

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: P575128

Luminaire Tested: **EPH-VN-08-730-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575128
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

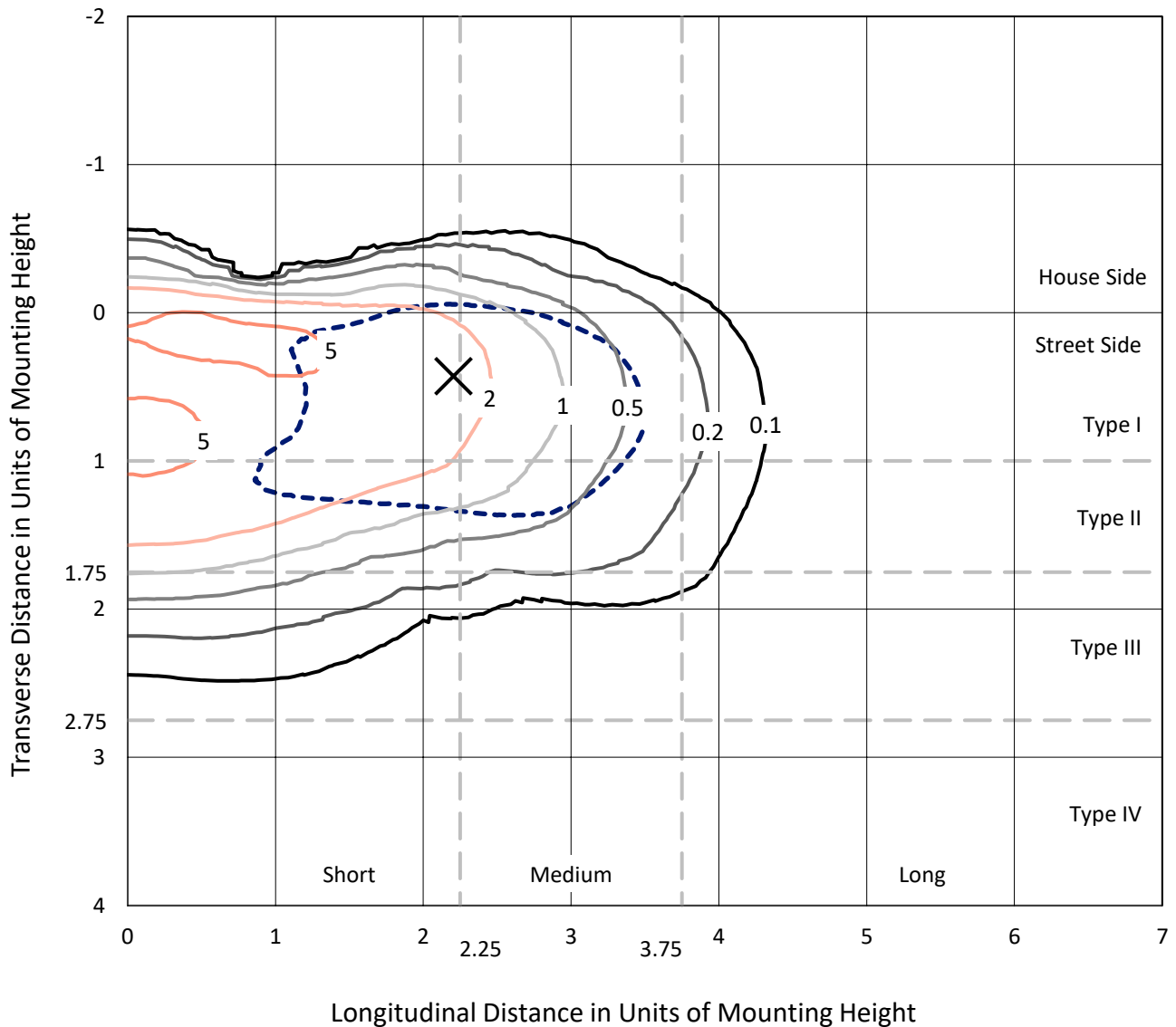
Lumens per Lamp: N/A
Luminaire Lumens: 31588.9 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P575128
 CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

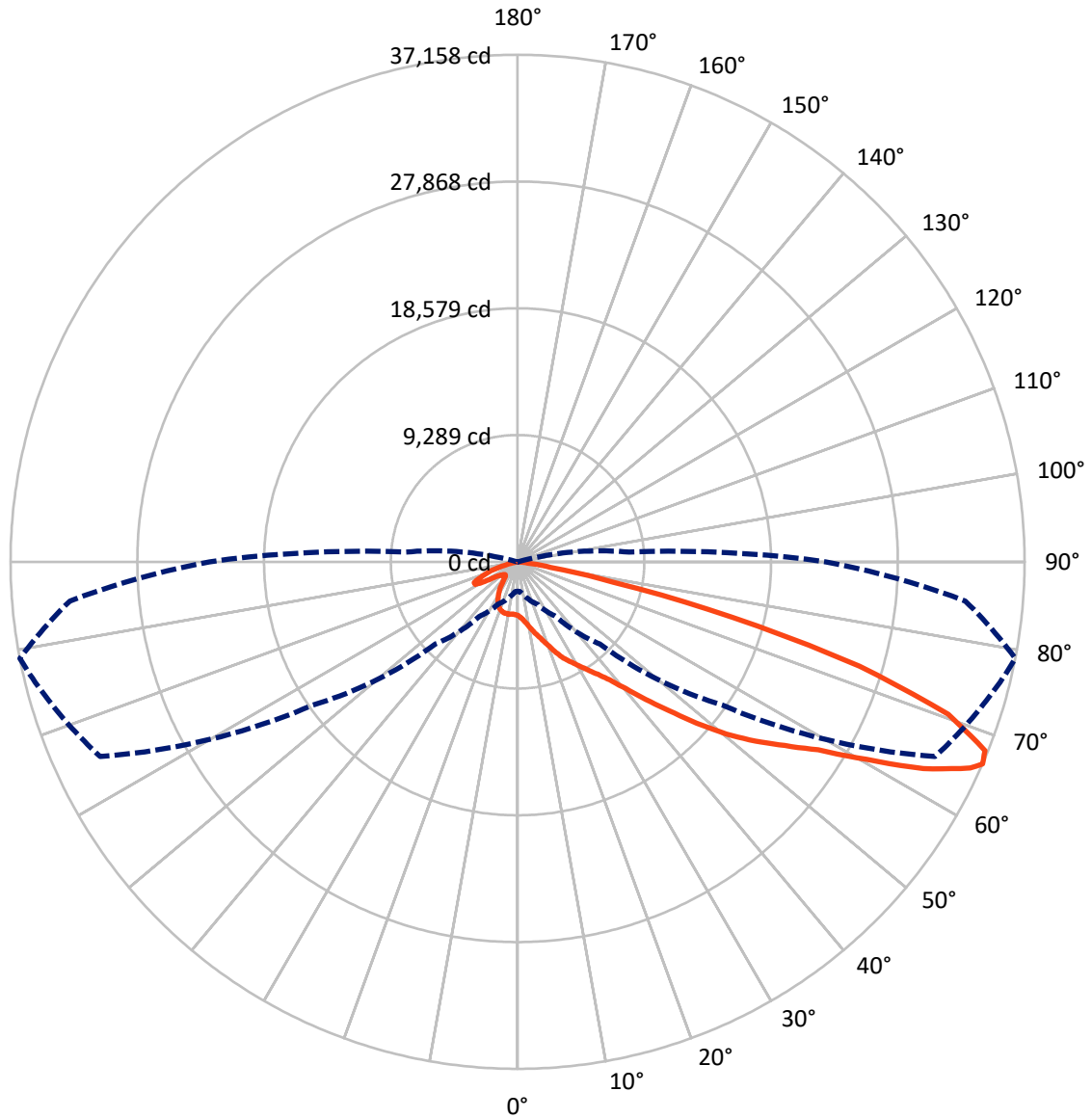
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P575128
CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P575128
 CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

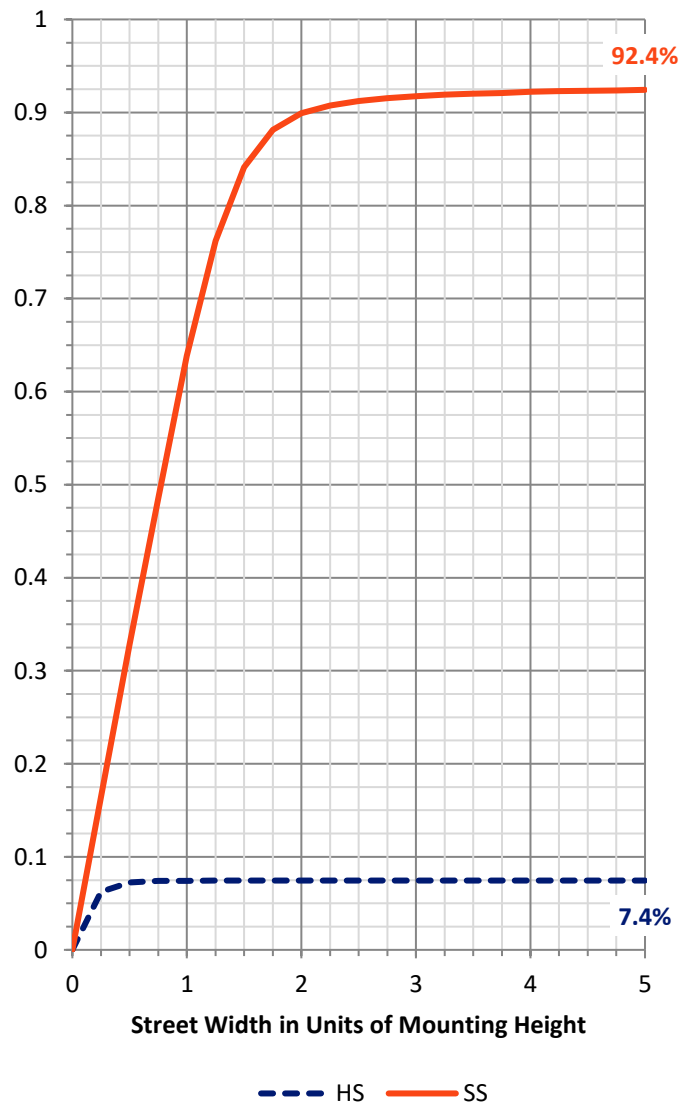
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.9	0.0	2371.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	29217.0	0.0	29217.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	31588.9	0.0	31588.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	1.2
10°-20°	1022.9	3.2
20°-30°	1699.3	5.4
30°-40°	2918.7	9.2
40°-50°	5287.6	16.7
50°-60°	8358.2	26.5
60°-70°	8505.1	26.9
70°-80°	3243.4	10.3
80°-90°	181.8	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°	31588.9	100.0
0°-180°	31588.9	100.0

Coefficient of Utilization

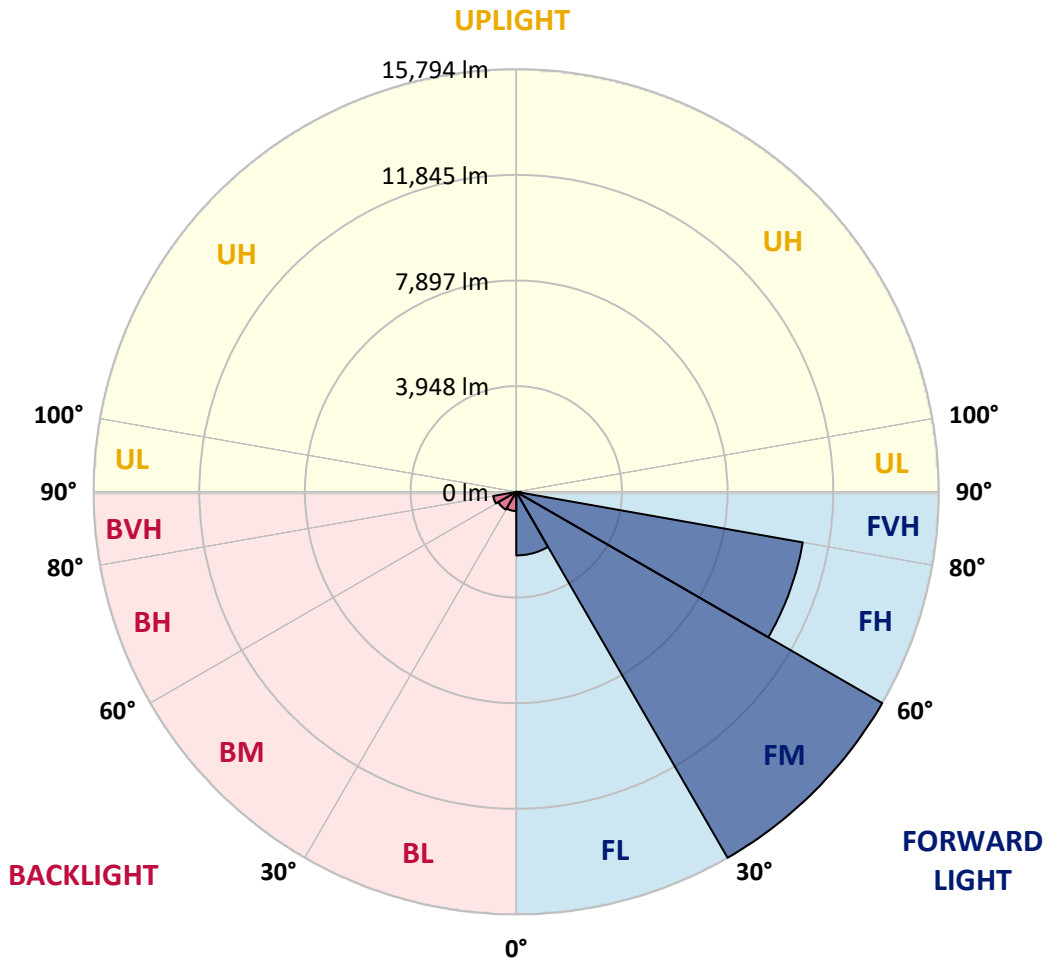


