

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: P575420

Luminaire Tested: **EPH-VN-08-740-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575420
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-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

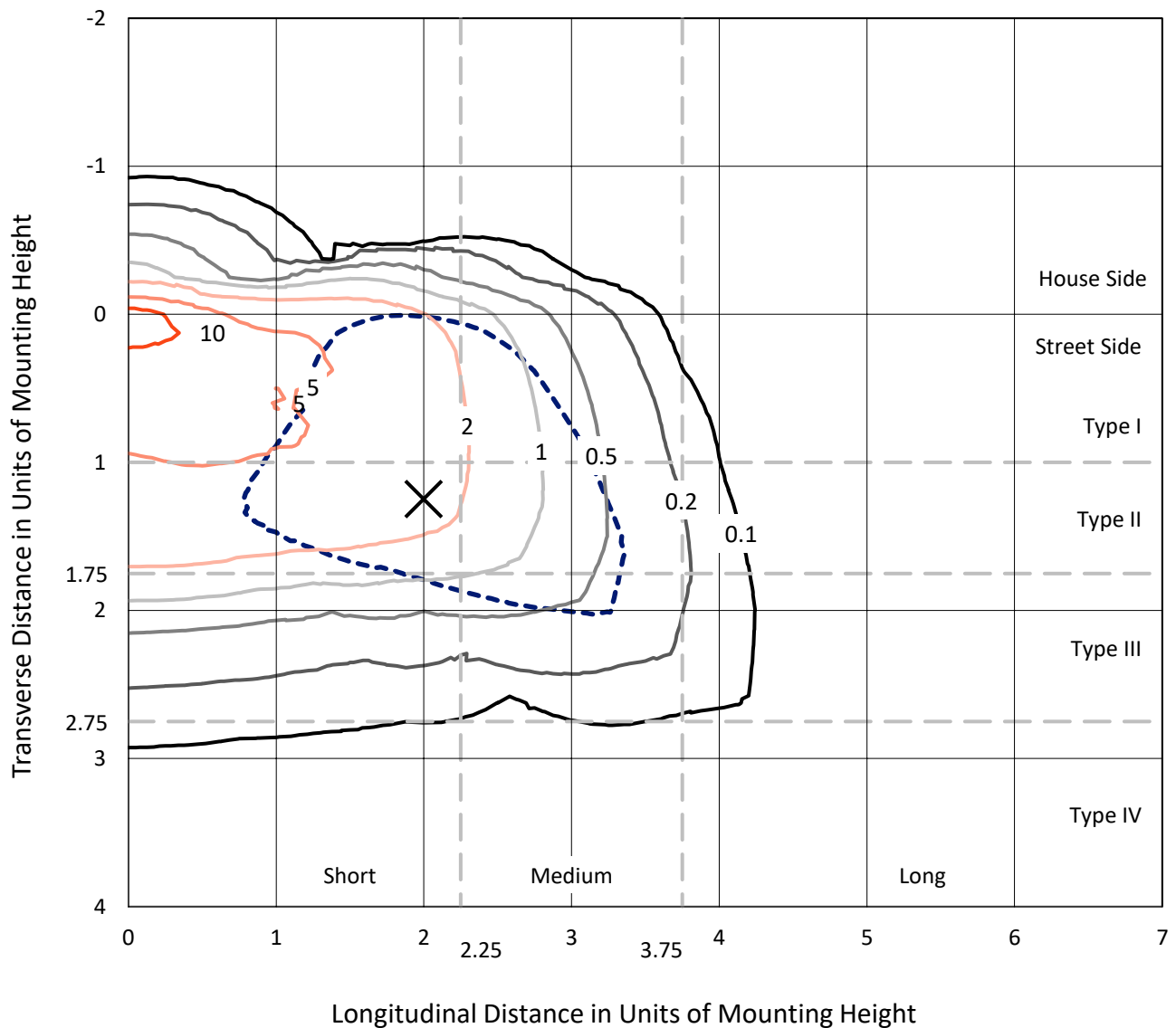
Lumens per Lamp: N/A
Luminaire Lumens: 40285.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P575420
 CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

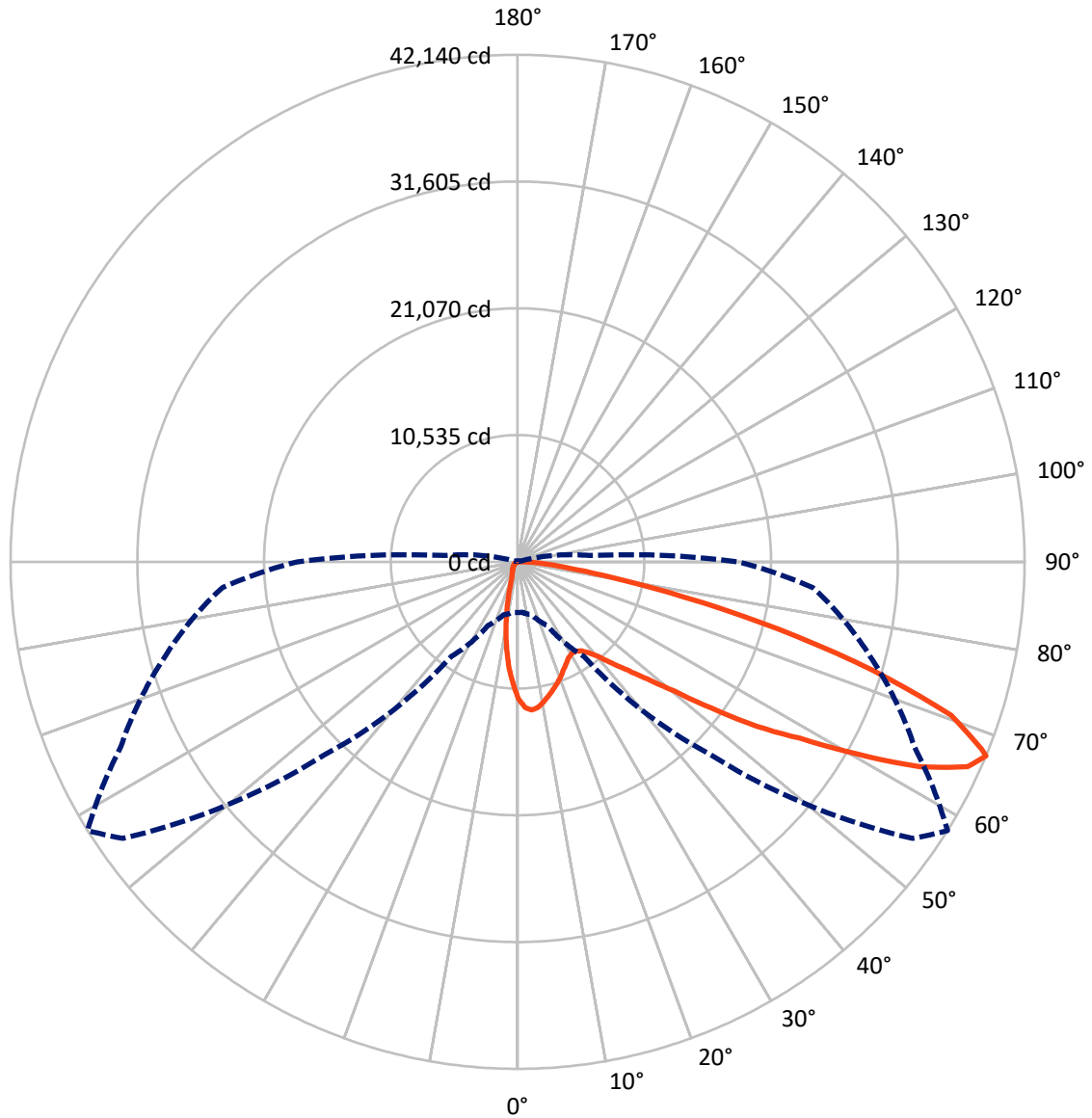
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

REPORT NUMBER: P575420
CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P575420
 CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

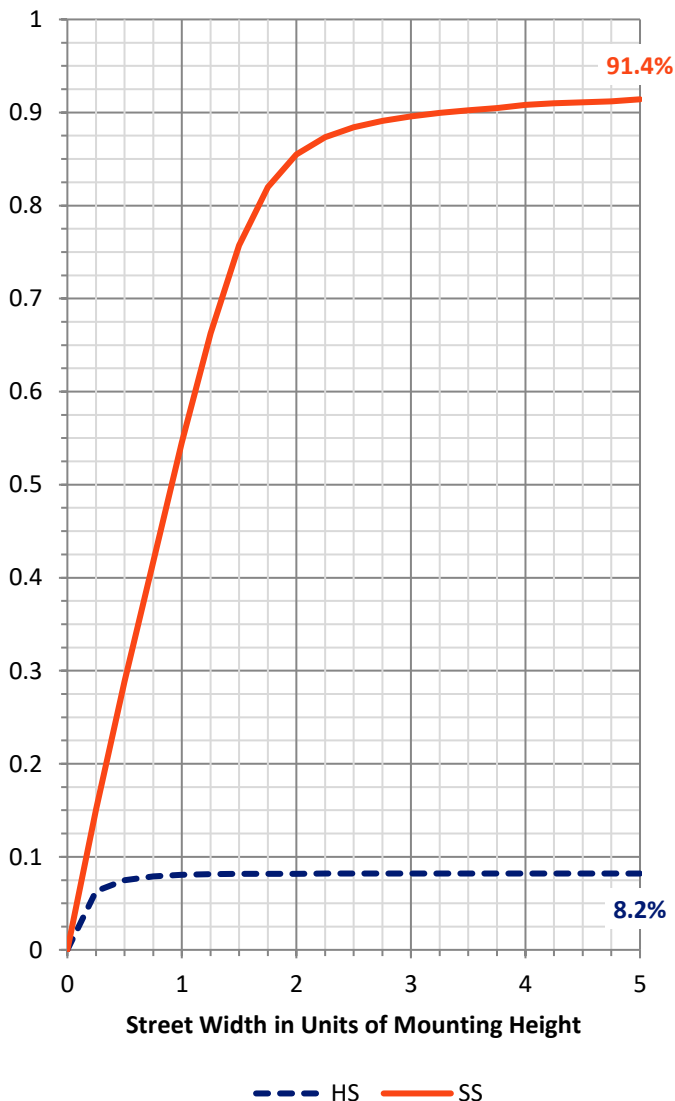
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.9	0.0	3329.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	36955.8	0.0	36955.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	40285.6	0.0	40285.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.6	2.2
10°-20°	1878.4	4.7
20°-30°	2492.2	6.2
30°-40°	3453.4	8.6
40°-50°	5635.0	14.0
50°-60°	9904.5	24.6
60°-70°	10970.0	27.2
70°-80°	4546.0	11.3
80°-90°	500.4	1.2
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°	40285.6	100.0
0°-180°	40285.6	100.0

