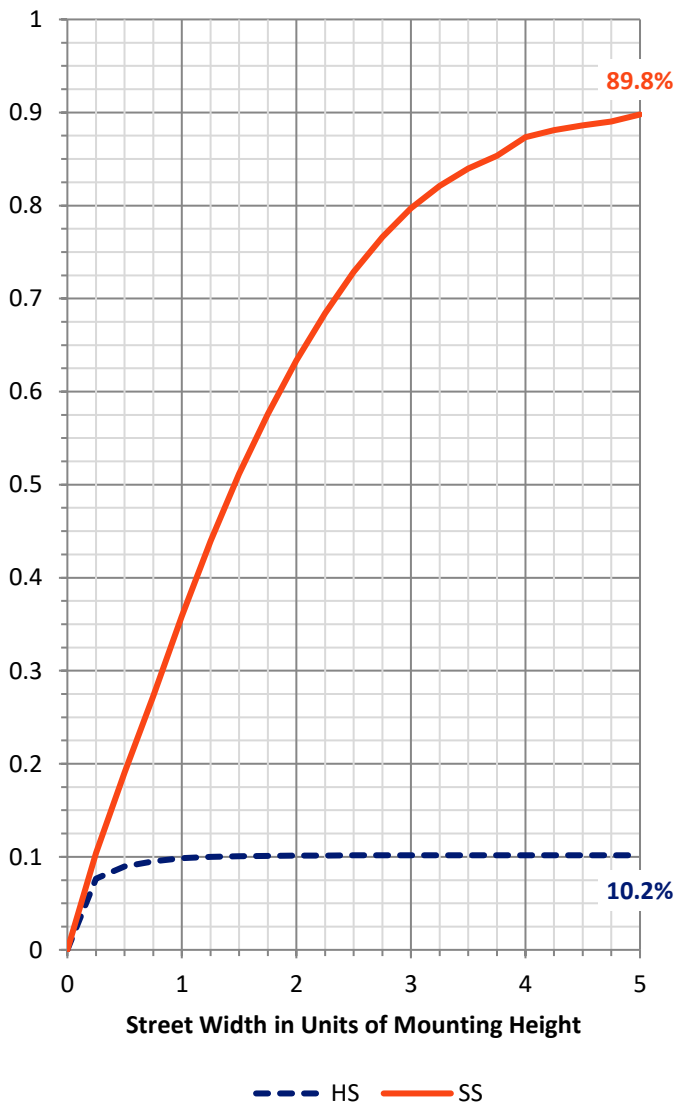
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2037.2	0.0	2037.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17862.0	0.0	17862.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	19899.2	0.0	19899.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.3
10°-20°	572.2	2.9
20°-30°	863.6	4.3
30°-40°	1401.5	7.0
40°-50°	2635.4	13.2
50°-60°	4309.0	21.7
60°-70°	5728.2	28.8
70°-80°	3836.1	19.3
80°-90°	300.6	1.5
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°	19899.2	100.0
0°-180°	19899.2	100.0

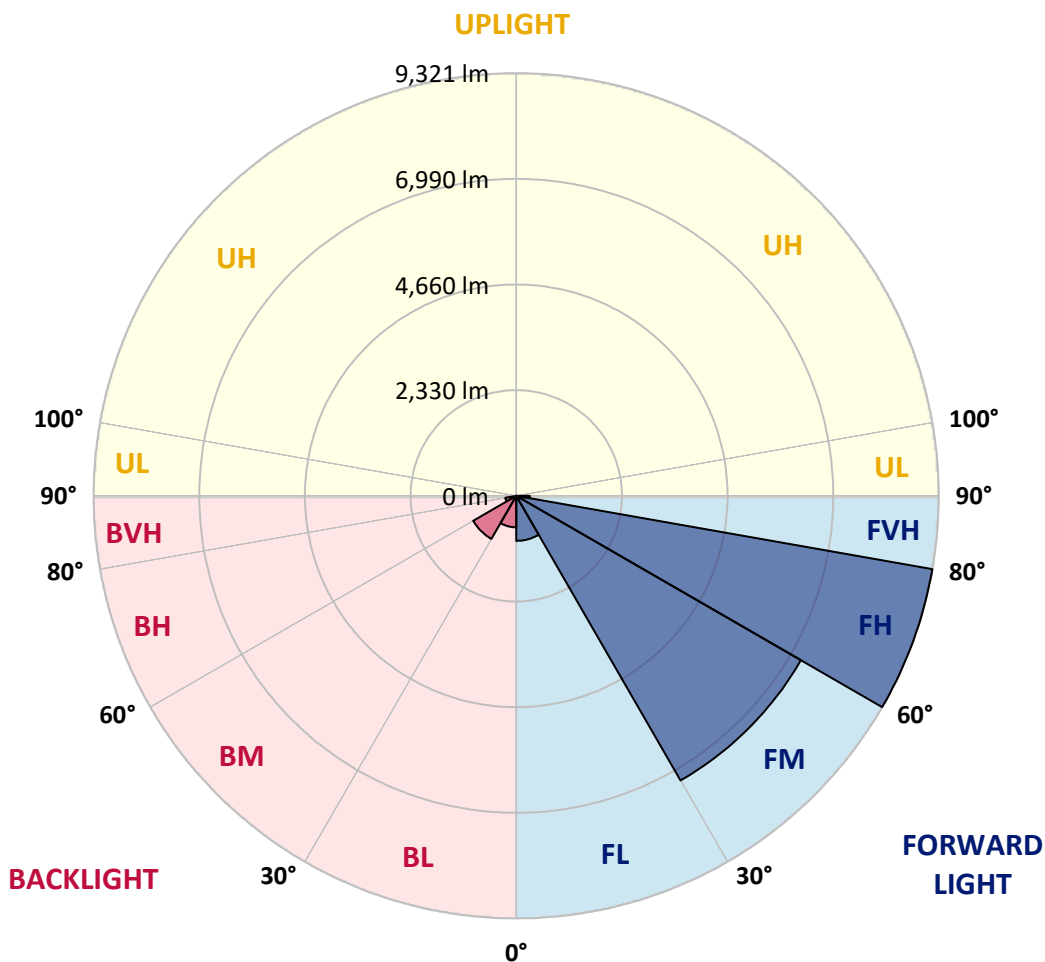


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.4	5.0			
FM (30°-60°)	7249.3	36.4			
FH (60°-80°)	9320.6	46.8			G4/12000
FVH (80°-90°)	298.7	1.5			G3/500
BL (0°-30°)	695.1	3.5	B2/1000		
BM (30°-60°)	1096.6	5.5	B2/2500		
BH (60°-80°)	243.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2574.7	2568.9	2586.2	2615.0	2643.7	2632.2	2686.9	2744.4	2784.7	2839.4
5°	2249.6	2264.0	2281.3	2338.8	2376.2	2384.8	2485.5	2560.3	2684.0	2810.6
7.5°	1953.3	1970.6	2005.1	2068.4	2146.1	2166.2	2266.9	2416.5	2577.6	2744.4
10°	1737.6	1754.8	1792.2	1832.5	1936.1	1936.1	2074.1	2281.3	2491.3	2686.9
12.5°	1691.5	1700.2	1697.3	1728.9	1795.1	1809.5	1944.7	2171.9	2416.5	2666.7
15°	1746.2	1751.9	1723.2	1705.9	1763.4	1777.8	1904.4	2105.8	2367.6	2678.3
17.5°	1855.5	1835.4	1777.8	1751.9	1800.8	1809.5	1927.4	2102.9	2361.8	2709.9
20°	1918.8	1941.8	1841.1	1792.2	1861.3	1872.8	1999.3	2148.9	2390.6	2764.6
22.5°	2031.0	2042.5	1907.3	1875.6	1941.8	1941.8	2085.6	2241.0	2459.6	2853.7
25°	2189.2	2174.8	2016.6	1985.0	2048.2	2074.1	2218.0	2387.7	2566.1	2937.2