REPORT NUMBER: P575128
 CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.5	7.5			
FM (30°-60°)	15793.7	50.0			
FH (60°-80°)	10874.2	34.4			G4/12000
FVH (80°-90°)	172.5	0.5			G2/225
BL (0°-30°)	717.3	2.3	B2/1000		
BM (30°-60°)	770.9	2.4	B1/1000		
BH (60°-80°)	874.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.3	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 II Short





REPORT NUMBER: P575128
 CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0
2.5°	4451.1	4446.2	4426.8	4392.7	4348.8	4334.2	4270.9	4183.3	4134.6	4081.0
5°	4757.9	4733.6	4792.0	4767.7	4777.4	4660.5	4582.6	4519.3	4334.2	4261.2
7.5°	4826.1	4850.5	4845.6	4884.5	4923.5	4967.3	4913.8	4821.2	4636.2	4529.0
10°	4826.1	4816.4	4855.3	4908.9	5020.9	5118.3	5264.4	5142.6	5001.4	4874.8
12.5°	4738.4	4723.8	4762.8	4874.8	5074.5	5274.1	5434.8	5551.7	5352.1	5249.8
15°	4470.6	4456.0	4616.7	4816.4	5079.3	5405.6	5741.6	5931.6	5795.2	5634.5
17.5°	4139.4	4158.9	4329.4	4660.5	5079.3	5468.9	5897.5	6311.4	6292.0	6087.4
20°	4027.4	4042.0	4212.5	4451.1	4928.4	5512.8	6141.0	6725.4	6842.3	6598.8
22.5°	4241.7	4227.1	4241.7	4387.8	4826.1	5473.8	6301.7	7197.8	7407.2	7217.2
25°	4972.2	4962.5	4840.7	4616.7	4767.7	5386.1	6384.5	7509.4	7991.6	7816.2