Coefficient of Utilization



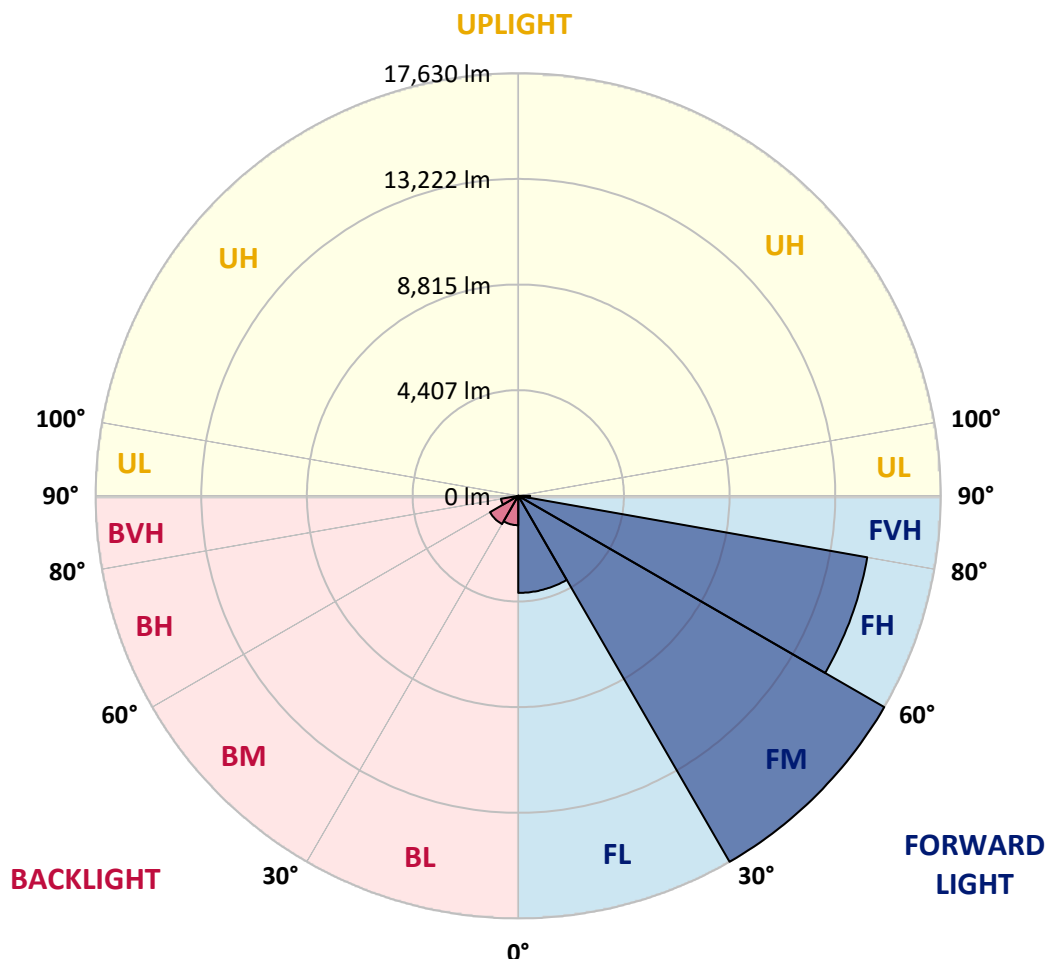
REPORT NUMBER: P575420
 CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4049.8	10.1			
FM (30°-60°)	17629.8	43.8			
FH (60°-80°)	14783.9	36.7			G5
FVH (80°-90°)	492.2	1.2			G3/500
BL (0°-30°)	1226.4	3.0	B3/2500		
BM (30°-60°)	1363.1	3.4	B2/2500		
BH (60°-80°)	732.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P575420
 CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5
2.5°	12419.0	12461.8	12499.2	12429.7	12488.5	12402.9	12183.6	12135.5	12098.1	11771.8
5°	12413.6	12365.5	12402.9	12435.0	12354.8	12419.0	12365.5	12370.8	12226.4	11932.3
7.5°	11584.6	11563.2	11584.6	11739.7	11916.2	12055.3	12135.5	12215.7	12119.5	11680.9
10°	10466.8	10573.8	10632.6	10910.7	11183.5	11440.2	11691.6	11841.3	11814.6	11638.1
12.5°	9685.9	9653.8	9867.8	10049.6	10322.4	10841.2	11279.8	11418.8	11579.3	11333.2
15°	8963.9	8878.3	9006.7	9322.2	9787.6	10199.4	10814.4	11023.0	11226.3	11290.5
17.5°	8274.0	8316.8	8450.5	8733.9	9172.5	9750.1	10327.7	10627.3	11114.0	11028.4
20°	7942.4	8033.3	8081.4	8225.8	8530.7	9108.3	9969.4	10210.1	10728.9	11023.0
22.5°	7958.4	7958.4	7846.1	7931.7	8209.8	8659.0	9482.7	9750.1	10573.8	10744.9
25°	8129.6	8022.6	8027.9	7926.3	8044.0	8290.0	9044.1	9370.4	10258.2	10771.7