27.5°	2312.9	2321.5	2192.1	2108.7	2215.1	2232.4	2387.7	2545.9	2646.6	3006.2
30°	2497.0	2479.8	2341.7	2246.7	2379.1	2382.0	2531.5	2695.5	2802.0	3129.9
32.5°	2715.7	2681.1	2522.9	2387.7	2494.1	2520.0	2672.5	2911.3	3043.6	3362.9
35°	3178.8	3095.4	2836.5	2626.5	2635.1	2646.6	2882.5	3224.8	3377.3	3659.2
37.5°	3854.8	3820.3	3526.9	3127.0	2974.6	2940.0	3204.7	3639.1	3829.0	4050.5
40°	4525.1	4476.2	4202.9	3900.9	3624.7	3555.7	3688.0	4188.6	4361.2	4594.2
42.5°	5270.2	5183.9	4861.7	4617.2	4444.6	4369.8	4318.0	4879.0	5074.6	5232.8
45°	6023.9	5883.0	5416.9	5229.9	5137.9	5097.6	5091.9	5747.7	5865.7	5897.3
47.5°	6685.6	6533.1	6110.2	5900.2	5831.2	5819.7	6141.9	6748.9	6656.8	6573.4
50°	7194.8	7096.9	6792.0	6717.2	6665.4	6645.3	7399.0	7778.7	7353.0	7206.3
52.5°	7983.0	7764.4	7419.1	7445.0	7626.3	7629.1	8673.4	8756.8	7931.2	7640.7
55°	8613.0	8469.2	8187.2	8149.8	8627.4	8679.2	9815.5	9499.0	8253.4	8054.9
57.5°	9355.2	9289.0	9084.8	9090.5	9591.1	9700.4	10831.0	10126.2	8520.9	8322.4
60°	10428.2	10238.4	10131.9	10180.8	10770.6	10877.0	11814.8	10577.8	8650.4	8497.9
62.5°	11613.4	11391.9	11276.9	11527.1	12387.3	12404.6	12562.8	10977.7	8569.8	8544.0
65°	13040.3	12821.7	12729.6	13233.1	14254.3	14191.0	13612.8	11147.4	8313.8	8080.8
67.5°	14461.4	14329.1	14139.2	14941.8	16213.4	16213.4	14703.1	11084.1	7643.5	6487.1
70°	15134.6	15226.6	15528.7	16788.7	18137.9	17999.8	15779.0	10356.3	5690.2	3483.7
72°	14685.8	14590.9	15370.5	17392.8	19323.1	19095.9	15597.7	8233.3	3288.1	1527.6
72.5°	13914.8	14004.0	15077.1	17309.4	19101.6	19288.6	15154.7	7594.6	2704.1	1216.9
75°	8532.4	8684.9	11253.9	14697.3	16644.9	16434.9	11722.8	3619.0	1038.5	517.8