27.5°	6043.6	6004.6	5814.7	5347.2	5040.4	5439.7	6520.8	7811.4	8502.9	8303.2
30°	7192.9	7100.4	6852.0	6267.6	5746.5	5639.4	6598.8	8035.4	9072.7	8819.4
32.5°	7986.7	8108.4	8030.5	7436.4	6637.7	6102.0	6725.4	8317.8	9598.6	9433.1
35°	9213.9	9355.1	9028.9	8502.9	7699.4	6837.4	6993.2	8546.7	10407.0	10129.5
37.5°	10762.5	10869.7	10635.9	9637.6	8790.2	7743.2	7543.5	9024.0	11103.4	10972.0
40°	11541.7	12058.0	11726.8	10825.9	9915.2	9009.4	8454.2	9584.0	12316.1	12208.9
42.5°	12618.0	12876.1	12705.7	12038.5	11088.8	10363.2	9579.2	10674.9	13786.8	13786.8
45°	13757.6	13767.3	13757.6	13212.1	12369.6	11994.6	11098.6	12043.3	15369.5	15544.8
47.5°	14692.6	14984.8	14960.4	14634.1	13981.6	13840.3	12618.0	13601.7	17356.4	17663.2
50°	15174.7	15501.0	15598.4	15768.8	15739.6	16036.7	14278.6	15408.5	19070.7	19825.5
52.5°	15043.2	15067.6	15666.6	16338.6	17410.0	18242.8	16280.2	17458.7	21077.1	21822.2
55°	13967.0	13874.4	15106.5	15876.0	18091.8	19591.7	19051.2	20015.4	22640.3	23775.0
57.5°	11605.0	11629.4	12769.0	14332.2	17585.3	20127.4	22012.1	23356.2	24831.8	25976.2
60°	8011.0	7981.8	9257.7	11064.5	14609.8	19129.1	23716.6	27685.6	27763.5	29385.2
62.5°	4504.7	4514.4	5483.5	7027.3	10222.0	15632.5	23633.8	32282.8	31951.6	33373.6