27.5°	8257.9	8236.5	8204.4	8177.7	8027.9	8065.4	8755.3	9022.7	10135.2	10739.6
30°	8723.2	8627.0	8594.9	8536.0	8338.1	8156.3	8525.3	8862.3	10038.9	10814.4
32.5°	9113.7	9129.7	9156.4	8985.3	8814.2	8364.9	8589.5	8856.9	9969.4	10985.6
35°	9605.7	9675.2	9685.9	9632.5	9450.6	9006.7	8856.9	9086.9	10087.1	11290.5
37.5°	10354.5	10279.6	10482.8	10504.2	10375.9	9787.6	9477.4	9568.3	10434.7	11777.2
40°	10841.2	10932.1	11311.8	11547.2	11327.9	10793.1	10375.9	10359.8	10937.5	12542.0
42.5°	11381.4	11584.6	12001.8	12509.9	12483.1	11985.7	11563.2	11493.7	11830.6	13649.1
45°	12119.5	12301.3	12884.3	13649.1	14066.3	13643.7	13007.3	12868.2	12916.4	15157.3
47.5°	13344.2	13296.1	14135.8	14889.9	15574.5	15248.3	14975.5	14569.0	14531.6	16933.0
50°	14729.5	14718.8	15467.6	16323.3	17114.9	17751.3	17296.7	16852.8	16863.5	19345.1
52.5°	16045.2	16253.8	17061.4	17911.8	19270.3	19954.9	20393.4	20216.9	19366.5	21500.5
55°	16740.5	16922.3	17724.6	19190.0	21334.7	23094.4	24281.7	24131.9	22490.0	23928.7
57.5°	16082.6	16205.6	17291.4	19211.4	22778.8	26704.5	27843.7	27656.5	25720.4	25784.6
60°	13328.2	13520.7	15136.0	17387.6	22217.2	29485.7	32748.2	32464.7	28662.0	28132.5
62.5°	9231.3	9359.7	10686.1	13488.6	19553.7	30453.7	37379.9	37535.0	31764.1	29961.7