77.5°	3115.5	3242.1	5460.1	9248.8	11837.8	11705.5	6783.4	1285.9	563.8	385.5
80°	811.2	877.4	1855.5	4266.2	6961.7	6970.4	2839.4	514.9	382.6	316.4
82.5°	161.1	178.4	569.6	1659.9	3253.6	3210.5	897.5	276.2	287.7	258.9
85°	20.1	25.9	120.8	563.8	1052.9	943.6	221.5	138.1	212.9	201.4
87.5°	2.9	2.9	28.8	129.5	221.5	215.8	46.0	43.2	94.9	123.7
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°
2911.3	0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2905.5	2.5°	2942.9	2954.4	2994.7	3029.2	3069.5	3081.0	3063.7	3092.5	3052.2	3075.2
2928.5	5°	2948.7	3014.8	3089.6	3138.5	3127.0	3098.3	3075.2	2997.6	2942.9	2922.8
2937.2	7.5°	2988.9	3063.7	3144.3	3144.3	3081.0	2931.4	2787.6	2649.5	2534.4	2476.9
2940.0	10°	3040.7	3118.4	3201.8	3092.5	2856.6	2583.3	2379.1	2120.2	1944.7	1852.6
2986.1	12.5°	3109.8	3219.1	3247.9	2994.7	2603.5	2197.8	1826.7	1467.1	1300.3	1168.0
3060.9	15°	3198.9	3305.4	3219.1	2781.8	2281.3	1682.9	1237.0	894.7	762.3	693.3
3147.2	17.5°	3316.9	3397.4	3210.5	2586.2	1846.9	1150.7	759.5	604.1	575.4	563.8
3268.0	20°	3455.0	3515.4	3127.0	2281.3	1372.2	739.3	558.1	540.8	543.7	538.0
3411.8	22.5°	3610.3	3630.5	3032.1	1927.4	929.2	546.6	520.7	523.6	526.4	520.7
3544.2	25°	3774.3	3719.6	2894.0	1513.2	618.5	497.7	503.4	509.2	512.1	514.9
3705.3	27.5°	3958.4	3849.1	2701.3	1107.5	483.3	468.9	486.2	503.4	506.3	506.3
3946.9	30°	4228.8	4047.6	2514.3	750.8	425.8	437.3	466.0	486.2	500.6	500.6
4320.9	32.5°	4571.2	4254.7	2252.5	512.1	394.1	399.9	422.9	463.2	494.8	497.7
4821.4	35°	5045.8	4505.0	1979.2	408.5	371.1	374.0	388.4	420.0	474.7	491.9
5471.6	37.5°	5546.4	4789.8	1639.7	368.2	353.8	351.0	359.6	385.5	434.4	477.5