65°	2551.8	2615.2	3282.3	4163.8	6121.5	10494.7	20327.1	34113.9	35180.4	36446.6
66°	2157.4	2201.2	2771.0	3438.2	4884.5	8512.6	18296.3	33758.4	36193.3	37157.6
67.5°	1670.4	1728.8	2206.1	2727.2	3584.3	5892.6	14726.7	31990.6	36378.4	36943.3
70°	1144.4	1183.4	1548.6	2069.7	2449.6	3014.5	8804.8	26448.6	33008.4	33485.6
72.5°	803.5	823.0	1086.0	1568.1	1884.7	1724.0	4368.3	18817.4	25260.3	26190.5
75°	579.5	599.0	745.1	1125.0	1470.7	1129.8	2001.5	12019.0	15491.3	16221.7
77.5°	418.8	443.2	506.5	725.6	1066.5	793.8	983.7	6277.3	7304.9	7178.3
80°	253.2	277.6	375.0	467.5	779.2	560.0	540.6	2620.0	2590.8	2459.3
82.5°	116.9	136.4	199.7	316.5	545.4	389.6	258.1	935.0	818.1	750.0
85°	34.1	43.8	116.9	238.6	277.6	189.9	155.8	321.4	336.0	287.3
87.5°	0.0	4.9	53.6	58.4	82.8	63.3	58.4	82.8	155.8	126.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575128

CATALOG NUMBER: EPH-VN-08-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3930.0	0°	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0	3930.0
4056.7	2.5°	3969.0	3934.9	3852.1	3725.5	3613.5	3555.0	3472.3	3399.2	3360.3	3355.4
4144.3	5°	4066.4	3973.9	3774.2	3545.3	3374.9	3189.8	3063.2	2970.7	2883.0	2800.2
4402.4	7.5°	4197.9	4051.8	3725.5	3428.4	3058.3	2819.7	2595.7	2464.2	2386.3	2313.2