65°	5979.5	5968.8	6728.3	8627.0	13857.7	27522.8	40118.3	41081.0	34759.2	30239.8
67°	4225.2	4209.2	4567.5	5851.1	9595.0	22677.2	40070.2	42140.0	36385.1	30320.0
67.5°	3899.0	3882.9	4225.2	5380.5	8659.0	21088.7	39471.1	41594.4	36957.4	30207.7
70°	3027.2	2984.4	3112.8	3706.4	5043.5	13638.4	33780.4	38208.9	35770.0	27405.2
72.5°	2187.5	2235.6	2438.9	3043.2	3957.8	7338.0	25747.2	30897.7	29876.1	20655.5
75°	1524.3	1567.1	1893.3	2481.7	3631.6	4449.9	17409.0	22409.8	20810.6	11402.8
77.5°	796.9	850.4	1208.7	1984.3	3300.0	3444.4	10402.6	14210.7	11028.4	4059.4
80°	369.0	395.8	604.4	1406.6	2759.8	3027.2	6065.1	7904.9	4412.4	909.2
82.5°	160.5	176.5	278.1	807.6	1957.5	2647.5	3754.6	4145.0	1599.2	294.2
85°	32.1	37.4	107.0	427.9	946.7	1604.5	2636.8	2460.3	802.3	144.4
87.5°	0.0	0.0	26.7	123.0	256.7	476.0	1117.8	1117.8	246.0	74.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575420

CATALOG NUMBER: EPH-VN-08-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11413.5	0°	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5	11413.5
11584.6	2.5°	11418.8	11226.3	10803.8	10413.3	10135.2	9819.6	9402.5	9215.3	9145.8	9049.5
11408.1	5°	11119.3	10884.0	10161.9	9434.6	8637.7	8033.3	7391.5	7017.1	6733.6	6557.1
11172.8	7.5°	10696.8	10215.4	9242.0	8076.1	7043.8	6145.3	5171.9	4514.0	4091.5	3920.4