6139.0	40°	6078.6	5089.0	1283.0	348.1	339.5	333.7	336.6	348.1	385.5	440.1
6792.0	42.5°	6579.1	5359.4	963.7	327.9	325.1	319.3	319.3	322.2	342.3	379.7
7517.0	45°	7120.0	5580.9	733.6	313.6	304.9	307.8	296.3	290.6	304.9	307.8
8325.3	47.5°	7626.3	5802.4	586.9	296.3	287.7	287.7	273.3	261.8	261.8	235.9
9035.9	50°	8100.9	5923.2	468.9	273.3	270.4	267.5	247.4	227.3	210.0	178.4
9706.2	52.5°	8495.0	5917.5	362.5	244.5	253.2	244.5	212.9	184.1	158.2	129.5
9953.6	55°	8613.0	5641.3	273.3	201.4	215.8	204.2	169.7	143.8	115.1	92.1
9991.0	57.5°	8512.3	5221.3	207.1	155.3	166.9	155.3	129.5	106.4	80.5	63.3
9898.9	60°	8175.7	4729.4	161.1	120.8	126.6	117.9	97.8	80.5	57.5	40.3
9306.3	62.5°	7537.1	4113.8	123.7	94.9	92.1	92.1	74.8	60.4	40.3	23.0
7750.0	65°	6185.0	3207.6	94.9	66.2	66.2	66.2	57.5	43.2	25.9	11.5
5068.8	67.5°	3883.6	1867.0	77.7	51.8	48.9	48.9	40.3	28.8	14.4	2.9
1993.6	70°	1461.4	684.7	60.4	40.3	37.4	37.4	28.8	17.3	8.6	0.0
693.3	72°	503.4	261.8	48.9	28.8	28.8	25.9	20.1	14.4	5.8	0.0
523.6	72.5°	414.3	210.0	46.0	28.8	25.9	25.9	20.1	14.4	5.8	0.0
187.0	75°	149.6	86.3	31.6	20.1	17.3	17.3	14.4	8.6	2.9	0.0
94.9	77.5°	74.8	54.7	25.9	17.3	14.4	8.6	8.6	5.8	2.9	0.0
57.5	80°	46.0	34.5	14.4	11.5	8.6	5.8	2.9	2.9	0.0	0.0
40.3	82.5°	31.6	20.1	8.6	8.6	5.8	2.9	0.0	0.0	0.0	0.0
25.9	85°	20.1	8.6	5.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	8.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0	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°
2911.3
3081.0
2965.9
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523.6
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489.0
480.4
451.6
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