4645.9	10°	4402.4	4217.4	3691.4	3155.7	2732.0	2381.4	2152.5	1962.6	1855.4	1728.8
4952.7	12.5°	4680.0	4348.8	3564.8	2907.3	2361.9	1991.8	1665.5	1358.7	1188.3	1056.8
5303.4	15°	4957.6	4524.2	3447.9	2605.4	2025.9	1538.9	1061.6	852.2	803.5	774.3
5741.6	17.5°	5230.3	4665.4	3267.7	2298.6	1641.2	978.9	774.3	730.5	706.1	676.9
6145.9	20°	5561.5	4757.9	3043.7	2016.2	1129.8	725.6	662.3	633.1	594.1	555.2
6676.7	22.5°	5882.9	4835.8	2785.6	1655.8	759.7	628.2	555.2	516.2	482.1	443.2
7105.2	25°	6204.3	4860.2	2449.6	1188.3	613.6	501.6	433.4	379.9	345.8	311.7
7490.0	27.5°	6423.4	4709.2	2133.0	759.7	491.9	379.9	301.9	258.1	228.9	194.8
7826.0	30°	6550.1	4431.6	1792.1	535.7	370.1	258.1	180.2	136.4	107.1	82.8
8400.6	32.5°	6676.7	4207.6	1407.4	409.1	243.5	136.4	68.2	24.3	0.0	0.0
8936.3	35°	6929.9	3954.4	944.8	228.9	82.8	4.9	0.0	0.0	0.0	0.0
9623.0	37.5°	7090.6	3603.7	433.4	34.1	0.0	0.0	0.0	0.0	0.0	0.0
10572.6	40°	7494.8	3428.4	107.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11858.3	42.5°	8152.3	3306.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13397.2	45°	8873.0	3258.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14897.1	47.5°	9832.4	3389.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16825.6	50°	10845.3	3745.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18315.8	52.5°	11955.7	4081.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19854.7	55°	12924.8	4485.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22017.0	57.5°	14707.2	5439.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25898.3	60°	17906.7	7314.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30310.5	62.5°	21510.5	8707.4	53.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32988.9	65°	22830.2	8673.3	92.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0
32935.3	66°	22596.5	8196.1	92.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0
32005.2	67.5°	21383.9	7280.5	82.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0
27817.0	70°	18364.5	6014.4	82.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0
21637.1	72.5°	14001.1	4684.9	77.9	19.5	4.9	0.0	0.0	0.0	0.0	0.0
13031.9	75°	8449.3	2493.4	63.3	24.3	9.7	0.0	0.0	0.0	0.0	0.0
5605.3	77.5°	3365.1	876.6	48.7	19.5	9.7	0.0	0.0	0.0	0.0	0.0
1762.9	80°	910.7	263.0	29.2	19.5	14.6	4.9	0.0	0.0	0.0	0.0
496.7	82.5°	238.6	97.4	24.3	19.5	9.7	4.9	0.0	0.0	0.0	0.0
165.6	85°	92.5	39.0	19.5	14.6	14.6	9.7	4.9	0.0	0.0	0.0
53.6	87.5°	29.2	14.6	14.6	9.7	9.7	4.9	4.9	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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