10916.1	10°	10359.8	9734.1	8252.6	6803.2	5428.6	4112.9	3016.5	2438.9	2000.3	1834.5
10579.1	12.5°	9921.3	9172.5	7327.3	5503.5	3776.0	2449.6	1668.7	1449.4	1326.4	1305.0
10397.3	15°	9557.6	8664.4	6450.2	4262.7	2444.2	1529.6	1299.7	1246.2	1214.1	1203.4
10124.5	17.5°	9311.6	8118.9	5551.6	3102.1	1609.9	1251.5	1198.0	1165.9	1149.9	1144.6
9857.1	20°	8824.8	7658.9	4663.8	2171.4	1256.9	1155.3	1112.5	1085.7	1069.7	1064.3
9616.4	22.5°	8546.7	7075.9	3776.0	1513.6	1117.8	1048.3	1016.2	994.8	968.1	952.0
9488.0	25°	8268.6	6648.1	2984.4	1176.6	1016.2	968.1	919.9	893.2	850.4	829.0
9290.2	27.5°	7942.4	6225.5	2299.8	1021.5	914.6	866.4	818.3	775.5	722.0	700.6
9177.8	30°	7755.2	5813.7	1732.9	914.6	839.7	775.5	716.7	663.2	604.4	566.9
9290.2	32.5°	7658.9	5439.3	1299.7	834.3	759.5	689.9	615.1	550.9	497.4	465.3
9300.9	35°	7541.2	5075.6	1021.5	759.5	684.6	609.7	534.8	470.7	417.2	390.4
9707.3	37.5°	7664.2	4861.7	850.4	700.6	625.8	540.2	460.0	395.8	353.0	326.3
10210.1	40°	8001.2	4685.2	738.1	647.2	566.9	476.0	401.1	336.9	299.5	278.1
11007.0	42.5°	8520.0	4685.2	668.5	593.7	513.4	417.2	342.3	294.2	256.7	235.3
12365.5	45°	9461.3	4829.6	609.7	540.2	449.3	358.3	294.2	246.0	208.6	187.2
14242.8	47.5°	10782.4	5161.2	561.6	492.1	401.1	315.6	256.7	208.6	171.1	149.8
16451.7	50°	12558.0	5915.3	513.4	433.2	358.3	272.8	213.9	165.8	133.7	112.3
18815.6	52.5°	14772.3	6985.0	465.3	401.1	304.9	230.0	171.1	133.7	101.6	85.6
21147.5	55°	17114.9	8295.4	406.5	358.3	262.1	192.5	139.1	101.6	74.9	64.2
23966.1	57.5°	19473.5	9306.2	358.3	310.2	213.9	155.1	112.3	80.2	53.5	42.8
25779.3	60°	20725.0	9402.5	310.2	256.7	171.1	123.0	85.6	58.8	37.4	26.7
26319.4	62.5°	20917.6	8546.7	267.4	208.6	139.1	96.3	58.8	42.8	21.4	10.7
26153.6	65°	19928.1	7124.1	230.0	165.8	107.0	69.5	42.8	26.7	10.7	5.3
24618.6	67°	18323.6	5968.8	197.9	139.1	85.6	53.5	32.1	16.0	5.3	0.0
23944.8	67.5°	17703.2	5647.9	187.2	128.4	80.2	48.1	26.7	16.0	5.3	0.0
19120.5	70°	13740.0	4032.7	139.1	90.9	58.8	37.4	21.4	10.7	0.0	0.0
12151.5	72.5°	8418.4	2358.6	107.0	64.2	42.8	26.7	16.0	5.3	0.0	0.0
5177.2	75°	3529.9	813.0	90.9	48.1	32.1	16.0	10.7	5.3	0.0	0.0
1428.0	77.5°	919.9	304.9	64.2	32.1	21.4	16.0	10.7	5.3	0.0	0.0
492.1	80°	374.4	139.1	42.8	21.4	21.4	16.0	10.7	5.3	0.0	0.0
304.9	82.5°	246.0	64.2	26.7	21.4	16.0	10.7	5.3	0.0	0.0	0.0
240.7	85°	187.2	37.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0	0.0
90.9	87.5°	80.2	21.4	16.0	10.7	10.7	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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